

APPENDIX A
Consultation Report



Dixie-Dundas Flood Mitigation Municipal Class Environmental Assessment Consultation Report

Prepared for:
City of Mississauga

Prepared by:
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Mississauga, Ontario

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Prepared for the City of Mississauga, March 2024

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Disclaimer

Matrix Solutions Inc. certifies that this report is accurate and complete and accords with the information available during the project. Information obtained during the project or provided by third parties is believed to be accurate but is not guaranteed. Matrix Solutions Inc. has exercised reasonable skill, care, and diligence in assessing the information obtained during the preparation of this report.

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1 Introduction

The City of Mississauga (the City) has undertaken a Schedule C Municipal Class Environmental Assessment (EA) led by Matrix Solutions Inc. (Matrix) to develop flood mitigation approaches for the Dixie-Dundas area located in Mississauga, Ontario (Figure 1). Consultation during the decision-making process is a key feature of the Municipal Class EA process (see Section 1.2). Those consulted throughout the process include Indigenous communities, relevant agencies, and stakeholders, which include landowners in the project location (see Section 2.2).

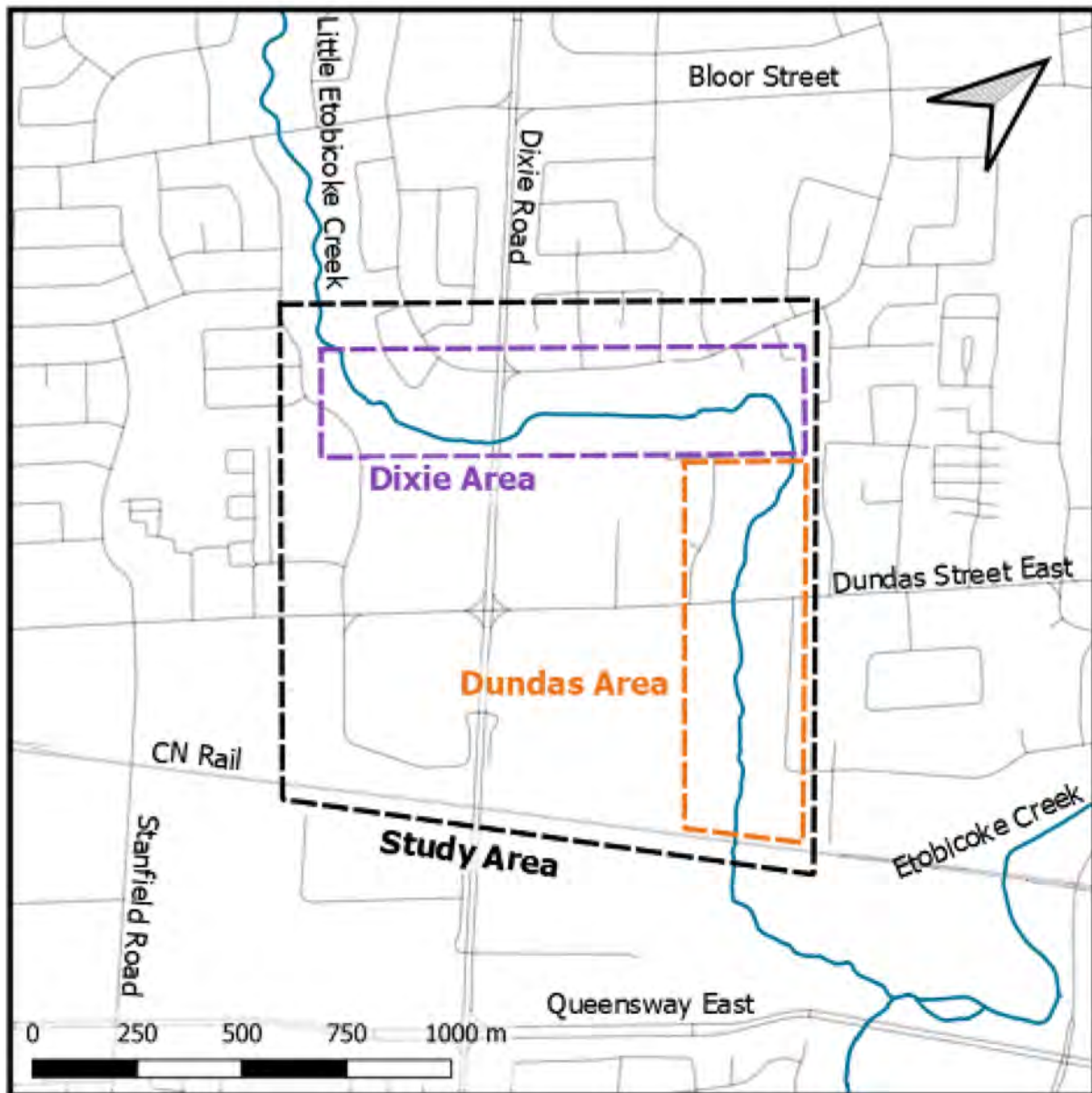


Figure 1 Study Area

1.1 Project Overview

As part of the EA process, the project was anchored on the following problem, opportunity, and summary statements. These statements were provided early in the project for public consideration. The original problem and opportunity statements have been modified to be consistent with the expanded study area.

1.1.1 Problem Statement

The lands along Little Etobicoke Creek surrounding Dixie Road and Dundas Street, referred to as “Dixie-Dundas” for this project, are subject to flooding from as little as a 5-year storm event. This urban area consists of park and trail, commercial, industrial, and residential land uses and includes designated Special Policy Areas (SPAs) which regulate future development due to flood risks. The City of Mississauga has an interest to protect flood vulnerable residences and businesses as well as to intensify Dixie-Dundas to fulfill the vision of growth expressed in the Dundas Connects Master Plan (City of Mississauga et al. 2018). This vision of growth centres around the Dixie GO Station and proposed higher-order transit along Dundas Street and it cannot be fully implemented without first addressing the flooding and updating the SPA policies as part of a concurrent initiative by the City Planning Strategies Division.

1.1.2 Opportunity Statement

The Dixie-Dundas Flood Mitigation Municipal Class EA process seeks solutions to address flooding from Little Etobicoke Creek to protect existing residences and businesses as well as to enable future growth. Any acceptable flood protection solution will, to the extent possible, lower or maintain delineated flood lines as well as minimize impacts to landownership, land use conditions, and existing and proposed infrastructure. Floodplain mapping would be updated to reflect a flood mitigation solution, in addition to the concurrent SPA initiatives by the City, to provide greater certainty for future development and provide confidence that existing assets are protected to the extent possible.

1.1.3 Summary Statement

Residences and businesses in the Dixie-Dundas community are currently highly vulnerable to flooding from Little Etobicoke Creek. The Dixie-Dundas Flood Mitigation Class EA has been completed to assess and recommend solutions that best provide flood protection to residences and businesses, as well as to enable future growth.

1.2 Municipal Class Environmental Assessment

The Dixie-Dundas Flood Mitigation Municipal Class EA follows the Municipal Class EA process outlined by the Municipal Class Environmental Assessment Manual (MEA 2015), under the Ontario Environmental Assessment Act, Revised Statutes of Ontario (R.S.O.) 1990, Chapter E.18, as amended. The consultation process for this project complies with the Code of Practice for Consultation in Ontario's Environmental Assessment Process (MOE 2014). The EA manual has since been updated (MECP 2021); however, the project will continue to follow the 2015 regulations to align with the start time.

Figure 2 illustrates the Municipal Class EA process and the phases are defined as follows in the EA manual (MEA 2015):

- “Phase 1 Identify the problem (deficiency) or opportunity

- Phase 2 Identify alternative solutions to address the problem or opportunity by taking into consideration the existing environment and establish the preferred solution taking into account public and review agency input. At this point, determine the appropriate Schedule for the undertaking and document decisions in a Project File for Schedule B projects, or proceed through the following Phases for Schedule C projects.

- Phase 3 Examine alternative methods of implementing the preferred solution, based upon the existing environment, public and review agency input, anticipated environmental effects and methods of minimizing negative effects and maximizing positive effects.

- Phase 4 Document, in an Environmental Study Report a summary of the rationale, and the planning, design and consultation process of the project as established through the above Phases, and make such documentation available for scrutiny by review agencies and the public.

- Phase 5 Complete contract drawings and documents, and proceed to construction and operation; monitor construction for adherence to environmental provisions and commitments. Where special conditions dictate, also monitor the operation of the completed facilities.”

MUNICIPAL CLASS EA PLANNING AND DESIGN PROCESS NOTE: This flow chart is to be read in conjunction with Part A of the Municipal Class EA

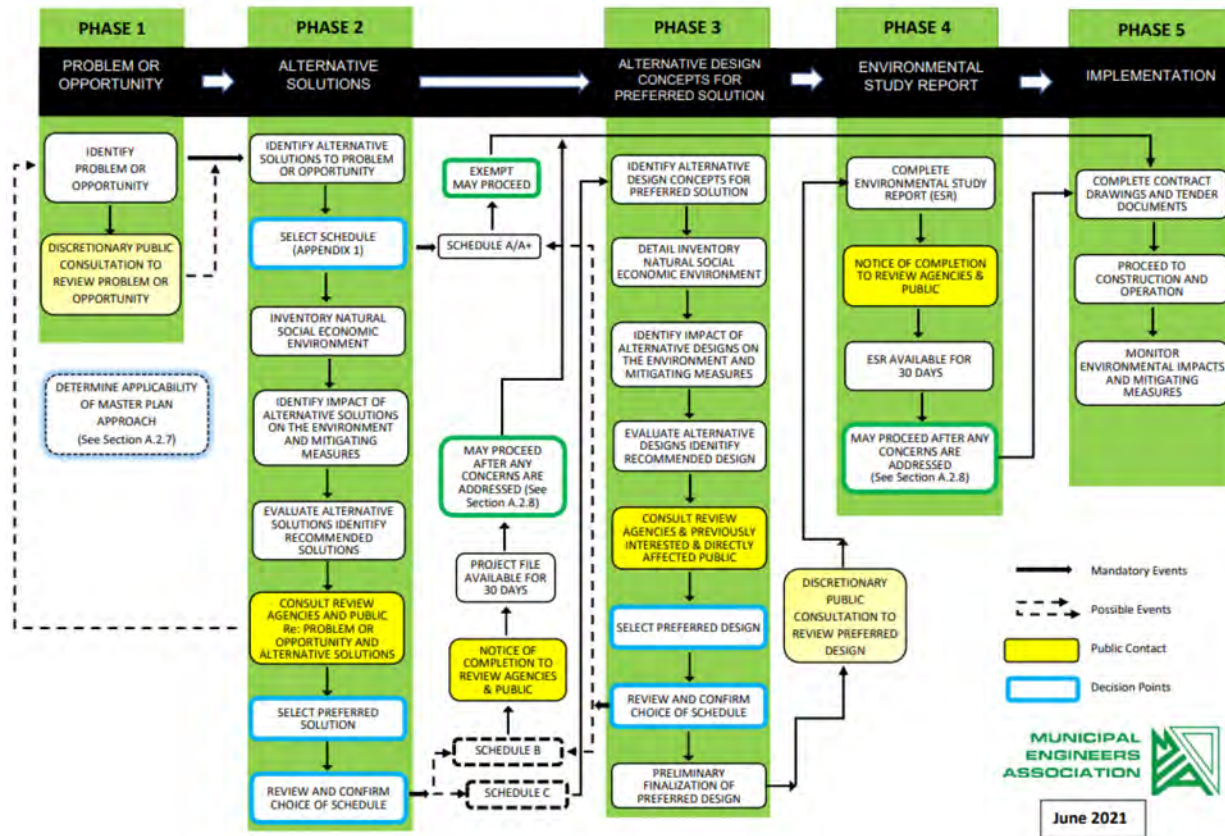


Figure 2 Municipal Class Environmental Assessment Process (MEA 2015)

There are several classifications or schedules associated with municipal infrastructure projects defined as follows in the EA manual (MEA 2015):

- Schedule A (Phase 1 and Phase 5 completed only):
 - ✦ Generally, it includes normal or emergency operational and maintenance activities.
 - ✦ The environmental effects of these activities are usually minimal and, therefore, these projects are pre-approved.
- Schedule A+ (Phase 1 and Phase 5 completed only):
 - ✦ In 2007, MEA introduced Schedule A+. These projects are pre-approved; however, the public is to be advised prior to project implementation. The manner in which the public is advised is to be determined by the proponent. Schedule A+ is discussed in Section A.1.2.2.

- Schedule B (Phases 1, 2, and 5 completed):
 - ✦ Generally, it includes improvements and minor expansions to existing facilities.
 - ✦ There is the potential for some adverse environmental impacts and therefore the proponent is required to proceed through a screening process, including consultation with those who may be affected.
- Schedule C (Phases 1 through 5 completed):
 - ✦ Generally, it includes the construction of new facilities and major expansions to existing facilities.
 - ✦ These projects proceed through the environmental assessment planning process outlined in the Class EA.

A project that is carried out following the approved Municipal Class EA process will comply with any Part II Order Requests as stipulated in the Environmental Assessment Act. This will come into effect if a project is identified as potentially having adverse impacts to Indigenous and treaty rights.

Any issue should try to be resolved with the project proponent first and a Part II Order should not be requested with the intent to solely delay or stop the planning and implementation of a Class EA project. If the issue cannot be resolved, a Part II Order request must be submitted to both the Ontario Ministry of the Environment, Conservation and Parks (MECP) and the Director of Environmental Assessment Branch via mail, email, fax, or hand delivery after the proponent has issued a Notice of Completion. The proponent should also be sent a copy of the request. MECP will review the request, consider evaluation criteria, consult with other technical staff, and make a recommendation to the Minister. The Minister can request an individual Class EA for the project or apply further conditions to the Class EA that may entail further study, monitoring, and/or consultation.

2 Consultation

2.1 Methodology and Approach

Matrix has managed project consultation requirements in accordance with the Ontario Environmental Assessment Act. Matrix ensured any interested parties were provided notices, in paper and email, with instructions to sign up to the virtual events through the City's webpage

(<http://www.mississauga.ca/flooding>) described below. Throughout the project, Matrix has adhered to public health recommendations, and meetings were held online in a format that was comfortable to stakeholders, whether through email, phone call, or virtual meeting.

The City's webpage allows residents to contribute ideas and feedback on plans, projects, and services. The Dixie-Dundas Flood Mitigation Study webpage was activated in early 2020. The project webpage was continuously updated throughout the project and a link to the site provided in all notices distributed. Notices, Public Information Centre (PIC) materials, and feedback forms were posted to the webpage for public review and comment. These materials are attached in the appendices.

2.2 Contact List

A key part of the Municipal Class EA process is to consult with applicable interested parties to gather information they may have and obtain their input on alternative solutions and design concepts for the preferred solution. As mentioned, the contact list for this project comprised Indigenous communities and relevant agencies and stakeholders. The contact list has been maintained and updated throughout the project based on communication with these individuals/organizations. The City and Matrix hold the detailed contact list information. The detailed list is not included in this report to respect privacy concerns; however, a list of the organizations contacted and the original project notice mailout area are provided in Figure 3.

Key stakeholders in the project comprised of landowners and occupants located nearest to Little Etobicoke Creek within the study area. The following subsections describe various interested parties and associated level of engagement in the project.

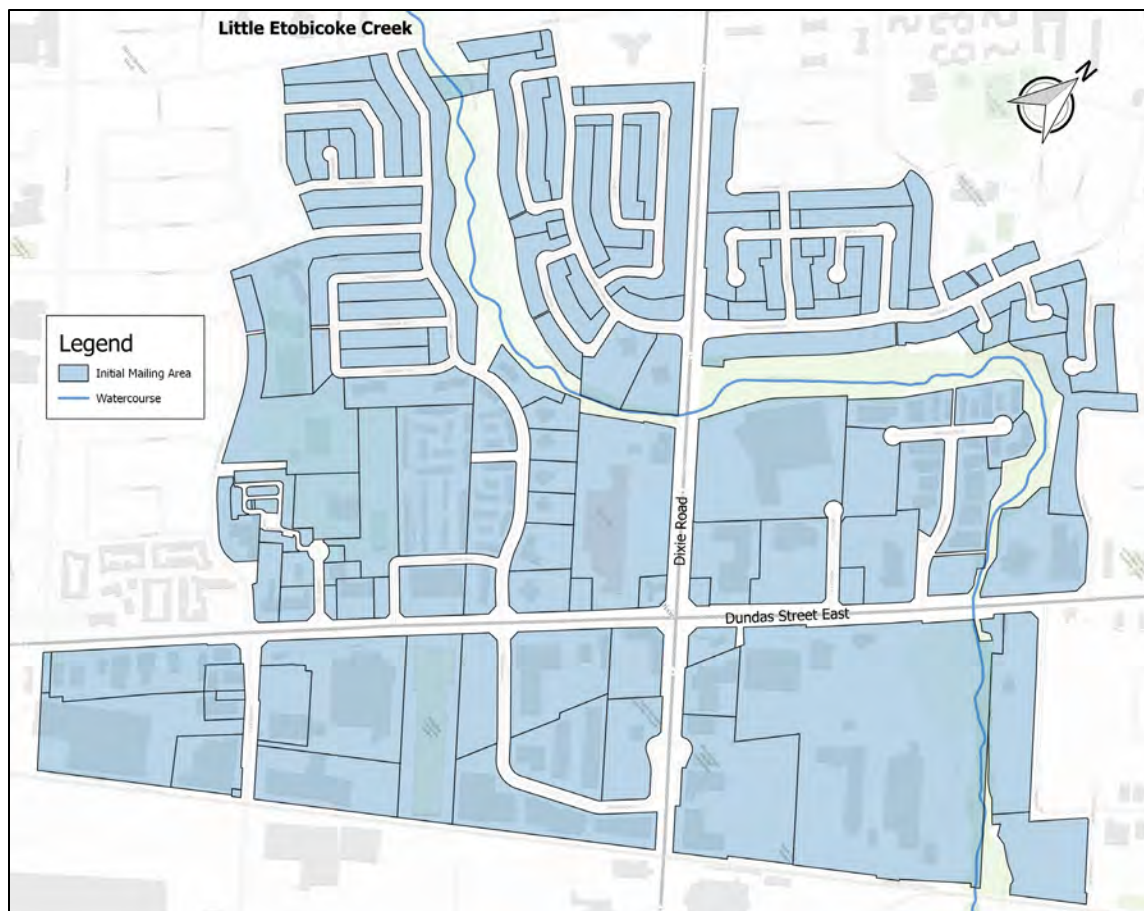


Figure 3 Initial Mailing Area

2.2.1 Indigenous Communities

Appropriate and considerate engagement with Indigenous communities was a priority for this project. The MECP emphasized the importance of consultation and provided the project team with “A Proponent’s Introduction to the Delegation of Procedural Aspects of Consultation with Aboriginal Communities” to follow throughout the project. Matrix engaged Cambium Indigenous Professional Services (CIPS) from the onset of the project to facilitate discussions with Indigenous communities.

Active engagement has been conducted with the following Indigenous communities which have also been listed as communities who may be potentially affected by the project:

- Mississaugas of the Credit First Nation (MCFN)
- Six Nations of the Grand River
- Haudenosaunee Confederacy (represented by Haudenosaunee Development Institute)
- Huronne-Wendat Nation

2.2.2 Agencies and Other Stakeholders

The agencies and other stakeholders in the list below were provided project notices and had been requested to provide feedback or information that may be relevant to the project. Agencies and stakeholders marked with an asterisk (“*”) denote those which had significant targeted involvement and, in some cases, were the subject of special meetings arranged to discuss individual opportunities and integration into the project. A brief description of interactions with these key stakeholders is outlined in Section 3 of this report. All stakeholders in the project, including those who experienced additional points of contact, are listed as follows:

- Ministry of the Environment, Conservation and Parks (MECP)*
- City of Mississauga, various departments*
- City of Mississauga – Rapid Transit Program Office*
- Toronto and Region Conservation Authority*
- Credit Valley Conservation Authority
- Region of Peel, various departments*
- Ministry of Natural Resources and Forestry (MNR)
- Ministry of Municipal Affairs and Housing (MMAH)
- City of Toronto
- Mississauga Board of Trade
- Various residents
- Applewood Hills and Heights Residents Association
- BlackTusk Group
- The Brick*
- Canadian Urban Limited
- Crozier and Associates
- IBI Group (now a part of ARCADIS)
- Gagnon Walker Domes (GWD)
- Glen Schnarr & Associates
- Golfour Property Services Inc.
- Greck
- KWA Site Development Consulting Inc.*
- Land Investment Group
- Newmark Canada
- North American Development Group
- NOVA Properties Inc.

- The Odan/Detech Group Inc.
- Orlando Corporation
- Plan Logic Consulting Inc.
- Sajecki Planning
- Smart Centres
- SCS Consulting Group Ltd.
- Sorbara
- Starlight Developments
- Tercot Communities
- Terracap Management Inc.
- Trolley Bus Urban Development
- Waverly Projects
- Utilities:
 - ✦ Alectra
 - ✦ Bell Canada
 - ✦ CN Rail
 - ✦ Enbridge
 - ✦ Hydro One
 - ✦ Rogers Communication
- School Boards:
 - ✦ Peel Region District School Board
 - ✦ Dufferin-Peel Catholic School Board

2.3 Consultation Approach

Early in the project, the project team developed a consultation approach that defined a framework for engagement and consultation with the general public at large, with Indigenous communities, and with the agencies and stakeholders outlined in the previous section.

The Schedule C Municipal Class EA process has four mandatory points of contact to the public, with these being: the Notice of Commencement, PIC No. 1, PIC No. 2, and the Notice of Completion. An additional project bulletin was presented to the public to highlight the requirement to expand the original study area. Formal points of contact to the public, i.e., outreach to the public from the study team, are summarized in Table 1.

In addition to communication and meetings held with Indigenous communities, the project team also, in some cases, held individual meetings with other stakeholders and agencies to discuss opportunities and project integration due to their:

- existing or planned infrastructure placement requirements
- regulatory involvement
- potential future requirements

Public comments in response to the official above-referenced contact points were captured through online survey participation and direct correspondence with the project team.

A compiled list of public comments for the project is available in Appendix C. A brief description of other agency and stakeholder contact points and meetings is outlined in later sections of this report.

Table 1 Summary of Points of Contact for Class EA Process

Point of Contact	Distribution	Purpose
<p>Notice of Commencement and PIC No. 1</p>	<ul style="list-style-type: none"> • posted a recorded PIC on August 7, 2020, on YouTube (<u>Dixie-Dundas Flood Mitigation Project - Public Information Centre No. 1</u> - <u>https://www.youtube.com/watch?v=QvlyWNIXswg</u>) and has garnered over 500 views to date (at the time of reporting) • provided an online questionnaire for attendees to fill out and comment • a notice for the PIC (including the Notice of Commencement) was distributed: <ul style="list-style-type: none"> ▪ email was sent to the contact list ▪ mailed out the first notice through Canada Post to nearly 10,000 addresses starting the week of August 10, 2020 ▪ published on the City website on August 6, 2020 ▪ published in the Mississauga News on August 6, 2020 	<ul style="list-style-type: none"> • introduce the project and problem/opportunity statements to the public and interested parties • introduce preliminary details of the project to the public and interested persons • present alternative solutions and evaluation criteria for feedback • provide opportunity for interested parties to identify any concerns and/or information that will support the Municipal Class EA process • provide opportunity for the public to be added to the project mailing list
<p>Project Bulletin</p>	<ul style="list-style-type: none"> • the project bulletin was emailed out to the contact list and posted to the City’s webpage on October 29, 2021 • posted slides on the City website (<u>https://www.mississauga.ca/wp-content/uploads/2021/10/27162441/Dixie-Dundas-Flood-Mitigation-Study-Project-Bulletin-for-Expanded-Study-Area.pdf</u>) on August 4, 2021 • a notice for the project bulletin was distributed: • email was sent to the contact list on August 5, 2021 • published on the City website on October 29, 2021 	<ul style="list-style-type: none"> • introduce the expanded study area near Dundas Street • discuss conceptual alternative flood mitigation solutions for the expanded study area

Point of Contact	Distribution	Purpose
<p>PIC No. 2</p>	<ul style="list-style-type: none"> • posted a recorded PIC on May 19, 2023, on YouTube (Dixie-Dundas Flood Mitigation Project – Public Information Centre No. 2 - https://www.youtube.com/watch?v=M-Cs-vxcTro), which has garnered almost 100 views at the time of reporting • provided an online questionnaire for attendees to fill out and comment • a local resident requested a hard copy of the material and was sent a package on May 23, 2023 • a notice for the PIC was distributed: <ul style="list-style-type: none"> ▪ email was sent to the contact list on May 16, 2023 ▪ published on the City website on May 16, 2023 ▪ flyers to local residents and businesses (Figure 3) were distributed on May 12, 2023 	<ul style="list-style-type: none"> • present conceptual designs and a detailed evaluation of the alternative solutions • provide opportunity for interested parties to identify any concerns and/or information that will support the Municipal Class EA process
<p>Notice of Completion</p>	<ul style="list-style-type: none"> • a notice of completion was distributed: <ul style="list-style-type: none"> ▪ email was sent to the contact / stakeholder list on March 28, 2024 ▪ published on the City website on March 28, 2024 ▪ flyers to local residents and businesses were distributed on March 28, 2024 	<ul style="list-style-type: none"> • highlight the end of the project and the location of the ESR summarizing the project’s process and findings • providing the public a minimum 30-day period to review and comment on the ESR

PIC - Public Information Centre
 EA - Environmental Assessment
 ESR – Environmental Study Report

3 Feedback

3.1 Indigenous Community Consultation

As previously outlined, Matrix engaged CIPS to facilitate engagement with Indigenous communities. CIPS provided Matrix with an Indigenous Engagement Plan (CIPS 2020; Appendix D) that has been used for the project. At the project's end, CIPS prepared a record of engagement (Appendix D) documenting the project activities related to:

- reviewing the Indigenous communities whose historical/modern Treaty and Indigenous rights may be subjectively affected by the proposed project
- sending project notification to identified communities
- following up with individual Indigenous communities to initiate the dialogue of engagement and confirm project notification
- confirming the level of interest of each Indigenous community
- informing the City of the best engagement practices and options

A summary of consultation activities and communication with Indigenous communities is contained in the log prepared by CIPs in Appendix D. Original correspondence and communication records with Indigenous communities that best captured key items of discussion are also provided in Appendix D.

Each group was notified and contacted by CIPs and/or the project team for key milestones (e.g., PICs). There were no comments received regarding the project and flood mitigation options, except for the archaeological investigations. All groups were provided the Stage 1 Archaeology report for review and no comments were received. The Mississaugas of the Credit and Six Nations of the Grand River expressed interest to be involved in Stage 2. The Mississaugas of the Credit had a meeting with Matrix on November 2, 2021, to introduce the project. The Huron-Wendat expressed that they would like to be involved in all archaeological investigation stages. No response was received from HDI.

3.2 Agency Consultation

Relevant agency feedback received is summarized in the following subsections. A full list of agency contacts and full summary of correspondence is provided in Appendix C.

3.2.1 Ontario Ministry of the Environment, Conservation and Parks

The MECP provided a letter on September 17, 2020, entitled Response to Notice of Commencement (Appendix E) detailing the requirements of the EA and resources to address these requirements. The major topics covered in the letter included:

- Species at Risk: verification of any project impact to species at risk
- Planning and Policy: assure compliance to various municipal and provincial policies, such as the Provincial Policy Statement, 2020 (MMAH 2020)
- Source Water Protection: verification of vulnerable areas, such as Wellhead Protection Areas
- Climate Change: consideration of the MECP's climate change guide titled Considering Climate Change in the Environmental Assessment Process (MOECC 2017)
- Air Quality, Dust, and Noise: review and description of any potential impacts to air quality, dust, and noise during and post-construction
- Ecosystem Protection and Restoration: review and consideration for key natural heritage and hydrologic features
- Surface Water: demonstration of no negative impacts on the natural features or ecological functions of any watercourse
- Groundwater: explanation for any impacts to groundwater takings or changes to drainage patterns
- Contaminated Sites: verification of any current or historical waste disposal sites as well as underground storage tanks
- Excess Materials Management: confirmation of excess soil management in accordance with Management of Excess Soil – A Guide for Best Management Practices (MECP 2021)
- Servicing and Facilities: identification of any servicing infrastructure and facilities that may need compliance to an Environmental Compliance Approval (ECA)
- Mitigation and Monitoring: description of a plan for mitigation and post-construction monitoring
- Consultation: description of consultation efforts and how raised concerns have been addressed
- Class EA Process: documentation of the planning process

The Environmental Study Report for this EA contains a summary for each of the MECP-identified subjects listed above. Final consultation activities related to the MECP-related requirements outlined above and for the formal EA process in general, including all project completion requirements, are outlined in the ESR and not in this current report.

3.2.2 Ontario Ministry of Natural Resources and Forestry

The MNRF provided information to guide the project team in following the applicable policies and legislation. MNRF referenced the following documents that are applicable to the project: Technical Guide – River & Stream Systems: Flooding Hazard Limit (MNR 2002), Technical Guide – Understanding Natural Hazards (OMNR 2001), and Provincial Policy Statement (MMAH 2020). If Option 3 (Flood Landform) was chosen, further discussion would have been warranted with MNRF. Additionally, appropriate construction windows were advised.

The project adaptation and approach taken to address MNRF concerns are contained in ESR and relevant comprising technical documents.

3.2.3 Ontario Ministry of Heritage, Sport, Tourism, and Culture Industries

MHSTCI was provided the opportunity to review the revised Stage 1 Archaeological Assessment (ASI 2022) prepared by ASI. They have indicated they are satisfied that the fieldwork and reporting are consistent with MHSTCI's standards and terms and conditions for archaeological licenses. The report has been approved and entered into the Ontario Public Register of Archaeological Reports.

3.2.4 Toronto and Region Conservation Authority

As the regulator of the flood plain in the study area, the project team had significant communication and interaction with the Toronto and Region Conservation Authority (TRCA) throughout the EA project. The study area has been identified by TRCA as being one of the most flood vulnerable areas in their watershed.

TRCA was a key member of the technical steering committee of the initial (i.e., pre-EA) stages of the project that identified, explored and examined the general feasibility of potential technical solutions for flood mitigation prior to commencement of the Class EA. TRCA was involved with the review of all project deliverables during the EA, including all hydraulic modelling and related details contained in the Matrix technical report titled "Dixie Dundas Flood Mitigation Project – Hydraulic Modelling Report" which is contained in the ESR. TRCA was also involved with some of the additional landowner meetings which are described in later portions of this report.

A summary of consultation activities with TRCA is summarized in Table 2.

Table 2 TRCA Meeting Summary

Date	Description
December 8, 2021	Discussion about existing and proposed conditions at The Brick, future redevelopment, and the downstream Regional floodplain.
April 26, 2022	Project update was provided with regards to the expanded study area.
May 4, 2022	Discussion about alternative designs at Dundas Street, other coinciding constructions works in the area, and impacting areas at The Brick (berm, land requirements, and future development).
April 26, 2023	Review of PIC No. 2 and discussion about minor edits, berms/dykes/floodwalls, floodplain restoration, and armouring watercourse banks.
January 22, 2024	Review of ESR comments and clarification.

The Draft Environmental Study Report (ESR) was circulated to several reviewing agencies, including TRCA, for review and feedback. The comments provided by TRCA on January 22, 2024, and associated responses are outlined in Table 3.

Table 3 TRCA Comments – DRAFT Environmental Study Report

Item No.	TRCA Comments	City of Mississauga and Matrix Solutions Inc. Responses
1	Please quantify the area of required vegetation removals for each alternative to better justify the decision making around each of the alternatives.	The area of required vegetation removals for each alternative has been estimated and provided in the report.
2	Section 4 Planning and Policy, does there need to be reference to any applicable CVC flood plain management policies as flows which currently exit Little Etobicoke Creek flow through CVC jurisdiction?	The spill area is unregulated by CVC, but development applications in this area prompt a review by CVC. Once the Preferred Solution is complete, this need for review by CVC for applications in this area will no longer be required. A mention of the need for review in the section has been included to describe the existing risk, and a removal of this need in the preferred design section.
3	Section 6.4, Regional Flood Control – Upstream Storage, Page 60, first paragraph, TRCA is often pressed to develop storm water management solutions, including LID’s, to solve issues related to flooding. This is often very difficult to achieve considering the volume of water required to control flows, especially in a situation where we are trying to mitigate flooding at a sub watershed scale in an urban environment. From an engineering perspective it is easy to quantify the amount of water, however it is very difficult from the public’s perspective to quantify the volume of water required to achieve flood mitigation. I recommend the ESR describe the 227ha-m (2,270,000m ³) volume to something the public can relate to, for example a Olympic size swimming pool (i.e. over 900 Olympic sized pools would be required).	The report has been modified to include this example that the public can relate to with respect to retention volumes required to mitigate the spill.
4	Section 6.4, Regional Flood Control – Upstream Storage, Page 60, 2 nd paragraph, please remove reference to the MNRF potentially reconsidering upstream storage in the future.	Report has been updated to reflect this comment.
5	Section 6.4, Regional Flood Control – Upstream Storage, Page 60, 3 rd paragraph, please remove reference to “rural areas in Western Canada where land is available for storage”	Report has been updated to reflect this comment.

Item No.	TRCA Comments	City of Mississauga and Matrix Solutions Inc. Responses
6	Table 8, page 96, where increases in 100 year flood elevations are observed at outfalls are there any engineering solutions that could be used to mitigate the impacts of increased flooding depth at these locations? (e.g. flap gates)	Additional context has been added to the report to make it clear what the impact of an increase in water level during the 100-year event would be and potential ways it can be mitigated.
7	Table 10, page 104, general comment, how can we ensure that the “localized grading” on overbank private properties to meet the climate change objectives is achieved?	Wording in the report has been updated to reflect that the localized regrading will occur within public land or easements.
8	Table 12B, page 111, needs a better understanding of AS2 in terms of the naturalization of the resulting corridor, what where the modelling assumptions in terms of Mannings N for the overbank areas. As per TRCA’s standards 0.08 would not require maintenance, using a value of 0.05 would require maintenance impacting the Operation and Maintenance evaluation.	The model assumption used a TRCA standard of 0.08 within the floodplain corridor. Text in the report has been modified to provide this clarification.
9	Table 17, page 130, please check the values in (). I recommend it is clear that where increases occur they are contained within the channel and do not affect adjacent lands. Also please confirm if these increases happen on private property (is there private property within the existing channel corridor?)	Additional context has been added to the report to make it clear how the increases in water level would be contained within the channel and/or how they affect adjacent land owners. As Dundas Street East requires different road raises for each Alternative solutions, the low point elevation and location on Dundas Street East also varies.
10	Section 10 Dundas Area Alternative Solutions Evaluation, page 118/144 the Dundas Area alternatives indicates that piers are a limitation related to aquatic habitat for AS2 and AS3. The bridge appears to be proposed as a 38m span. It’s unclear why piers would be a limitation related to fish habitat when a 38m span bridge would not seem to require them. This appears to have reduced scoring for this alternative when a 38 span bridge would seem to offer better opportunities for aquatic habitat than a 25m span bridge. Please clarify.	A 38 m span bridge in this location would require 2 piers to accommodate the required span and reduce the bridge deck width (lessening the required road raise). It is understood from an aquatic perspective that a clear span bridge (no piers) would provide better aquatic and aquatic/terrestrial interface opportunities than a bridge with 2 piers. This is why there is reduced scoring for the 38 m span bridge when compared to the 25 m single span.
11	Dundas AS1 is scored as 1 (worse than existing conditions) despite what would seem to be some improvement over existing conditions. AS2 is scored as no change despite a proposed 38m	Greater justification and rationale have been provided in the report to support the environmental scoring of the alternatives.

Item No.	TRCA Comments	City of Mississauga and Matrix Solutions Inc. Responses
	bridge resulting in significant improvements to connectivity and AS3 is scored as 1 indicating a worse than existing situation. It's unclear how these scores were determined. Please provide greater justification and rationale for the scoring of these alternatives.	
12	AS1 is identified as the preferred alternative for Dundas for the ecological criteria. It isn't clear how a 25m bridge, which also requires grading within established vegetated areas, would be preferred over either of the 38m span alternatives particularly with improved connectivity and no grading proposed with the AS2 alternative. Please clarify.	Greater justification and rationale have been provided in the report to support the environmental scoring of the alternatives.
13	Table 19a, page 133, Urban Drainage, is a score of 3 intended to balance the upstream and downstream impacts? Should there be an identification of which outfalls are more critical to maintain water levels? Does the City have a preference?	Greater justification and rationale have been provided in the report to support the urban drainage scoring of the alternatives. Reference to the Little Etobicoke Creek Master Plan (Matrix, 2021) which looked at the influence of the Creek water levels on the urban drainage system has been provided.
14	Section 10.4 Dundas Area Selection of Preferred Solution, Page 141, first sentence should read: "The Phase 2 Municipal Class EA evaluation process for the Dundas Area resulted in AS1 being selected as the preferred alternative solution."	Noted, the report has been revised to reflect this comment.
15	Table 34 page 191, how comfortable is the City and Matrix that contaminated soil is not present on site? Managing, treating, or removal of contaminated soil during construction is extremely costly, and you may want to factor contaminated soils into your cost estimate. Or has this been factored into the contingency?	The provided costs account for some potential to encounter contaminated soils. The construction costs (including soils excavation and removal) will be further refined during the next 30% design stage.

Item No.	TRCA Comments	City of Mississauga and Matrix Solutions Inc. Responses
16	Ecological compensation can be expensive particularly if land acquisition is required for off-site compensation. This should be factored into the scoring associated with cost as, and the total project costs as applicable.	A tree inventory will be completed during future phases of the project to determine the number of tree removals required and therefore appropriate compensation (and potential land acquisition needs) in accordance with City/TRCA guidelines. Including a comparison and scoring of compensation strategy for each alternative was beyond the scope of this EA. An estimate of vegetation removal for each alternative and alternative solutions has been included in the report for analysis and scoring comparison.
17	Section 12.5.1.3, page 194/195 please also reference TRCA's Erosion and Sediment Control Guidelines.	Report has been updated to reflect this comment.
18	Section 12.5.3.2, page 198, indicates that the project will result in a positive net impact. Extensive removals of established vegetation are proposed. It may be difficult to replace the function of an established forest through restoration of the same area with immature stock. A significant time lag may result in loss of ecological function over many years. Soils may also be heavily degraded through the construction process significantly limiting the effectiveness of post construction restoration. In addition, formalized trails are proposed which often result in additional ecological impacts through increased use and through the maintenance of a 6m wide corridor where naturalization is not permitted. Please provide additional justification and/or additional mitigation in support of the statement that this project will result in a net positive ecological outcome.	Report has been revised to reflect this comment.
19	Please note that TRCA has no jurisdiction or authority over fish timing windows.	Noted.
20	Page 197, please also refer to the Conservation Authorities Act.	Updated.

Item No.	TRCA Comments	City of Mississauga and Matrix Solutions Inc. Responses
21	The hydraulic modelling report seems to be missing from the appendices. TRCA staff have previously reviewed the report and have worked through comments with Matrix and the City. Given the importance of this document it should be appended to the ESR to fully document the modelling completed to justify the selection of the preferred alternative and hydraulic performance of the ultimate plan for flood control.	All necessary elements of the previous hydraulic modelling report have been brought forward to the main ESR. However, the original hydraulic modelling report has been included as an Appendix for reference. A note on the appendix cover page has been provided to relate the modelled scenarios to the final scenarios as described in the ESR.
22	It appears that breeding bird surveys may have been conducted but it isn't entirely clear. Please clarify and provide the details of the sampling (date, time, location , etc.).	Table 3 in the Natural Heritage Study report summarizes the field surveys that were completed to support the EA. Breeding bird surveys were not conducted.
23	The EIS is primarily an existing conditions report. The impact analysis appears to have been deferred to a later stage when a preferred alternative has been determined. It's unclear how the ecological impacts of the various alternatives were assessed if it wasn't undertaken as part of this EIS. Please provide clarification and documentation related to the impact assessments for each of the alternatives to provide better clarity around the decision-making process.	An EIS was not completed as part of the ESR. The Natural Heritage Study (Appendix D) was used as the baseline for the assessment of each alternative. We have now included sections in the ESR related to each alternative to better identify and describe the assessment, impact and associated scoring for the environmental criteria.

3.2.5 Credit Valley Conservation

The Credit Valley Conservation Authority (CVC) has been aware of the EA project from its inception and has been on the stakeholder list receiving all updates. From time to time, the planning department at CVC has also received email updates from the City.

CVC's regulatory activities with respect to minimizing flood risk in their watershed has continued throughout the EA project. CVC continues to recognize that a significant portion of the flooding risk in the Applewood Creek watershed is currently caused by spills coming from the Little Etobicoke Creek - which is regulated by TRCA. As such, CVC has remained an interested party in seeing the flooding being contained completely within the TRCA-regulated watershed of Little Etobicoke Creek.

3.2.6 Region of Peel

The Region has been a key stakeholder in the project due to the importance of their extensive infrastructure in the study area and the requirement for its consideration and integration into all potential flood mitigation solutions. Key points of discussion included:

- Dixie Road and the bridge over Little Etobicoke Creek (LEC)
- Services within Dixie Road, including large watermains, a trunk sanitary sewer, and various storm sewers and related drainage infrastructure
- An exposed 450 mm sanitary sewer crossing LEC approximately 400 m east (downstream) of the Dixie Road crossing
- Sanitary siphon under LEC at Dundas Street
- New watermain on Dundas Street

The extensive project coordination activities with the Region including a number of meetings, preparation of sketches and reports for review, and requested input towards PIC materials. Region staff from various departments were consulted, including those involved in decision making in transportation, water and wastewater, and planning. A brief summary of project engagement is highlighted in Table 4 below.

Table 4 Region of Peel Meeting Summary

Date	Description
May 8, 2020	Introduction to the project following a feasibility study which assessed Little Etobicoke Creek hydraulics to identify and develop three conceptual flood mitigation solutions.
September 10, 2021	Overview of study expansion and the associated modelling to back this up. Discussion about sewer maintenance access at the CP Rail and other projects within the expanded study area.
December 8, 2021	Discussion downstream 450 mm diameter sewer crossing. Overview provided about evaluation approach and Dixie Road bridge replacement.
May 13, 2022	Discussion about location options and configurations for Dixie Road 900 mm diameter trunk sanitary sewer and downstream 450 mm diameter sewer crossing. Discussion about preferred solution at Dundas Street.
May 24, 2022	Discussion about alternative design concepts at Dixie Road, especially road considerations and impacts.
August 4, 2022	Discussion about potential construction conflicts (other local construction, potential land acquisition), watermain details, and potential modifications to the sanitary siphon design at Dundas Street.
September 13, 2022	Discussion about location options and configurations for Dixie Road 900 mm diameter trunk sanitary sewer and downstream 450 mm diameter sewer crossing.
November 7, 2022	Walk-through of sanitary sewer report addendum including options presented therein and additional hydraulic modelling investigation.
January 24, 2023	Discussion of model scenario results maintaining current creek elevation, walk-through of SUE/Topography Survey RFQ, and review of preliminary preferred EA Alternative Design Concepts at Dixie Road and Dundas Street.
April 27, 2023	Review of PIC #2 and discussion about design, construction schedules, construction limits, tree removals, and Indigenous consultation.
February 9, 2024	Review and discussion of the ESR. Clarification of the provided comments.

In addition to meetings held per above, the Region was provided two stand-alone reports addressing sanitary sewers in the study area and potential actions to facilitate the project. These are outlined as follows:

- “Dixie-Dundas Flood Mitigation Study and Municipal Class Environmental Assessment Sanitary Sewer Discussion – Technical Items for Region of Peel Input and Consideration” dated March 25, 2022.

- “Dixie-Dundas Flood Mitigation Environmental Assessment Project Sanitary Sewer Addendum Report, Regional Municipality of Peel, Dixie Road Infrastructure” dated October 7, 2023.

These reports are contained as appendices in the ESR.

The Draft Environmental Study Report (ESR) was circulated to several reviewing agencies, including the Region of Peel, for review and feedback. The comments provided by the Region of Peel and associated responses are outlined in Table 5 below.

Table 5 Region of Peel Comments – DRAFT Environmental Study Report

Item No.	Responder	Region of Peel Comments	City of Mississauga and Matrix Solutions Inc. Responses
1	Transportation Design & Construction	<p>On drawing # 36, can the extent of the land acquisitions be better delineated? i.e., based on the preferred 50m span, what area is expected to be temporary grading easements, and what area will be fee-simple/acquisitions? Consider hatching the different property requirements.</p>	<p>Noted, this was an oversight on the Figure. Potential land acquisitions are now shown in hatching on Figure 36 in the revised ESR. We have also included an additional Figure in the ESR showing the potential property affected by the preferred design. These areas are based on our current conceptual level of design (10% concept).</p> <p>Potential land impact areas will be refined during the preliminary design stage. Temporary grading easements vs. land acquisitions could potentially be differentiated at this stage once the design has progressed.</p>
2		<p>Consider wording that given the proximity of the hydro poles there will likely be permanent utility easements required (e.g., anchor, aerial). Requirements TBD by third parties during detailed design.</p>	<p>Noted.</p>
3	Transportation Infrastructure Studies	<p>4.2.2.3 Bridge Design Guidance and 4.2.2.4 Project Approach to Considering Climate Change (Page 24 ESR) Why the Region of Peel Stormwater Design Criteria is not referenced here? stormwater-design-criteria-201906.pdf (peelregion.ca)</p>	<p>Section 4.2.2.4 will be added to include a summary of the Region of Peel Stormwater Design Criteria.</p>

Item No.	Responder	Region of Peel Comments	City of Mississauga and Matrix Solutions Inc. Responses
4		5.6 Source Water Protection. Clearance for this would be required from the Region's Risk Management Official in W/WW's Source Protection Planning team.	Discussed with the Region of Peel. Region of Peel to coordinate internally with Region's Risk Management Official to obtain the required clearance.
5		5.8.1 Property Are property impacts identified and any communication with the impacted property owners is carried out?	Potential property impacts have been identified during the EA and communication with the most affected landowners has been carried out. Temporary easements and property acquisitions will be refined and confirmed during preliminary design.
6		Section 5 - There is no mention of AT or trails infrastructure/connections	Noted. Section 5.7.8 has been added to include discussion and reference to active transportation and existing trail connections in the area.
7	Traffic Operations - Traffic Engineering Team Comments	Will the width of the new Dixie Road bridge be able to accommodate active transportation (MUP)?	For basis of comparison and to minimize commitment within this flood mitigation EA, the evaluation assumed that the existing bridge width will not increase from the existing condition. Our structural design team will work with the Region of Peel during the next phase of design to ensure that the Dixie Road bridge meets the Region's design requirements and future vision for the roadway. The design intention is to avoid any additional property acquisitions outside of the areas already identified to widen the channel (and contain the Regional flow). It should be noted that a larger bridge width to potentially support MUP's could require additional property and/or easements.

Item No.	Responder	Region of Peel Comments	City of Mississauga and Matrix Solutions Inc. Responses
8	Peel Public Health - Built Environment Team Comments	The Peel Public Health Built Environment Team is supportive of the preferred design, which will include trail access improvements to the Little Etobicoke Creek corridor with a possible extension through the new Dixie Road bridge. Safe and convenient access to trails can support opportunities for residents to be physically active (through recreational use of the trail or for active transportation) and aligns with Peel Public Health's strategic priority of enabling active living.	Noted.
9	Water and Wastewater Comments	5.6 Source Water Protection, Pg 44 Ensure any w&ww infrastructure alteration/construction is always verified by a Regional Representative, Qualified Inspector must be present.	Noted. Report has been revised to add this clarification.
10		Table 9. Dixie Area Alternative Solutions Servicing and Utility Conflicts. Pg 98 Main encasement/protection will be required to prevent breaks due to soil/creek erosion	Noted. Report has been revised to add this clarification.
11		Table 9. Dixie Area Alternative Solutions Servicing and Utility Conflicts. Pg 98 Currently description for 2400 feeder main says "No impacts anticipated". Peel requires that this WM is protected during constructions to avoid any breaks due to excessive loading. Loading calculations may be required.	Noted. Report has been revised to add this clarification.

Item No.	Responder	Region of Peel Comments	City of Mississauga and Matrix Solutions Inc. Responses
12		<p>Section 12.5.2.2. Disruptions and Pollution. pg. 197 2nd Paragraph Add Hydrant and Hydrant Valves for isolation will be used. Peel will have hydrant permits Requirements. Also take into consideration Bypass requirements, Blow offs, Backflow prevention, Potable water provisions</p>	<p>Noted, these items will be addressed during detailed design.</p>
13		<p>Section 5.6 (pg. 51) What is the RL Clark Water Treatment Plant?</p>	<p>The study area falls within the IPZ 3 for the R L Clark Water Treatment Plant. Report has been revised to add further clarification.</p>
14		<p>pg. 44 What does CoM have to do with providing residents clean drinking water.</p>	<p>Wording has been revised in the report.</p>
15		<p>Section 5.8.4 (pg. 53-bullet 5) We are installing a flow diversion and increasing system redundancy and improving conveyance capacity.</p>	<p>Noted. This detail has been added to the report.</p>
16		<p>Section 6.5.2 Concerned that Land Acquisition has not really be considered in this section or Table 35. We had initial discussions that we might need land to build the new 900mm sewer in an alignment just to the west of the current alignment. 12 – 13m cl of existing to edge of property fabric for ROW according to OPAL. Will need for addition lands or works outside of ROW trigger a delay because it was not in this EA. Will additional cost pose a future issue?</p>	<p>Currently, we do not anticipate needing additional lands outside of the ROW. Some design assumptions have been made for the purposes of evaluating the alternatives in the EA and these assumptions will be confirmed during the 30% design.</p>

Item No.	Responder	Region of Peel Comments	City of Mississauga and Matrix Solutions Inc. Responses
17		C.S. Currently Hanlon 2400mm is 20 - 22m under bridge abutment (either side of creek channel). If Dixie bridge is expanded and will now be a two span will new abutments (assumed 3 with center added) cause any loading issues with regards to 2400mm, or will new bridge abutments only need a shallow support under proposed bottom of creek	All required loading calculations will be completed during detailed design. Considering the depth of the feedermain, we anticipate that the proposed bridge design will not add excessive loading to the feedermain.
18		Section 12.1.1 C.S. Title states 500m up stream of Dixie Rd Bridge and then refers to lowering of channel but only shows cross section of creek 200m and 50m up stream. 2100mm Hanlon crosses the creek 394m up stream of Dixie Rd bridge. DWG 38322-D shows that 2100mm Hanlon already has less than 2m of cover. There is also a drain chamber in vicinity. Do we have conformation of proposed depth and width of improved creek channel at point where it crosses the 2100mm	Channel lowering will not impact the 2100 m feeder main. The minimal cover in the feeder main has been a hard constraint since the onset of the project. The current channel design and the tie-in for the channel lowering occurs downstream of the feedermain. Additional clarity around this constraint has been added to the report.
19	Source Water Protection	Risk Management Office staff reviewed the draft ESR and are satisfied that the project conforms with the policies contained in the Credit Valley-Toronto and Region-Central Lake Ontario (CTC) Source Protection Plan. The proponent discusses source water protection in section 5.6, including a	Noted. A figure has been included to support the source water protection discussion in the revised ESR.

Item No.	Responder	Region of Peel Comments	City of Mississauga and Matrix Solutions Inc. Responses
		<p>commitment to implementing risk mitigation measures, spill and emergency response protocols during construction activities. We recommend including a corresponding figure in the final ESR to support the source water protection discussion.</p>	
20		<p>The report recognizes that the study area is located within the intake protection zone (IPZ-3)/event-based area (EBA) for the Etobicoke Creek pipeline break fuel/oil spill significant drinking water threat, and areas delineated and mapped as a highly vulnerable aquifer (HVA). Staff note that the draft ESR refers to the City of Toronto’s R. L. Clark Water Treatment Plant (WTP). The final ESR should acknowledge that the EBA for pipeline break fuel/oil spill is also shown to impact Peel Region’s Lorne Park and Arthur P. Kennedy WTPs, as documented in the Toronto and Region Assessment Report.</p>	<p>Noted. Report has been revised to add this clarification.</p>
21		<p>Based on a review of the mapping, the proponent should confirm if a portion of the study area also transects the modelled EBA for the Etobicoke Creek sanitary trunk sewer (STS) break. The proponent should refer to the Toronto and Region Assessment Report available on the CTC Source Protection Region website at https://www.ctcswp.ca/</p>	<p>We have reviewed the modelled EBA for the Etobicoke Creek STS break and confirmed that it is locate outside of the Dixie Dundas Project Study area.</p>

3.3 Other Stakeholder Consultation

In addition to comments received during the PICs, comments were received by the project team via email and phone. In some cases, the project team felt that additional meetings were warranted with landowners and others to ensure communication of potential project requirements. Additional meetings are discussed below and a summary of public responses is provided in Table 6.

3.3.1 1607 Dundas Street East (The Brick)

Meetings were held on with representatives of The Brick store and the landowner who leases the property to The Brick. Dates of meeting included:

- February 25, 2022
- March 31, 2022
- May 4, 2022

The key positioning of this property just upstream of the Dundas Street bridge combined with its grading characteristics required additional project consideration. Additionally, the property is not currently located within a flood Special Policy Area of the City, which provided additional reasoning for their engagement into the process.

The property was analyzed, with options considered to ensure project works upstream at Dixie Road would not affect this property adversely. The meetings with the landowner and tenant were intended as enhanced communication, given that the property's key positioning. Meetings included visual descriptions of potential changes to the creek fronting their property, predicted water level changes, and depictions of land requirements that may be required to implement alternative solutions.

Comments from the landowner and tenant were received and were reflected in minutes of meeting. Minutes are not reproduced in this current report due to privacy considerations, but would be available from the City to be provided to future project designers.

Key issues at the site related to the current and future protection from flooding provided by the existing berm located at the top of bank of the creek. The berm will require some modification as part of the project to ensure impacts will be mitigated. The berm would remain being considered a non-permanent measure, which is its current status. The potential methodology for transitioning the site to be permanently protected from flooding at the Regional storm level

was also outlined, with consideration and comment provided by TRCA who were included at the meetings.

3.3.2 2525 Dixie Road and the Muslim Community Centre at 2505 Dixie Road

The project team facilitated a discussion on the Dixie-Dundas Flood Mitigation Project related to 2525 Dixie Road and the Muslim Community Centre at 2505 Dixie Road on August 28, 2020. The project team reviewed the site-specific context relative to the project and had discussions with the landowner. This landowner was added to the stakeholder list and kept apprised of project activities through email outreach (i.e., regular project updates to the stakeholder list).

3.3.3 Other Developers

The City corresponded with several developers (and/or their representatives) throughout the EA project. Development related questions were fielded by City staff and also EA project staff in coordination with others at the City, including updates to project timing and preliminary determination of potential impacts to their properties.

In all cases, individuals and/or their respective companies were added to the stakeholder list and kept apprised of project activities through email outreach (i.e., regular project updates to the stakeholder list).

In some cases, and in particular for the developer of lands located immediately west of Dixie Road and north of LEC, preliminary development plans were received to allow their potential consideration within EA project alternatives.

3.3.4 Residents and Other Stakeholders

In response to a flyer distributed for PIC No. 2, one local resident requested an alternative format to review the PIC materials. The resident was sent a printed package of the PICs with a response form as well as the project contact information for follow up. No further comments from the resident were received.

The City fielded some calls from residents asking general questions about the project. In all cases, the City forwarded email correspondence and any records of telephone conversations to the EA project team.

The project adaptation and approach taken to address residents' concerns were discussed at regular project update meetings, where they helped form the solutions and alternatives contained in the ESR and associated technical documents.

3.3.5 City of Mississauga

Different departments and individuals at the City were involved in the EA project, including those involved in planning, development, parks, real estate, and transportation. Additionally, the City is the lead proponent of the existing BRT project, which is part of the implementation of the City's Dundas Connects Master Plan. Several meetings were held between the EA project team the City's BRT team, including their external consultants, to ensure good project coordination.

In particular, the BRT team and the EA project team discussed options for the Dundas Street bridge and the many associated variables involved in the roadway design at this location. The EA project team incorporated requirements of the BRT project into the preliminary design concepts for the Dundas Street bridge.

Similarly, at Dixie Road, the requirements of the BRT project, including staging and phasing requirements, were incorporated into discussions related to the Dixie Road transportation corridor and also the sanitary sewer issues (previously discussed in this report). Both items are Region of Peel-owned infrastructure, with their detailed consideration required for effective flood mitigation solutions to be advanced. BRT requirements and input helped shape proposed approaches to resolving Region infrastructure-related challenges within the flood EA project.

Throughout the study, the two ward Councillors representing residents and businesses in the study area were provided regular study updates. City project team staff met with them occasionally and responded to their requests for information throughout the study.

Table 6 Public Information Centre Public Comments

Item No.	Responder	Public Comments	City of Mississauga and Matrix Solutions Inc. Responses
Public Information Centre No. 1			
1	Resident	How site is affected by EA and timing for project	A following up meeting was held to walk through the explanation. Slides and PIC material were shared. They had no outstanding questions and they were kept on the stakeholder list.
2	Business Owner	My client, [Business] is seeking to redevelop their property at [address] for a [intended replacement]. The opportunity for site specific interim mitigation measures at the [address] site until the permanent mitigation option has been constructed. The potential flooding is a public safety concern and therefore this option should not be pursued.	Follow up meeting with slides and PIC material were shared. There were no outstanding questions and they were kept on the stakeholder list.
3	Business Owner	N/A	Added to stakeholder list.
4	Consultant	EA details are clear. No preference to alternatives other than do nothing is not an option; something has to be done for the area.	Added to stakeholder list.
5	Landowner	EA details are clear. No preference to alternatives other than do nothing is not an option; something has to be done for the area.	Added to stakeholder list.
Public Information Centre No. 2			
6	Resident	Based on the presentation, do you feel there is anything further you would like to share? Yes. East of Dixie Creek turns 90 degree which cause flow blockage. Why not put curved relief pipes through industrial area up to Dundas bridge.	Alternative methods of conveying flow were explored and covered by AECOM in previous study. Matrix checked the calculations and conveying flow through pipes is not feasible due to the size required. The existing infrastructure also makes this solution impractical.
7	Resident	Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (Making Room for the Creek) for the Dixie Area?	Noted.
		I support the preferred alternative solution. Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (25 m Span Bridge) for the Dundas Area? When will the City of Mississauga implement the preferred alternative solution?	The projected implementation period is 2025-2035 (see slide 8 of PIC No. 2). It is important to note that this timeframe is an estimate currently and will be refined as we progress through future study work.
		Do you have any comments or concerns about the alternative design concepts and evaluation for the Dixie Area? Not addressing this issue results in a continued risk for public health and safety.	Agreed.

Item No.	Responder	Public Comments	City of Mississauga and Matrix Solutions Inc. Responses
8	Resident	<p>We are opposed to this project on the basis that it is essentially an overreaction to a minor problem. I back on to the creek and have experienced no harm or damage to my property as has been the experience of my neighbours. The creek flooding has been limited to the creek area. The amount of money time and resources you plan to divert to this project are phenomenal and out of proportion to the scale of the problem. This enterprise is priority level -10.</p> <p>The biggest beneficiaries of this project will be the two billionaire developers and their new developments on Dundas St. adjacent to the creek. You are asking the citizens of this city to subsidize say some \$30,000,000 to these billionaires who will then increase the population of the area by 2-3,000 people and make existing residents lives unbearably congested and unlivable compared to our current conditions. This is a definite NO for anyone who understands the ulterior agenda and intent of this fool hearty and unnecessary enterprise.</p> <p>If the developers need this project to get their developments built, which at least one of them does, then let them pay for it out of their own deep pockets. Each resident taxpayer with already rounded shoulders from the onerous burden of existing taxes is to be further clipped to pay for an unnecessary \$30,000,000 project they don't want or need so that those developers can benefit? Does that sound fair to you? It certainly doesn't sound fair to me. My name is not Santa Claus and Santa Claus couldn't afford to live here anyway with these lavish and grandiose schemes.</p>	<p>Large flooding events are increasing in frequency. The July 8, 2013, storm demonstrated overtopping of the creek on the south side had significant impacts which resulted in flooding of a very large area from Little Etobicoke Creek down to the Queen Elizabeth Way and beyond to Lake Ontario. Mass flooding for downstream properties amounting to over 1,000 homes and businesses were impacted, resulting in millions of dollars in direct damages. The primary purpose of this study is to protect and ensure the safety of all properties in this area.</p> <p>The City's Dundas Connects Master Plan was a separate but related project which expressed a vision of growth for the Dixie-Dundas area and proposed higher-order transit along the Dundas Street corridor. This vision of growth cannot be fully implemented without first addressing the flooding in the study area. For more information on the Dundas Connects Master Plan, please visit the City's project webpage at https://www.mississauga.ca/projects-and-strategies/city-projects/dundas-connects/.</p> <p>Stormwater projects by the City are funded in part by the City's stormwater charge and also development charges.</p> <p>The stormwater charge is a dedicated source of funding to keep the City's stormwater system in good working order and to set aside sufficient funds to finance necessary upgrades and repairs in the future. Development charges are paid for by developers and the contribution rate for stormwater projects are generally based on remaining developable land in a watershed. More details are available in the City's Development Charges Background Study on the City's webpage. The City will also be exploring government funding grant opportunities.</p>
9	Resident	<p>Do you have any questions about the Schedule 'C' Municipal Class EA process?</p> <p>How much does the impacted residents feedback weigh in the final decision of cancellation of project?</p> <p>Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (Making Room for the Creek) for the Dixie Area? I do have concern for those changes. I have lived in this area for many years and do not see the flooding issue severity should cause this costly project and take the creek away from the residents who has been lived and enjoyed it for many years, some are more than 20 years. If there is flood issue you want to address, you can enhance existing creek bank with far less cost instead of reroute the creek.</p> <p>Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (25 m Span Bridge) for the Dundas Area? It does not need this change.</p>	<p>Public input is vital in the EA process. The evaluation criteria of the different options weigh technical, economic, environmental, and social positives and negatives, and public acceptance is integrated into the social category. An overall average of responses (acceptance or unacceptance) contributes to this scoring. The "Do Nothing" option presented in the EA represents the project not continuing and no works taking place.</p> <p>Options to minimize the creek reconstruction were explored in the feasibility stage and Phase 2 of the EA project (please see PIC 1 details). To effectively release the hydraulic pinchpoint (i.e., where flows from the creek are constrained) and mitigate flooding from the creek, it was found that moving toward a wider, more naturalized creek would work best for resiliency and minimal impact. It is important to note that the general alignment of the creek will remain unchanged with proposed changes instead to the width and depth of the creek. The recommended solution will actually result in a more accessible creek with gradually sloped banks and enhanced trail paths. Please see comment #7 and the PIC slides for further detail on the importance of addressing the widespread flooding issue during large rain events.</p> <p>Our hydraulic analysis shows that containing flows within the creek along Dixie will create a hydraulic pinchpoint (see comment above) at Dundas (see project bulletin or PIC No. 2). Widening is required to convey flows effectively.</p>

Item No.	Responder	Public Comments	City of Mississauga and Matrix Solutions Inc. Responses
		<p>Do you have any comments or concerns about the alternative design concepts and evaluation for the Dixie Area?</p> <p>I do have concern of the solution. The green belt/creek extend to north and residents including kids hike and bike along the trail via the path under the bridge. Without the bridge, we have to pass through Bloor street from ground level. That introduces high safety risk. We do not want our life to be impacted.</p>	<p>The current project does not extend to or impact the Bloor Street crossing.</p> <p>The preliminary design accounts for different trail/accessible path options, including a new potential trail underpass beneath the Dixie Road bridge.</p>
		<p>Do you have any comments or concerns about the alternative design concepts and evaluation for the Dundas Area?</p> <p>It does not need this change.</p>	<p>See comment above.</p>
10	Resident	Satisfied with the proposed flood mitigation solution and no further questions.	N/A
11	Resident	Satisfied with the proposed flood mitigation solution and no further questions.	Added to stakeholder list.
12	Developer	<p>Do you have any questions about the Schedule 'C' Municipal Class EA process?</p> <p>Yes – the current Schedule shows the ESR to be completed this summer. Recently Council approved an additional scope of work for the City’s consultant – will this delay the completion timeline for the ESR?</p>	<p>The latest completion timeline for the ESR is now projected for Fall 2023.</p> <p>It is important to note that this timeframe is an estimate currently and will be refined as we progress through the review process.</p>
		<p>Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (Making Room for the Creek) for the Dixie Area?</p> <p>Yes – if the City cannot reasonably purchase the lands for the “making room for the creek” solution – will it expropriate? Also – what is the sequencing plan for implementation – will Dixie or Dundas works go first? If one set of works reduces/eliminates spill waters of an affected property would the City allow the development to proceed in advance of all works being in place?</p>	<p>Assessing specific land needs to support the recommended solution will continue through the upcoming design work. For any required lands that are identified, the preference would be to reach an amicable agreement between all parties and avoid expropriation.</p> <p>Work at Dundas Street will need to occur first to accommodate the increased flood flows from upstream, once the Dixie Road area is improved. It will also align well with other construction projects the City and the Region are planning concurrently.</p> <p>At this time, the City is not considering a phased approach to lifting the Special Policy Area designation. Removal of the SPA is expected to occur once the full flood mitigation solution has been constructed.</p>
		<p>Based on the presentation, do you feel there is anything further you would like to share?</p> <p>Yes – given that large expanses of lands (roads and private property) are affected by spill waters from the Little Etobicoke Creek, and given that the implementation timeline exceeds 10 years, would the City and TRCA be open to Interim Flood Management works on private lands slated for development subject to satisfying MNR depth, velocity and depth*velocity criteria? If so, we suggest that the City consider integrating this perspective into its Class EA implementation section, as a form of guidance to future development proponents and City staff and TRCA staff. This is important given that one of the principal objectives of the Project is to “enable future growth and development”.</p>	<p>The City is not currently considering interim flood management works on private lands. Any development of properties in the study area is premature until the full flood mitigation solution has been constructed.</p>
13	Developer	<p>(Included Response Memo) Following our review of the MOP draft policies (including OPA 114, the “Bundles” released as part of the MOP review and the approved Dundas Connects work) as well as the information released through the PIC, we believe that at this time, our client is able to proceed with filing an Official Plan Amendment and Zoning By-law Amendment application with a reasonable level of confidence. Based on our understanding of process, we also believe that staff will be able to process the application concurrently with the other ongoing studies.</p>	<p>Thank you for your email and we acknowledge receipt. [The City has] passed this information and your memo along to [the City’s] Planning & Building staff for their review as they would be the most appropriate staff to review your request.</p>

Item No.	Responder	Public Comments	City of Mississauga and Matrix Solutions Inc. Responses
		<p>Firstly, we wish to point out that the Special Site 1 – Dixie Employment Area map of the Mississauga Official Plan identifies that the subject site, in its entirety, is located within the Special Policy Area which is captured entirely by the floodplain. However, the TRCA’s online Floodplain Map Viewer presents a different floodplain limit, which is significantly reduced to the eastern limit of the subject site (small in size). Furthermore, the TRCA’s online Floodplain Map Viewer indicates that the floodline presented online is an Engineered Flood Plain, and as such this floodline is considered to be more accurate and correct than the floodline presented in the Special Site 1 – Dixie Employment Area mapping. From our understanding, the flood plain conditions on the subject site do not present the same substantial flood risk that other properties within the Dixie-Dundas Flood Mitigation Project “Study Area” do. We find this prudent information considering the function of the Special Policy Area and the purpose of the ongoing EA.</p> <p>We have taken the time to review the PIC materials associated with the EA process with our client and with our consulting Engineer. Per our review, it appears that none of the proposed solutions would impact the subject property nor require any involvement from our client as the landowner. In this regard, it is our opinion that we can continue to formulate a development concept plan with the understanding that no lands or otherwise are required from our client in order to achieve the City’s objectives.</p> <p>We recognize the current policies in the Mississauga Official Plan generally stipulate that the construction of any buildings or structures will not be permitted within the Special Policy Area without the approval of the appropriate authority and the requirements surrounding flood mitigation, amongst other policies. We anticipate that once the mitigation strategies have sufficiently advanced, the entire Dixie/Dundas Special Policy Area will be lifted and the land use policies found in documents such as Dundas Connects and the City’s MTSA work, will be integrated into the MOP (likely through a City-initiated house keeping amendment).</p> <p>While we can appreciate that there is a clear process for development applications once the SPA is lifted, we do not feel that our client needs to wait to file and process an application now that staff have brought forward preferred solutions that do not impact the subject site. In support of this claim, our consulting Engineer have prepared a memo which concludes that this development can proceed without reliance on the final mitigation solutions and the mitigation solutions do not rely on the site. Unlike some sites which are directly impacted (may have to give up land or otherwise), our client is in a unique position wherein the subject site is not impacted by the preferred options/mitigation features. For these reasons, we are of the opinion that the City can process a forthcoming planning/development application.</p>	

Item No.	Responder	Public Comments	City of Mississauga and Matrix Solutions Inc. Responses
		<p>We have major concerns with the timing of the lifting of the SPA. Our client, while patient enough to await confirmation of the preferred solution (to provide the City and TRCA comfort), is not in a position to wait until 2035 (per the PIC materials) to start construction (this assumes approvals are granted for the Planning Applications). We are respectfully requesting that once our client formally submits a Pre-Consultation Application with the City, that the TRCA and Province, with the support of the your technical team, be circulated on our application so that the relevant approval authority can take action to modify the SPA boundary to remove the site in its entirety from the SPA, or that the subject site is granted an exemption from the restrictive policies of the SPA (while it remains in place). We ask that the TRCA and/or the technical team/advisors tasked with the Dixie/Dundas Flood Mitigation Project confirm the inaccuracies of the TRCA hazard mapping on the subject site and further that your technical team agrees that the development of the subject site does not hinder nor preclude the advancement or installation of the proposed mitigation strategies as part of the Dixie-Dundas Floodplain. We make this request with the support of our consulting Engineers. We recognize that an amendment to the SPA may be an entirely separate process from the Planning Application filed with the City and are prepared to enter into discussions with the relevant approval authorities in order to understand the process and the technical requirements (if there are more beyond our formal submission via the Planning Application). We make this request based on the technical evidence we have provided alongside this letter and following the release of the mitigation solutions/alternatives presented through the PIC.</p>	
14	Developer	<p><i>(Included Response Memo)</i> Based on the foregoing contents presented in this memo, we conclude that the preferred design solution for the Dixie-Dundas Flood Mitigation Project (Schedule C Municipal Class Environmental Assessment), as presented within the Public Information Centre #2 Spring 2023 materials, it not reliant upon the subject site. Moreover, it is our opinion that the subject site could be developed to meet the applicable TRCA policies and criteria at this current time. As such, we respectfully request the agencies to allow [Developer] to advance formal development applications on this subject site prior to the Dixie-Dundas Flood Mitigation Project (Schedule C Municipal Class Environmental Assessment) being completed and mitigation solutions installed, consistent with the requests of the memo prepared by [Planner].</p>	<p>Thank you for your email and we acknowledge receipt. This information has been provided to the City's Planning & Building staff for their review as they are the most appropriate staff to review your request.</p>
15	Resident	<p>Not satisfied with the proposed flood mitigation solution and no further questions.</p>	<p>Added to stakeholder list.</p>
16	Resident and Business Owner	<p>Please include me on the mailing list for future information about the Dixie-Dundas Flood Mitigation Project.</p> <p>I am very unclear as to why the area was expanded to include the industrial area off of Jarrow. Ave (Sedlescomb Dr.)</p> <p>My residential home backs onto the creek at [address]. The last time the area had a problem with flooding was approximately 5 -10 years ago when Queen Frederica was</p>	<p>The primary purpose of this study is to protect over 1,000 residences and businesses that are currently at risk of flooding in the immediate and surrounding communities during significant storm events such as the July 8, 2013, event. The majority of flooding is a result of spill from Little Etobicoke Creek at Queen Frederica Drive which exits the creek and impacts a very large area from Little Etobicoke Creek down to the Queen Elizabeth Way and beyond to Lake Ontario.</p> <p>The City's Dundas Connects Master plan was a separate but related project which expressed a vision of growth for the Dixie-Dundas area and proposed higher-order transit along the Dundas Street corridor. This vision of growth cannot be fully implemented without first addressing the</p>

Item No.	Responder	Public Comments	City of Mississauga and Matrix Solutions Inc. Responses
		<p>flooded out. Why the city allowed housing to be built in a floodplain to begin with is baffling.</p> <p>My husband has had a shop for over 25 years at [address]. His unit sides on the creek on both sides in the corner. His land is very high and in 25 years has never had a problem with flooding, and the same can be said for neighbouring industrial and residential properties. So, tell me why are you doing this study and wasting tax payers money, to benefit these private builders that want to capitalize on our green spaces, and reroute natural water ways in order to put money into their own pockets.</p> <p>Since we found out about the development they are trying to build at the corner of Jarrow and Dundas. 3 condo buildings with one 65 stories high. Our traffic on Dundas is already a nightmare. Our infrastructure can not support more residents. It is becoming all very clear now that they city has elected to put the greed of themselves and builders, ahead of the quality of life of residents.</p> <p>We are quite disappointed in our councillor in ward 3 who has no regard for the tax payers who voted her in. She accommodates the private builders at the expense of the tax payers, and when she is asked to explain her rationale, she says “you should email Doug Ford”.</p> <p>When I last checked, an elected official for the area is the person who should address local matters. The inability to take accountability for matters within her own jurisdiction is a joke.</p> <p>I have lived here in Mississauga for over 30 years, to say the least, this city has become a disappointment. Overgrown, overpopulated, with no regard for the increasing traffic, or our aging Infrastructure. Everything has become about tax dollars. It is very sad, that in my retirement years I considered leaving this city, to move to a much nicer location that cares about people, wetlands, green spaces, and the quality of life etc.</p> <p>Also just to mention my husband and I were on the zoom call with the builders that want to build at Jarrow and Dundas. What an embarrassment. Sounds like a done deal. How dare you not speak to any of the businesses that pay taxes there, that are directly impacted by this development. How do you expect them to run their day to day business, with only 1 access to get into their units. It is a shame what has happened to Mississauga.</p> <p>Instead, I am going to start canvassing the neighbourhood to to raise awareness about the incompetence of our current councillor to not only answer direct questions, but to also throw accountability out the window by blaming government at other levels.</p>	<p>flooding in the study area. For more information on the Dundas Connects Master Plan please visit the City's project webpage at https://www.mississauga.ca/projects-and-strategies/city-projects/dundas-connects/.</p> <p>As part of the preliminary preferred flood mitigation solution, an existing sanitary sewer across the creek and along Jarrow Avenue must be lowered to allow the creek to be widened and deepened to provide capacity for the creek flows and alleviate flooding.</p> <p>It is worth noting that stormwater projects by the City are not funded by the tax base and instead are funded in part by the stormwater charge which is a dedicated source of funding to keep the City's stormwater system in good working order and to set aside sufficient funds to finance necessary upgrades and repairs in the future.</p> <p>Our online Public Information Centre #2 materials are available on the City's project webpage at www.mississauga.ca/flooding and provide more details about the project and the preliminary preferred flood mitigation solution.</p>
17	Resident	<p>We received the Dixie-Dundas flooding mitigation information and had a chance to watch the video. Based on the maps included it seems that work will be taking place directly behind our property and between us and our next door neighbour.</p>	<p>Phone call summary:</p> <ul style="list-style-type: none"> The residents recalled the July 8, 2013, storm event and expressed their general support for a flood mitigation solution

Item No.	Responder	Public Comments	City of Mississauga and Matrix Solutions Inc. Responses
		<p>We would like the opportunity to obtain more information regarding the potential impact to our property, [address].</p> <p>Please let us know if you would be available to meet (virtually would work). We have questions in mind but would prefer to discuss first to get a better understanding of the work that will take place directly around our property.</p>	<ul style="list-style-type: none"> Estimated construction timing was provided and discussed An overview was provided of the current conceptual design plan from the PIC and preliminary design timing was discussed Clarification was provided that impacts are not expected in the existing easement beside their property and that the existing storm outfall on City lands in the creek corridor behind their property would have to be adjusted Confirmed that there are no proposed works anticipated within their property Trees/vegetation would be removed on City lands within the channel corridor in order to provide the required capacity for the creek and eliminate flooding Grading from the top of bank down to the low-flow channel will be determined during design but will likely be a gradual slope in that specific area Confirmed that trees/vegetation would be replanted within the valley and new plantings would avoid blocking the creek Replanting efforts will be an opportunity to remove any existing invasive species, plant native vegetation, and improve aquatic habitat The trail network behind their property will also be improved and new pedestrian bridges installed to accommodate the new channel corridor
18	Region of Peel	<p>If there are any impacts to Regional roads or within the right-of-way, please advise Traffic Staff beforehand</p> <p>Ensure Book 7 is adhered to during construction.</p>	<p>The Region has been involved in the planning process and will be notified prior to any works.</p> <p>Noted.</p>
19	Resident Association	<p>What has the expense for this study been to date (since 2012 to now)?</p> <p>Are there additional anticipated costs for this study? If yes, how much?</p> <p>When would the construction for this project begin?</p> <p>What is the projected/budgeted cost of this project for its completion?</p> <p>The timing for the construction to completion for this project is from 2023-2035 is this correct?</p> <p>Why hasn't an in-person community meeting been held by the city to address this project in addition to the information that is available online?</p>	<p>The City retained an engineering consultant in 2019 to begin the feasibility and Environmental Assessment (EA) study for this project. The consulting assignment to support this project is expected to total \$1.5M up to the study's completion. The scope and magnitude of the study is quite considerable and involves EA, hydraulic creek modelling and preliminary design work to support the preliminary preferred solution that includes replacement of two bridges, relocating several underground infrastructure and creek earthworks.</p> <p>We do not anticipate any additional study costs at this time.</p> <p>Currently, we are anticipating construction to generally occur starting 2025 until 2035 with work beginning first at the downstream limits of the study (south of Dundas Street) and working toward the upstream limits (north of Dixie Road). It is important to note that this timeframe is an estimate currently and will be refined as we progress through future study work.</p> <p>The anticipated cost of construction will be a substantive amount over several years but it is still being determined and will be better understood as [the City progresses] through the preliminary design work.</p> <p>Please see [the City's] earlier response above.</p> <p>Public Information Centres (PICs) can take several different formats. For this study, the two PICs held have been in the form of detailed video presentations that are available to view by residents at their convenience on the City's webpage. We found the general response from the public for this format quite favourable. Should there be any questions or comments, residents are</p>

Item No.	Responder	Public Comments	City of Mississauga and Matrix Solutions Inc. Responses
		<p>What streets in Mississauga's Ward 3 area would be affected directly or indirectly by this project/construction?</p> <p>Can you please provide what the projected or approximate cost for this overall project is/would be? We would like to have an idea of what the cost of such a project is.</p> <p>Also, what city funding source(s) would be used to cover such an expense? Would any funding be provided from the province and/or the federal government for this project? Would the developers who will be given permits to construct upcoming developments along the Dundas/Dixie area pay for any part of this Dixie-Dundas Mitigation Project?</p>	<p>encouraged to provide those either through the online comment forms or by contacting [the City project manager] or the consultant project manager at any time.</p> <p>The majority of the proposed work are expected to include earthworks within the existing creek/valley corridor from south of Dundas Street to north of Dixie Road. Other proposed works are expected to include the replacement of both the Dixie Road and Dundas Street bridges along with underground infrastructure works including along Jarrow Avenue.</p> <p>We are still in the EA stage of the project but, aside from the abovenoted streets, we do not expect other streets would be directly impacted by future construction. Streets or properties backing onto the creek through the project limits, as noted above, may be indirectly affected from the adjacent creek works. For reference, slides 45 and 46 of PIC #2 show the approximate extent of work limits.</p> <p>During our PIC #1 held in 2020, we had provided a high-level cost estimate of approximately \$22M for Option 2. Since that time, the study has progressed and expanded to include the Dundas Street area and additional infrastructure replacements have been identified which will evidently result in a higher cost than the 2020 estimate. Per [the City's] earlier email, the overall cost of the project is still being determined and will be better understood as we progress through the preliminary design work. It is expected that an updated cost estimate will be included in the 2024 Budget preparation.</p> <p>The specific funding sources will be better identified as the project approaches construction. Stormwater projects by the City are not funded by the tax base and instead are funded in part by the City's stormwater charge and also development charges.</p> <p>The stormwater charge is a dedicated source of funding to keep the City's stormwater system in good working order and to set aside sufficient funds to finance necessary upgrades and repairs in the future. Development charges are paid for by developers and the contribution rate for stormwater projects are generally based on remaining developable land in a watershed. More details are available in the City's Development Charges Background Study on the City's webpage.</p> <p>We will also be exploring funding grant opportunities at the Provincial and Federal government levels.</p>
20	Resident	When is construction?	<p>Construction period to tentatively occur between 2025 and 2035.</p> <p>It is important to note that this timeframe is an estimate currently and will be refined as we progress through future study work.</p>
		Where are the study boundaries?	Clarified the study boundaries relative to the resident's home. The floodplain improvements would occur behind the resident's backyard.
		Concerned about the air pollution and its increase with a higher density.	<p>The vision for growth and increased density in the Dixie-Dundas area, including proposed higher-order transit along the Dundas Street corridor, was established through the City's Dundas Connects Master plan. For more information please visit the City's project webpage at https://www.mississauga.ca/projects-and-strategies/city-projects/dundas-connects/.</p>

Item No.	Responder	Public Comments	City of Mississauga and Matrix Solutions Inc. Responses
		Concerned about the loss of trees.	Indicated that the intention is to plant native vegetation in the floodplain improvement area at higher replacement ratios in accordance with City and other agency guidelines.
		Concerned about theft with the proposed trail in the backyard.	The proposed trail system will be designed with safety and crime prevention in mind. Typical measures may include improvements through path lighting, signage, sightlines, routing outside more frequent flood events, and more.
		Indicated that they did not understand the flood maps provided. Did not see a concern with flooding.	Explained about the 2013 flood and the potential for increased frequency of flooding in the future.
21	MNRF	<p>Thank you for circulating the Notice of Public Information Centre for the Dixie-Dundas Flood Mitigation – Schedule ‘C’ Municipal Class Environmental Assessment to the Ministry of Natural Resources and Forestry (MNRF). MNRF has previously provided comments to the project team in a letter dated September 27, 2021 in which guidance contained in the province’s Technical Guide – River & Stream Systems: Flooding Hazard Limit (2002), as well as Technical Guide - Understanding Natural Hazards (2001) was shared.</p> <p>The Dundas Area – Preliminary Preferred Design Concept indicates the raising of an existing berm to protect 1607 Dundas Street East property from flooding under Regional storm event conditions. Given the ministry’s approach to flooding focusses on prevention and the use of non-structural measures, berms are not considered to provide permanent flood protection based on existing MNRF technical guidance. It is acknowledged that this land is located beyond the boundaries of the Dixie-Dundas and Applewood SPAs.</p>	<p>We acknowledge that berms are not considered to provide permanent flood protection. We concur that the land remaining behind the berm will continue to be considered floodplain. We have been engaged with the Toronto and Region Conservation Authority as well as the landowner of 1607 Dundas Street East property throughout this project and have made this constraint clear.</p>

4 Completion of Consultation

Matrix has documented relevant consultation activities for the *Dixie-Dundas Flood Mitigation Municipal Class EA Study* in order to satisfy the requirements stipulated for a Schedule C EA project. Discussions held with and feedback obtained from the many parties throughout the project has been incorporated to shape project direction and the overall results outlined in the ESR documentation.

5 References

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Appendix A
Project Notices



CITY OF MISSISSAUGA

NOTICE OF STUDY COMMENCEMENT AND ONLINE PUBLIC ENGAGEMENT

Dixie-Dundas Flood Mitigation Project

WHAT?

- The lands south of Little Etobicoke Creek surrounding Dixie Road, referred to as “Dixie-Dundas” for this project, are subject to flooding as a result of spilling from the creek during high flow conditions. This urban area consists of a variety of commercial, industrial, residential, and park land uses.
- The Dixie-Dundas Flood Mitigation Feasibility Study and subsequent Schedule ‘C’ Municipal Class Environmental Assessment (EA) process seeks solutions to mitigate flooding risks from Little Etobicoke Creek at the project area.

WHY?

- The City of Mississauga has an interest to protect flood-vulnerable residences and businesses as well as to intensify Dixie-Dundas to fulfill the vision of growth expressed in the Dundas Connects Master Plan.

HOW?

- The Feasibility Study defined the problem and opportunity and identified alternative conceptual solutions.
- In consultation with the public and agencies, the EA will evaluate the alternative solutions to identify a preferred alternative that will then be advanced to preliminary design.
- The preferred solution will mitigate the risks of flooding, to the extent possible, to people, property, and infrastructure.
- At the end of the EA, a report documenting the process will be available for public review.

GET INVOLVED!

- Consultation is an essential part of the EA process. We want to ensure that anyone with an interest in the study has the opportunity to provide input as the study proceeds.
- As part of the project, online public engagement has been arranged to allow local residents and interested members of the public an opportunity to review project information and provide input. Project information will be made available to the public at the website below and will be open for comments until September 4, 2020.

<http://www.mississauga.ca/flooding>

If you have any questions or comments regarding the project or wish to be placed on the project mailing list, please contact:

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Project Manager

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Andrew Doherty, P.Eng.

Consultant Project Manager

Matrix Solutions Inc.

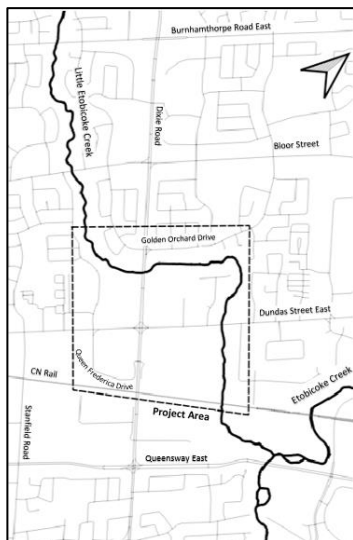
3001-6865 Century Avenue

Mississauga, ON L5N 7K2

(226) 314-1924

adoherty@matrix-solutions.com

WHERE?



COVID-19 Community Engagement Update: While we continue to respond to this pandemic, we are working hard to deliver essential services and projects to keep our City moving and safe. While we can't connect in-person at this time, we still want to connect! Opportunities to connect with the Study Team and share your input are noted above.

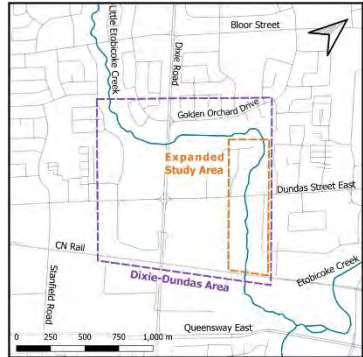
This notice signals the commencement of the Dixie-Dundas Flood Mitigation Schedule C Municipal Class Environmental following the Feasibility Study that defined the problem and opportunity and identified alternative solutions. The Environmental Assessment will identify a preferred alternative, in consultation with the public and agencies, and advance the preferred alternative to preliminary design. The project is being undertaken through the Municipal Class Environmental Assessment Master Planning process, as outlined in the “Municipal Class Environmental Assessment” document (October 2000, amended in 2011), which is approved under the Ontario *Environmental Assessment Act*. Personal information is collected under the authority of the Environmental Assessment Act and will be used in the assessment process. With exception of personal information, all comments shall become part of the public records. Questions about this collection should be directed to the Project Manager listed above.

This notice was first issued on August 6, 2020.

CITY OF MISSISSAUGA
NOTICE OF EXPANDED STUDY AREA
Dixie-Dundas Flood Mitigation Project

WHAT?

- The lands south of Little Etobicoke Creek surrounding Dixie Road, referred to as “Dixie-Dundas” for this project, are subject to flooding as a result of spilling from the creek during high flow conditions. This urban area consists of a variety of commercial, industrial, residential, and park land uses.
- The study area of the Schedule ‘C’ Municipal Class Environmental Assessment (EA) has been expanded downstream to the Canadian Pacific (CP) railway crossing. This expanded study area includes the Dundas Street East crossing.
- Recent hydraulic modelling indicated that expansion of the study area to include the Dundas Street East crossing and downstream areas is required to seek flood mitigation solutions for the Dixie-Dundas area.

WHERE?**WHY?**

- The City of Mississauga has an interest to protect flood-vulnerable residences and businesses as well as to intensify Dixie-Dundas to fulfill the vision of growth expressed in the Dundas Connects Master Plan.

HOW?

- Alternative conceptual solutions for the expanded study area are currently being developed. The alternative solutions for the initial study area are presented on the project website below.
- In consultation with the public and agencies, the EA will evaluate these alternative solutions to identify preferred alternatives for both the initial and expanded study area. The preferred alternatives will then be advanced to preliminary design.
- The preferred solution will mitigate the risks of flooding, to the extent possible, to people, property, and infrastructure.
- At the end of the EA, a report documenting the process will be available for public review.

GET INVOLVED!

- Consultation is an essential part of the EA process. We want to ensure that anyone with an interest in the study has the opportunity to provide input as the study proceeds.
- Online public engagement is a part of the project to allow local residents and interested members of the public an opportunity to review project information and provide input for the study area.
- As the study progresses, a project bulletin presenting the alternative solutions for the expanded study area will be made available through the project website. Notification will be provided when this project bulletin is available for review and input.

<http://www.mississauga.ca/flooding>

If you have any questions or comments regarding the project or wish to be placed on the project mailing list, please contact:

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CITY OF MISSISSAUGA
NOTICE OF PUBLIC INFORMATION CENTRE NO. 2
Dixie-Dundas Flood Mitigation Project

WHAT?

- The lands south of Little Etobicoke Creek surrounding Dixie Road, referred to as “Dixie-Dundas” for this project, are subject to flooding as a result of spilling from the creek during high flow conditions. This urban area consists of a variety of commercial, industrial, residential, and park land uses.
- The study area of this Schedule ‘C’ Municipal Class Environmental Assessment (EA) has been broken up into the “Dixie Area” and the “Dundas Area” for identifying flood mitigation solutions. An expansion of the study area was required to include the Dundas Street East crossing areas to seek flood mitigation solutions for the Dixie-Dundas area.

WHY?

- The City of Mississauga has an interest to protect flood-vulnerable residences and businesses as well as to intensify Dixie-Dundas area to fulfill the vision of growth expressed in the Dundas Connects Master Plan.

HOW?

- In consultation with the public and agencies, the alternative solutions for both the “Dixie Area” and the “Dundas Area” have been evaluated to identify preferred alternatives for each.
- The preferred solutions are aimed to mitigate the risks of flooding, to the extent possible, to people, property, and infrastructure. At the end of the EA, a report documenting the process will be available for public review.

GET INVOLVED!

- Consultation is an essential part of the EA process. We want to ensure that anyone with an interest in the project has the opportunity to provide input at this stage.
- Public engagement is an important part of the project allowing local residents and interested members of the public the opportunity to review project information and provide input.
- A narrated presentation and downloadable information package discussing the project and flood mitigation solutions will be available online at the website below from **May 16 to June 23, 2023**. Please provide us with your comments by **June 23, 2023** using the comment form available online. Previous information, including PIC No. 1 and the study area expansion bulletin, is available on the same webpage.

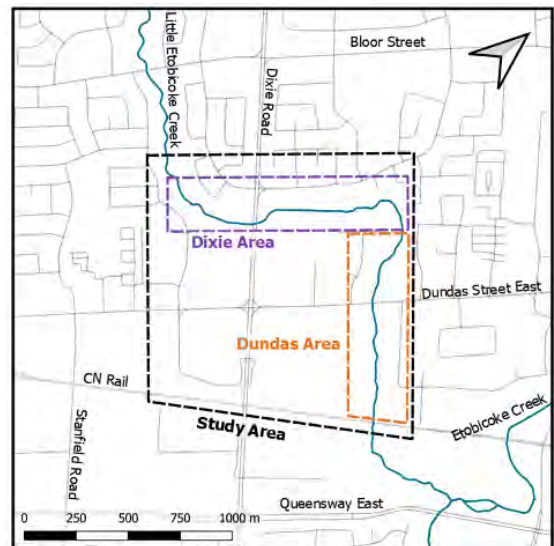
<http://www.mississauga.ca/flooding>

If you have any questions or comments regarding the project or wish to be placed on the project mailing list, please contact:

Anthony Di Giandomenico, P.Eng.
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Consultant Project Manager
 Matrix Solutions Inc.
 3001-6865 Century Avenue
 Mississauga, ON L5N 7K2
 (289) 323-3780
amckay@matrix-solutions.com

WHERE?



This project is being undertaken in accordance with the Municipal Class EA process (MEA, 2000 as amended in 2007, 2011, and 2015). Results will be documented in an EA, which will be submitted to the Ministry of Environment, Conservation and Parks for review. At that time, the public, Indigenous communities, and other interested persons will be informed when and where the EA can be reviewed. For details on this process, please refer to the Municipal Class Environmental Assessment website or contact the City Project Manager.

This notice of Public Information Centre No. 2 was first issued on May 16, 2023.

Appendix B
Public Information Centre Materials

Welcome to the online Public Information Centre No. 1

Dixie-Dundas Flood Mitigation Project

Schedule C Municipal Class Environmental Assessment

<http://www.mississauga.ca/flooding>

PRIME STRATEGY & PLANNING
innovative planning for sustainable communities

arva



Contact Information

DRAFT

If you would like to be included on the project mailing list and/or provide input, please complete the project comment form available at

<http://www.mississauga.ca/flooding>

and submit by email to

anthony.digiandomenico@mississauga.ca

or

adoherty@matrix-solutions.com

Input from Public Information Centre No. 1 will be received until

September 4, 2020

Thank you for participating!

Contact information:

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Consultant Project Manager

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EA Public Information Centre (PIC) Overview **DRAFT**

PIC No. 1

1. Project Overview
2. Existing Conditions
3. Problem and Opportunity
4. Hydraulic Screening
5. Conceptual Alternative Solutions
6. Preliminary Impact Assessment
7. Next Steps

The purpose of this PIC No. 1 is to:

- Introduce the public to the project
- Present conceptual alternative solutions for input
- Provide opportunity for interested parties to offer input on the evaluation criteria and identify any concerns or local information that will support the Municipal Class Environmental Assessment (EA) process

PIC No. 2, which will be announced later in the project, will:

- Present results of a detailed evaluation of alternative solutions, including incorporating public input, to select a preferred solution
- Present the alternative designs of the preferred solution for input
- Provide opportunity for interested parties to identify any concerns or local information that will support the EA process

- Consultation is an essential part of the Municipal Environmental Assessment process. We want to ensure that anyone with an interest in the study has the opportunity to provide input as the study proceeds.
- We are engaging the following stakeholders to provide the opportunity to express concerns and preferences:
 - Residents and businesses
 - Regulators
 - Indigenous community
- Engagement will provide an opportunity to collaborate on the project and identify concerns or additional studies that may be required. Cambium Indigenous Professional Services will facilitate discussions with the Indigenous community regarding traditional lands and knowledge.



Little Etobicoke Creek (Matrix 2020)

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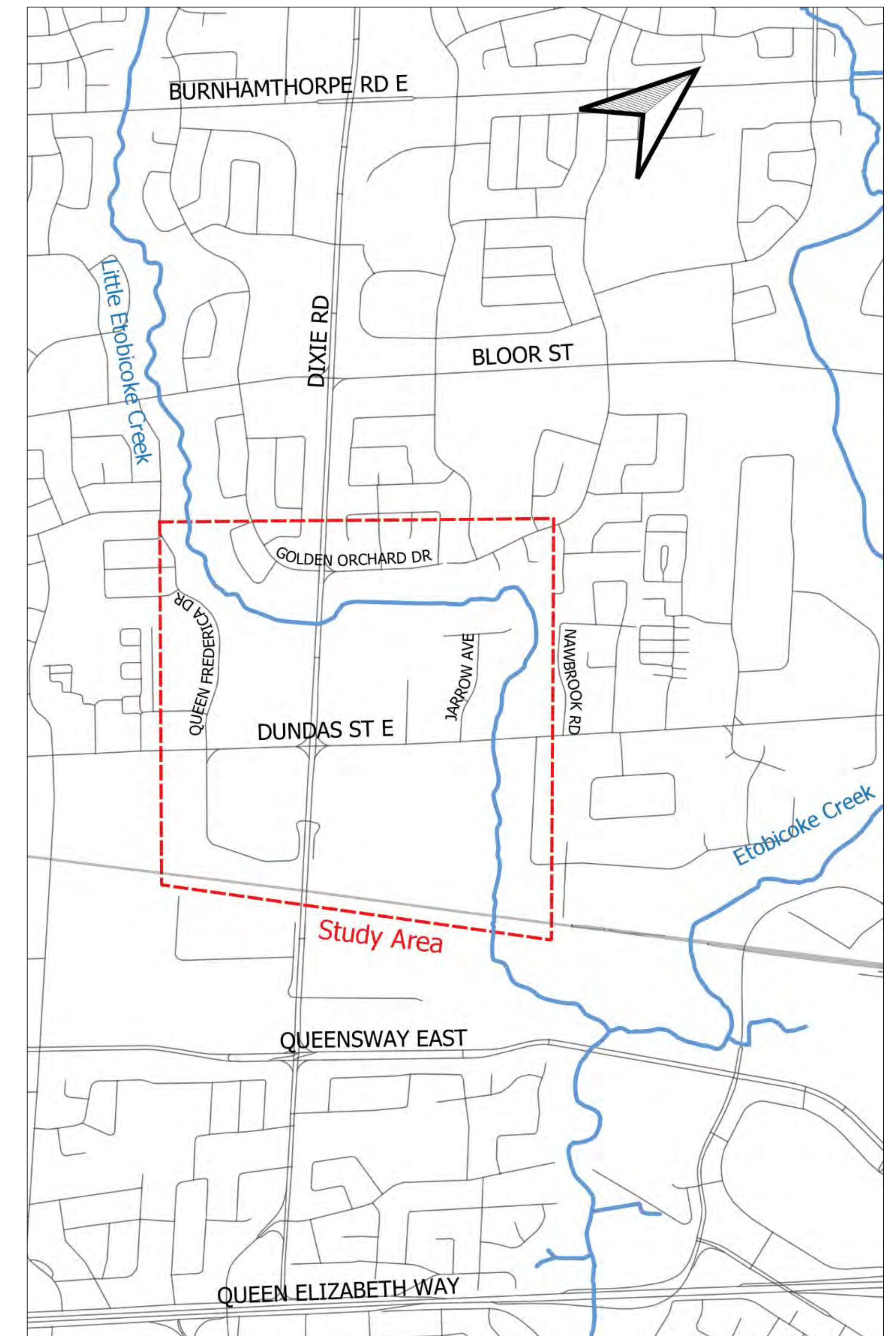
Project Overview

Project Overview

DRAFT

The *Dixie-Dundas Flood Mitigation Feasibility Study* and Municipal Class EA process seeks solutions to address flooding from Little Etobicoke Creek to protect existing residences and businesses as well as to enable future growth.

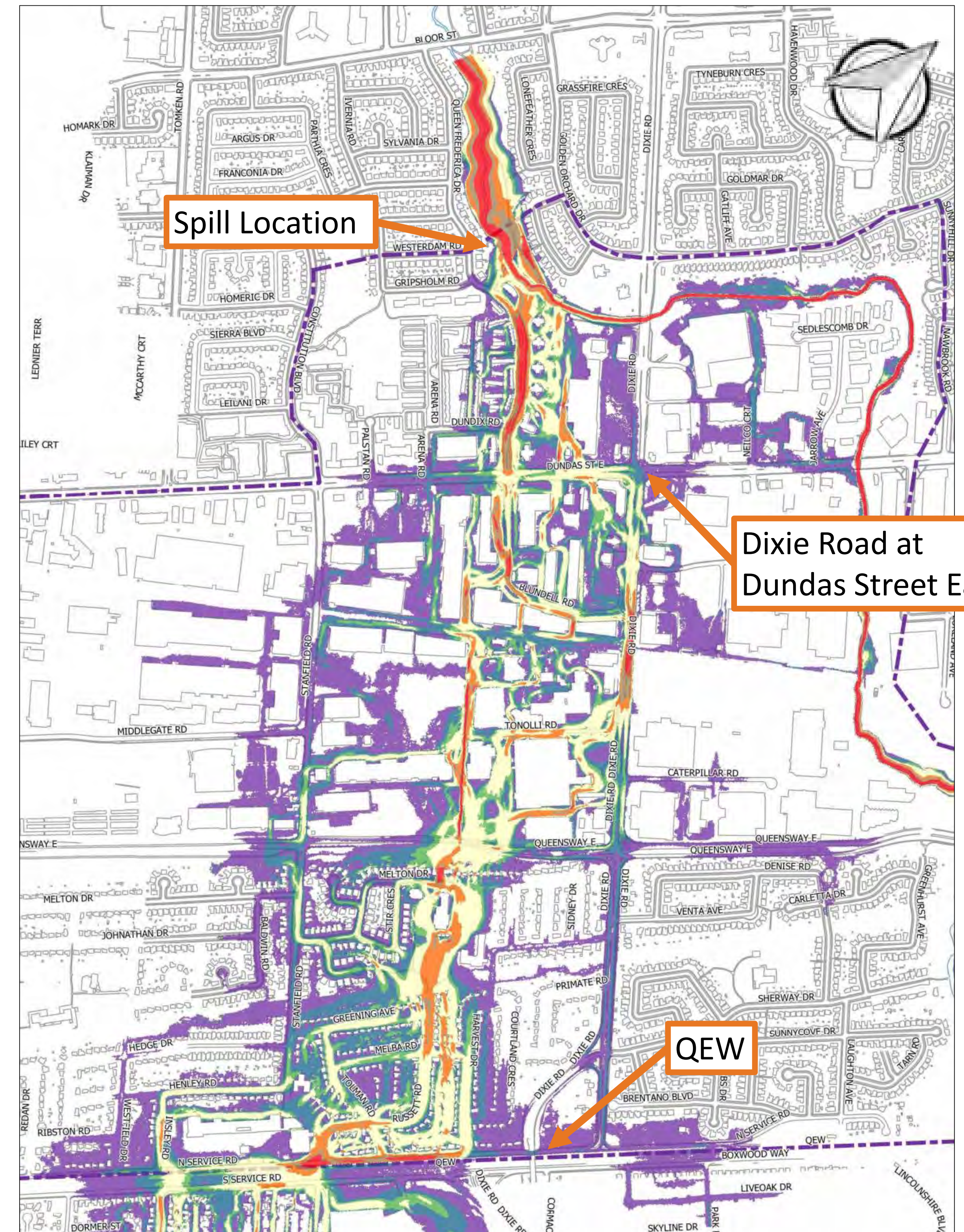
- Over 1,000 residential, commercial, and industrial properties between the Little Etobicoke Creek study area and the Queen Elizabeth Way are at risk of flooding
- The City of Mississauga has an interest to intensify Dixie-Dundas to fulfill the vision of growth expressed in the *Dundas Connects Master Plan* (City of Mississauga 2018)



Extent of Flooding

DRAFT

- As part of Phase 1 of the *Little Etobicoke Creek Flood Evaluation Study and Master Plan* (in progress), the following extent of flooding was determined through detailed flood mapping of the Regional event
- The detailed mapping more clearly indicates where over 1,000 residential, commercial, and industrial properties have been determined to be at flood risk
- The *Little Etobicoke Creek Flood Evaluation Study and Master Plan* only mapped as far as the QEW. Flooding is anticipated to continue beyond the QEW to Lake Ontario.



Dundas Connects Master Plan

DRAFT

- The City of Mississauga's *Dundas Connects Master Plan* is a separate but related project which expresses a vision of growth centered around the Dixie GO Station and proposed higher-order transit along Dundas Street
- This vision of growth cannot be fully implemented without first addressing the flooding in the study area
- For more information visit <https://www.dundasconnects.ca>

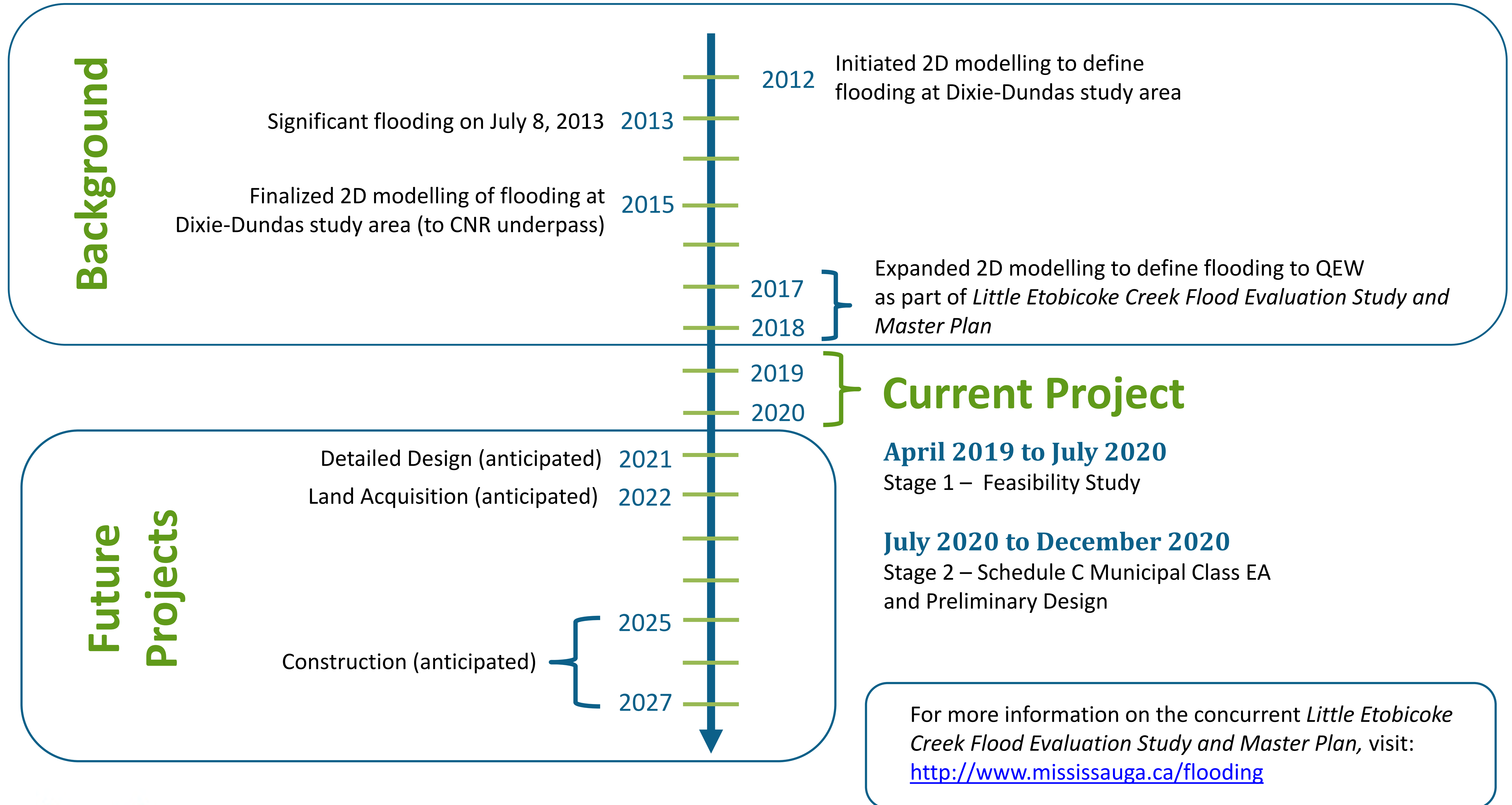


Image: [The Dundas Connects 3D Mass Model](#) (Davkra, 2018)



Project Timeline

DRAFT



Background Review

- Review of previous flood and creek studies near study area
- Review City of Mississauga, Region of Peel, and TRCA data in study area

Technical Studies

Four technical studies were completed to identify constraints and opportunities for developing flood mitigation solutions. These studies include:

- Geomorphology assessment
- Natural heritage study
- Geotechnical study
- Stage 1 archaeology assessment

Hydraulic Screening

Hydraulic screening was completed to assess potential mitigation approaches including:

- Conveyance improvements
- Flood containment
- Flow diversions
- Storage
- Policy measures

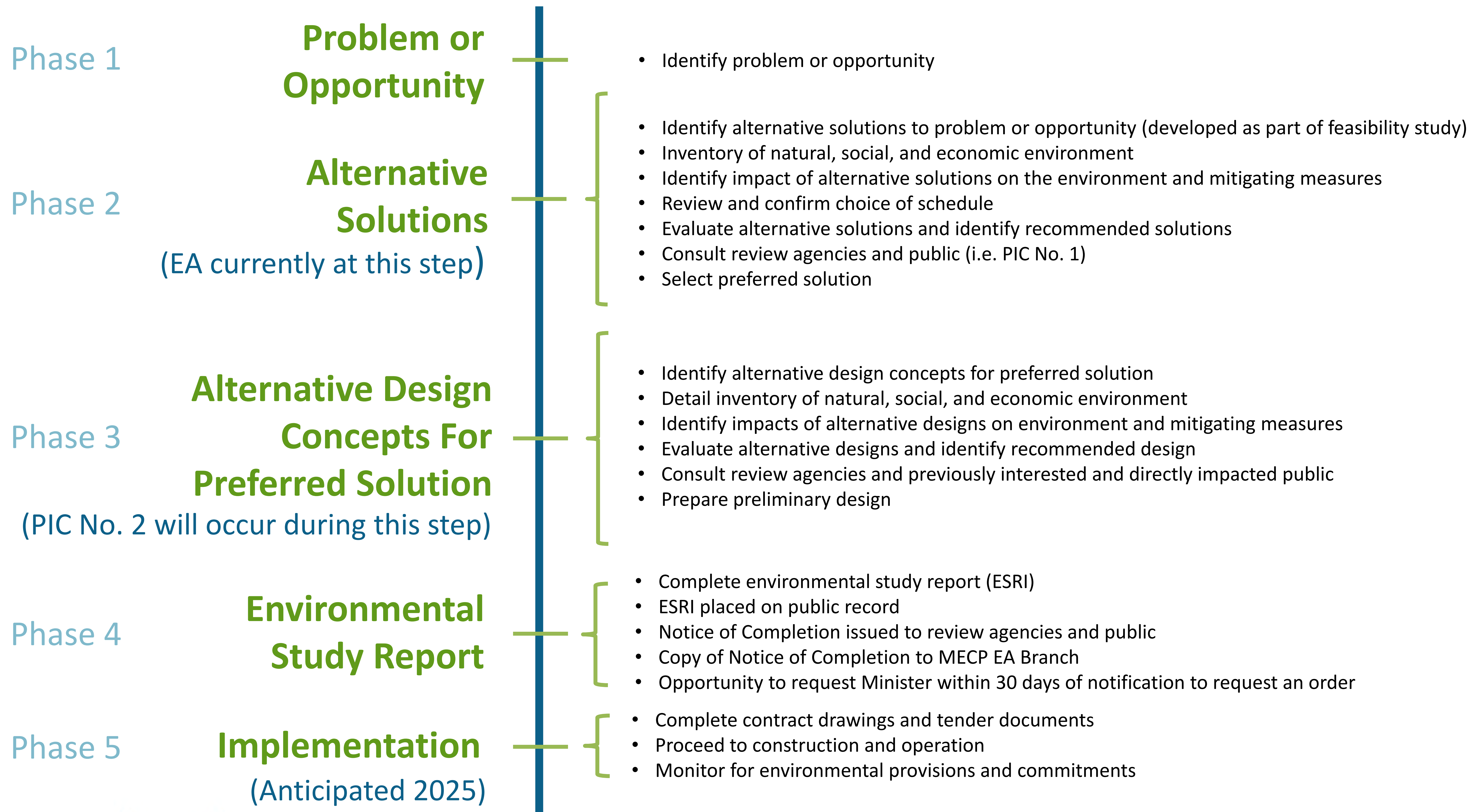
Conceptual Alternative Solutions

Based on the results of the technical studies and screening of high-level solutions, three alternative solutions were developed to conceptual design:

- **Option 1:** Improved Conveyance with Minimized Footprint
- **Option 2:** Improved Conveyance by Making Room for the Creek
- **Option 3:** Flood Containment with Mitigation for Upstream Impacts

Stage 2 EA (Current)

Municipal Class Environmental Assessment **DRAFT**



DRAFT

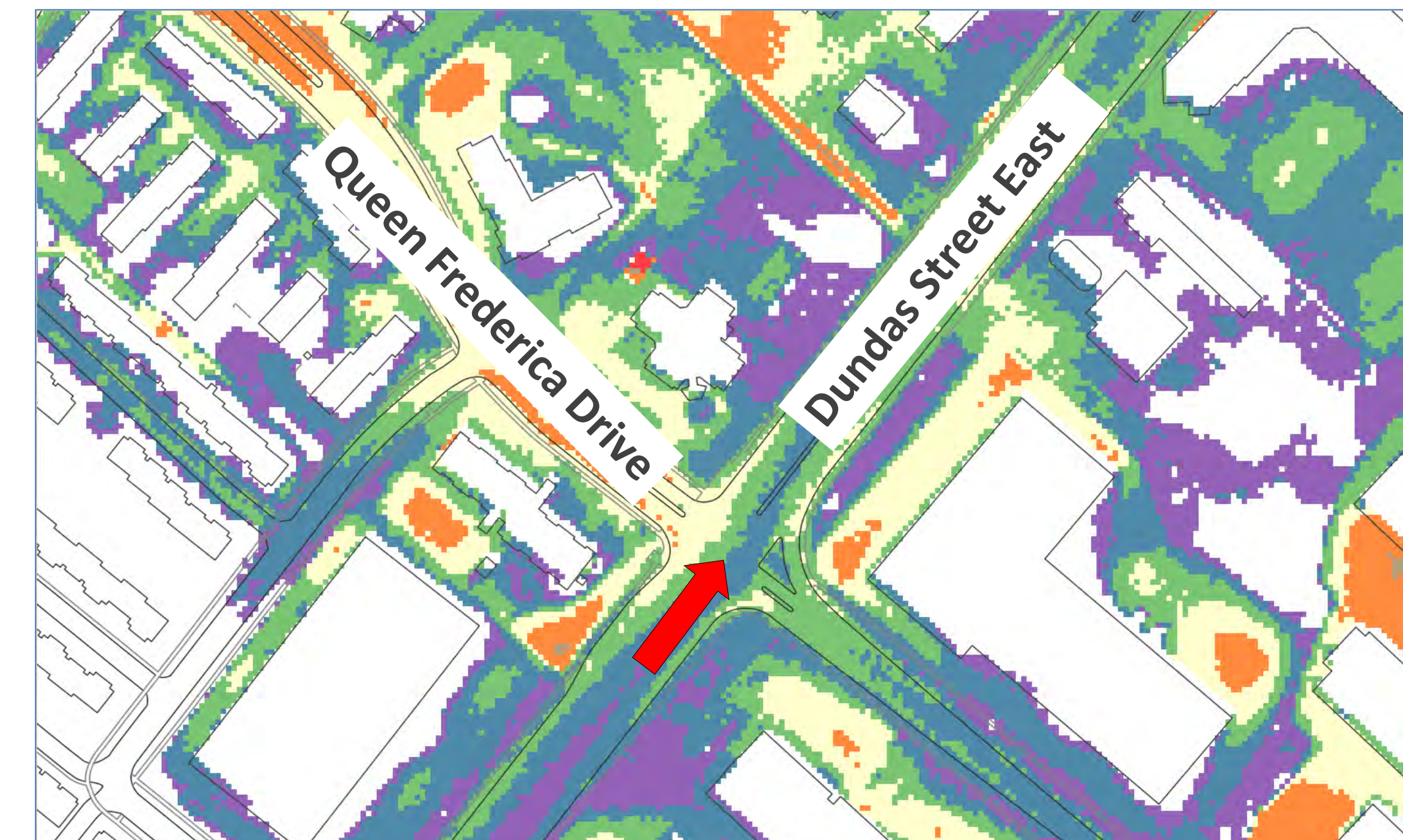
Existing Conditions

Dundas Street East – July 8, 2013 DRAFT

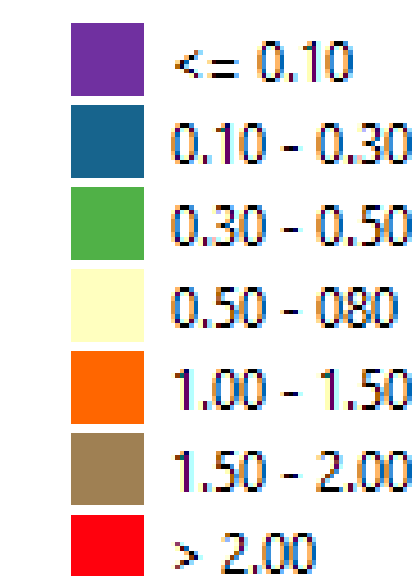


- The estimated Little Etobicoke Creek peak flow on July 8, 2013 was 130 m³/s in the study area
- For comparison, the Regional event has a significantly higher estimated peak flow of 200 m³/s
- The project will seek a solution that addresses the larger Regional event

Video Source: <https://www.youtube.com/watch?v=vHedGvWa5Q>



Max Depth (m)



Camera location and
general direction



CNR Underpass – July 8, 2013

DRAFT



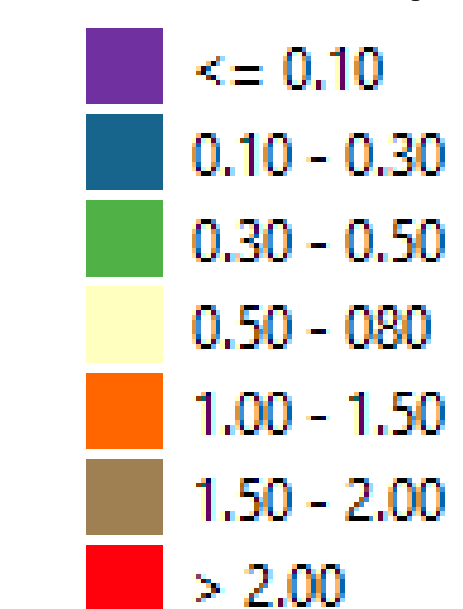
- Estimated water depth exceeded 2 m at the CNR underpass at Dixie Road
- The risk of flooding in this area is expected to be reduced or eliminated by implementing flood mitigation solutions



Video Source: <https://www.youtube.com/watch?v=Bf8xB31pLeU>



Max Depth (m)

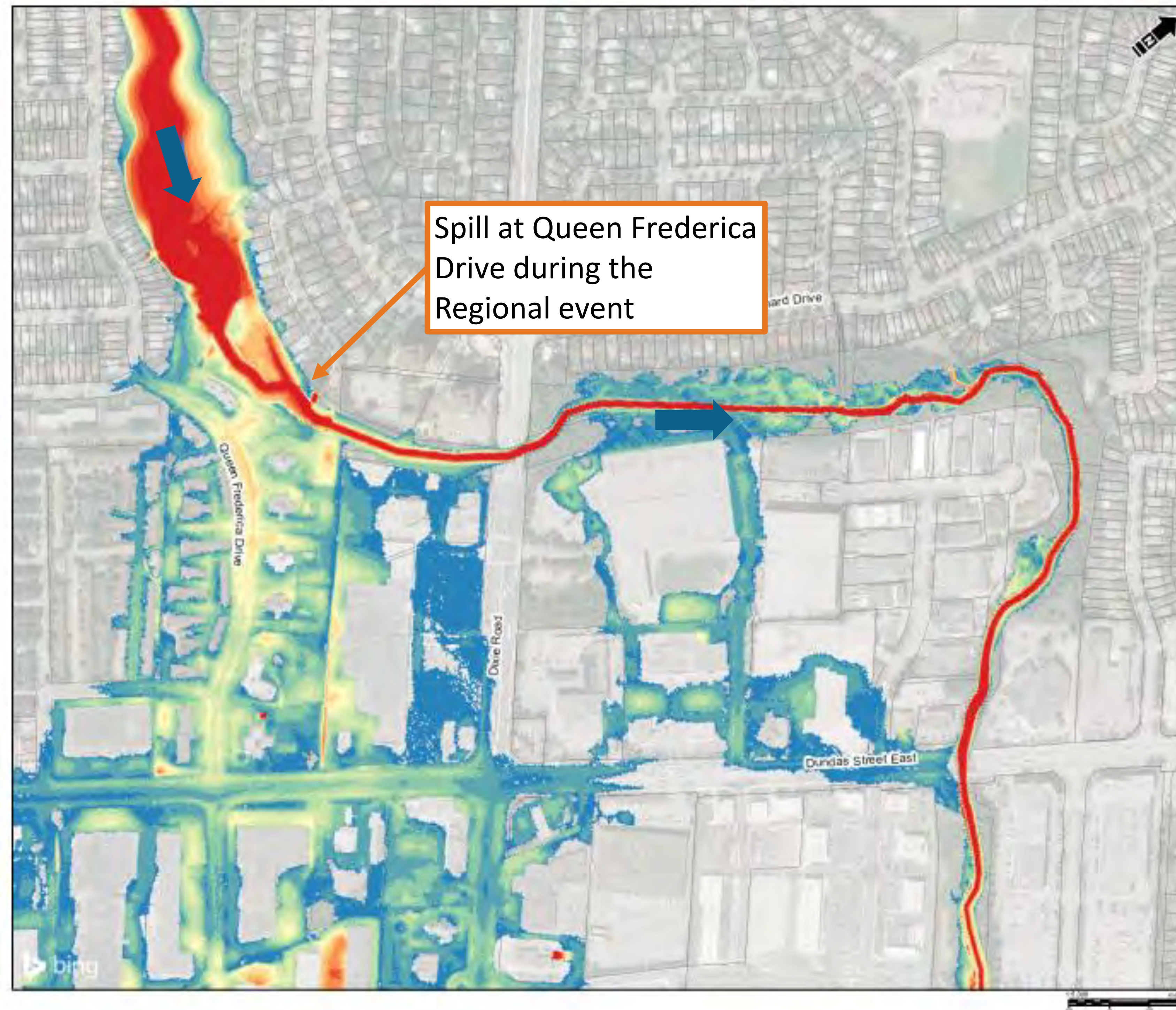


Camera location and
general direction
0:00 to 0:30 →



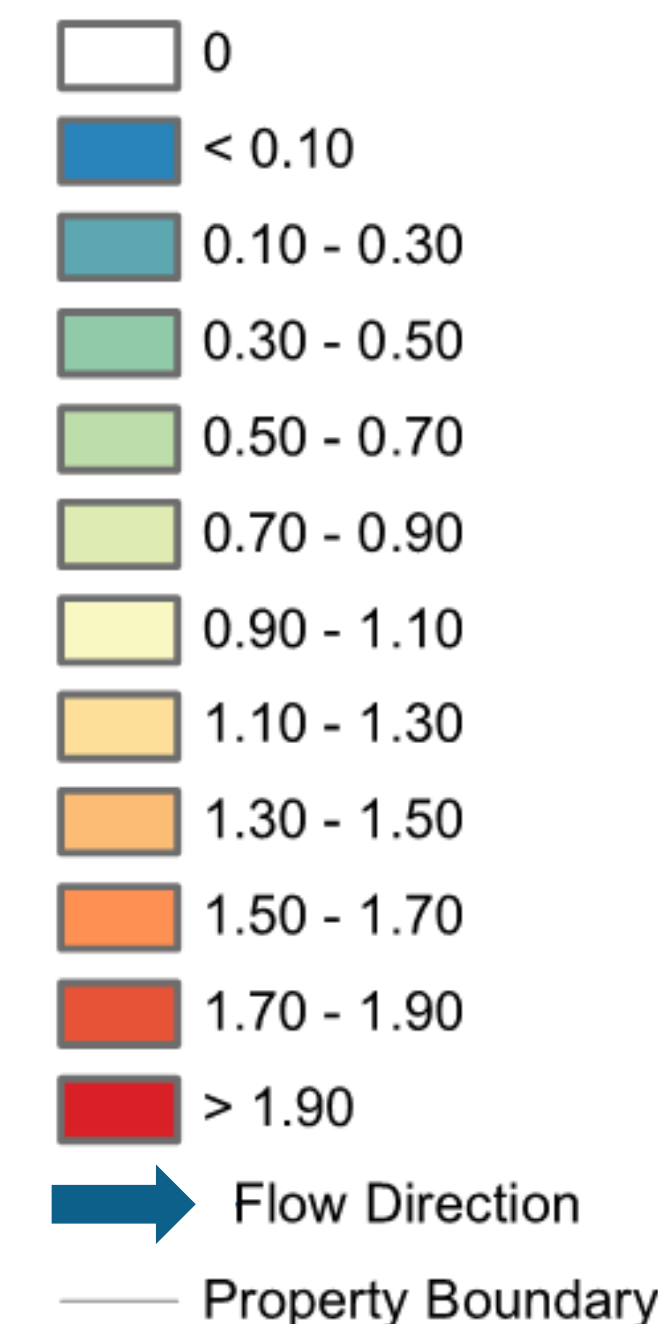
Existing Conditions

DRAFT



- Approximately 130 m³/s of the total 200 m³/s Regional event flow spills at Queen Frederica Drive and exits the Little Etobicoke Creek valley corridor
- The Regional event, which is derived from Hurricane Hazel (1954), is recognized as the regulatory flood in the study area
- The area that floods during the Regional event (i.e. the regulatory floodplain) expands over a wide urbanized area

Existing Conditions Regional Flood Depths (m)



Little Etobicoke Creek

DRAFT



Upstream of Dixie Road



Downstream of Dixie Road

Types of Flooding

DRAFT

	Riverine	Urban
Major System (Overland Flow)	<p>Flooding is a natural feature of river systems.</p> <ul style="list-style-type: none"> • High water levels from creeks and rivers • Standing and flowing water in floodplains 	<p>Occurs when the roadways and other surface flow paths cannot contain major flows.</p> <ul style="list-style-type: none"> • Large, less frequent storm events • Flooding onto private property from the public right of ways • Ponding in low areas (e.g. road sags and underpasses) • Basement flooding via windows or doors
Minor System (Storm Sewers)	<p>Occurs when culverts or ditches cannot convey flows from a certain storm event.</p> <ul style="list-style-type: none"> • Flow spilling from ditches 	<p>Occurs when the storm sewer system does not have capacity to convey a certain storm event.</p> <ul style="list-style-type: none"> • Smaller, more frequent storm events • Basement flooding via floor drains • Flow coming out of catch basins (perhaps at reverse sloped driveways)

The focus of the Dixie-Dundas Flood Mitigation is to solve the **Major System Riverine Flooding** by keeping flows within the Little Etobicoke Creek valley corridor. Note that urban flooding can also occur independently within private property due to poor lot grading or blockages (downspouts, private ditches, or catch basin inlets).

Minor system and urban flooding are being assessed in the concurrent *Little Etobicoke Creek Flood Evaluation Study and Master Plan*. More information will be available at this link upon study completion: <http://www.mississauga.ca/flooding>.

Agency Roles and Responsibilities **DRAFT**

There are multiple government agencies working together to regulate flood risk and maintain drainage infrastructure within the City of Mississauga. The roles and responsibilities of each are summarized below. These agencies have come together in order to complete project.

City of Mississauga	Region of Peel	Conservation Authority (TRCA*)
<ul style="list-style-type: none">▪ Road drainage▪ Storm sewers▪ Parks▪ Greenbelt▪ Trails▪ City trees▪ Creek erosion and flow management	<ul style="list-style-type: none">▪ Regional roads▪ Sanitary sewers▪ Watermains	<ul style="list-style-type: none">▪ Floodplain mapping and management policies▪ Flood forecasting and warning▪ Flood messaging▪ Flood hazard management

* Note: Infrequent floods currently spill to Credit Valley Conservation (CVC) jurisdiction

Problem Statement

The lands south of Little Etobicoke Creek surrounding Dixie Road, referred to as “Dixie-Dundas” for this project, are subject to flooding from as little as a 5-year storm event. This urban area consists of park and trail, commercial, industrial, and residential land uses and includes designated Special Policy Areas (SPAs) which regulate future development due to flood risks. The City of Mississauga has an interest to protect flood-vulnerable residences and businesses as well as to intensify Dixie-Dundas to fulfill the vision of growth expressed in the *Dundas Connects Master Plan*. This vision of growth centres around the Dixie GO Station and proposed higher-order transit along Dundas Street and it cannot be fully implemented without first addressing the flooding and updating the SPA policies as part of a concurrent initiative by the City Planning Strategies Division.

Opportunity Statement

The Dixie-Dundas Flood Mitigation Feasibility Study and subsequent Municipal Class Environmental Assessment (EA) process seeks solutions to address flooding from Little Etobicoke Creek to protect existing residences and businesses as well as to enable future growth. Any acceptable flood protection solution will, to the extent possible, lower or maintain delineated flood lines, and minimize impacts to landownership, land use conditions, and existing and proposed infrastructure. Floodplain mapping would be updated to reflect a flood mitigation solution, in addition to the concurrent SPA initiatives by the City, to provide greater certainty for future development and provide confidence that existing assets are protected to the extent possible.

Summary Statement

Residences and businesses near the major transit station area at Dixie-Dundas are currently highly vulnerable to flooding from Little Etobicoke Creek. *The Dixie-Dundas Flood Mitigation Feasibility Study* and Class EA will assess solutions to provide flood protection to residences and business as well as to enable future growth.

DRAFT

Screening of Potential Mitigation Options

Screening of Potential Mitigation Options **DRAFT**

Conveyance Improvements

Screening Scenarios

- Increase Channel Conveyance – widen the Creek
- Channel Lowering – deepen the Creek
- Bridge Replacement – replace the Dixie Road Bridge with a larger structure that spans the width of any channel improvements

Screening Outcome

- Combining channel conveyance improvements with replacement of the Dixie Road Bridge is technically feasible

Flood Containment

Screening Scenarios

- Berm/Dyke – raised bank/long wall or embankment
- Flood Protection Landform (FPL) – a wide, berm-like structure on the south side of the Creek
- Floodwall – high walls designed to contain flooding

Screening Outcome

- Floodwall and berm/dykes are not considered permanent solutions under Provincial Policy and therefore would not meet project objectives of enabling growth at Dixie-Dundas
- FPL is technically feasible and the use of an FPL has been accepted as a permanent solution on the Don River in the City of Toronto

Screening of Potential Mitigation Options **DRAFT**

Flow Diversion

Screening Scenarios

- Upstream Flow Diversion – buried pipes upstream of study area to divert flows from Little Etobicoke Creek to Etobicoke Creek
- Local Flow Diversion – flow diversion conduit along Queen Frederica Drive and Dundas Street East

Screening Outcome

- Upstream flow diversion anticipated to be impractical due to cost, utility conflicts, and ecological considerations
- Local flow diversion is not considered feasible on its own due to significant land and pipe requirements

Flow Storage

Screening Scenarios

- Regional Flood Control – install large storage facility upstream to contain floods
- Online Storage – reduce capacity of upstream bridges to reduce flows at Dixie-Dundas

Screening Outcome

- Regional flood control is not considered feasible on its own due to significant storage volume requirements
- Online storage would not be acceptable in Ontario

Screening of Potential Mitigation Options **DRAFT**

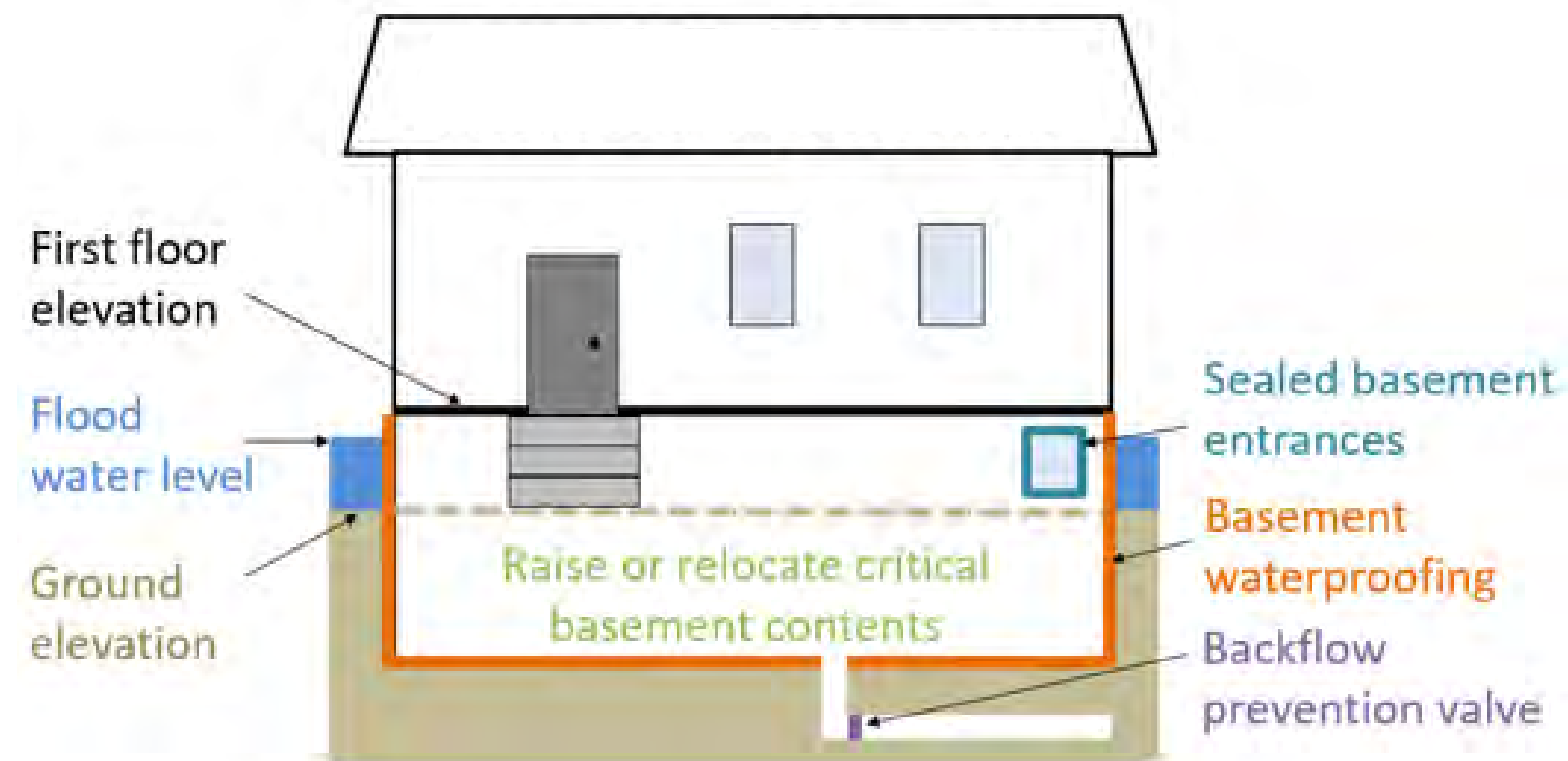
Policy Measures

Screening Scenarios

- Floodproofing – includes structural alterations to buildings to reduce flood damages
- Land Acquisition – reducing flood risks through expropriation or property purchases

Screening Outcome

- Policy measures are not considered practical on their own as over 1,000 residential, commercial, and industrial properties between the spill location and the QEW are at risk of flooding
- Policy measures would not meet project objectives of enabling growth at Dixie-Dundas area



Floodproofing (Matrix 2019)

DRAFT

Conceptual Alternative Solutions

Technical Studies

Geotechnical Study (Thurber 2019)

Assessment of existing conditions including:

- Slope stability
- Pavement conditions
- Preliminary recommendations for bridge foundation
- Recommended geotechnical drilling for design



Dixie Road Bridge (Thurber 2019)

Fluvial Geomorphology Study (Matrix 2020)

Characterization of the Creek's geomorphology including:

- Channel stability and any potential erosion concerns
- Fish habitat considerations
- Channel design recommendations



Little Etobicoke Creek (Matrix 2020)

Stage 1 Archaeology Assessment (ASI 2019)

Assessment of the archaeological potential that:

- Confirmed no known archaeology sites near the study area
- Concluded test pits as part of a Stage 2 assessment were required before construction



Applewood Trail (ASI 2019)

Natural Heritage Study (Matrix 2020)

Inventory of the natural heritage within the study area including:

- Woodlands
- Wildlife habitat
- Fish and fish habitat



Riparian habitat (Matrix 2020)

The hydraulic screening concluded that keeping flow within the Little Etobicoke Creek valley corridor is hydraulically feasible and determined the best approaches to fit the land constraints imposed by the highly urbanized watershed. Based on this conclusion, three alternative solutions were developed to conceptual design. These concepts will be evaluated against the “Do Nothing” option.

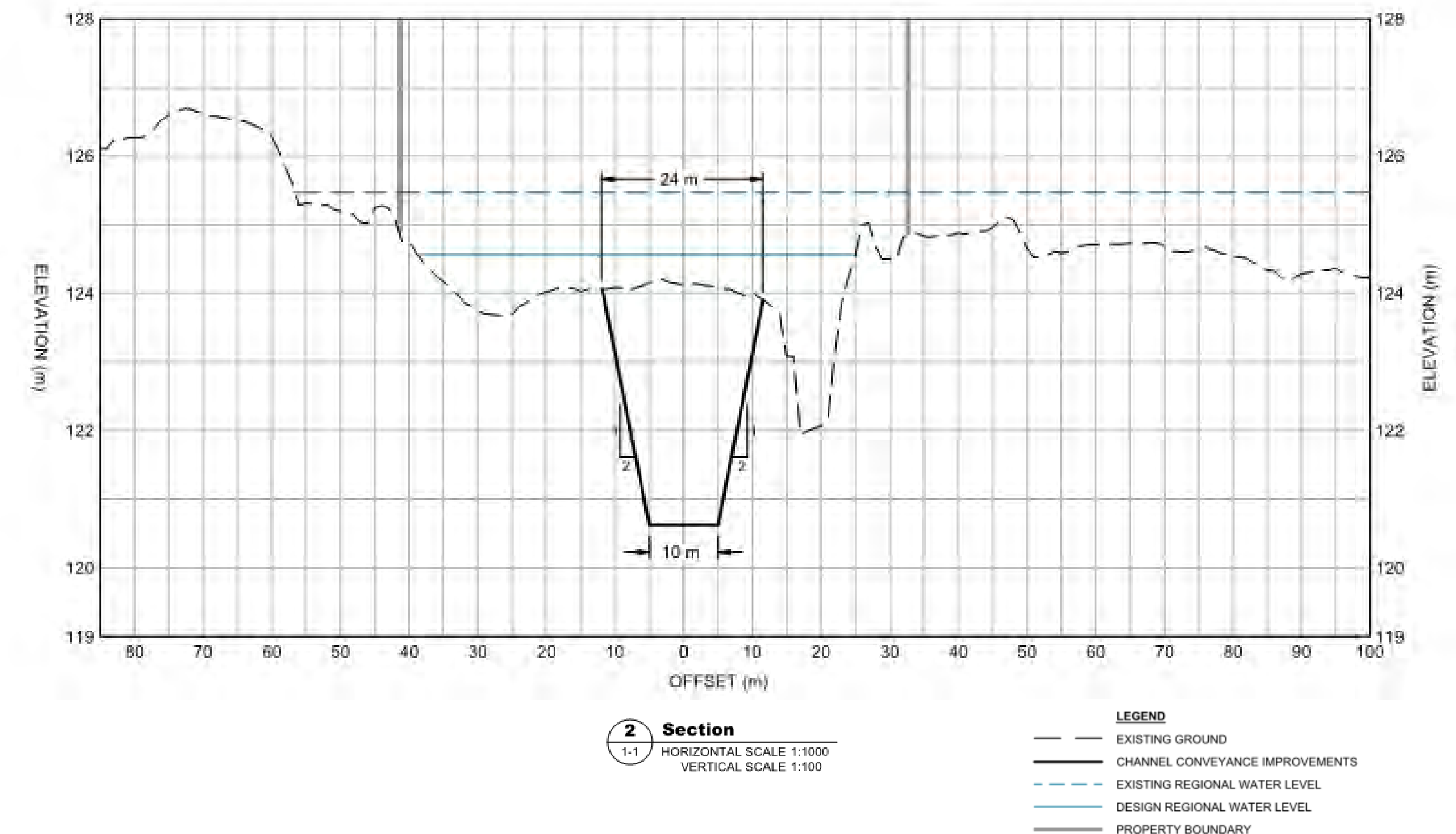
- **Option 1 – Improved Conveyance with Minimized Footprint**
- **Option 2 – Improved Conveyance by Making Room for the Creek**
- **Option 3 – Flood Containment with Mitigation for Upstream Impacts**
- **Option 4 – Do Nothing**

Each alternative represents a different approach to keep flow within the Little Etobicoke Creek valley corridor combined with a Dixie Road Bridge replacement.

Option 1 – Improved Conveyance with Minimized Footprint **DRAFT**

The concept of this alternative is to create a narrow and deep channel from 500 m upstream of Dixie Road to 700 m downstream.

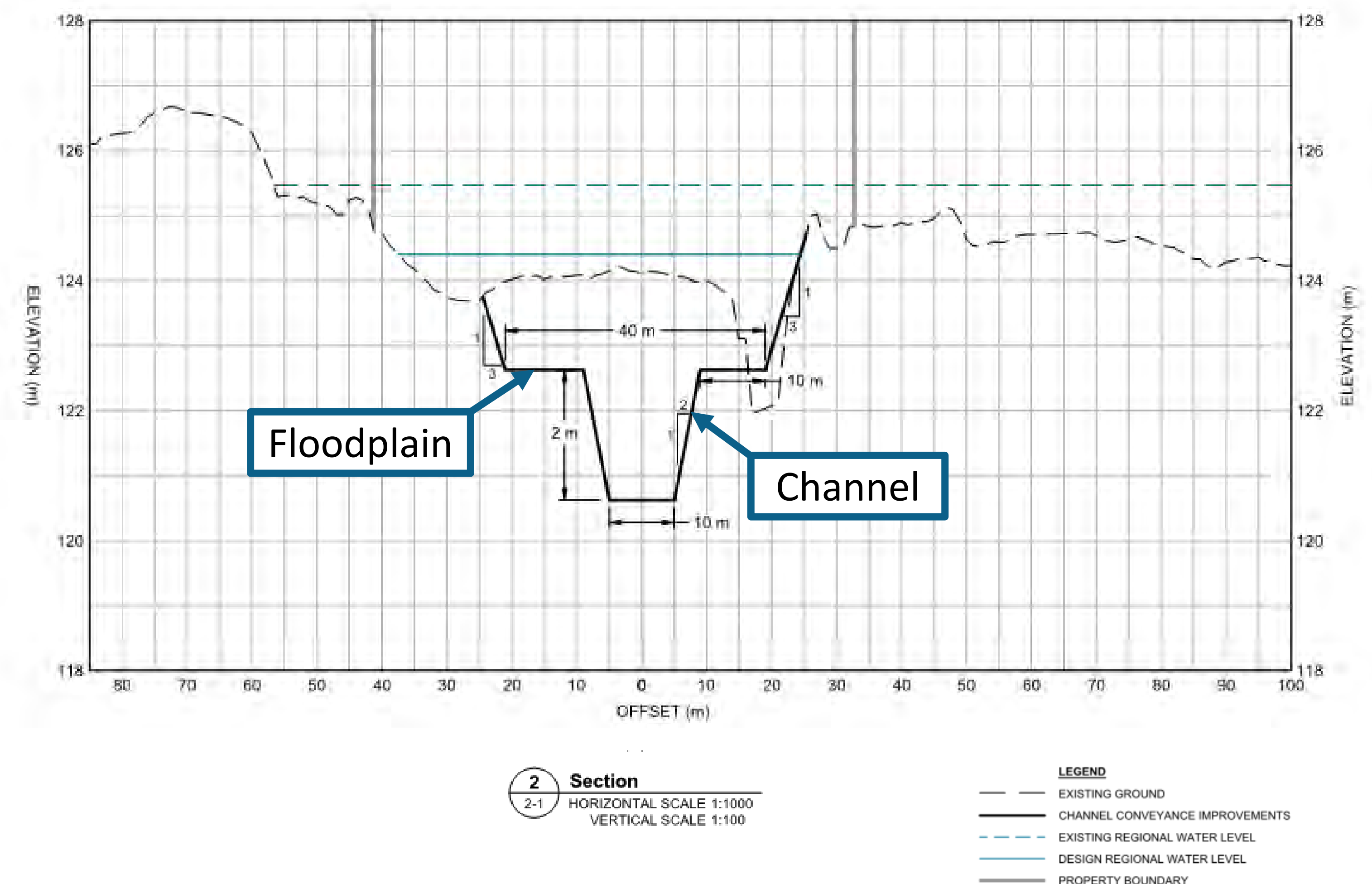
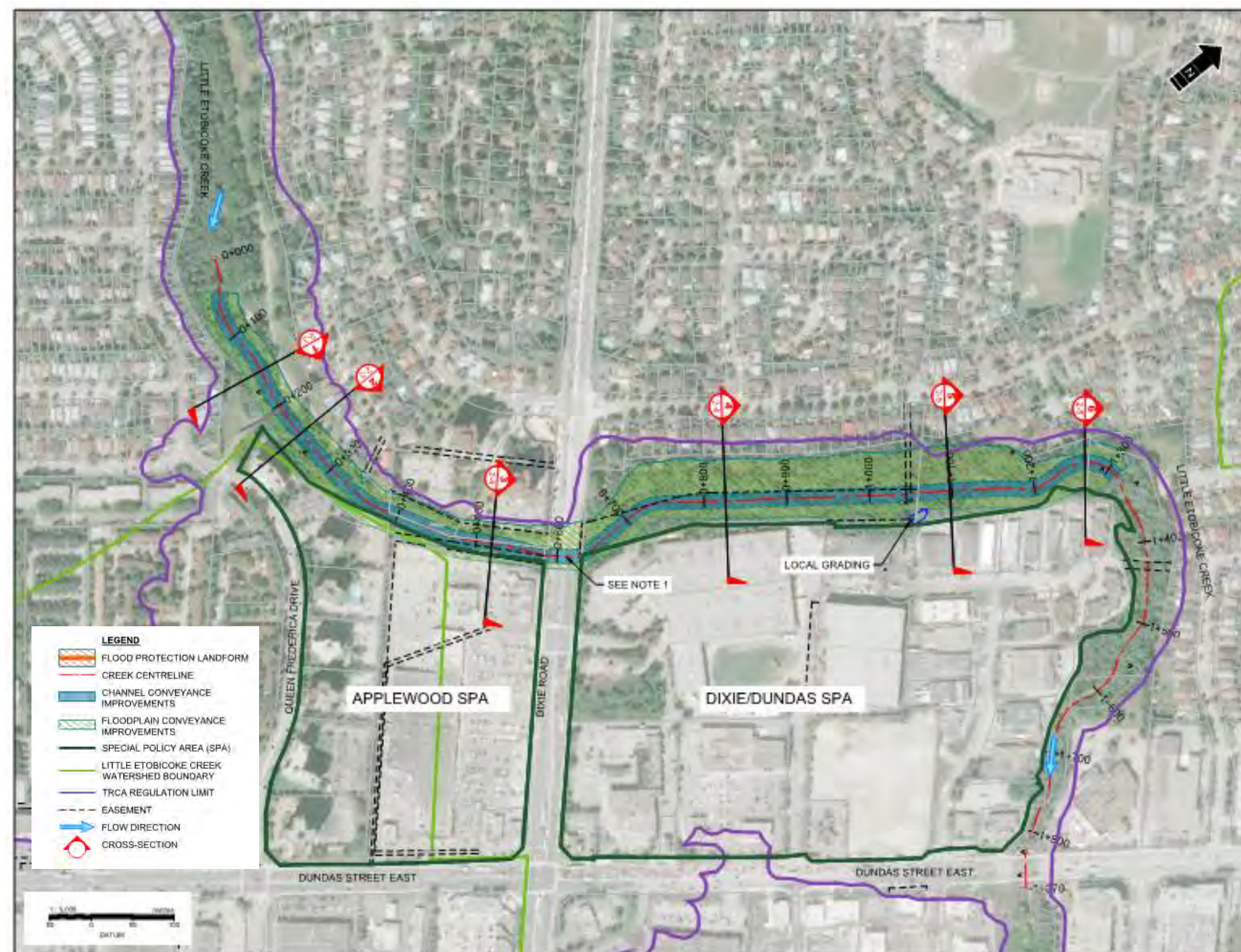
- Channel top width increased from the existing 10 to 20 m (varies) to 17 to 30 m (varies)
- Upstream 600 m of channel lowered by 1 m on average
- Preliminary cost estimate \$23M (includes bridge replacement)



Option 2 – Improved Conveyance by Making Room for the Creek **DRAFT**

This alternative is modelled on natural channel design concepts, with a widened channel and lowered adjacent ground that creates a wider and better-connected floodplain, from 500 m upstream of Dixie Road to 700 m downstream.

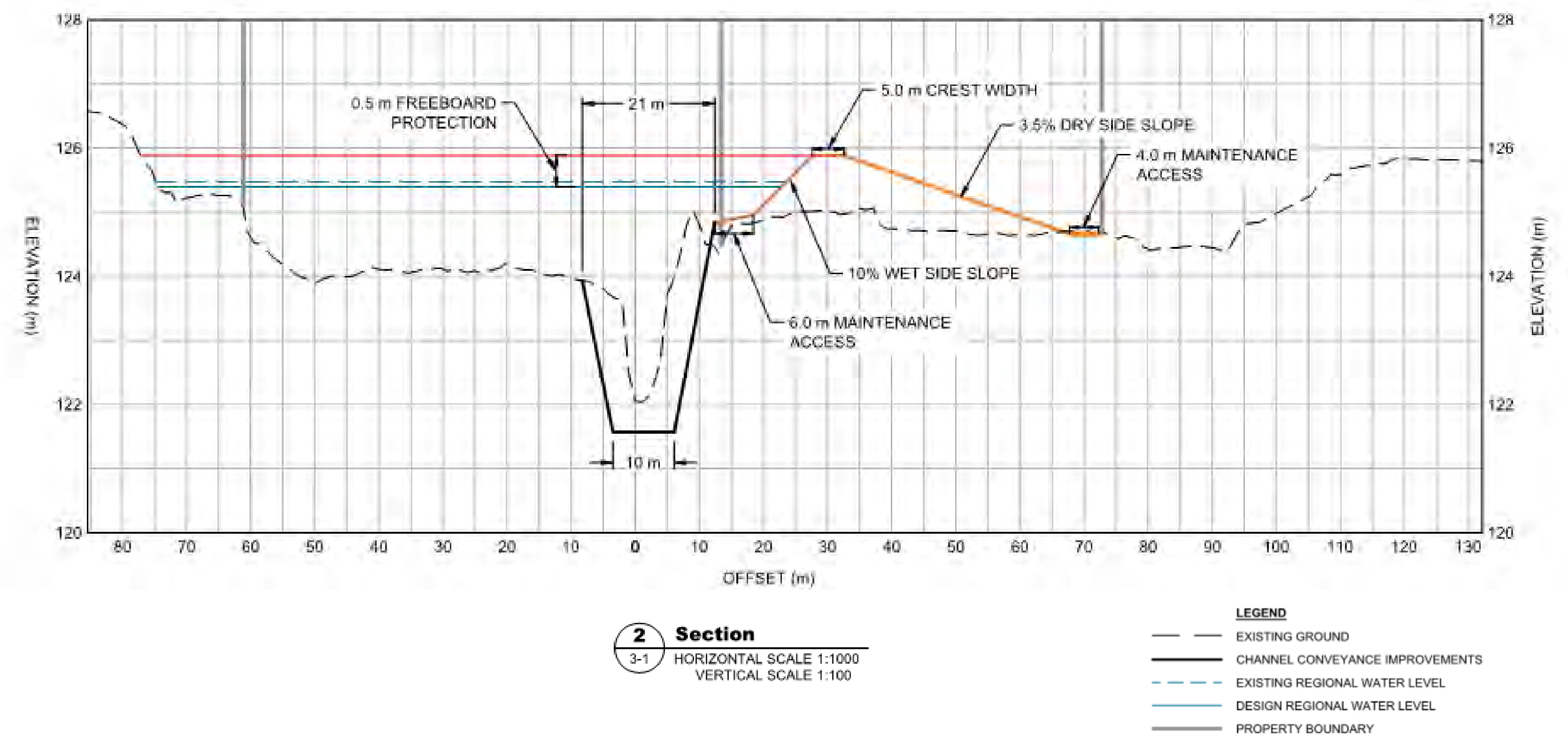
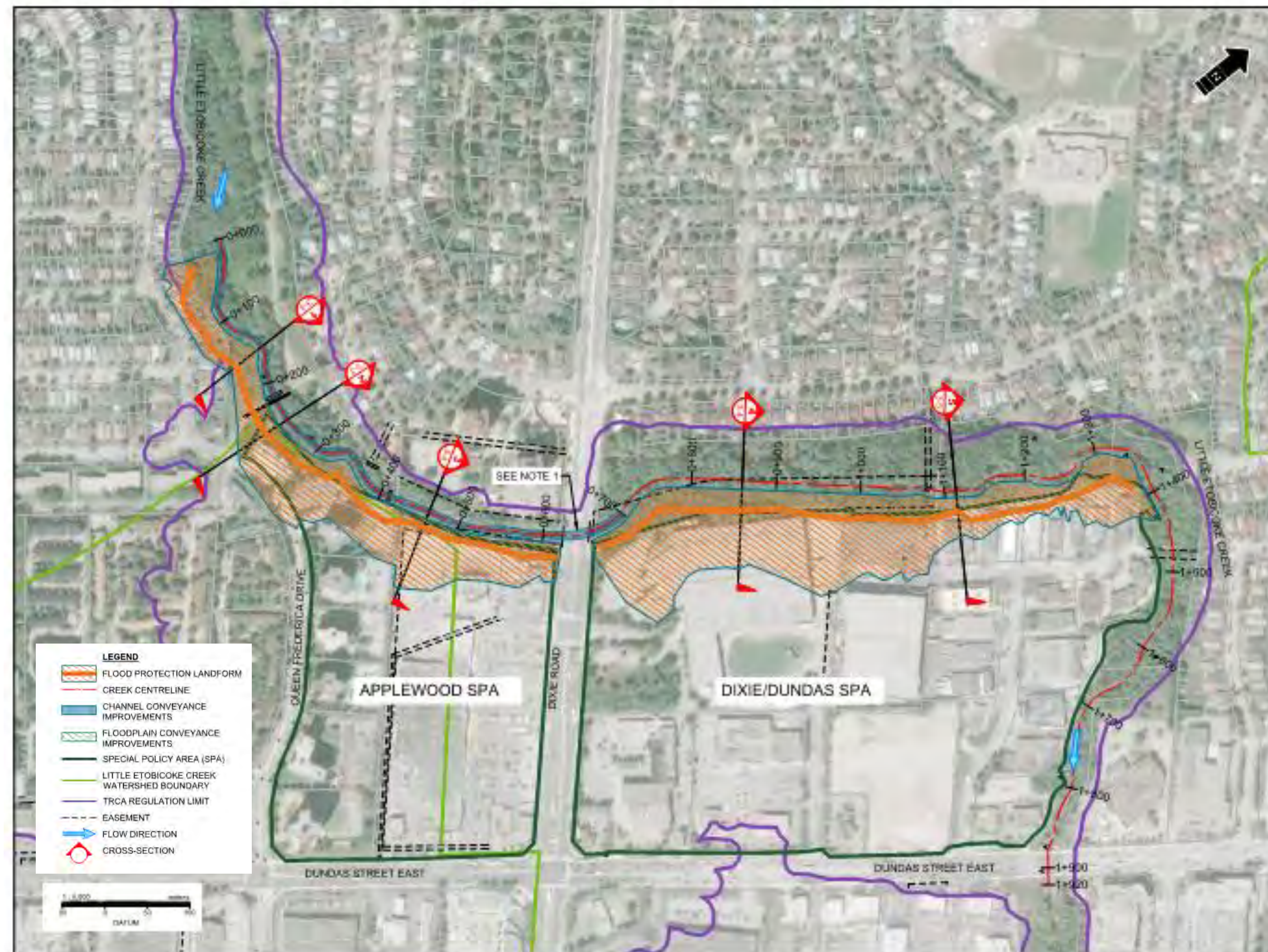
- Channel top width increased from the existing 10 to 20 m (varies) to 17 to 21 m (varies)
- Channel depth reduced from the existing 1.6 to 3.5 m (varies) to 1.6 m to 2.0 m (varies) by lowering adjacent ground to create a floodplain
- Upstream 600 m of channel lowered by 1 m on average
- Preliminary cost estimate \$22M (includes bridge replacement)



Option 3 – Floodplain Containment with Mitigation for Upstream Impacts DRAFT

The concept of this alternative is to contain the Regional event within the valley corridor using a Flood Protection Landform (FPL). The FPL would extend from 500 m upstream of Dixie Road to 700 m downstream.

- Requires a wide footprint area due to the shallow slope on the dry side of the FPL
- Minor widening for the upstream 600 m of channel to counter backwater impacts of FPL
- Preliminary cost estimate \$146M (due to bridge replacement and significant property impacts)



Dixie Road Bridge Replacement DRAFT

- Currently over half of the Regional event spills from the creek upstream of the Dixie Road Bridge, with this spill partially caused by backwater created from the bridge
- The existing Dixie Road Bridge is not able to convey flow from the Regional event, and especially not if all flow were to remain in the creek valley corridor as part of a flood mitigation solution
- Solving the spill by keeping flow within the valley corridor requires the bridge to be replaced



12 m span Dixie Road Bridge (Thurber 2019)



The current Dixie Road Bridge at Little Etobicoke Creek provides six lanes of traffic plus a left turn lane.

Dixie Road Bridge Replacement DRAFT

The conceptual bridge replacement options for each alternative solution is summarized as follows (R.V. Anderson Associates Limited 2020):

Option 1: *Improved Conveyance with Minimized Footprint*

- **Bridge Span:** Single-span with total opening width of 26 m
- **Road Construction:** Dixie Road would need to be raised 1.7 m resulting in significant road construction
- **High-Level Cost Estimate:** \$7.6M for bridge and road construction (\$23M total for Option 1)

Option 2: *Improved Conveyance by Making Room for the Creek*

- **Bridge Span:** Two-span with a total opening width of 45 m
- **Road Construction:** Dixie Road would need to be raised 0.7 m resulting in less road construction compared to Options 1 and 3
- **High-Level Cost Estimate:** \$5.4M for bridge and road construction (\$22M total for Option 2)

Option 3: *Flood Containment with Mitigation for Upstream Impacts*

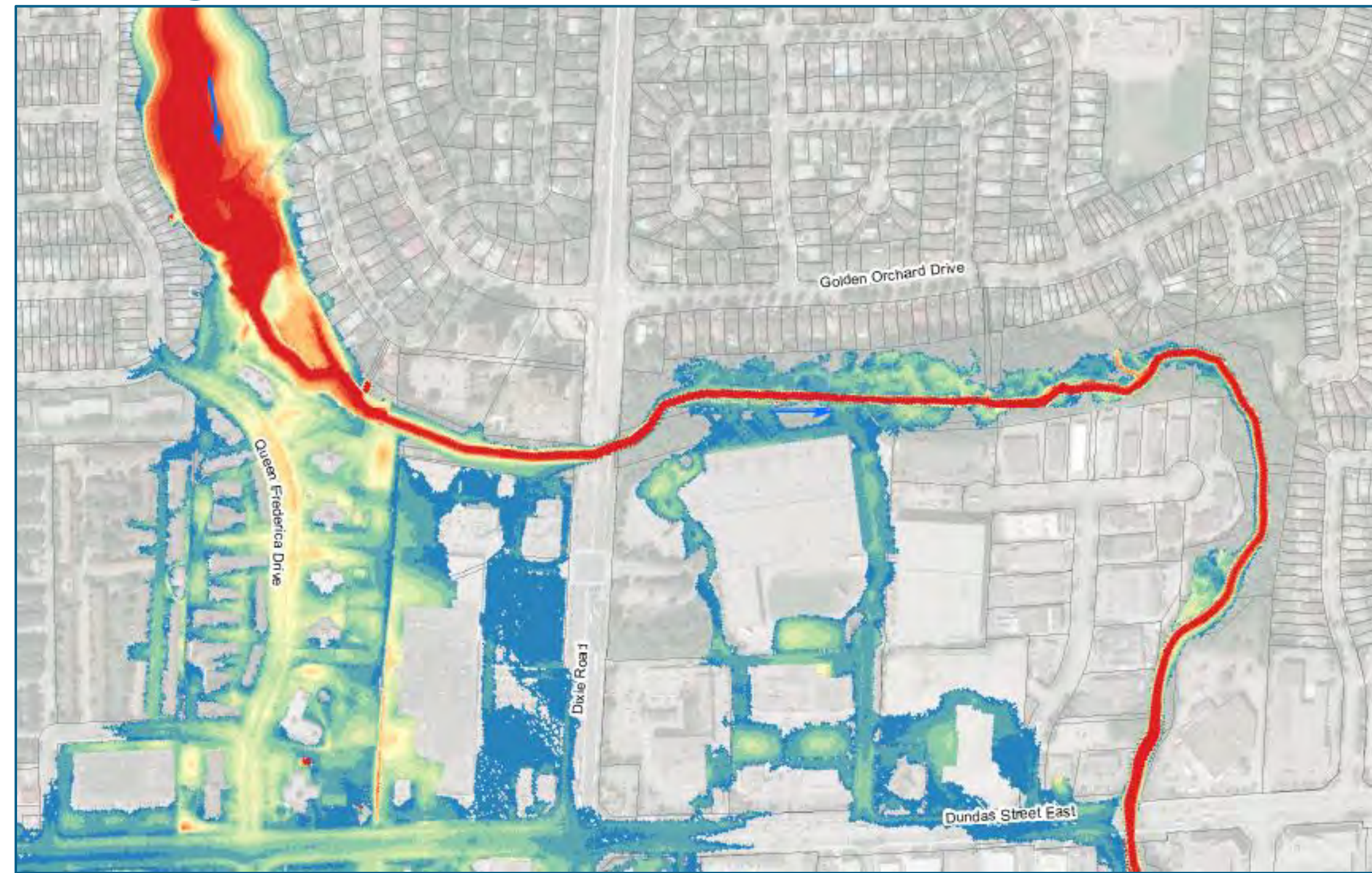
- **Bridge Span:** Single-span with total opening width of 28 m
- **Road Construction:** Dixie Road would need to be raised 2.3 m resulting in major road construction
- **High-Level Cost Estimate:** \$8.4M for bridge and road construction (\$146M total for Option 3)

-
- A longer but lower bridge has a cost advantage over a shorter bridge that otherwise requires a higher road profile
 - Four lanes of traffic and a left turn lane are expected to be maintained throughout construction

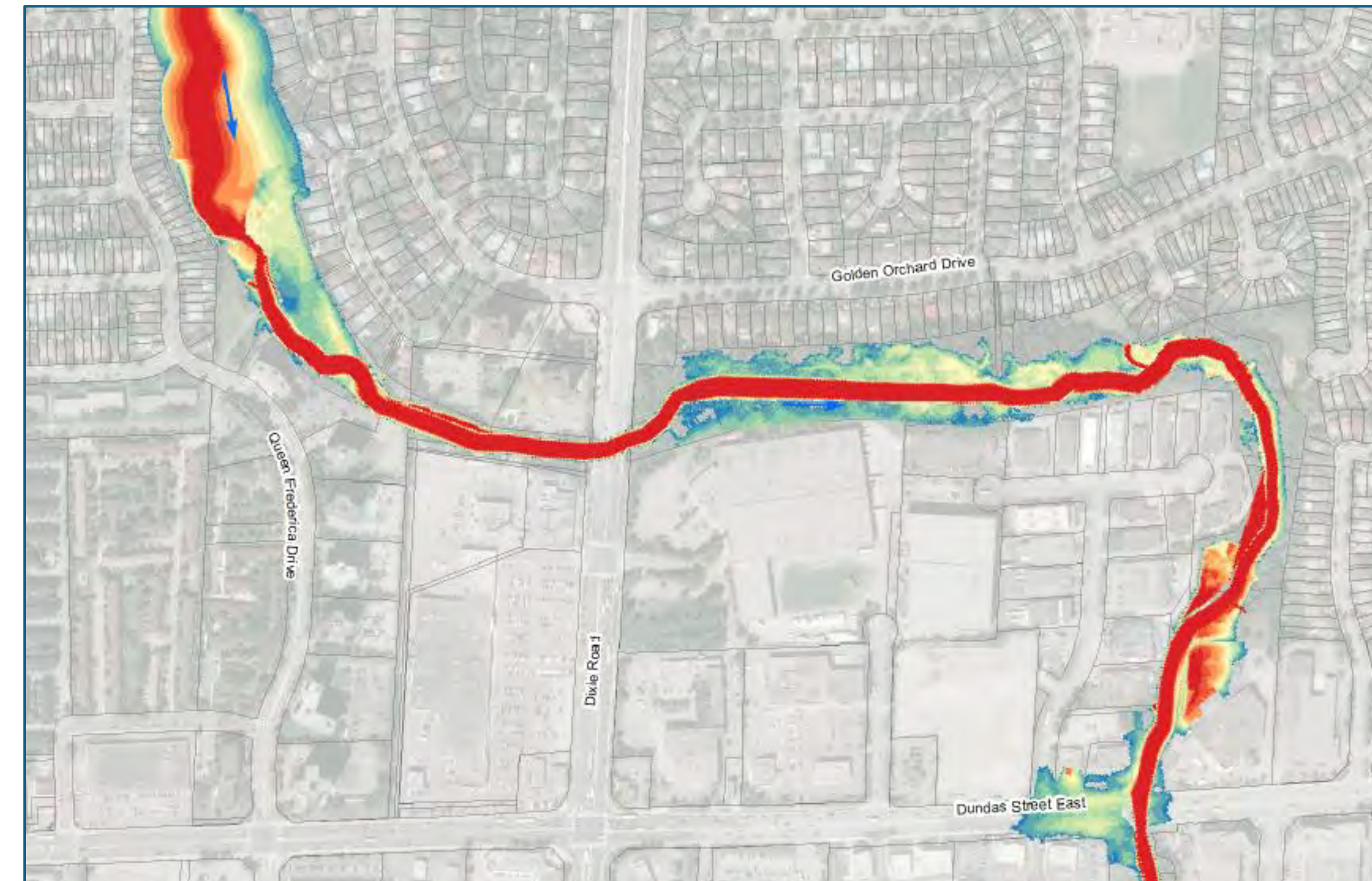
Hydraulic Modelling

DRAFT

Existing Conditions



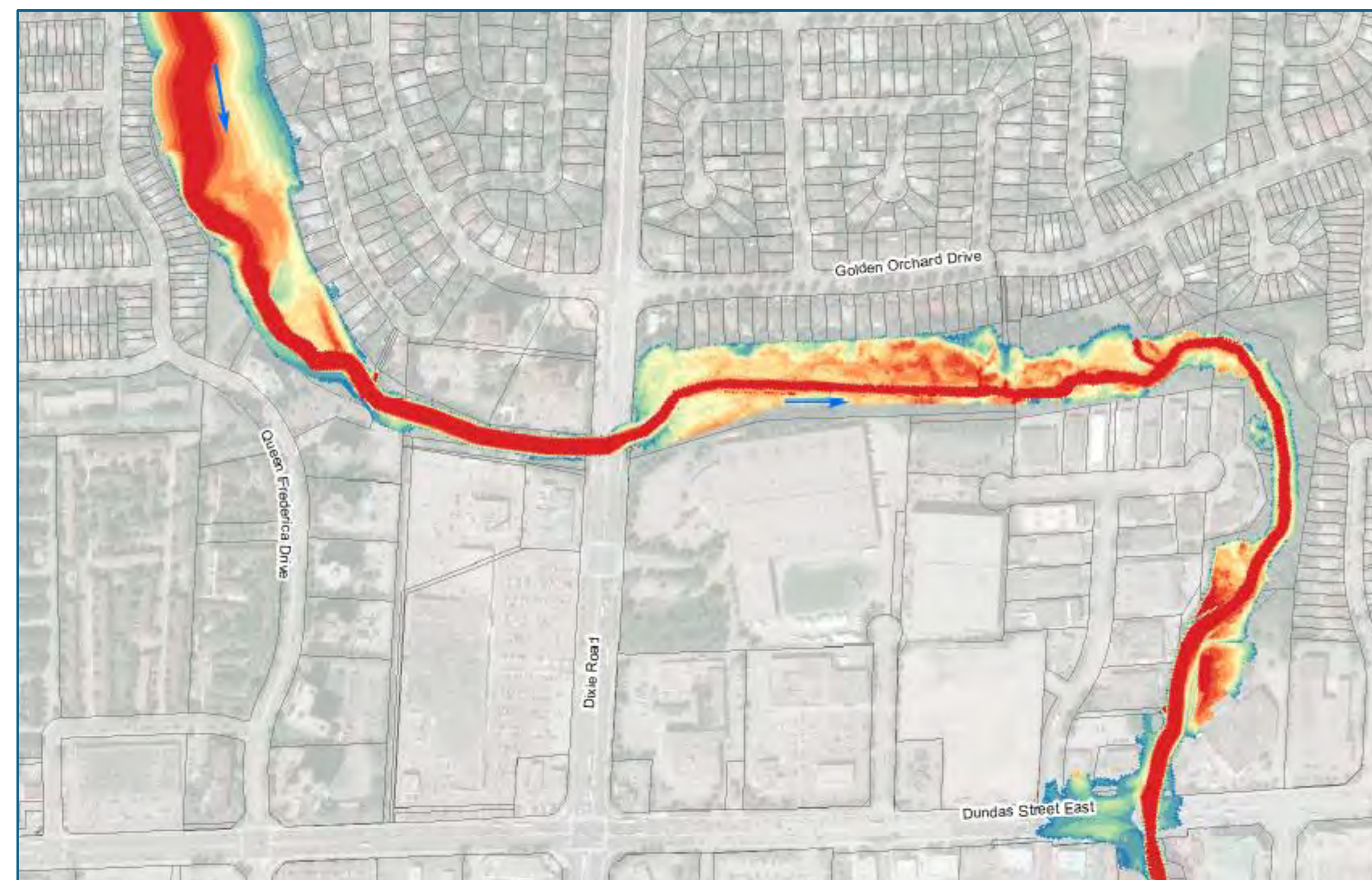
Option 1: Minimized Footprint



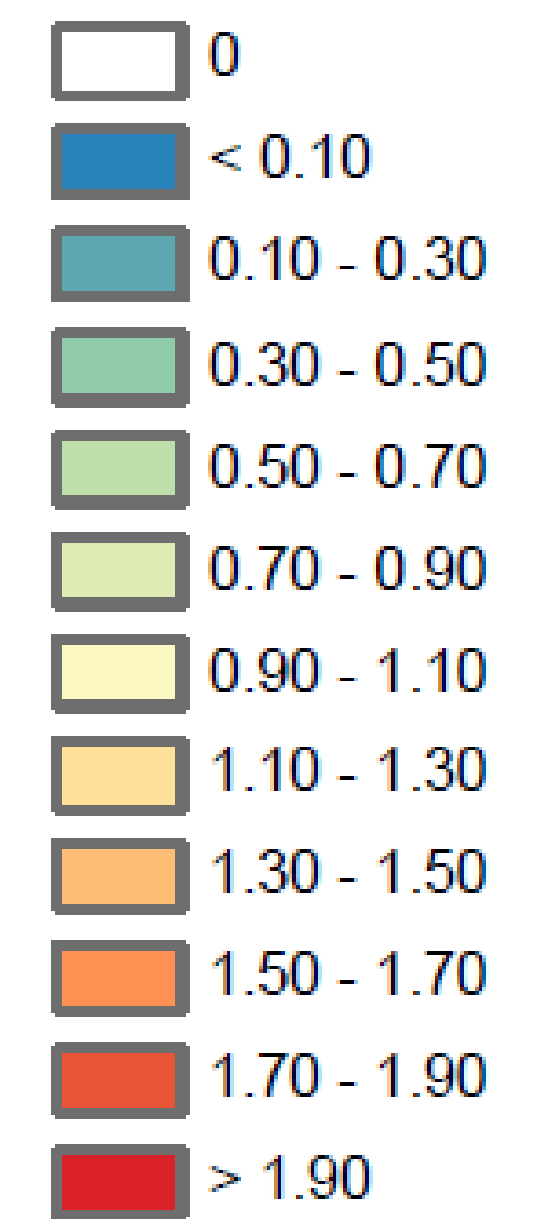
Option 2: Making Room for the Creek



Option 3: Flood Containment



Regional flood depths (m)



DRAFT

Preliminary Impact Assessment

Preliminary Impact Assessment – Infrastructure and Property **DRAFT**

- Infrastructure crossing below the Creek at Dixie Road is expected to be modified to provide adequate cover depth (all options) and/or to facilitate channel lowering (Option 1 and Option 2). This infrastructure includes a 900 mm sanitary sewer, a 400 mm watermain, and an exposed utility conduit.
- There is opportunity to provide adequate cover depth above a 450 mm sanitary sewer (550 m downstream of Dixie Road Bridge) as part of mitigation works

Option 1 – Improved Conveyance with Minimized Footprint:

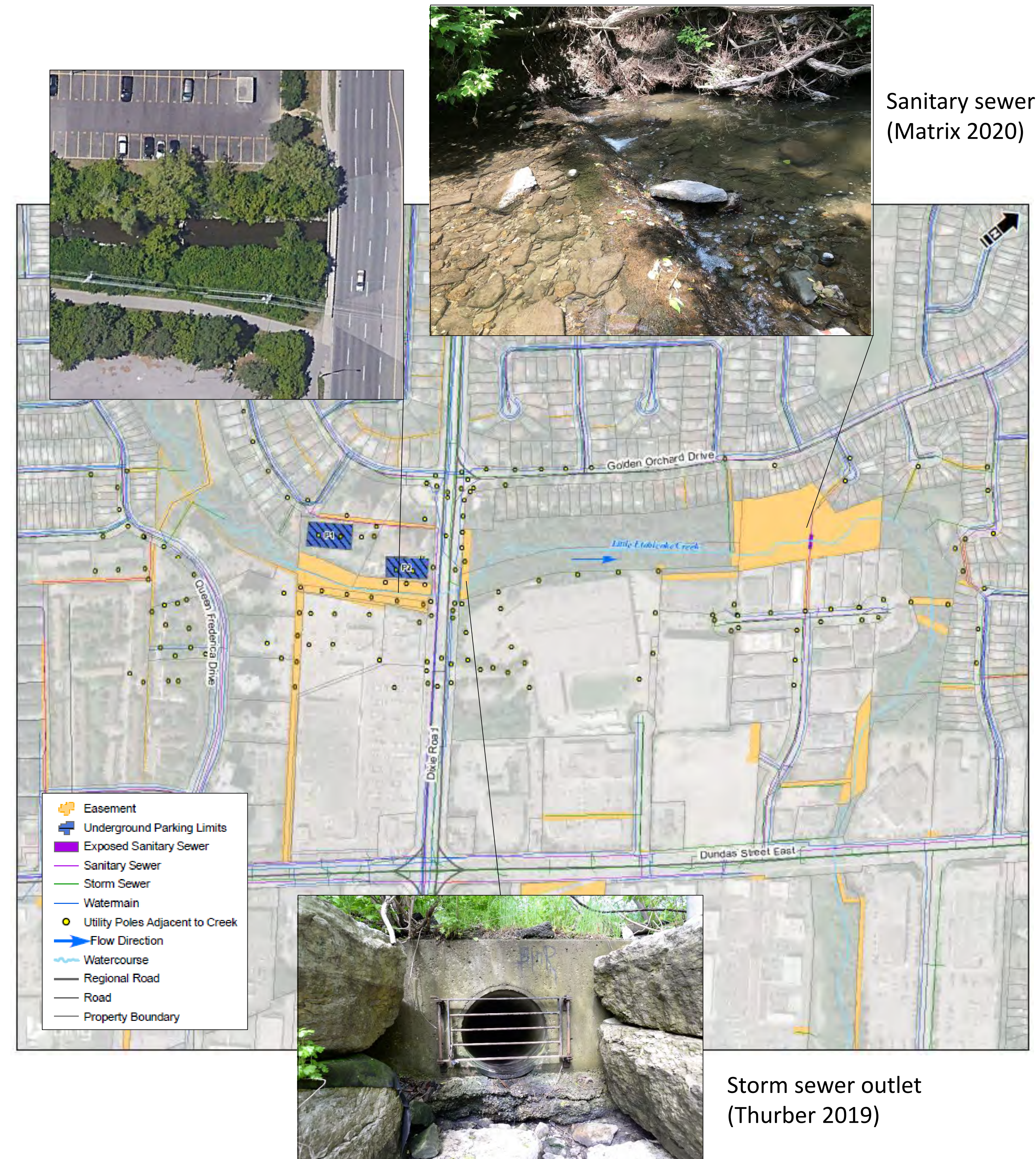
- Expected modification of eight storm sewer outlets
- Relocate power lines to raise Dixie Road

Option 2 – Improved Conveyance by Making Room for the Creek

- Expected modification of eight storm sewer outlets
- Relocate power lines for channel and floodplain works immediately upstream of Dixie Road
- Parking lots are in close proximity to the Creek on the north and south side from Dixie Road to 300 m upstream. These parking lots are constraints for Option 2 and some of these lands may be needed in order to reduce flood risk.

Option 3 – Flood Containment with Mitigation for Upstream Impacts

- Expected modification of five storm sewer outlets
- Relocate power line to raise Dixie Road
- Significant property acquisition requirements include apartment buildings, single-detached homes, and industrial/commercial buildings



Preliminary Impact Assessment – Natural Heritage **DRAFT**

The City of Mississauga Master Plan designates the valley corridor in the study area as a Significant Natural Area. The integrity of this Natural Area will be considered in the design of a flood mitigation solution (e.g. landscaping and restoration plans).

- The study area provides habitat for common fish species. No in-water works will be permitted during the fisheries timing window (April 1 to June 30).
- The study area downstream of Dixie Road provides wildlife habitat for the following Species at Risk:
 - **Eastern Wood Pewee:** To protect habitat, no tree removal will be permitted during the breeding bird window (April 1 to August 30) and its habitat should be considered in restoration and landscaping
 - **Potential Bat Maternity Roosting:** The habitat will be preserved or impacts mitigated (e.g., placing bat boxes to offset lost habitat)
- A Butternut tree (Species at Risk) is located downstream of Dixie Road. Any construction activities occurring within 25 m of the Butternut will require an offsetting plan (e.g. planting Butternut seedlings) if the tree is confirmed to be a pure species.

Option 1 – Improved Conveyance with Minimized Footprint:

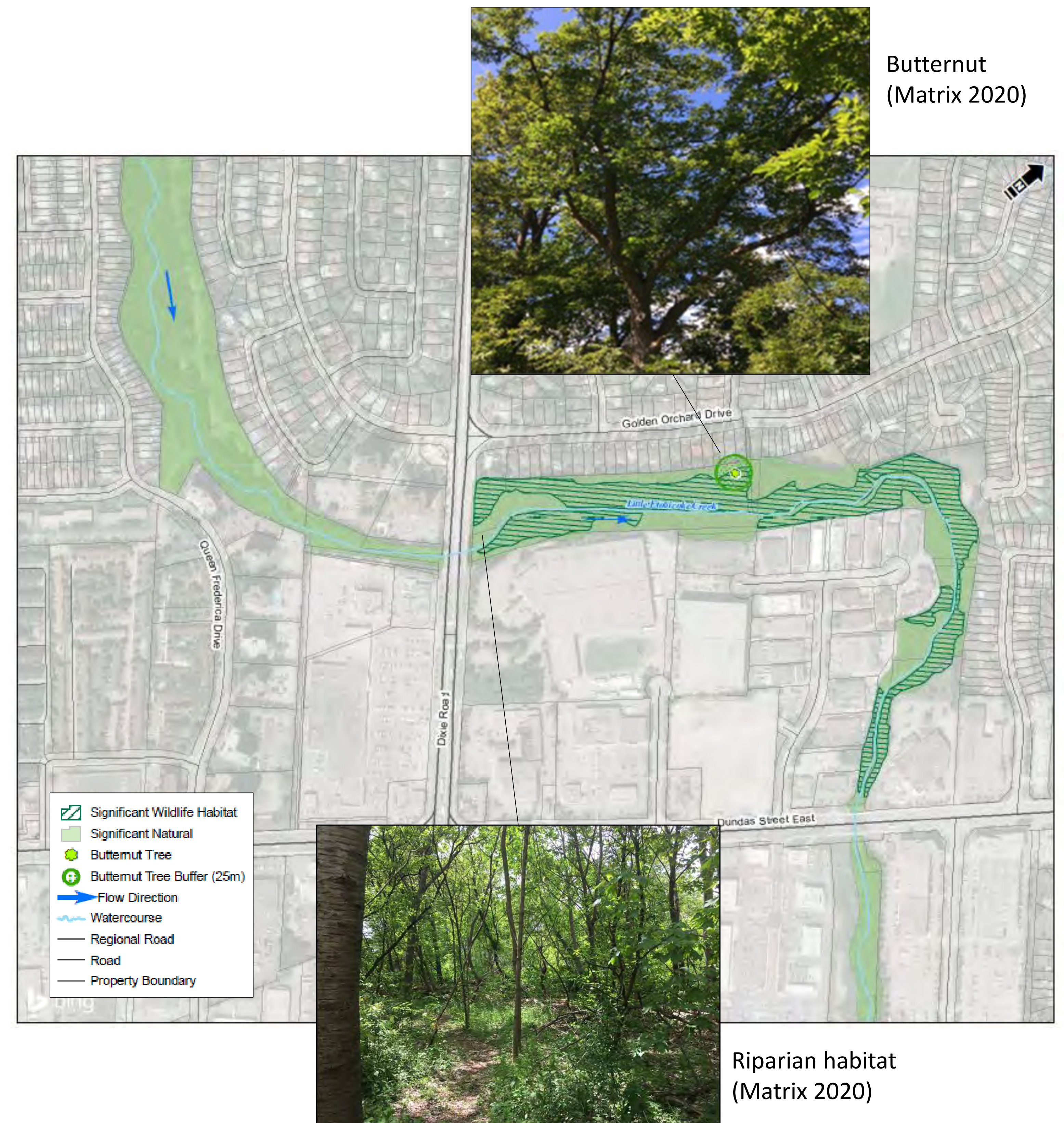
- Site disturbance (e.g. tree removal) required to construct an oversized channel

Option 2 – Improved Conveyance by Making Room for the Creek

- Floodplain works may require disturbance within 25 m radius of the identified Butternut
- Site disturbance (e.g. tree removal) required across the valley corridor to construct a widened channel and provide a better-connected floodplain
- Best opportunity to improve fish habitat using natural channel design approaches

Option 3 – Flood Containment with Mitigation for Upstream Impacts

- Site disturbance (e.g. tree removal) required for minor channel widening
- Significant works in urban area rather than natural area



Preliminary Impact Assessment – Archaeology **DRAFT**

- Previously undisturbed areas in the valley corridor have archaeological potential requiring test pits before construction. This archaeological potential is based on:
 - Historical water source provided by the Creek
 - Existence of historic transportation routes at Dixie Road and Dundas Street East
 - Proximity of early settlements including the Villages of Dixie, Summerville, and Burnhamthorpe
- Previously disturbed areas and banks with steep slopes have no archaeological potential

Option 1 – Improved Conveyance with Minimized Footprint:

- Test pits required along the channel before construction disturbance

Option 2 – Improved Conveyance by Making Room for the Creek

- Test pits required across the valley corridor before construction disturbance

Option 3 – Flood Containment with Mitigation for Upstream Impacts

- Test pits required along the channel before construction disturbance
- The FPL is largely located along previously disturbed areas



Previously disturbed, no potential (ASI 2019)

Stage 2 Assessment required above slope (ASI 2019)

The conceptual alternative solutions including the “Do Nothing” approach will be evaluated based on the following criteria:

Technical	Economic	Environment	Social
<ul style="list-style-type: none">• Flood risk improvement• Construction approaches• Climate change improvements	<ul style="list-style-type: none">• Capital costs• Operation and maintenance• Urban development considerations	<ul style="list-style-type: none">• Ecology• Geomorphology• Archaeology	<ul style="list-style-type: none">• Policy considerations• Public input• Property impacts• Public safety• Support of parallel planning initiatives

The criteria may be expanded and adjusted based on the input and comments received from First Nations and Indigenous individuals and will also incorporate Traditional Knowledge. Regulatory agencies and members of the public will also have input towards these criteria. A preferred solution will be selected using the evaluation criteria in collaboration with key stakeholders that include the City of Mississauga, Region of Peel, and TRCA. The preferred solution will then be advanced to preliminary design.

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Next Steps

Next Steps in the EA process include:

1. Integrate input from stakeholders
2. Complete a detailed evaluation of conceptual alternative solutions
3. Select a preferred solution
4. PIC No. 2
5. Advance the preliminary design of the preferred solution which is anticipated to include:
 - Increased attention to constructability, geomorphology, and natural heritage
 - Preliminary bridge general arrangement
 - Preliminary road design
 - Active transportation concepts (i.e. trails)
 - Baseplans for sanitary sewers, watermains, and utility relocations
 - Climate change design criteria

Reminder

- Further ongoing study information is available at: <http://www.mississauga.ca/flooding>
- To sign up for the mailing list and/or to provide comments, please complete the project comment form from the website above and email anthony.digiandomenico@mississauga.ca or adoherty@matrix-solutions.com
- Input will be received until **September 4, 2020**

COVID-19 Community Engagement Update: While we continue to respond to this pandemic, we are working hard to deliver essential services and projects to keep our City moving and safe. While we can't connect in-person at this time, we still want to connect! Please find above how we can connect on this project and for you to share your input.

DRAFT

Project Bulletin for the Expanded Study Area

Dixie-Dundas Flood Mitigation Project

Schedule C Municipal Class Environmental Assessment

<http://www.mississauga.ca/flooding>

PRIME STRATEGY & PLANNING
innovative planning for sustainable communities

arva



Land Acknowledgement

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We would like to begin by acknowledging the Treaty Lands and Territory of the Mississaugas of the Credit. For thousands of years, Indigenous peoples inhabited and cared for this land, and continue to do so today. In particular, we acknowledge the territory of the Anishinabek, Huron-Wendat, Haudenosaunee, and Ojibway/Chippewa peoples; the land that is home to the Metis; and most recently, the territory of the Mississaugas of the Credit First Nation who are direct descendants of the Mississaugas of the Credit.

We are grateful to have the opportunity to work on this land, and by doing so, give our respect to its first inhabitant.



1. Overview

2. Background

- a. Existing Flood Risks
- b. Expanded Study Area

3. Municipal Class Environmental Assessment

4. Project Timeline

5. Alternative Solutions

- a. Option 1 – 25 m Span Length Bridge with Downstream Floodplain Conveyance Improvements
- b. Option 2 – 38 m Span Length Bridge without Downstream Floodplain Conveyance Improvements
- c. Option 3 – 38 m Span Length Bridge with Downstream Floodplain Conveyance Improvements

6. Summary of Alternative Solutions

7. Technical Studies

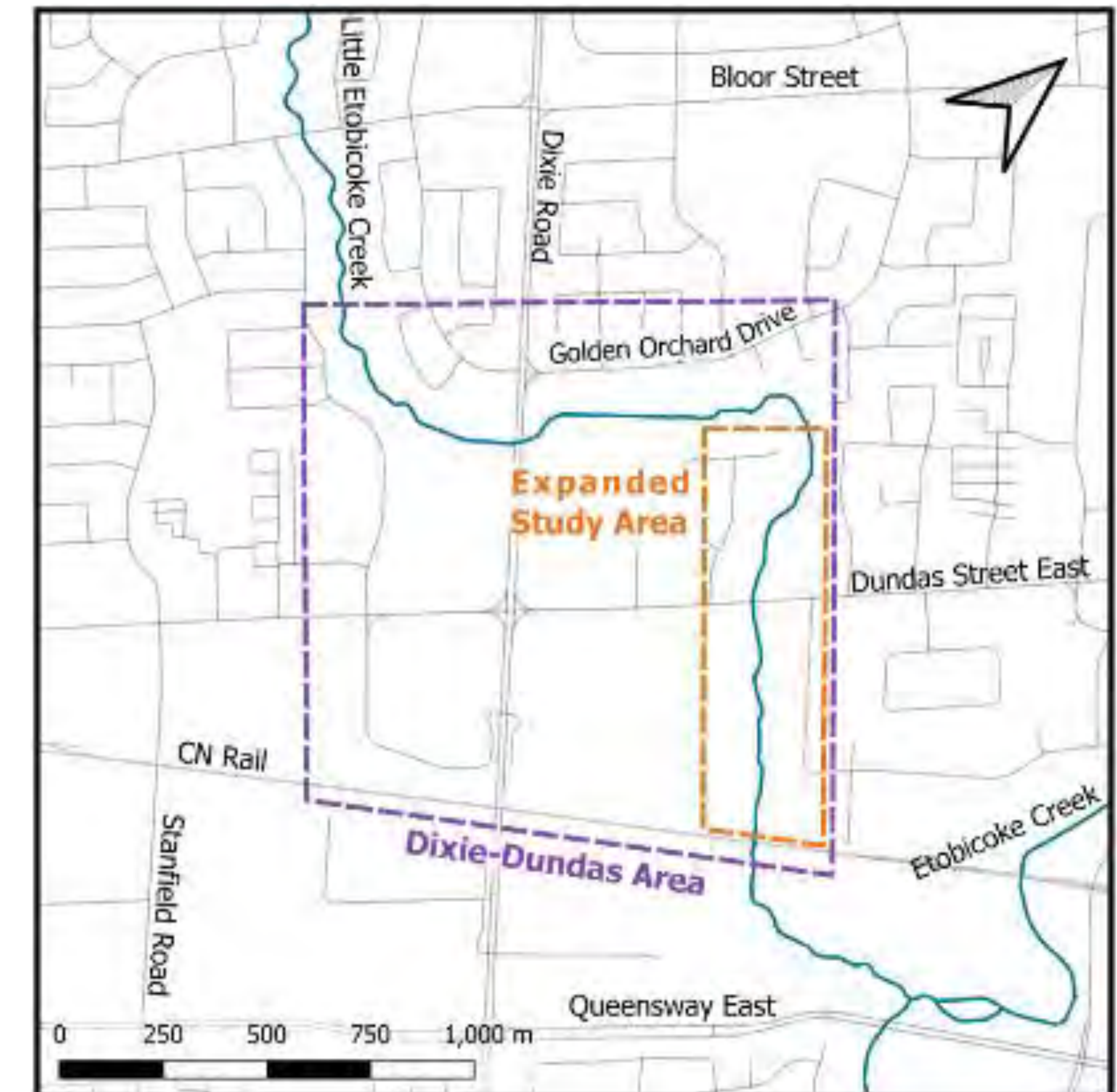
8. Next Steps

The purpose of Public Information Centre No. 1 in August 2020 was to:

- Introduce the public to the project.
- Present conceptual alternative flood mitigation solutions centred around Dixie Road.
- Provide opportunity for interested parties to offer input on the evaluation criteria and identify any concerns or local information that will support the Municipal Class Environmental Assessment (EA) process.
- Public Information Centre No. 1 can be viewed on the project website: <http://www.mississauga.ca/flooding>

The purpose of this Project Bulletin is to:

- Introduce the public to the expanded study. The study has been expanded downstream to the Canadian Pacific (CP) railway crossing. This expanded study area includes the Dundas Street East crossing.
- Present conceptual alternative flood mitigation solutions in the expanded study area near Dundas Street East for input.
- Provide opportunity for interested parties to offer input on the evaluation criteria for the alternative solutions and identify any concerns or local information that will support the Municipal Class EA process.

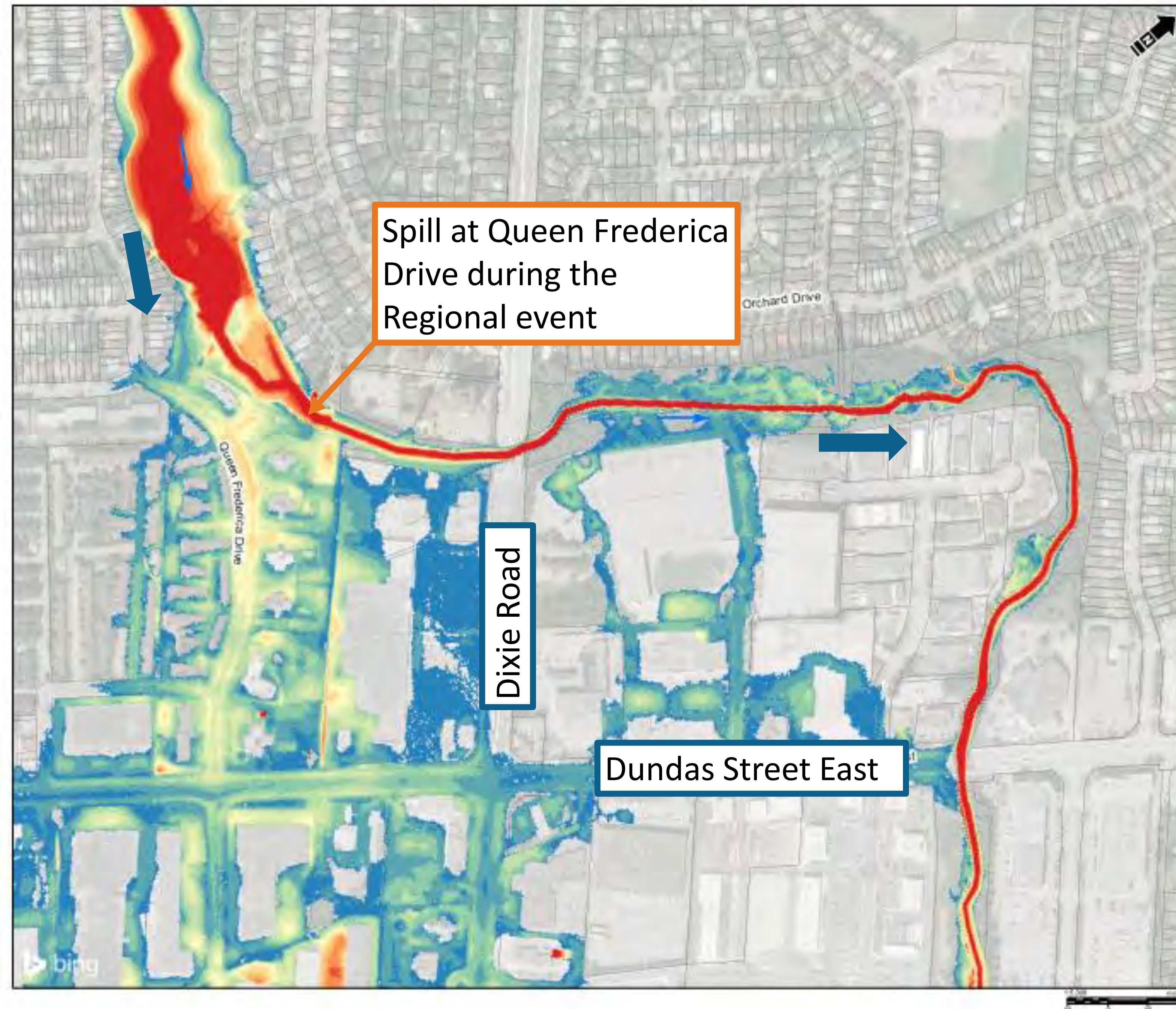


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Background

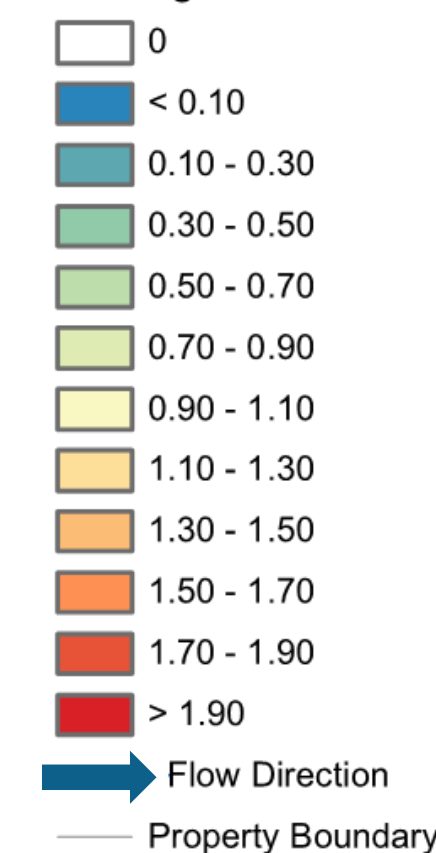
Existing Flood Risks

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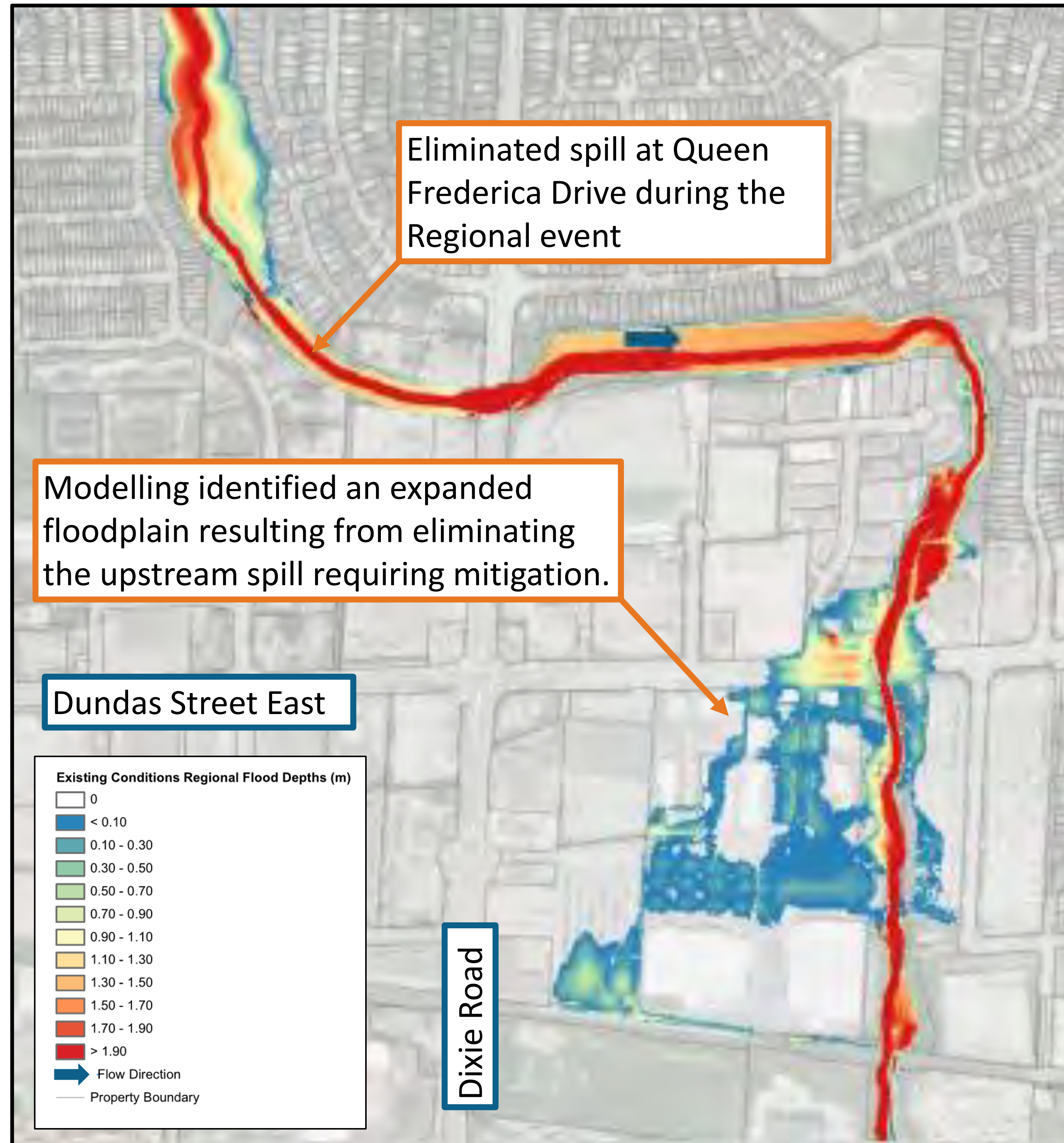
- Approximately 130 m³/s of the total 200 m³/s Regional event flow spills at Queen Frederica Drive and exits the Little Etobicoke Creek valley corridor.
- The Regional event, which is derived from Hurricane Hazel (1954), is recognized as the regulatory flood in the study area.
- The area that floods during the Regional event (i.e., the regulatory floodplain) expands over a wide urbanized area.
- Public Information Centre No. 1 (August 2020) presented alternative solutions to eliminate the upstream spill at Queen Frederica Drive.
- Ongoing study information is available at: <http://www.mississauga.ca/flooding>

Existing Conditions Regional Flood Depths (m)



Flood Risks – Expanded Study Area

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- Following Public Information Centre No. 1, hydraulic modelling was updated to better represent flooding and water levels experienced at the Dundas Street East crossing for the “full flow” condition.
- The full flow condition would result from implementing a flood mitigation solution upstream near Dixie Road that eliminates the spill at Queen Frederica Drive.
- The updated modelling identified an expanded floodplain extent near Dundas Street East that was not identified in previous studies that assessed and considered the full flow condition. This expanded floodplain requires mitigation.
- As part of the expanded study, alternative solutions were identified to mitigate impacts of the expanded floodplain near Dundas Street.
- Hydraulic analysis shows that the alternative solutions near Dundas Street East **do not** impact the alternative solutions identified upstream near Dixie Road.
- A preferred alternative solution near Dundas Street East is required to be **combined** with a preferred alternative solution near Dixie Road.

Expanded Study Area

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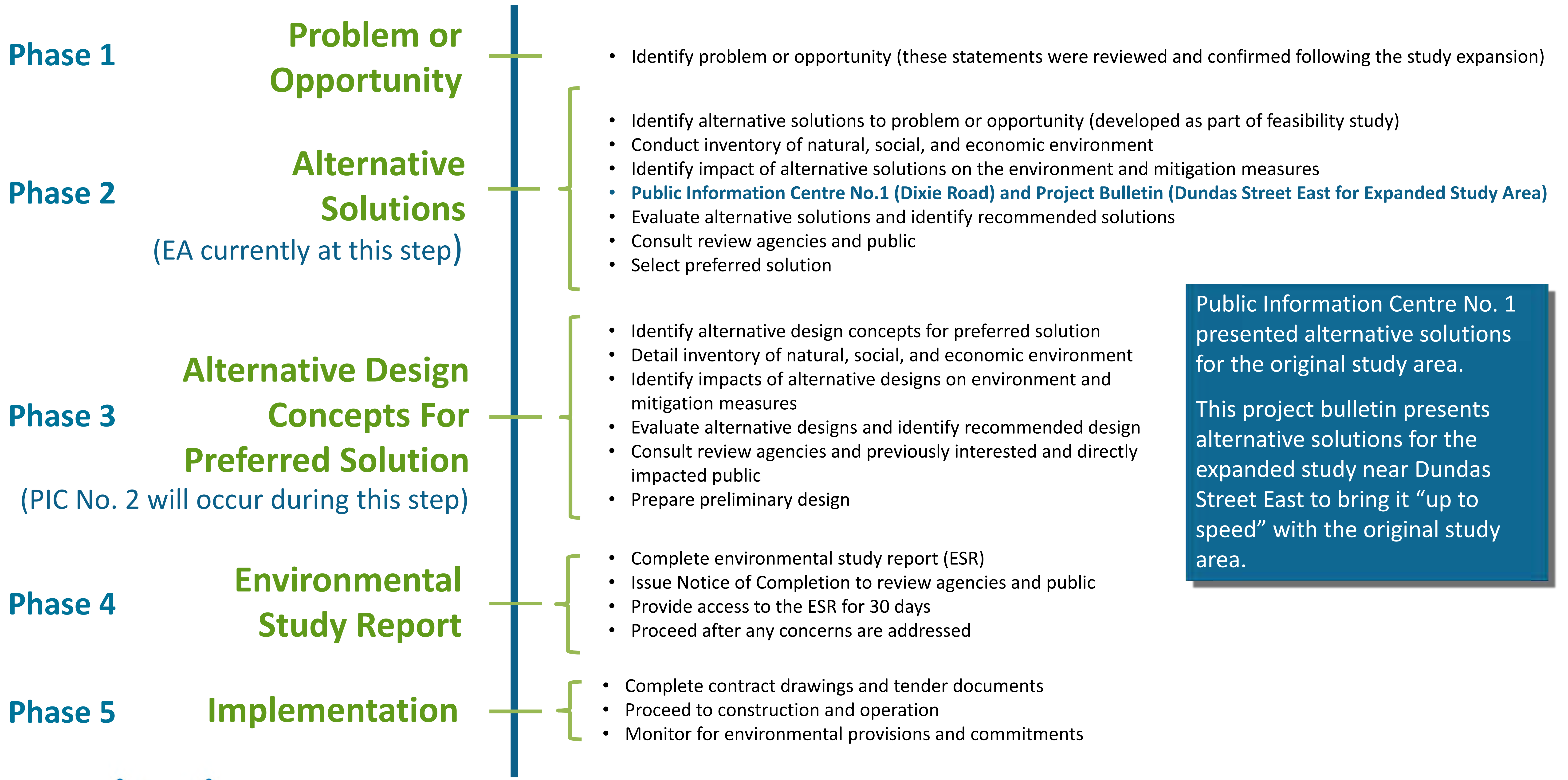


Existing Dundas Street East Crossing (Matrix 2021)



Little Etobicoke Creek downstream of Dundas Street East (Matrix 2021)

Schedule C Municipal Class Environmental Assessment DRAFT



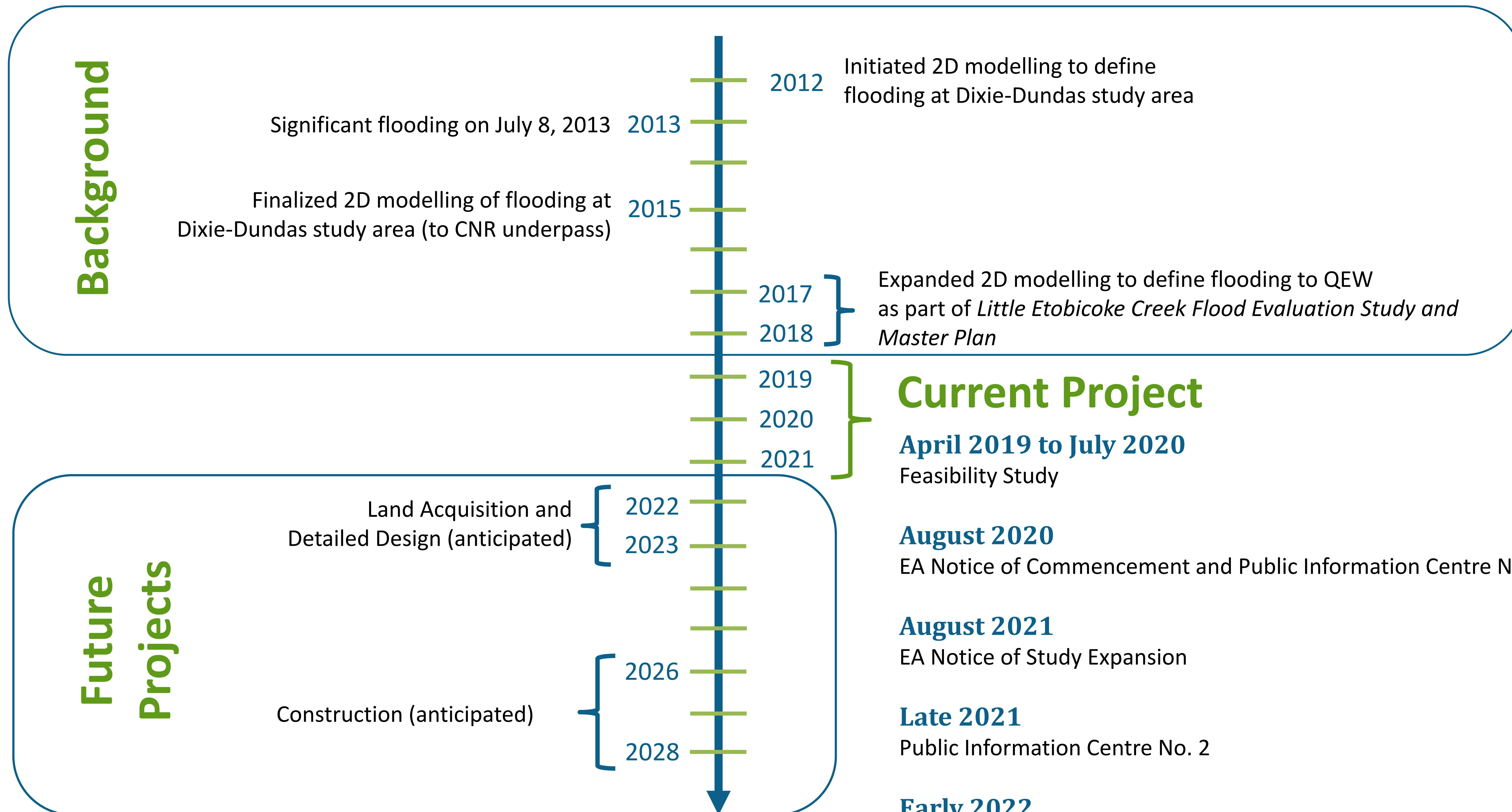
Public Information Centre No. 1 presented alternative solutions for the original study area.

This project bulletin presents alternative solutions for the expanded study near Dundas Street East to bring it “up to speed” with the original study area.



Project Timeline

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Alternative Solutions

Alternative Solutions – Expanded Study Area **DRAFT**

Hydraulic analysis concluded that replacing the Dundas Street East crossing (existing span length 6.1 m) with a larger bridge structure is hydraulically feasible and determined to be the best approach to mitigate the expanded floodplain associated with eliminating the spill upstream at Queen Frederica Drive. The alternatives will be evaluated against the “Do Nothing” option as part of the next steps in the EA process.

- **Option 1 – 25 m Span Length Bridge with Downstream Floodplain Conveyance Improvements**
- **Option 2 – 38 m Span Length Bridge without Downstream Floodplain Conveyance Improvements**
- **Option 3 – 38 m Span Length Bridge with Downstream Floodplain Conveyance Improvements**
- **Option 4 – Do Nothing**

Each of the alternative solutions, options 1 to 3, mitigate the expanded floodplain identified downstream of Dundas Street East by keeping flows within the Little Etobicoke Creek valley corridor.

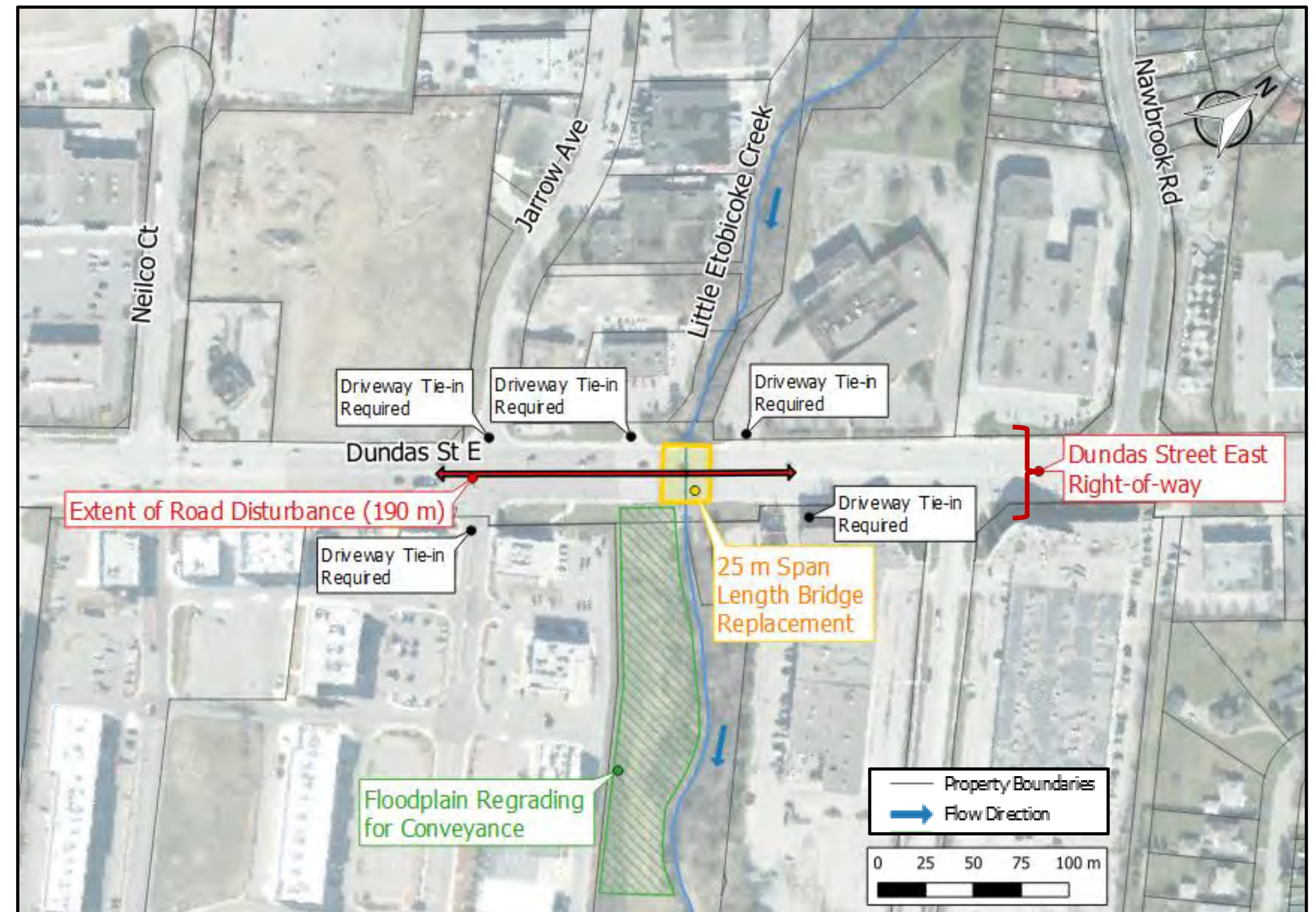
For each of the alternative solutions, alternative design approaches will be explored, as part of the study’s next steps, to further mitigate flood impacts upstream of Dundas Street East.

Option 1 – 25 m Span Length Bridge with Downstream Floodplain Conveyance Improvements

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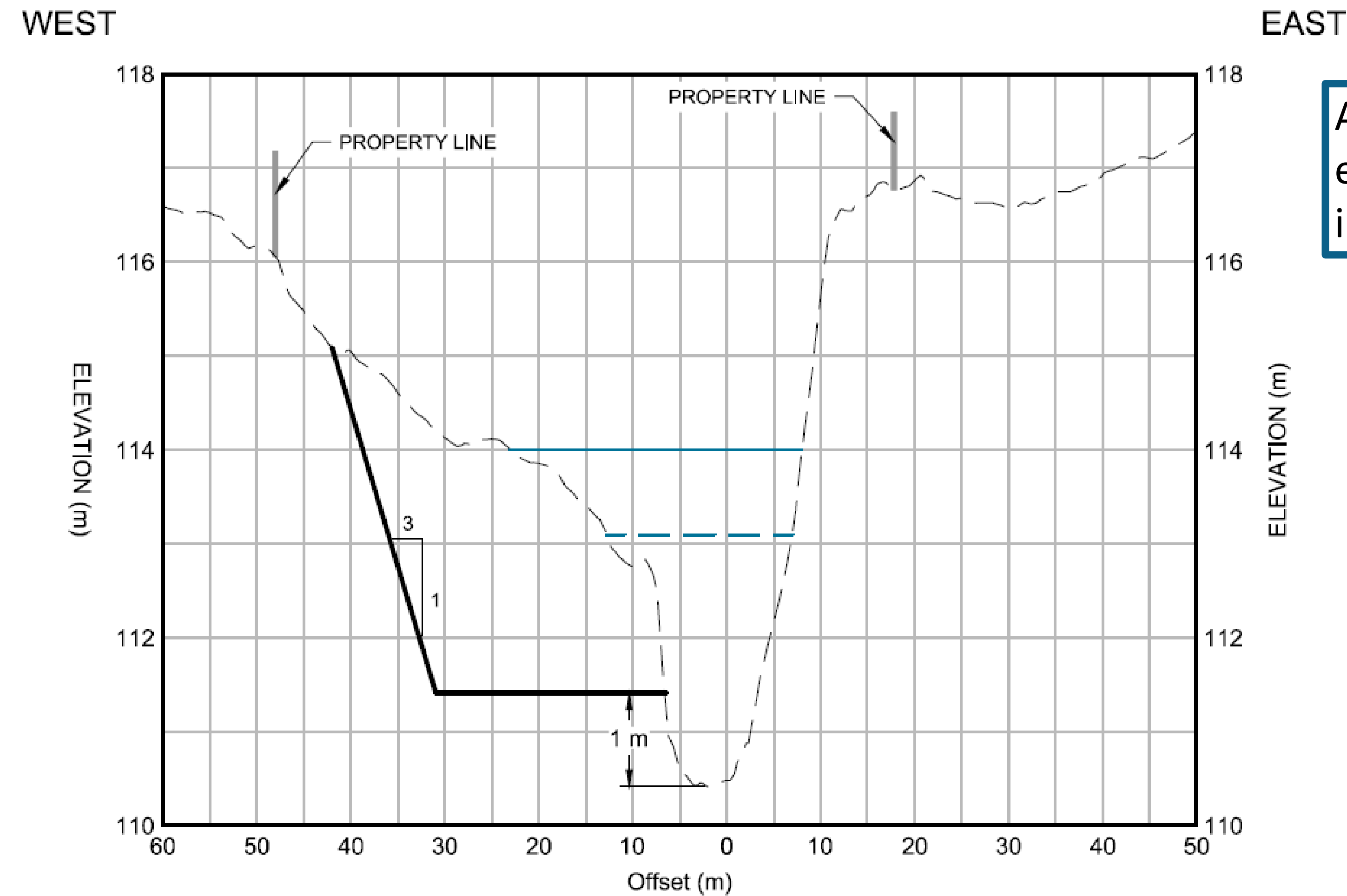
The 25 m length bridge option spans the existing Little Etobicoke Creek valley corridor at Dundas Street East to mitigate expanded floodplain.

- The bridge replacement option requires Dundas Street East to be raised 0.75 m at the crossing location. This elevation increase corresponds to a road disturbance length of 190 m.
- The Dundas Street East right-of-way width is being coordinated with the requirements of the Transit Project Assessment Process for the Dundas Bus Rapid Transit (BRT) Project.
- Driveways adjacent to the road disturbance are required to tie-into the raised Dundas Street East road elevation.
- The floodplain conveyance improvements lower water levels at Dundas Street East during flood conditions which in return reduces the required road elevation increase.
- Potential watermain and sanitary sewers impacts associated with the bridge replacement are being coordinated with Peel Region.



Option 1 - 25 m Span Length Bridge with Downstream Floodplain Conveyance Improvements

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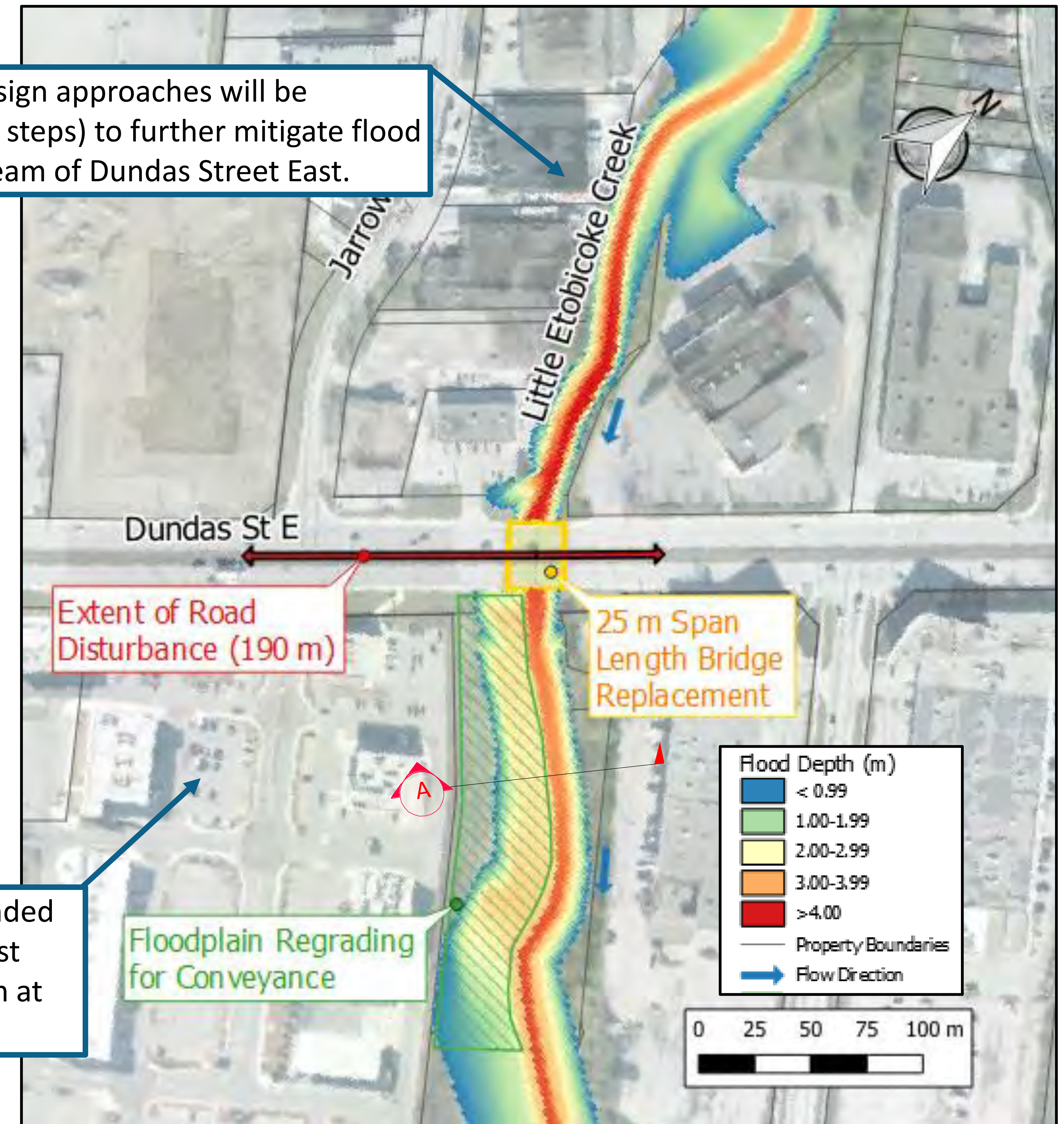


Conceptual Floodplain Conveyance Improvements (Section A)

- LEGEND**
- — — EXISTING GROUND
 - — — FLOODPLAIN CONVEYANCE IMPROVEMENTS
 - - - - EXISTING REGIONAL WATER LEVEL
 - — — DESIGN REGIONAL WATER LEVEL
 - — — PROPERTY BOUNDARY

The alternative solution mitigates the expanded floodplain downstream of Dundas Street East resulting from eliminating the spill upstream at Queen Frederica Drive.

Alternative design approaches will be explored (next steps) to further mitigate flood impacts upstream of Dundas Street East.

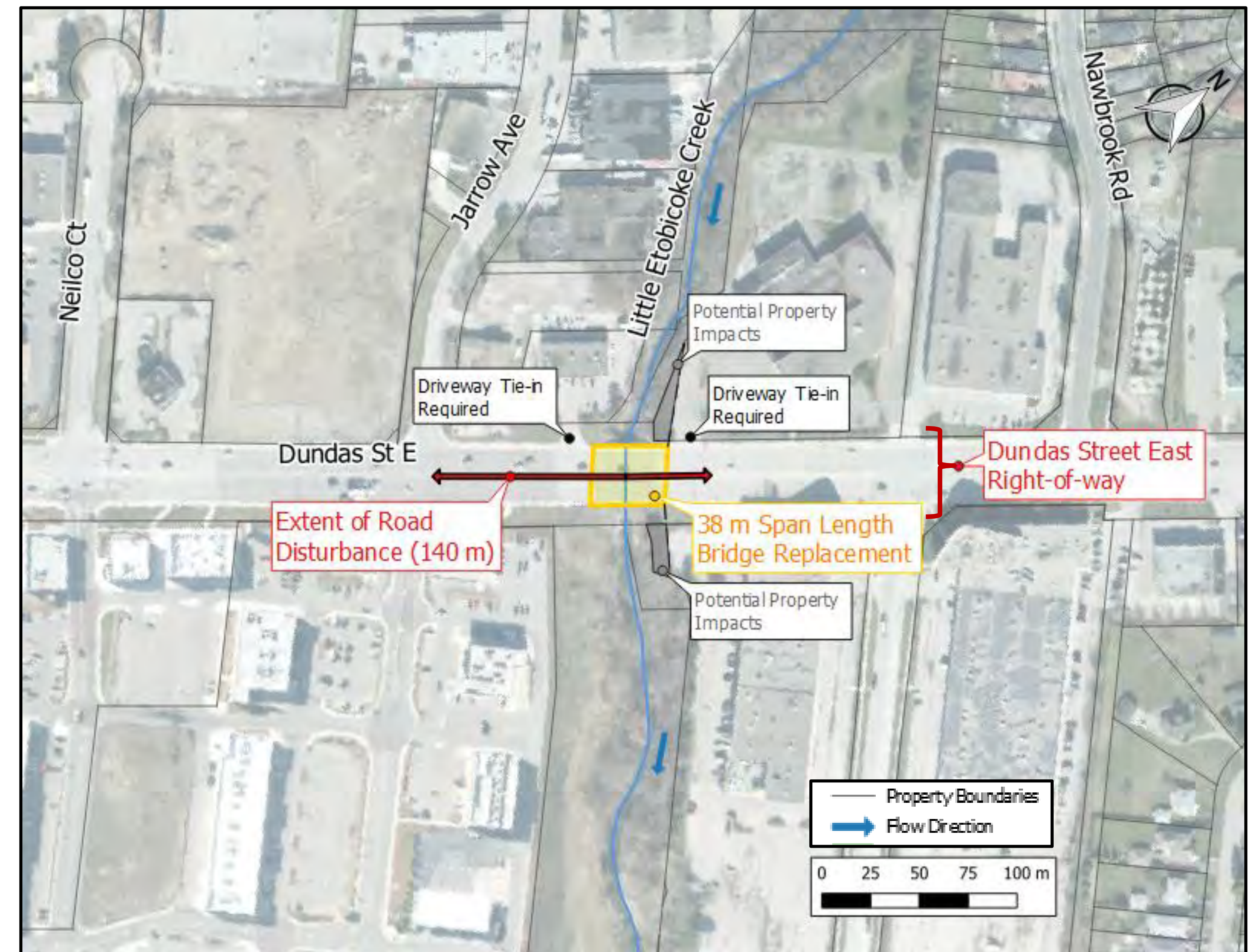


Option 2 – 38 m Span Length Bridge without Downstream Floodplain Conveyance Improvements

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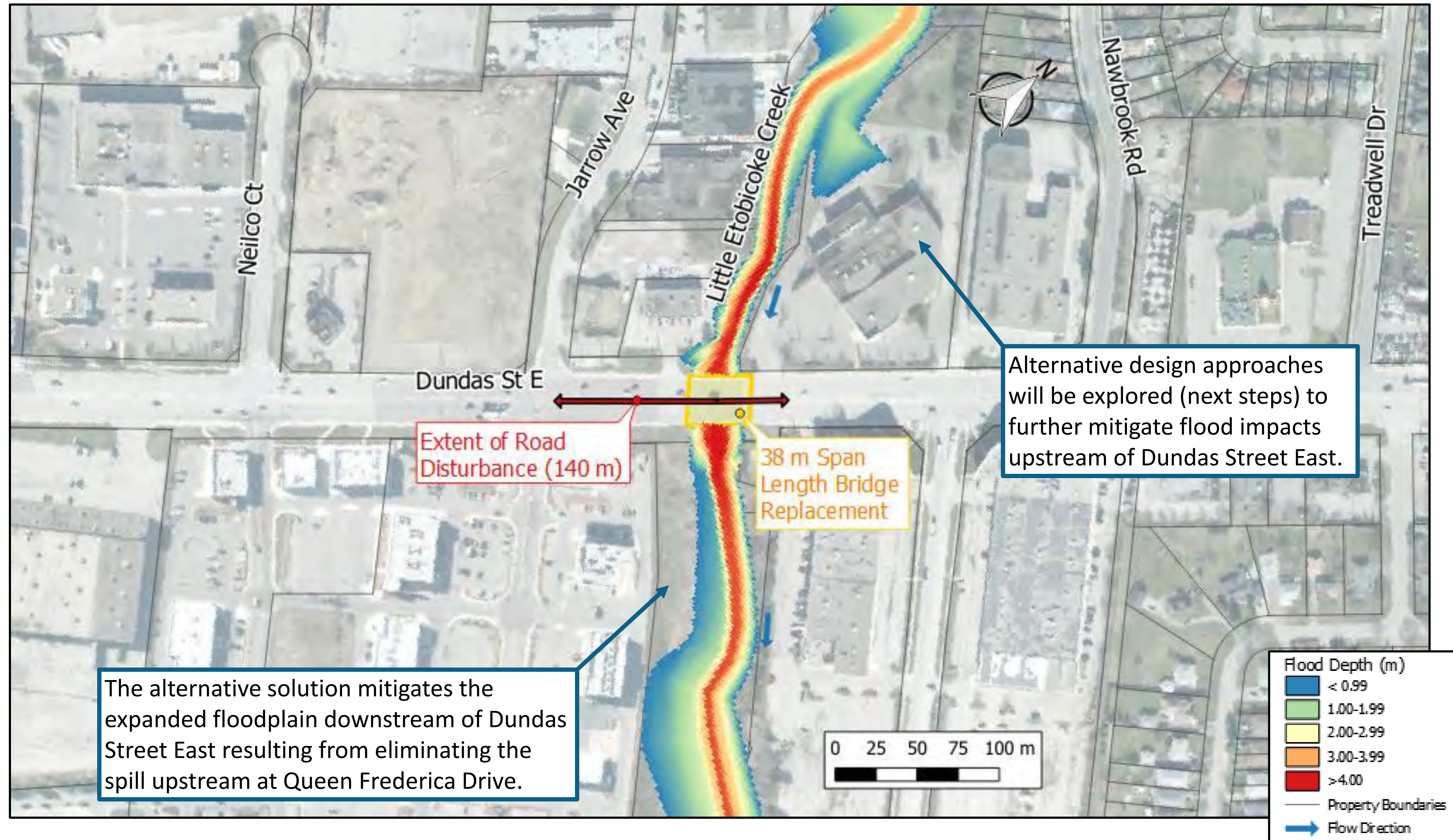
The 38 m length bridge option requires widening of the Little Etobicoke Creek valley at Dundas Street East to mitigate the expanded floodplain downstream.

- The bridge replacement option requires Dundas Street East to be raised 0.5 m at the crossing location. This elevation increase corresponds to 140 m of road disturbance.
- The Dundas Street East right-of-way width is being coordinated with the requirements of the Transit Project Assessment Process for the Dundas Bus Rapid Transit (BRT) Project.
- Driveways adjacent to the road disturbance are required to tie-into the raised Dundas Street East road elevation.
- Property acquisition is required to widen the Little Etobicoke Creek valley corridor at Dundas Street East.
- Potential watermain and sanitary sewers impacts associated with the bridge replacement are being coordinated with Peel Region.



Option 2 - 38 m Span Length Bridge without Downstream Floodplain Conveyance Improvements

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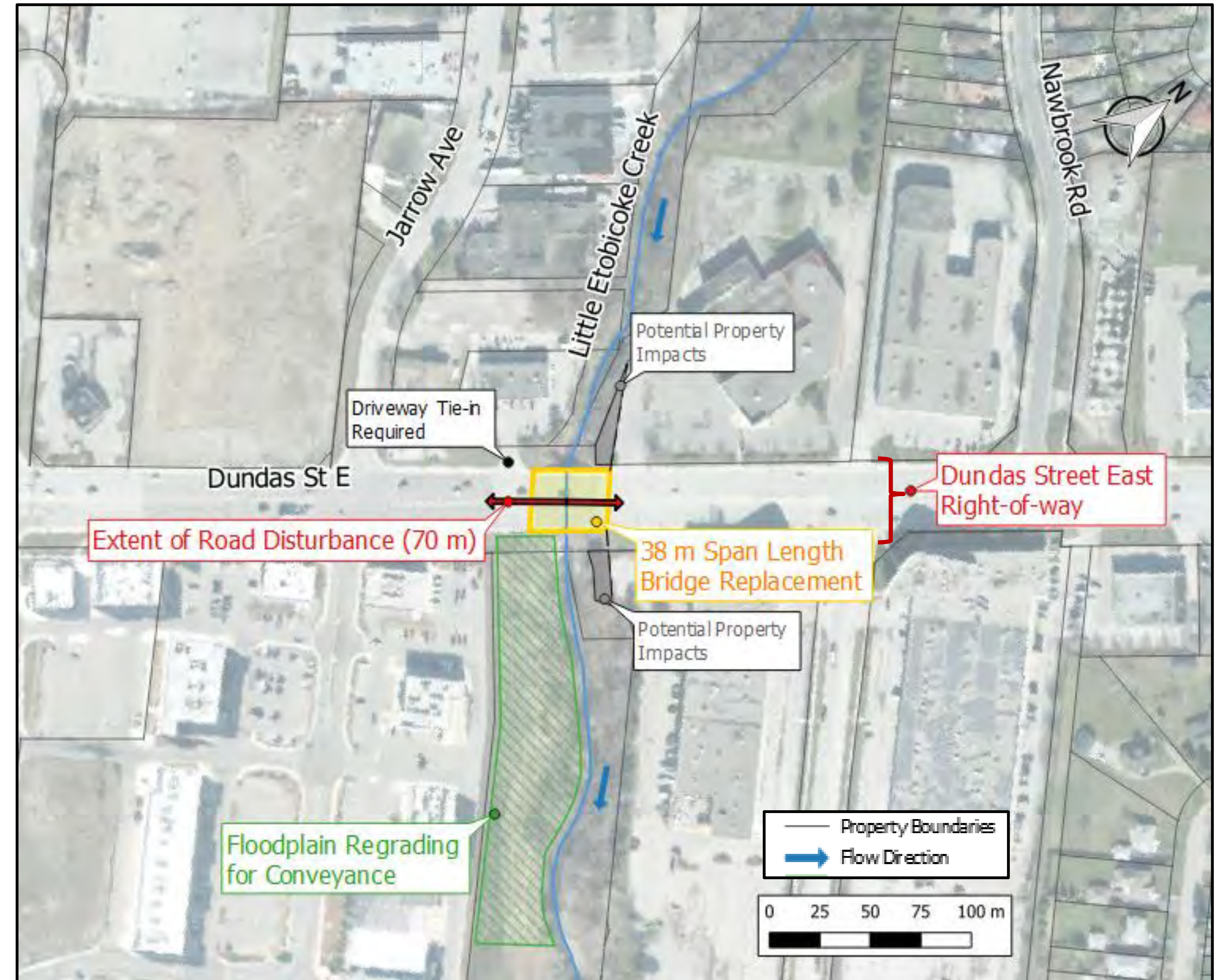


Option 3 – 38 m Span Length Bridge with Downstream Floodplain Conveyance Improvements

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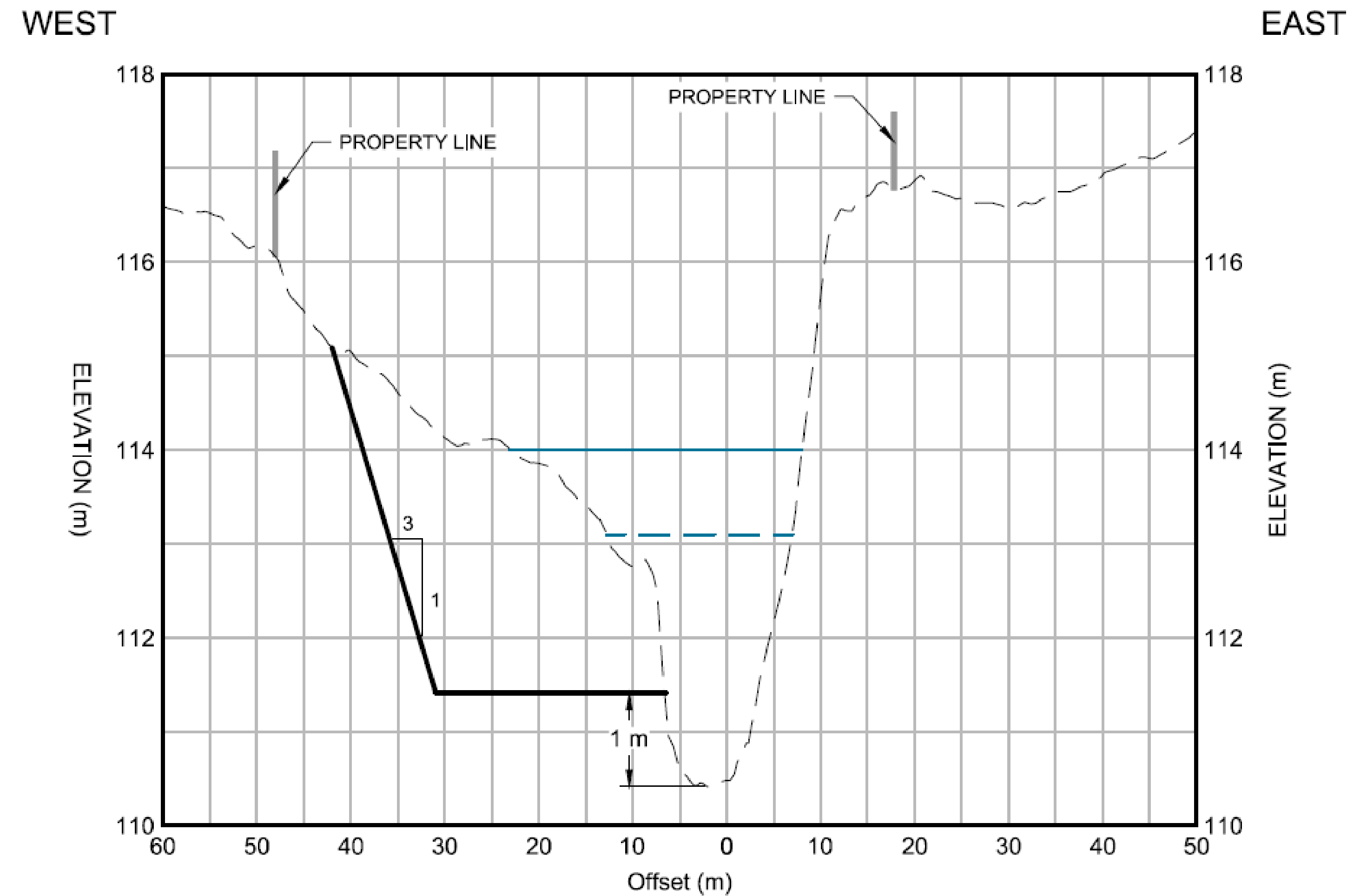
The 38 m length bridge option requires widening of the Little Etobicoke Creek valley at Dundas Street East to mitigate the expanded floodplain downstream.

- The bridge replacement option requires Dundas Street East to be raised 0.2 m at the crossing location. This elevation increase corresponds to a road disturbance length of 70 m.
- The Dundas Street East right-of-way width is being coordinated with the requirements of the Transit Project Assessment Process for the Dundas Bus Rapid Transit (BRT) Project.
- The driveways adjacent to the road disturbance are required to tie-into the raised Dundas Street road elevation.
- Property acquisition required to widen the Little Etobicoke Creek valley corridor at Dundas Street East.
- The floodplain conveyance improvements lower water levels at Dundas Street East during flood conditions which in return reduces the required road elevation increase.
- Potential watermain and sanitary sewers impacts associated with the bridge replacement are being coordinated with Peel Region.



Option 3 – 38 m Span Length Bridge with Downstream Floodplain Conveyance Improvements

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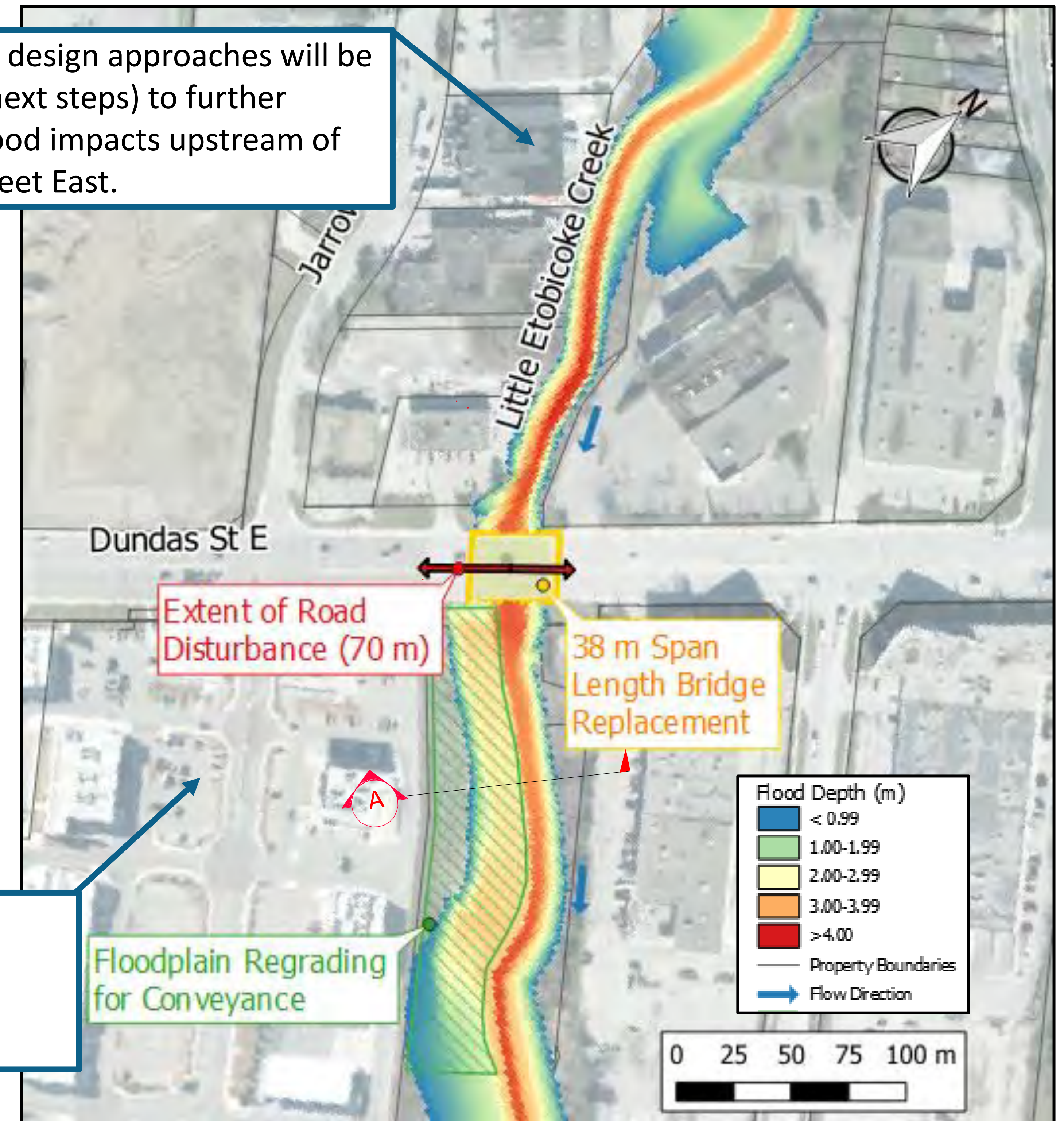


Conceptual Floodplain Conveyance Improvements (Section A)

- LEGEND**
- — — EXISTING GROUND
 - — — FLOODPLAIN CONVEYANCE IMPROVEMENTS
 - - - - EXISTING REGIONAL WATER LEVEL
 - — — DESIGN REGIONAL WATER LEVEL
 - — — PROPERTY BOUNDARY

The alternative solution mitigates the expanded floodplain downstream of Dundas Street East resulting from eliminating the spill upstream at Queen Frederica Drive.

Alternative design approaches will be explored (next steps) to further mitigate flood impacts upstream of Dundas Street East.



Alternative Solutions Summary

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Option No.	Bridge Span Length (m)	Floodplain Conveyance Improvements	Dundas Street East		High-Level Cost Estimate
			Elevation Increase (m)	Length of Disturbance (m)	
1	25	Yes	0.75	190	\$8,300,000
2	38	No	0.5	140	\$9,500,000
3	38	Yes	0.2	70	\$9,500,000

- The high-level cost estimates include bridge and road works, floodplain improvements (option 1 and 3), and property acquisition required to widen the Little Etobicoke Creek valley at Dundas Street East (option 2 and 3).
- The cost estimates do not include costs associated with impacts to the concurrent watermain and sanitary sewer projects by Peel Region located near Dundas Street East and Little Etobicoke Creek. Preliminary project coordination identified that Option No. 1 would likely result in less impacts to these concurrent infrastructure projects compared to the other options.
- The high-level cost estimates will be refined as the study progresses.

Technical Studies

The project team is conducting four technical studies within the expanded study area to identify constraints and opportunities that will inform the evaluation of the alternative flood mitigation solutions and the development of the preferred alternative solution as part of the next phases in the EA.

Geotechnical Study (Thurber 2021)

Assessment of existing conditions including:

- Slope stability
- Pavement conditions
- Preliminary recommendations for bridge foundation
- Recommended geotechnical drilling for design



Dundas Street East Bridge (Thurber 2021)

Fluvial Geomorphology Study (Matrix 2021)

Characterization of the Creek's geomorphology including:

- Channel stability and options for erosion mitigation
- Fish habitat considerations
- Channel design recommendations



Little Etobicoke Creek (Matrix 2021)

Stage 1 Archaeology Assessment (ASI 2021)

Assessment of the archaeological potential that:

- Confirmed no known archaeology sites within the expanded study area
- Identified areas where a Stage 2 assessment are required before construction



Little Etobicoke Creek (ASI 2021)

Natural Heritage Study (Matrix 2021)

Inventory of the natural heritage within the study area including:

- Woodlands
- Wildlife habitat
- Fish and fish habitat



Little Etobicoke Creek (Matrix 2020)

Evaluation Criteria

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The conceptual alternative solutions including the “Do Nothing” approach will be evaluated based on the following criteria. The criteria will be updated to include input received from the public, Indigenous communities, and other project stakeholders.

Technical	Economic	Environment	Social
<ul style="list-style-type: none">• Flood risk improvement• Construction approaches• Climate change improvements	<ul style="list-style-type: none">• Capital costs• Operation and maintenance• Urban development considerations	<ul style="list-style-type: none">• Ecology• Geomorphology• Archaeology	<ul style="list-style-type: none">• Policy considerations• Public input• Property acquisition• Public safety• Support of parallel planning initiatives

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Next Steps

Next Steps in the EA process include:

1. Integrate input from the public, Indigenous Communities, and other project stakeholders
2. Complete a detailed evaluation of alternative solutions in the expanded study area
3. Confirm preferred alternative solution for the original study area at Dixie Road and the expanded study area near Dundas Street East
4. Identify alternative design approaches for the preferred alternative solution
5. Public Information Centre No. 2
6. Advance the preliminary design of the preferred alternative design solution

COVID-19 Community Engagement Update: While we continue to respond to this pandemic, we are working hard to deliver essential services and projects to keep our City moving and safe. While we can't connect in-person at this time, we still want to connect! Please find above how we can connect on this project and for you to share your input.

Reminder

- Further ongoing study information is available at: <http://www.mississauga.ca/flooding>
- To sign up for the mailing list and/or to provide comments, please complete send an email to either of the contacts below
- Input will be received until **November 26, 2021**

Contact information:

Anthony Di Giandomenico, P.Eng.

Project Manager

City of Mississauga

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Andrew Doherty, P.Eng.

Consultant Project Manager

Matrix Solutions Inc.

adoherty@matrix-solutions.com

Phone: 226.314.1924

Welcome to the online Public Information Centre (PIC) No. 2

Dixie-Dundas Flood Mitigation Project

Schedule C Municipal Class Environmental Assessment (EA)

<http://www.mississauga.ca/flooding>



We acknowledge the lands which constitute the present-day City of Mississauga as being part of the Treaty and Traditional Territory of the Mississaugas of the Credit First Nation, The Haudenosaunee Confederacy, and the Huron-Wendat and Wyandot Nations. We recognize these peoples and their ancestors as peoples who inhabited these lands since time immemorial. The City of Mississauga is home to many global Indigenous Peoples.

As a municipality, the City of Mississauga is actively working towards reconciliation by confronting our past and our present, providing space for Indigenous Peoples within their territory, to recognize and uphold their Treaty Rights and to support Indigenous Peoples. We formally recognize the Anishinaabe origins of our name and continue to make Mississauga a safe space for all Indigenous Peoples.

Project Information and Contacts **DRAFT**²

If you would like to be included on the project mailing list and/or provide input, please complete the project comment form available at

<http://www.mississauga.ca/flooding>

and submit by email to either of the project contacts outlined on this slide.

Input from Public Information Centre No. 2 will be received until

June 23, 2023

Thank you for participating!

Contact information:

Anthony Di Giandomenico, P.Eng.

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City of Mississauga

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Phone: 905.615.3200 x 3491

Amanda McKay, P.Eng., PMP

Consultant Project Manager

Matrix Solutions Inc.

Email: amckay@matrix-solutions.com

Phone: 289.323.3780

PIC No. 2 Presentation Agenda

DRAFT³

1. Project Overview
2. Preferred Alternative Solution (Phase 2 of Municipal Class EA)
3. Alternative Design Concept Considerations
4. Alternative Design Concepts for the Preferred Alternative Solution (Phase 3 of the Municipal Class EA)
5. Evaluation of Alternative Design Concepts
6. Preliminary Preferred Design Solution and Next Steps



Little Etobicoke Creek (Matrix 2020)



Upstream of Dixie Road (Matrix 2020)

Project Overview

Project Overview

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The *Dixie-Dundas Flood Mitigation Feasibility Study* and Municipal Class Environmental Assessment process seeks solutions to address flooding from Little Etobicoke Creek to protect existing residences and businesses as well as to enable future growth.

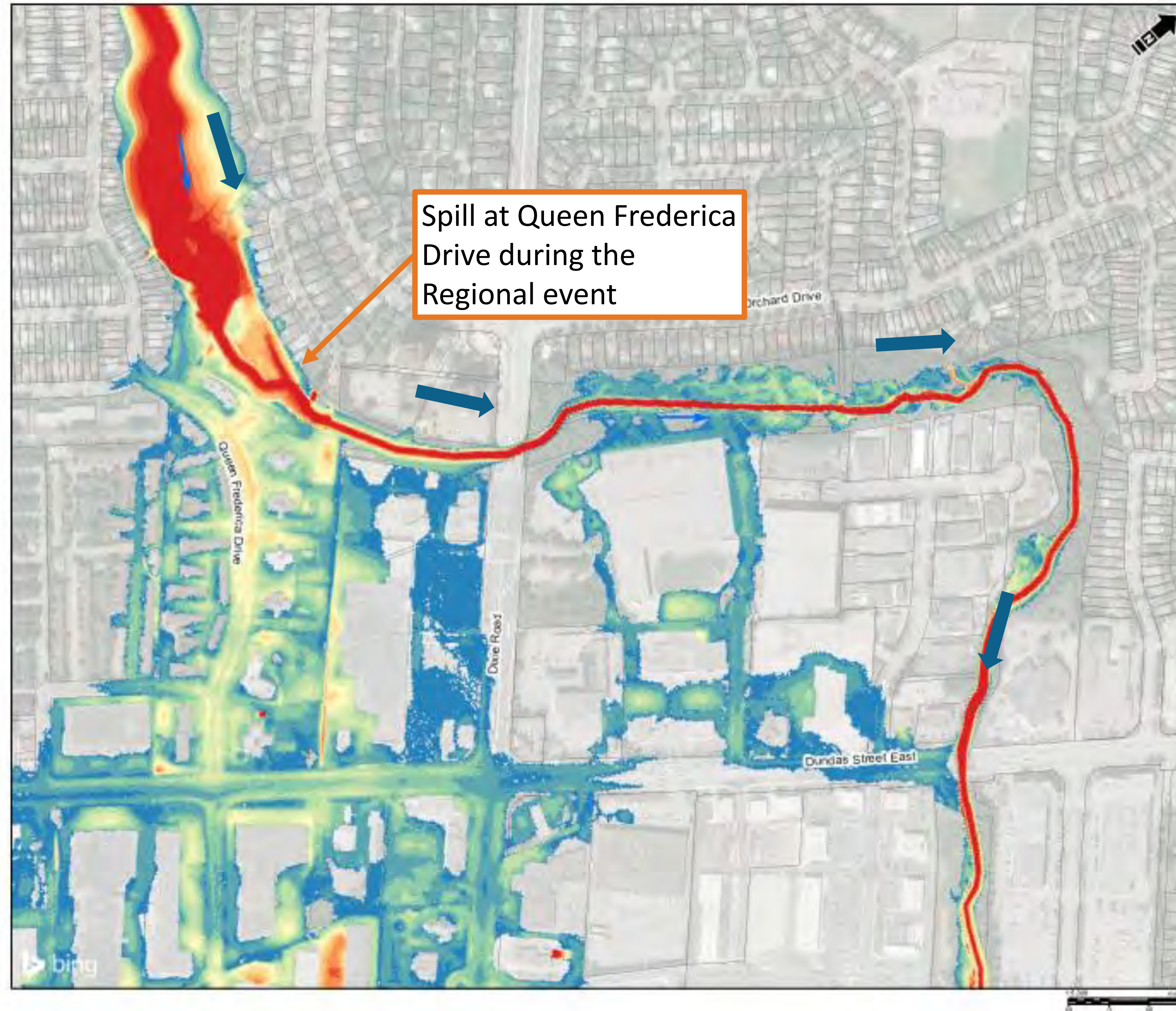
- Over 1,000 residential, commercial, and industrial properties between the Little Etobicoke Creek study area and the Queen Elizabeth Way are at risk of flooding.
- The City of Mississauga has an interest to intensify Dixie-Dundas to fulfill the vision of growth expressed in the *Dundas Connects Master Plan* (City of Mississauga 2018).

For more information on Dundas Connects, visit:

<https://www.mississauga.ca/projects-and-strategies/city-projects/dundas-connects/>

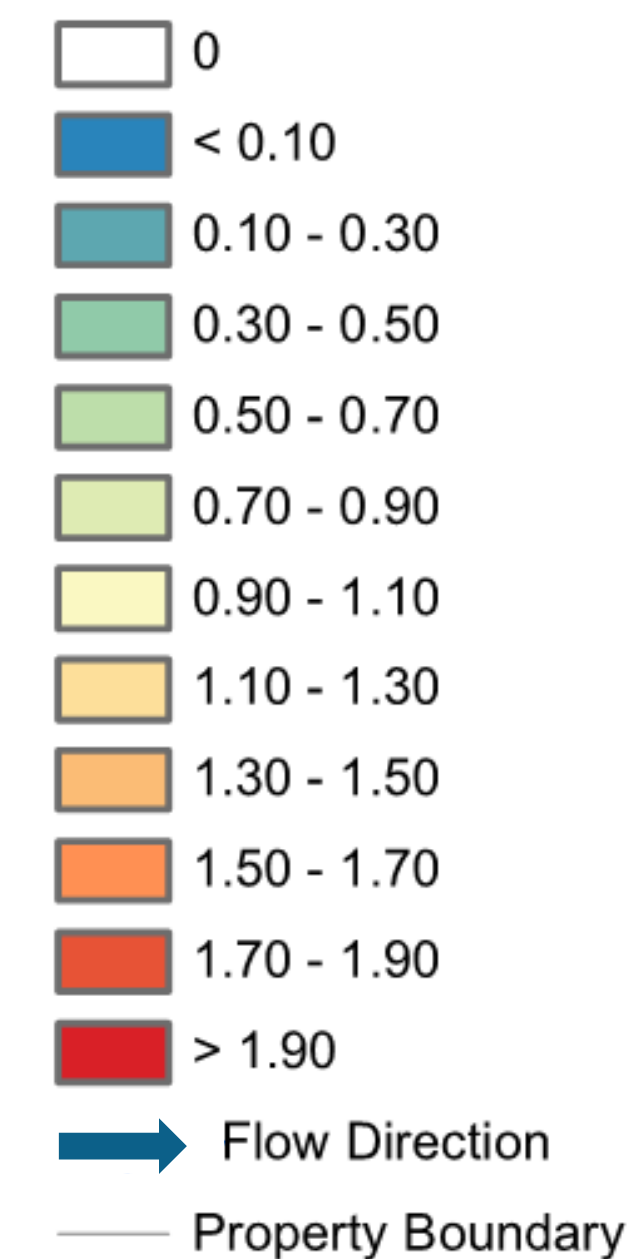


Dundas Street East at Queen Frederica Drive, July 2013 (Source: YouTube)



- Approximately 130 m³/s of the total 200 m³/s Regional event flow currently spills at Queen Frederica Drive and exits the Little Etobicoke Creek valley corridor.
- The Regional event (Hurricane Hazel (1954) for this study area), is established by the Ministry of Natural Resources and regulated by TRCA.

Existing Conditions Regional Flood Depths (m)



Summary Statement

Residences and businesses in the Dixie-Dundas community are currently highly vulnerable to flooding from Little Etobicoke Creek. *The Dixie-Dundas Flood Mitigation Feasibility Study and Class Environmental Assessment* will assess solutions to provide flood protection to residences and business as well as to enable future growth.



Address riverine and urban flooding issues



Protect and enhance the natural environment



Build resilient and adaptable solutions



Plan and design feasible infrastructure solutions

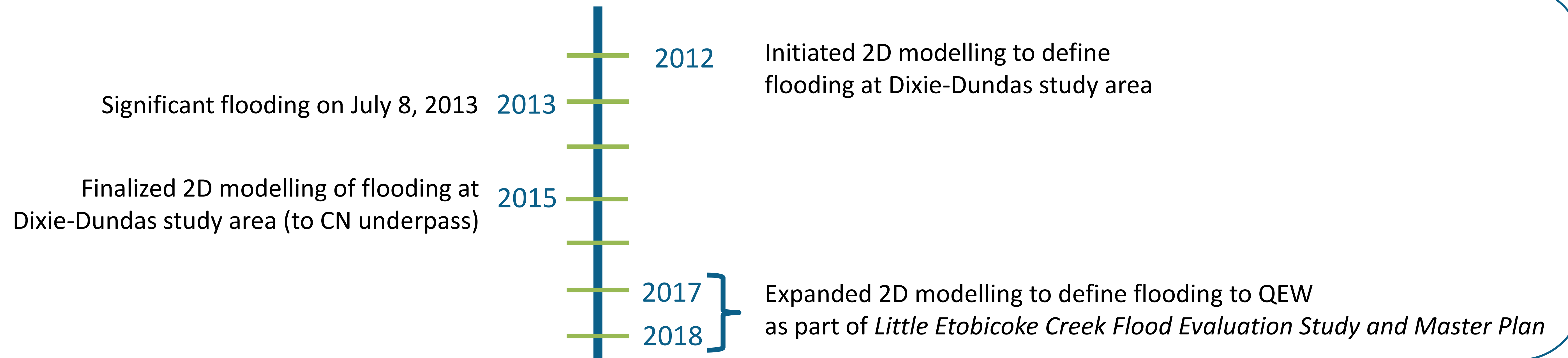


Enable future growth and development

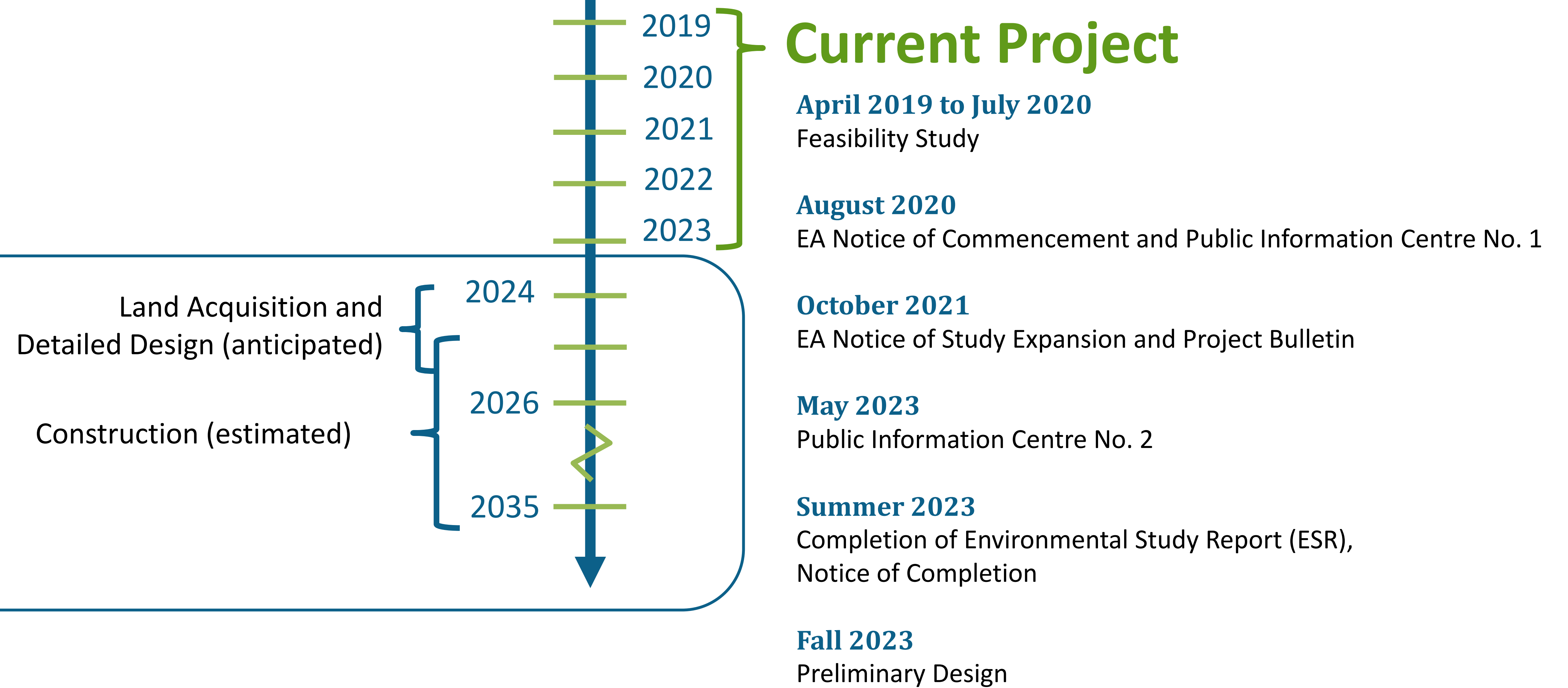
Project Timeline

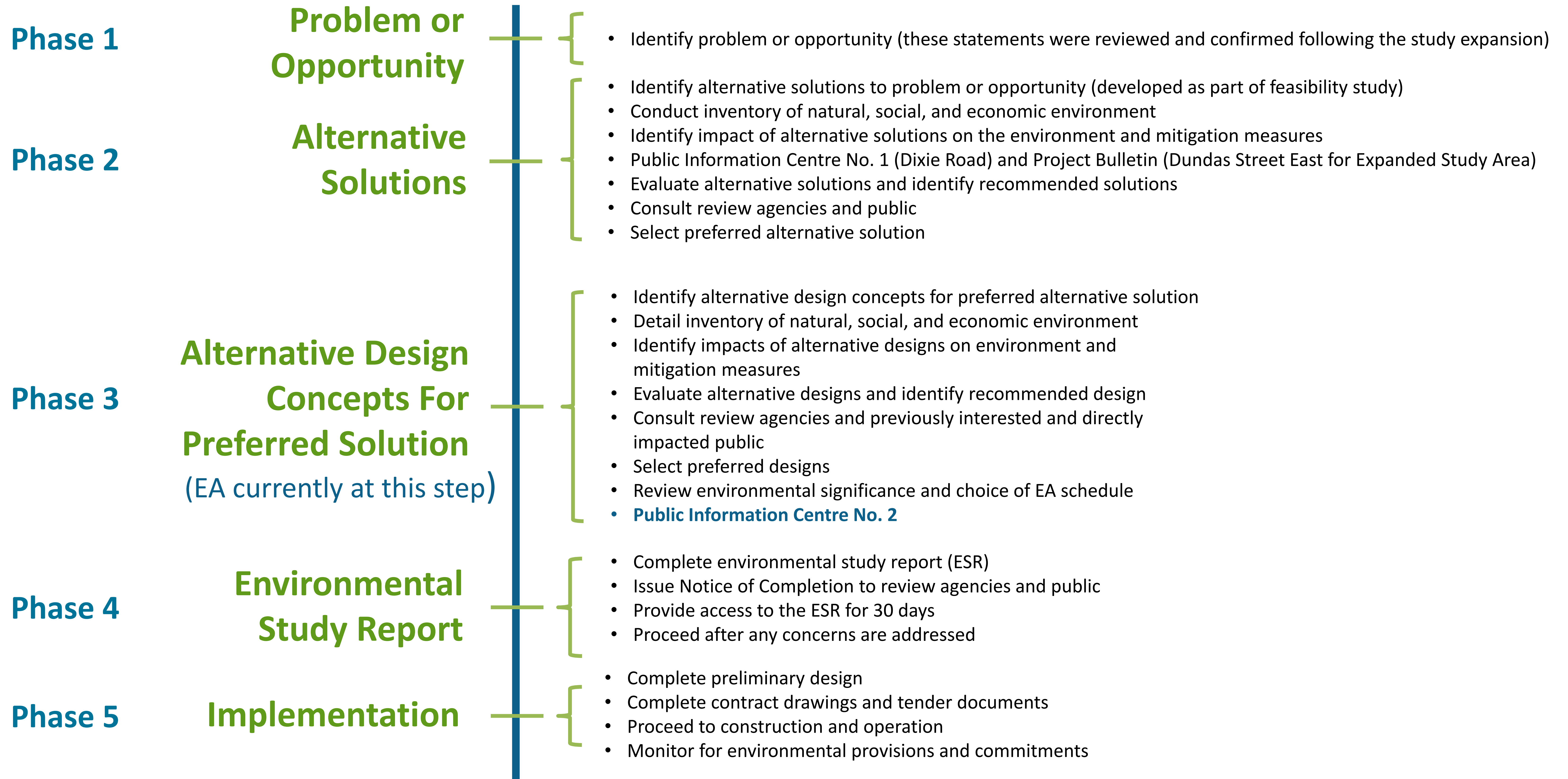
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Background



Future Projects





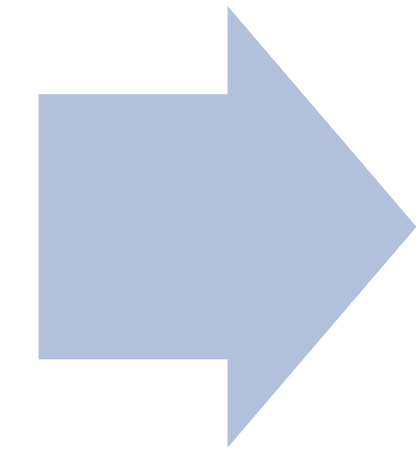
Outline of Public Information Centres (PICs)

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We are here

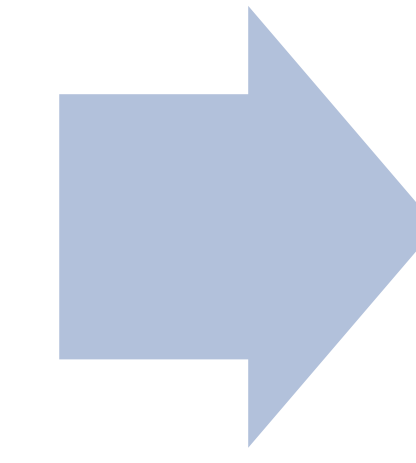
PIC No. 1

- Introduce the project and the identified problem
- Describe the environmental context
- Present alternative solutions to address the problem
- Outline evaluation criteria
- Provide opportunity for interested parties to offer input



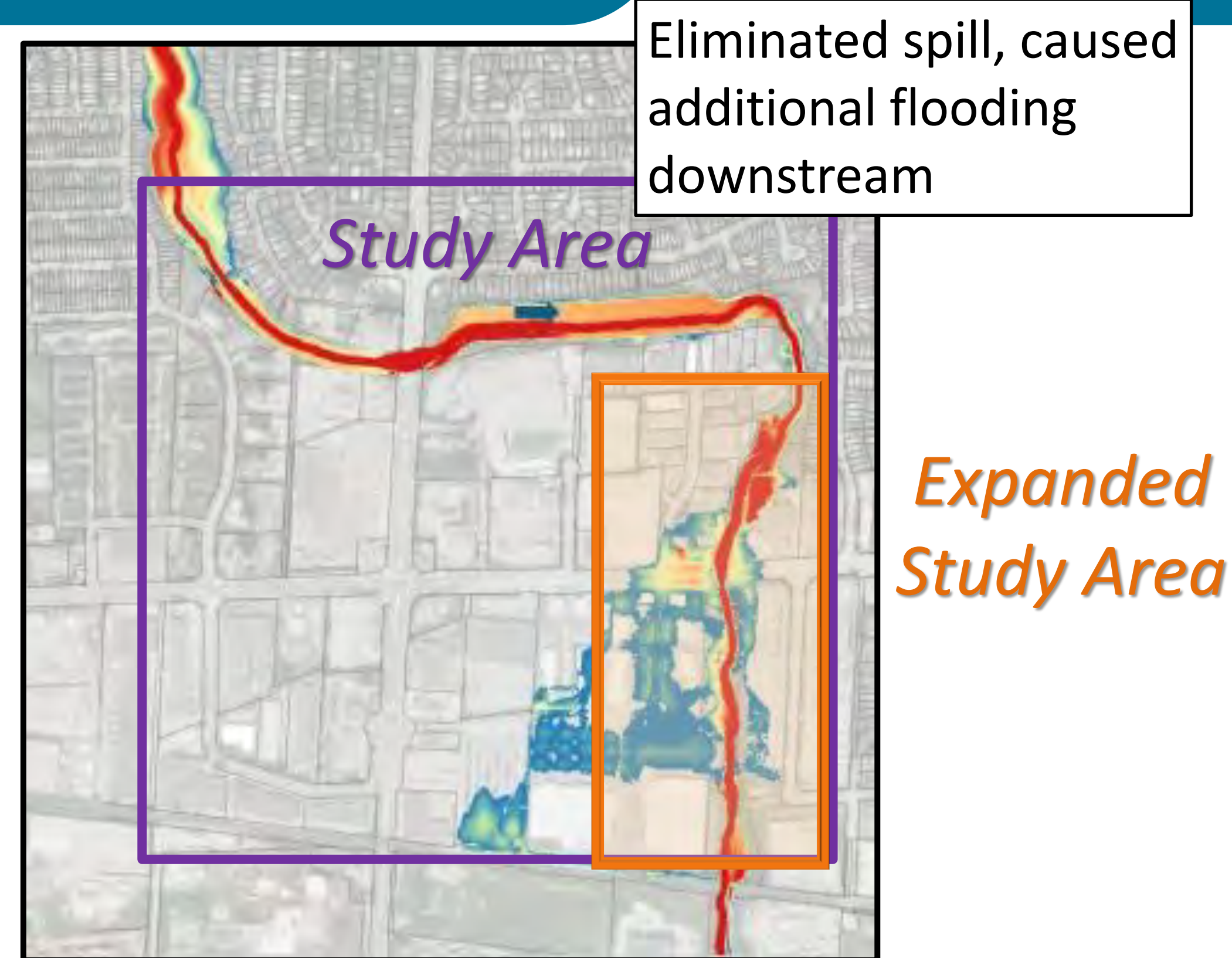
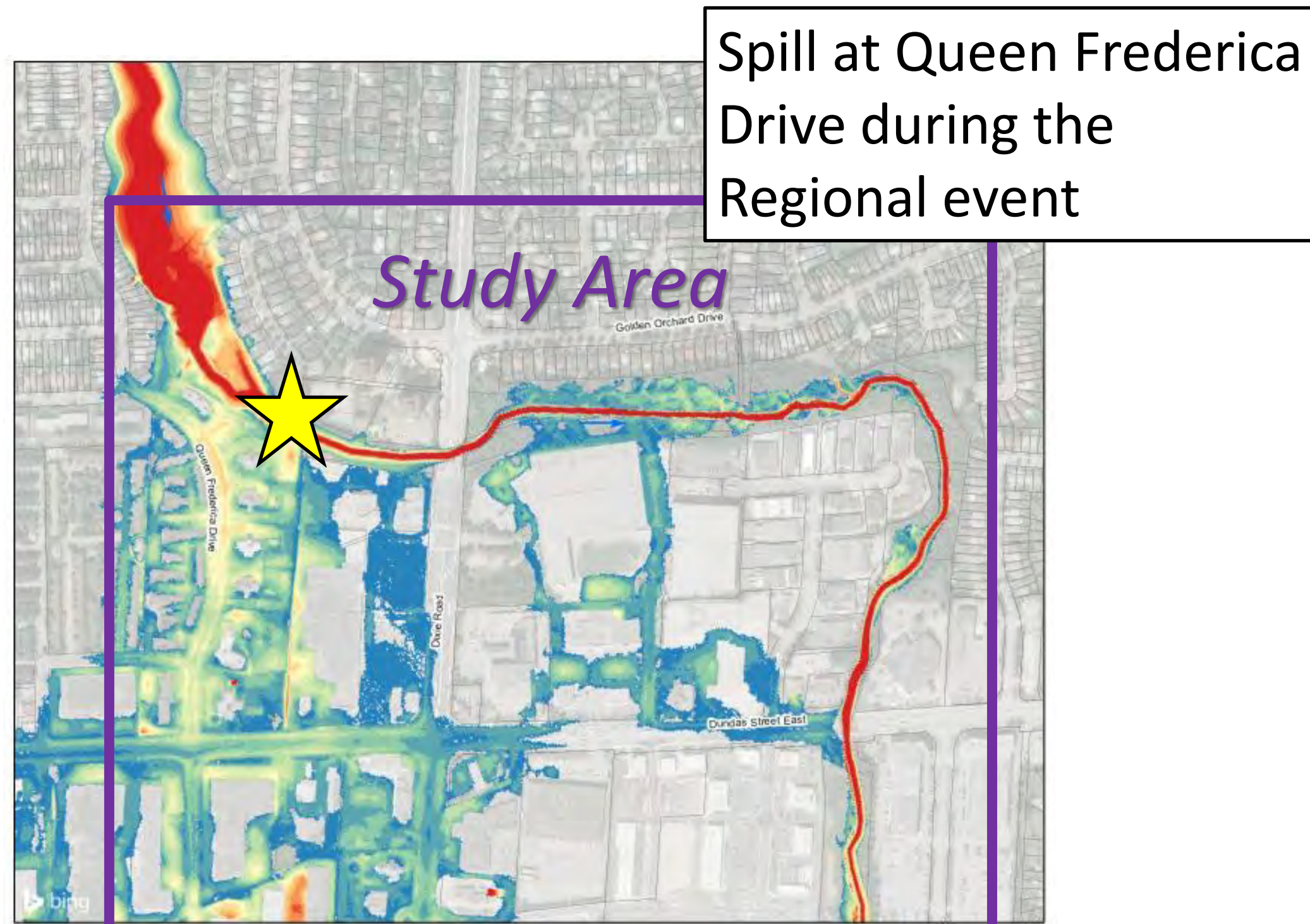
Project Bulletin

- Outline the need for an expanded study area
- Describe the environmental context
- Present alternative solutions to address the problem
- Outline evaluation criteria
- Provide opportunity for interested parties to offer input



PIC No. 2

- Present the evaluation and preferred alternative solutions
- Present and evaluate alternative design concepts
- Provide opportunity for interested parties to offer input



Alternative Solutions and Evaluation

Dixie Area + Dundas Area

Alternative Solutions – Recap

12
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Dixie Area

Each alternative represents a different approach to keep flow within the Little Etobicoke Creek valley corridor combined with a Dixie Road Bridge replacement

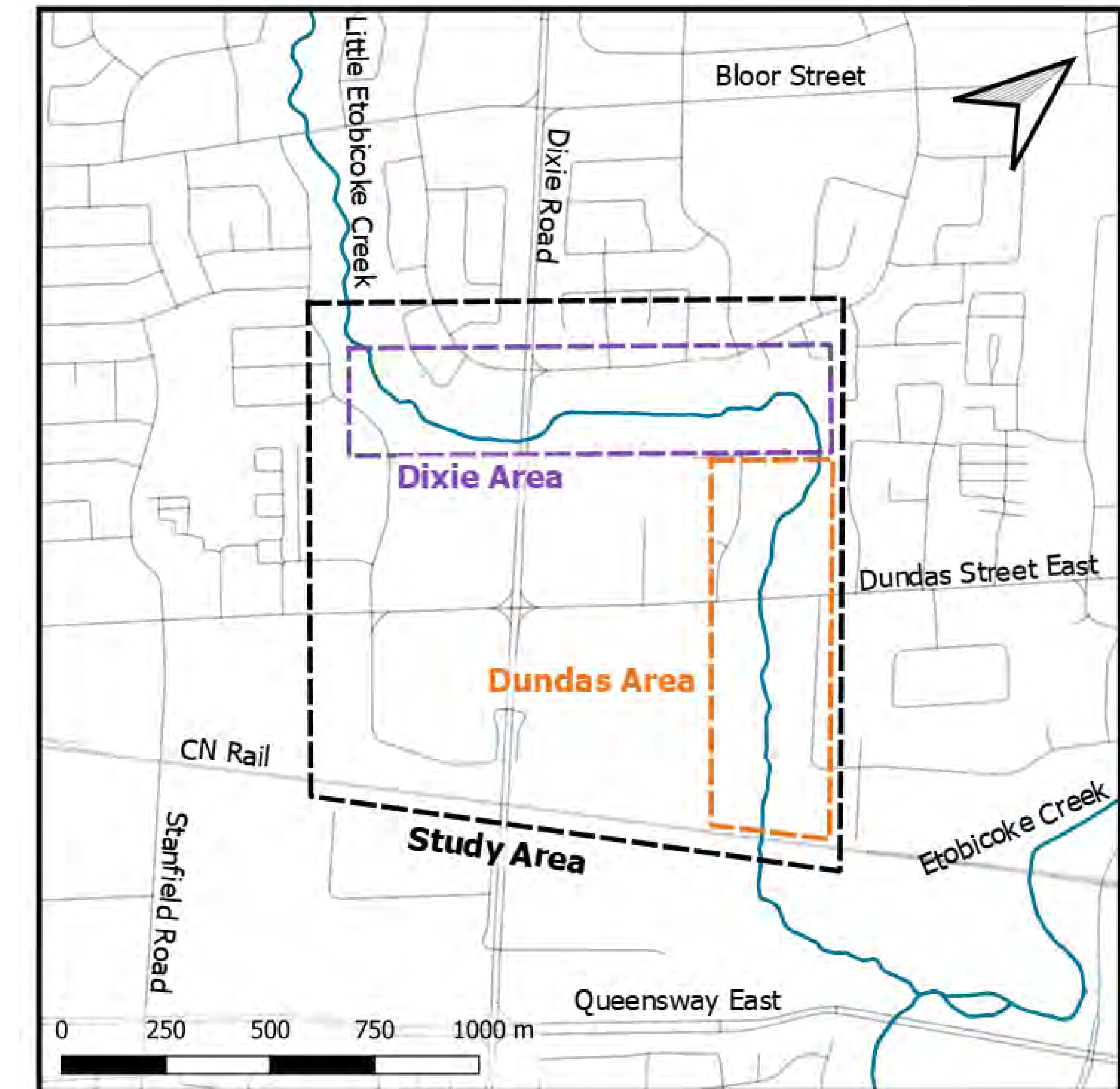


- Alternative Solution 1 – Improved Conveyance with Minimized Footprint
- Alternative Solution 2 – Improved Conveyance by Making Room for the Creek
- Alternative Solution 3 – Flood Containment with Mitigation for Upstream Impacts
- Alternative Solution 4 – Do Nothing

Dundas Area

Each alternative represents a replacement of the existing Dundas Street Bridge to keep flow within the Little Etobicoke Creek valley corridor

- Alternative Solution 1 – 25 m Single Span Bridge with Downstream Floodplain Conveyance Improvements
- Alternative Solution 2 – 38 m Double Span Bridge without Downstream Floodplain Conveyance Improvements
- Alternative Solution 3 – 38 m Double Span Bridge with Downstream Floodplain Conveyance Improvements
- Alternative Solution 4 – Do Nothing



Technical

- Flood risk improvement
- Urban drainage
- Erosion potential
- Construction approaches
- Climate change resiliency

Economic

- Capital costs
- Operation and maintenance
- Urban development
- Municipal servicing

Environment

- Aquatic ecology
- Terrestrial ecology
- Geomorphology

Social

- Planning and policy
- Public input
- Property impacts
- Public disruption
- Parks and recreational amenities
- Cultural heritage/archaeology
- First Nations

A preferred solution was selected using this evaluation criteria in collaboration with key stakeholders (i.e., City of Mississauga, Region of Peel, and TRCA). The preferred solution was advanced through Phase 3 of the EA – Alternative Design Concepts.

Feedback from Public Consultation **DRAFT**



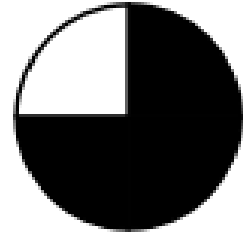

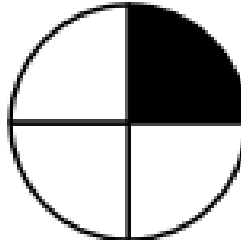
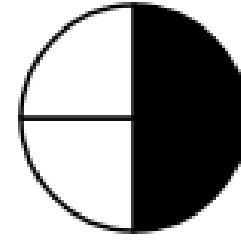

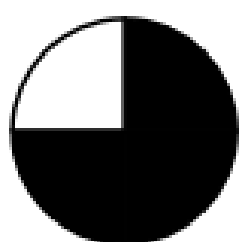
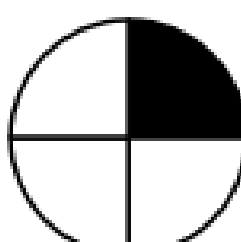
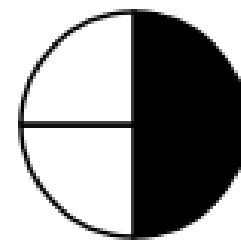
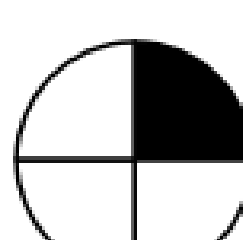

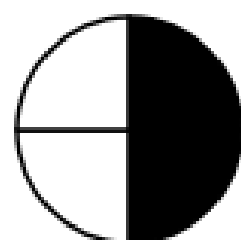
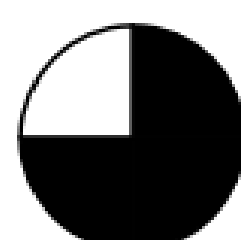
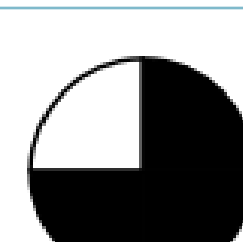
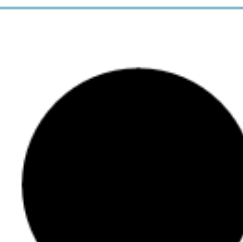
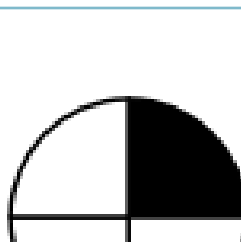
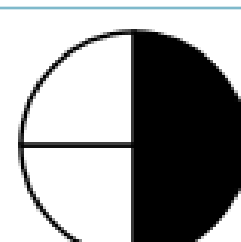
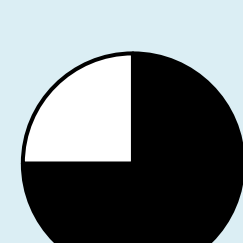
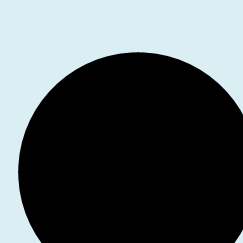
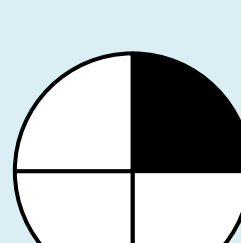
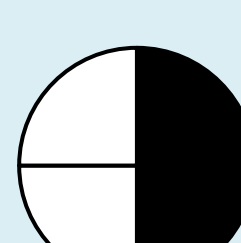
Little Etobicoke Creek (Matrix 2019)



Downstream of Dixie Road (Matrix 2019)

- The online PIC No. 1 and Project Bulletin had over 200 views.
- The comments received to date from the public expressed support for a flood mitigation solution at Dixie-Dundas.
- Project collaboration and input provided by the Toronto and Region Conservation Authority and Region of Peel.
- Cambium Indigenous Professional Services continues to lead project engagement with Indigenous communities.
- Ongoing consultations with interested landowners.
- Ongoing coordination with other City of Mississauga initiatives including the BRT.

Evaluation of Alternative Solutions – Dixie Area

Criteria	Alternative Solution 1 Improved Channel Conveyance with Minimized Footprint	Alternative Solution 2 Improved Channel Conveyance by Making Room for the Creek	Alternative Solution 3 Flood Containment with Floodplain Landform	Alternative Solution 4 Do Nothing
Technical				
Economic				
Environment				
Social				
Evaluation Outcome				

The evaluation of the alternative solutions recommends *Improved Conveyance by Making Room for the Creek*.

Improved Conveyance by Making Room for the Creek

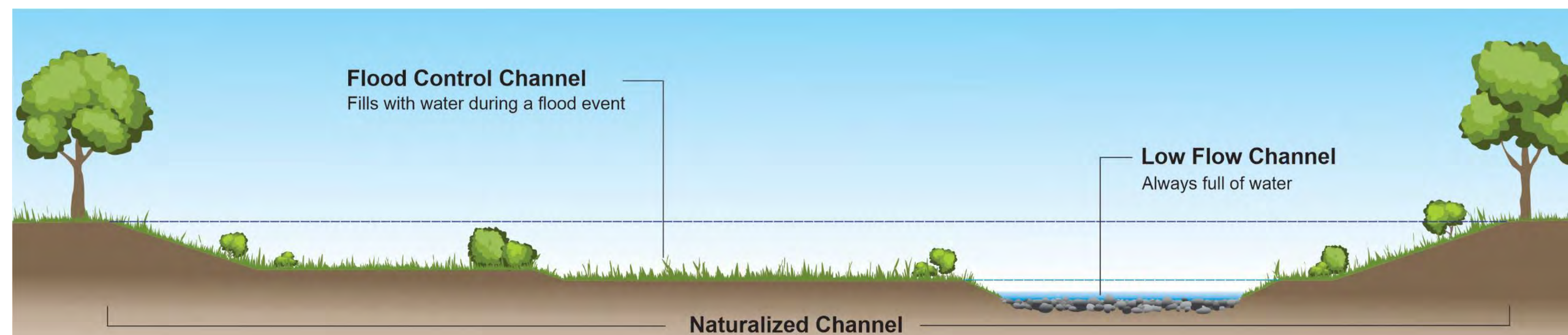
Design Summary

- incorporates natural channel design concepts
- creates a wider and better-connected floodplain
- replaces Dixie Road bridge with larger span structure

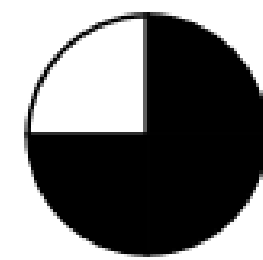
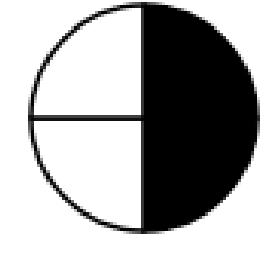

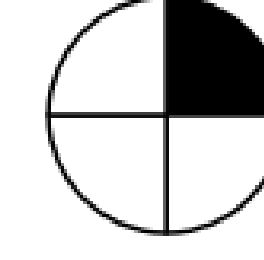
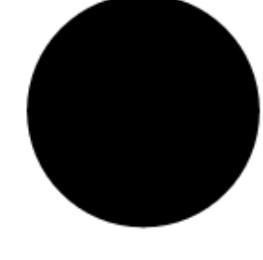
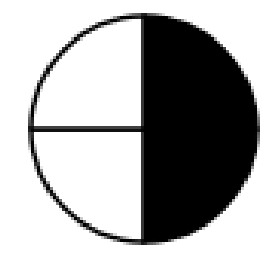
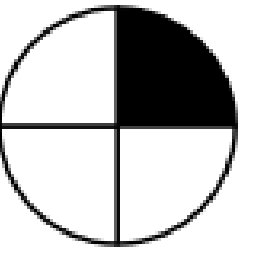
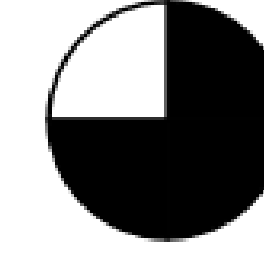
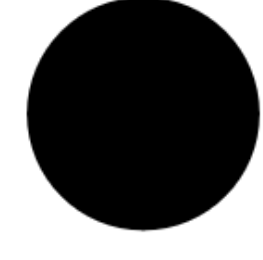
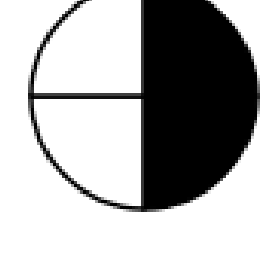
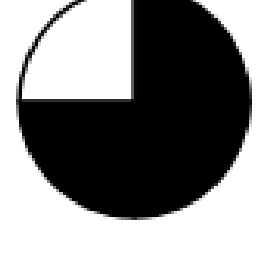
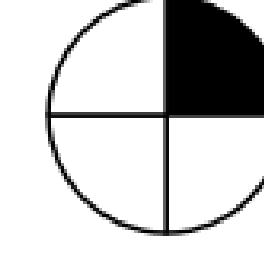
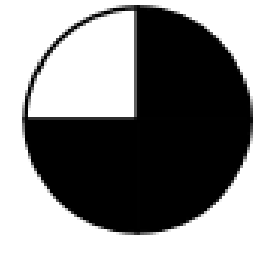
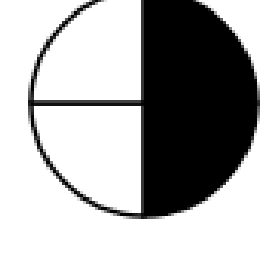
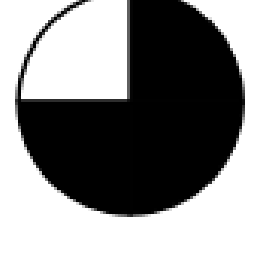
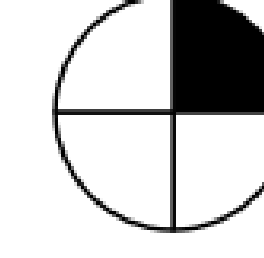
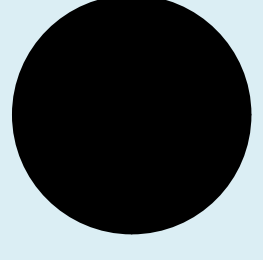
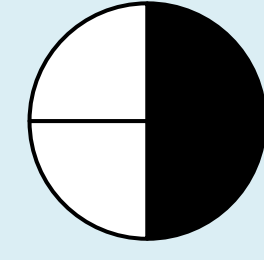
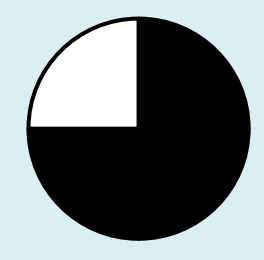
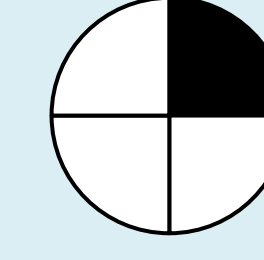
Evaluation Summary

- **Technical:** eliminates the spill at Queen Federica Drive, reduces waters levels upstream of Dixie Road, reduces erosion during typical flow conditions, provides resiliency to protect against climate change
- **Economic:** enables future removal of the special policy area, similar cost to Alternative #1 and less than Alternative #3 with reduced road raise and lower cost bridge replacement, some impacts to municipal servicing requires relocations
- **Environment:** most opportunity for long-term improvements to fish habitat and terrestrial-aquatic interface, improves sediment transport processes
- **Social:** most opportunity for recreational and trail improvements, aligns with planning/policy initiatives, some property acquisition required, some disruption during construction at Dixie Road anticipated

Alternative #2 is preferred because it contains the spill, provides the most improvements from a social and long-term environmental perspective compared to the other alternatives, and is a similar cost to Alternative #1.



Evaluation of Alternative Solutions – Dundas Area DRAFT ¹⁷

Criteria	Alternative Solution 1 25 m Single-span Bridge with Downstream Floodplain Conveyance Improvements	Alternative Solution 2 38 m Double-span Bridge without Downstream Floodplain Conveyance Improvements	Alternative Solutions 3 38 m Doubles-span Bridge with Downstream Floodplain Conveyance Improvements	Alternative Solution 4 No Mitigation to Increased Flows
Technical				
Economic				
Environment				
Social				
Evaluation Outcome				

The evaluation of the alternative solutions recommends *25 m Single Span Bridge with Downstream Floodplain Conveyance Improvements*

25 m Single Span Bridge with Downstream Floodplain Conveyance Improvements

Design Summary

- replaces Dundas Street bridge with a wider, single span bridge
- creates a wider and better-connected floodplain downstream of Dundas Street

Evaluation Summary

- **Technical:** Contains the flood within the valley corridor, with lower water levels downstream of bridge than Alternative #2. Least challenging to implement with ongoing infrastructure initiatives on Dundas Street.
- **Environment:** Single span provides the most ecological and geomorphic benefits compared to Alternatives #2 and #3. Provides some terrestrial connectivity improvement downstream.
- **Economic:** Least expensive bridge replacement with less O&M than Alternatives #2 and #3. Enables future removal of the Special Policy Areas, allows future urban development plans to move ahead. Least impact to concurrent infrastructure projects.
- **Social:** Some impacts to adjacent property owners and businesses during construction, requires temporary easements and some property acquisition.



Existing Dundas Street East Crossing (Matrix 2021)

Alternative #1 is preferred because it effectively conveys the Regional flow, with the most improvements from an environmental perspective and the lowest cost, with similar social impacts as Alternatives #2 and #3

Phase 2 - Alternative Solutions Recap **DRAFT**

Dixie Area

Alternative #2 – Improved Conveyance by Making Room for the Creek

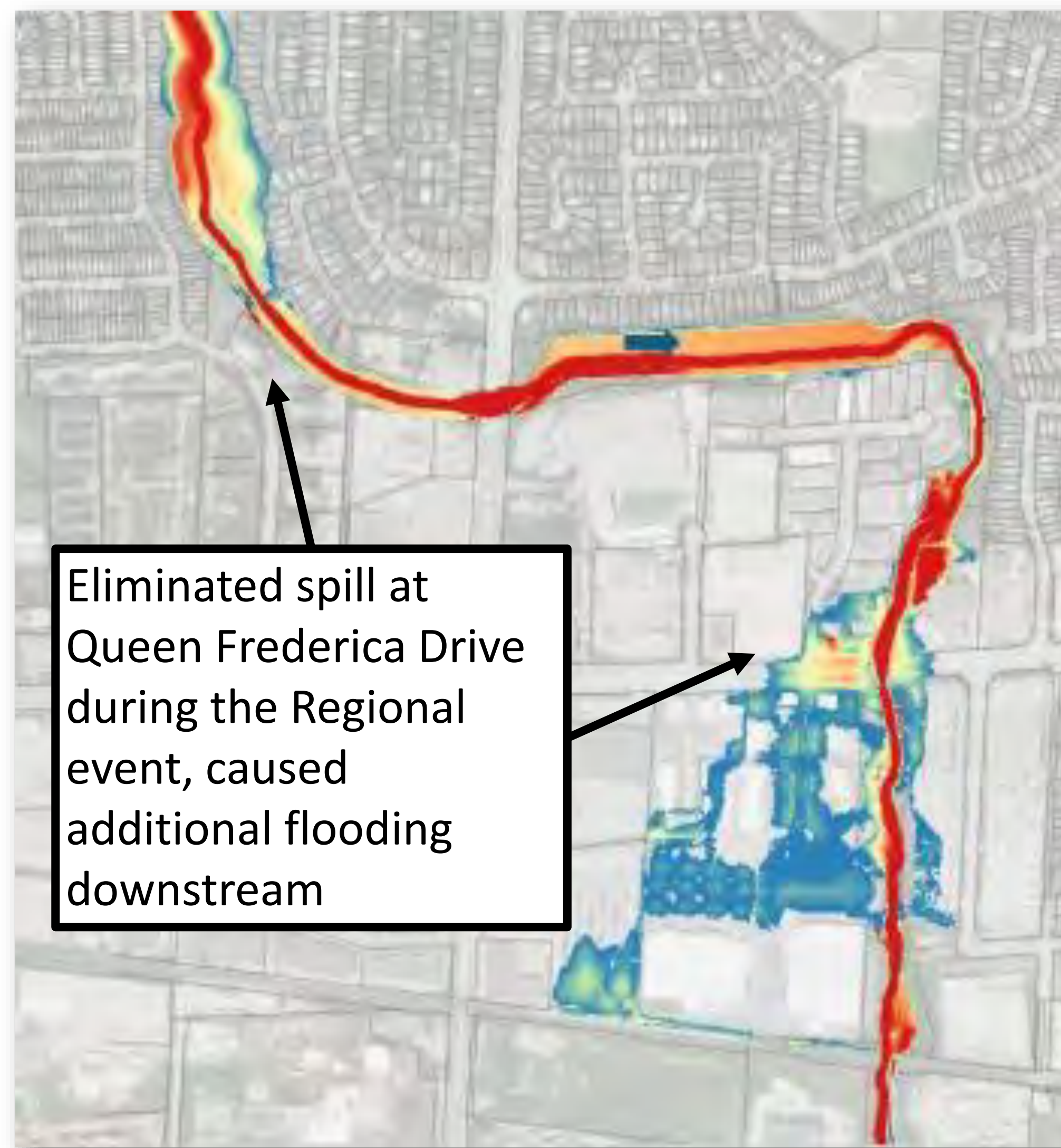
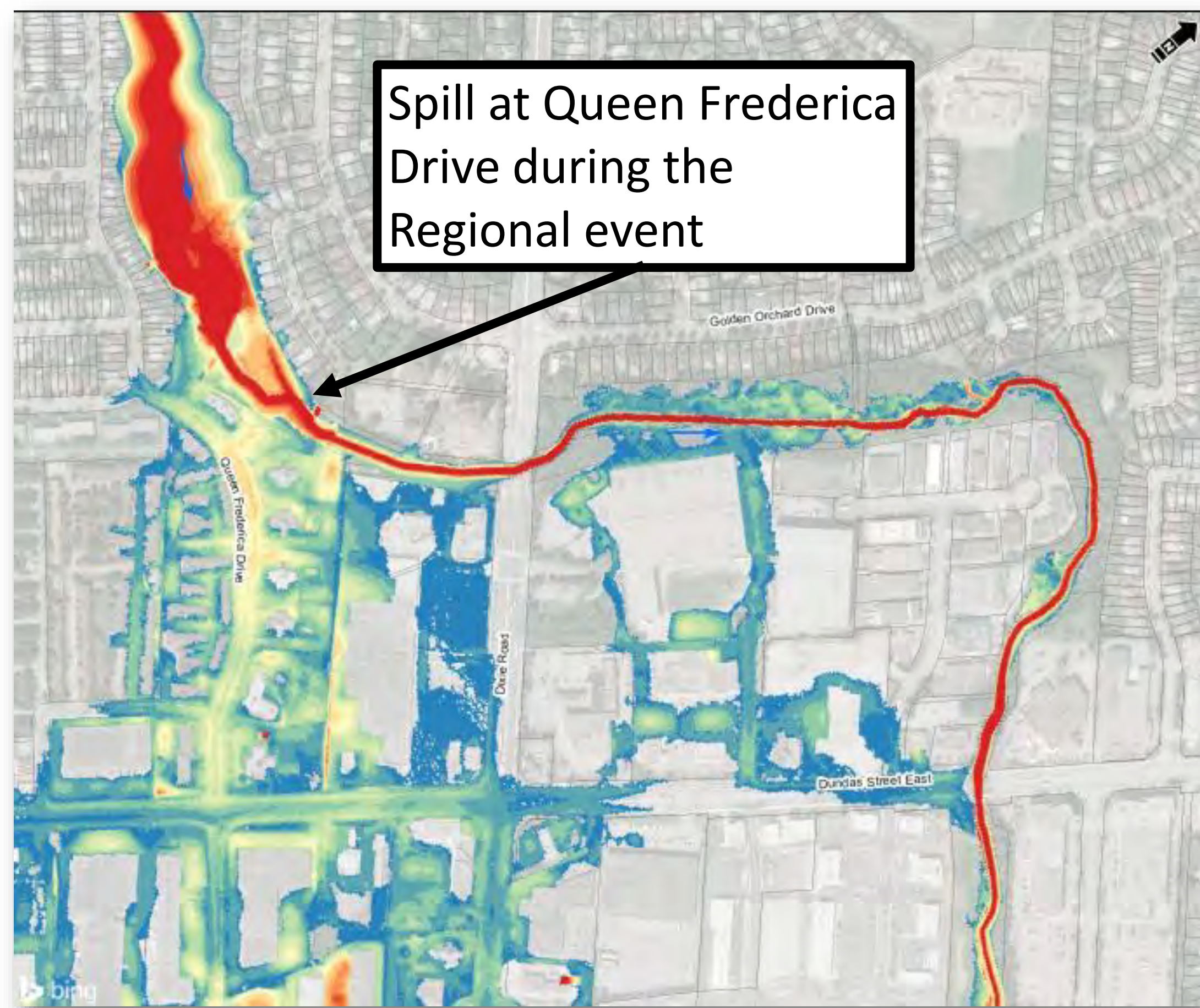


Dundas Area

Alternative #1 – 25 m Single Span Length with Downstream Floodplain Conveyance Improvements



Preferred Alternative Solution



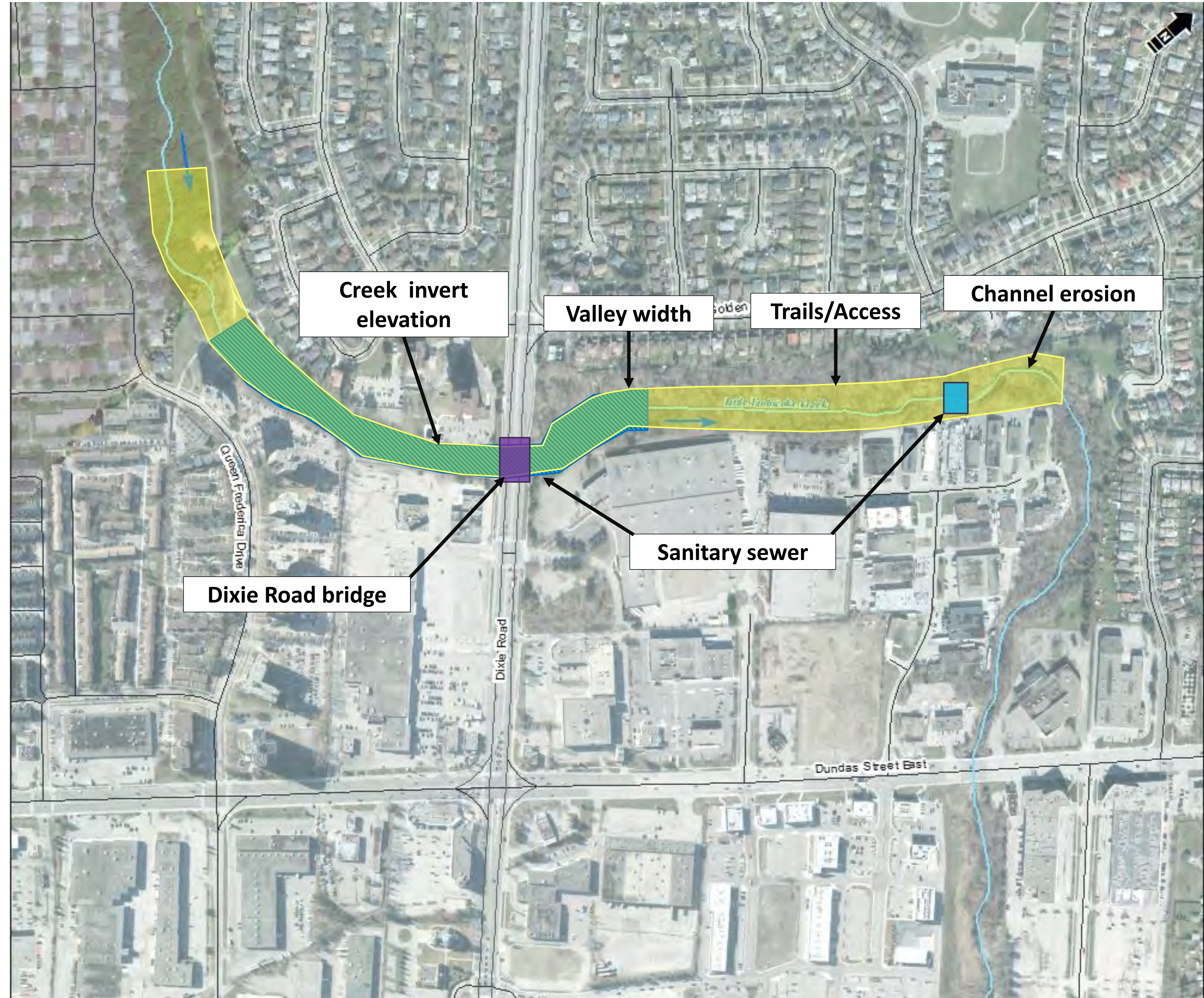
*slight differences upstream are due to timestep export

Considerations for Alternative Design Concepts

Design Considerations – Dixie Area **DRAFT**

Key design considerations for the Dixie Area included:

- creek invert elevation
- municipal servicing
- Dixie Road bridge span
- minimizing Dixie Road raise
- optimizing valley widths
- minimizing property impacts
- trail/access improvements
- addressing existing channel erosion

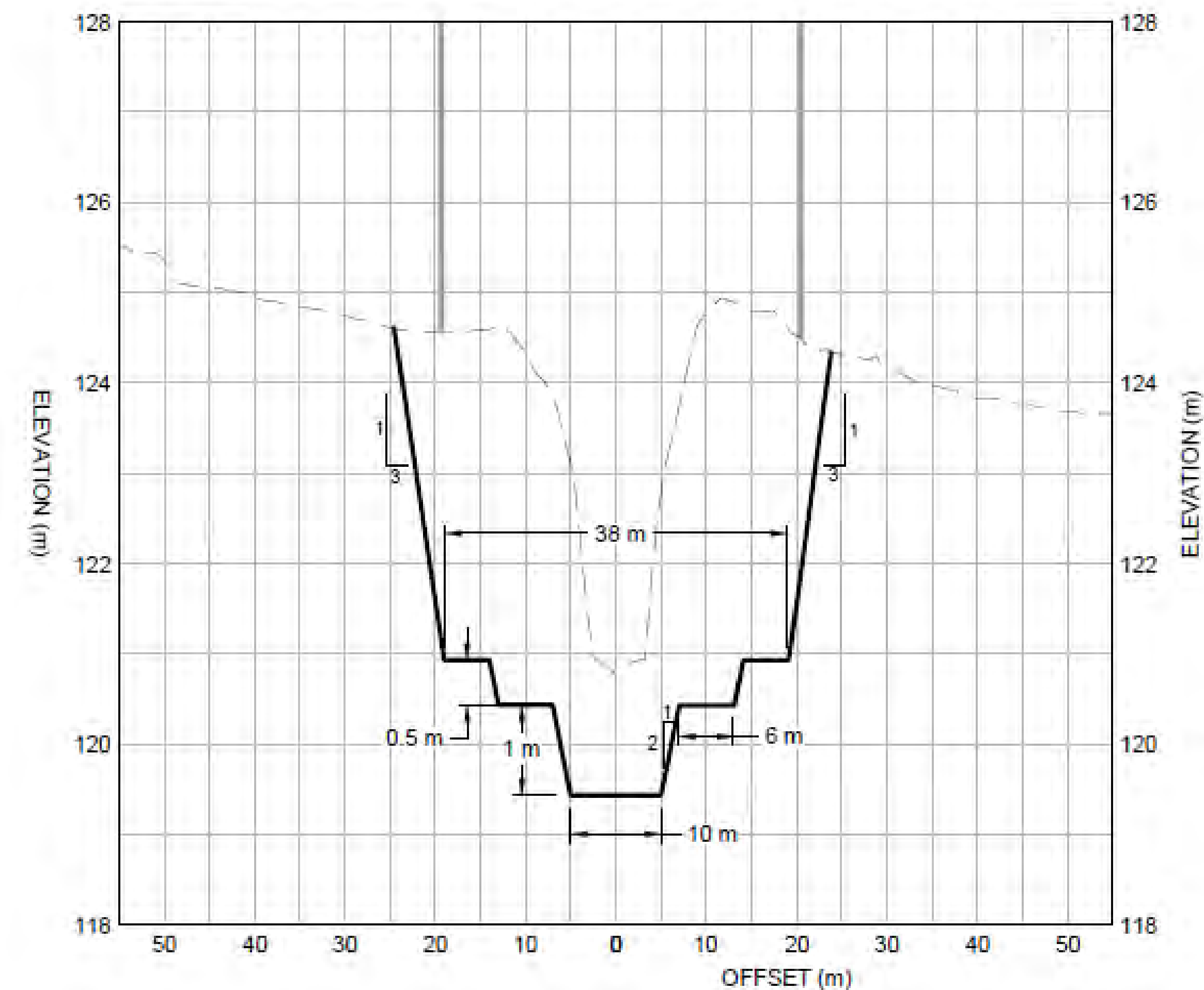


Creek Invert Elevation – Dixie Area **DRAFT** ²²

Component	Brief Description	Carried Forward/ Screened Out	Comments
Channel Elevation at Dixie Road	Maintain the existing channel invert elevation at Dixie Road	Screened Out	Assessed the amount of channel lowering required through Dixie Bridge to achieve the free board objective (0.5 m) at the spill point; a minimum channel lowering of 0.5 m is required.
	Lowering the channel invert elevation 0.5 m – 1.0 m at Dixie Road	Carried Forward	



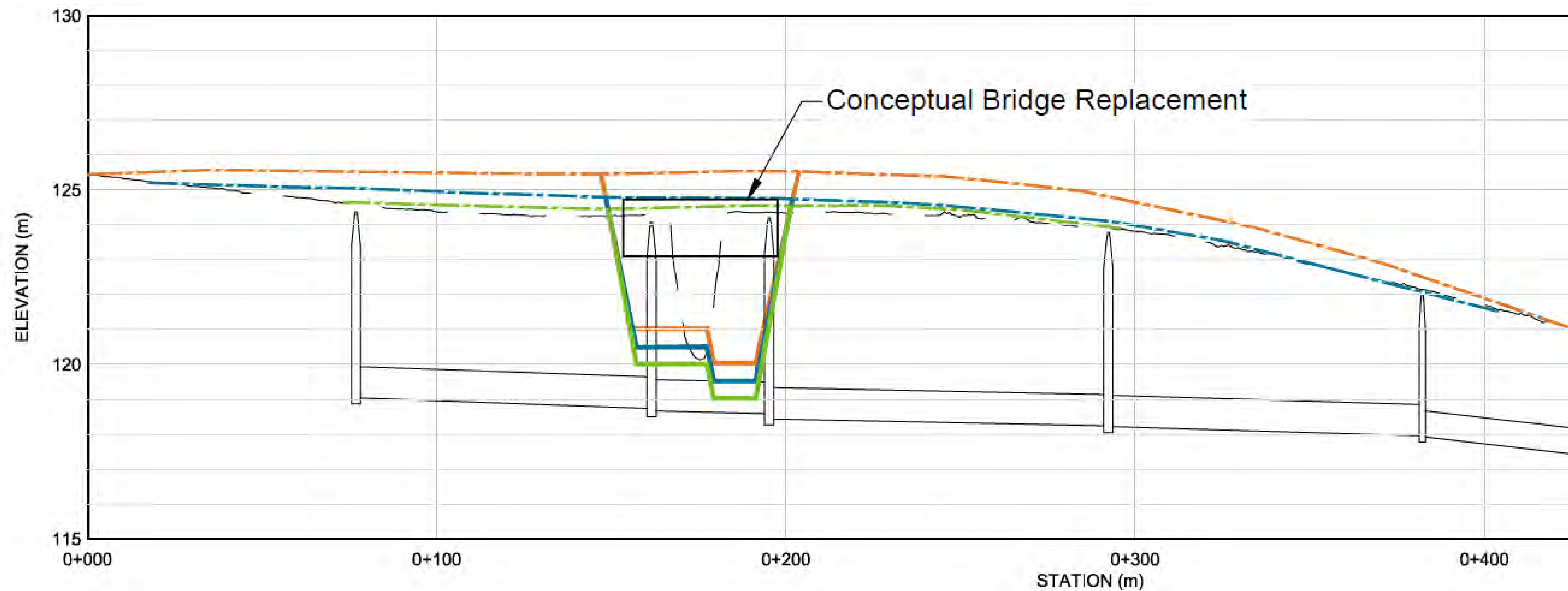
Dixie Road Bridge Crossing (Matrix 2020)



Cross-section immediately upstream of Dixie Road

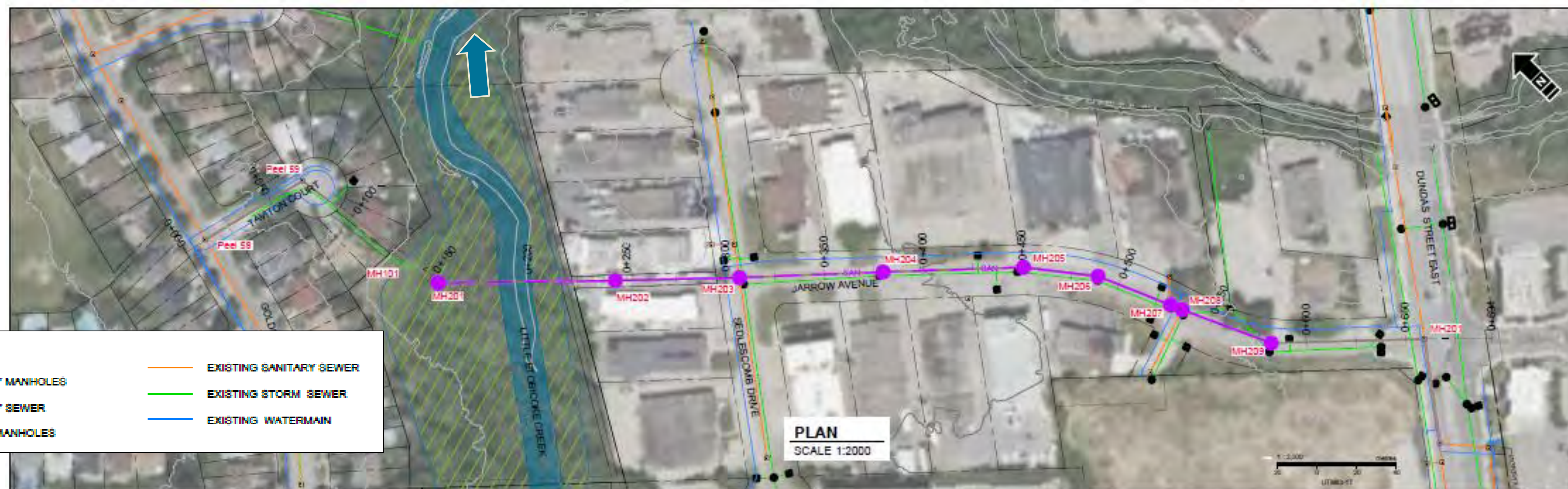
Municipal Servicing – Dixie Area **DRAFT**

Component	Brief Description	Carried Forward/ Screened Out	Comments
Municipal Servicing 900 mm Sanitary Trunk Sewer at Dixie Road	Leave 900 mm sanitary trunk sewer at Dixie Road in place	Screened Out	Current cover on the sewer is less than 0.6 m and lowering the creek elevation by a minimum of 0.5 m necessitates relocation.
	Lower 900 mm sanitary trunk sewer at Dixie Road	Carried Forward	



Municipal Servicing – Dixie Area **DRAFT**

Component	Brief Description	Carried Forward/ Screened Out	Comments
Municipal Servicing 450 mm Sanitary Sewer at Jarrow Avenue	Leave current 450 mm sanitary sewer in place (open to environmental risk) and provide protection	Screened Out	The Region does not consider keeping the sewer as is for an undetermined amount of time as a feasible option. Limits the opportunity for improved floodplain and channel design.
	Realign sewer through floodplain and connect to lowered Dixie Road sanitary trunk sewer	Screened Out	Requires additional lowering of 900 mm diameter sanitary trunk sewer. Issues with future maintenance and access within the floodplain. Logistics are more difficult and expensive than other available options.
	Lower 450 mm sanitary trunk sewer and connect to Jarrow Ave near Dundas Street	Carried forward	Most feasible solution, maintains the same sewer alignment, supported by the Region.



Dixie Road Bridge Span – Dixie Area **DRAFT**

Component	Brief Description	Carried Forward/ Screened Out	Comments
Dixie Road Bridge + Channel Lowering	45 m, double span bridge with lowered 0.5 m invert	Evaluated as Design Concept	Carried forward from the Phase 2 alternatives
	38 m, double span bridge with lowered 1.0 m invert	Evaluated as Design Concept	Minimum span that would meet hydraulic requirements
	45 m, double span bridge with lowered 1.0 m invert	Evaluated as Design Concept	Phase 2 alternative with lowered 1.0 m channel invert
	50 m, triple span bridge with lowered 1.0 m invert	Evaluated as Design Concept	Technically feasible triple span bridge option
	55 m, triple span bridge with lowered 1.0 m invert	Screened Out	No additional benefits and higher cost than 50 m, triple span bridge option



Dixie Road Bridge

Additional considerations for all alternative design concepts

Trails/Access Improvements

- Landscaping will restore construction disturbance including tree/vegetation removal, particularly to Willowcreek Park, and contribute to long-term improvements to fish habitat and terrestrial-aquatic interface.
- Enhancing the City's multi-use pathway by:
 - Formalizing the existing trail downstream (east) of Dixie Road connecting to Fieldgate Drive
 - Enhancing the multi-use pathway upstream (west) of Dixie Road
 - Potentially connect the upstream and downstream pathways through the Dixie Road bridge opening (~2.5 m height required, approve water level tbd).

Additional Municipal Servicing

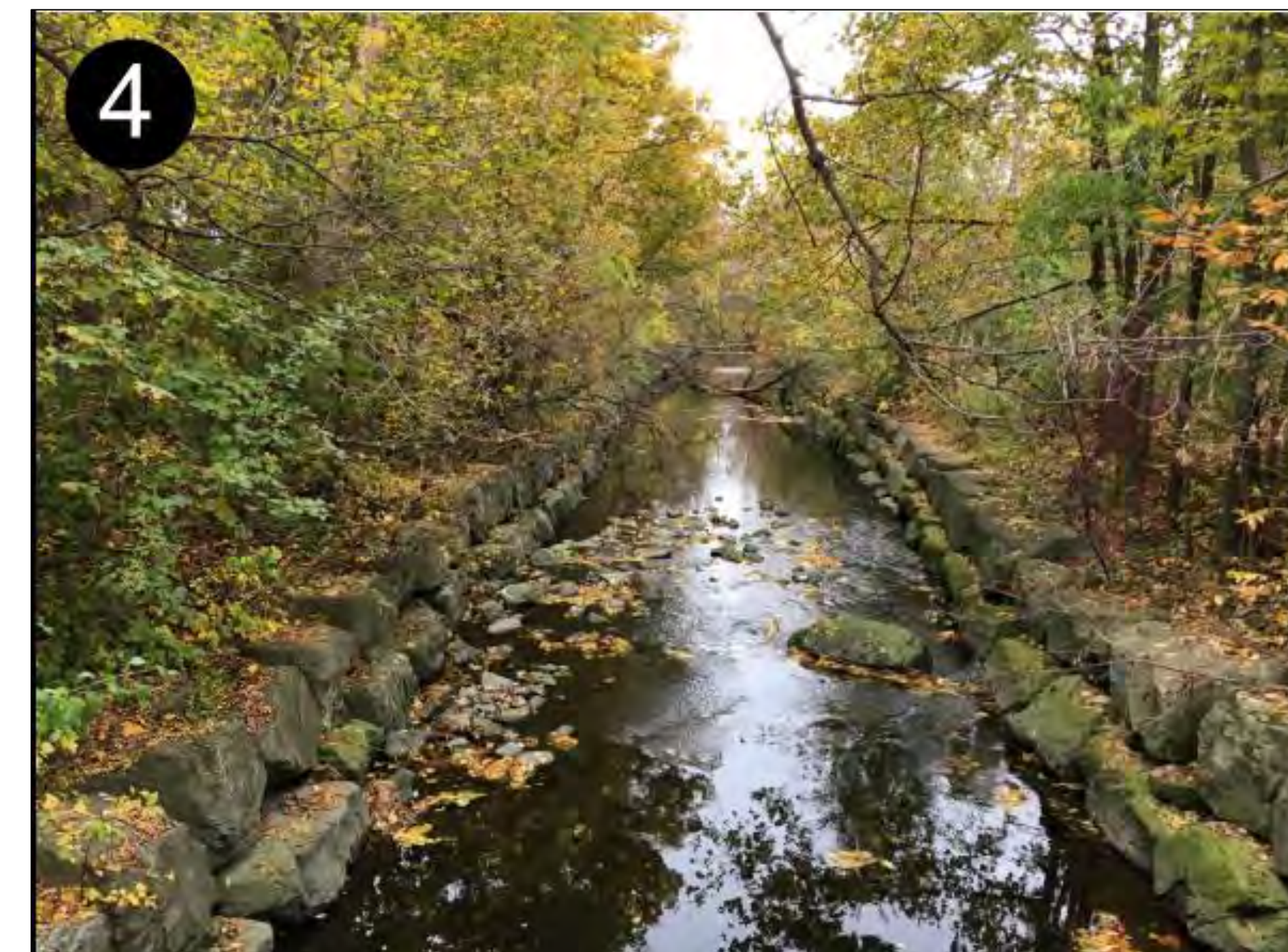
- 400 mm watermain at Dixie Road Bridge with ~1.9 m of cover will require re-location
- 2,400 mm feeder main with 20 m of cover will not be disturbed
- exposed concrete utility box will require relocation
- 10 stormwater outlets discharging into Little Etobicoke Creek will be adjusted as needed

Creek Width/Floodplain/Property Considerations

- Optimizing creek width, grading, erosion control, and vegetation to best fit design for "Making Room for the Creek"
- Limit property requirements, some existing infrastructure are recognized constraints



Trail near Little Etobicoke Creek (Forrec 2020)



Little Etobicoke Creek (Forrec 2020)

Design Considerations – Dundas Area **DRAFT**

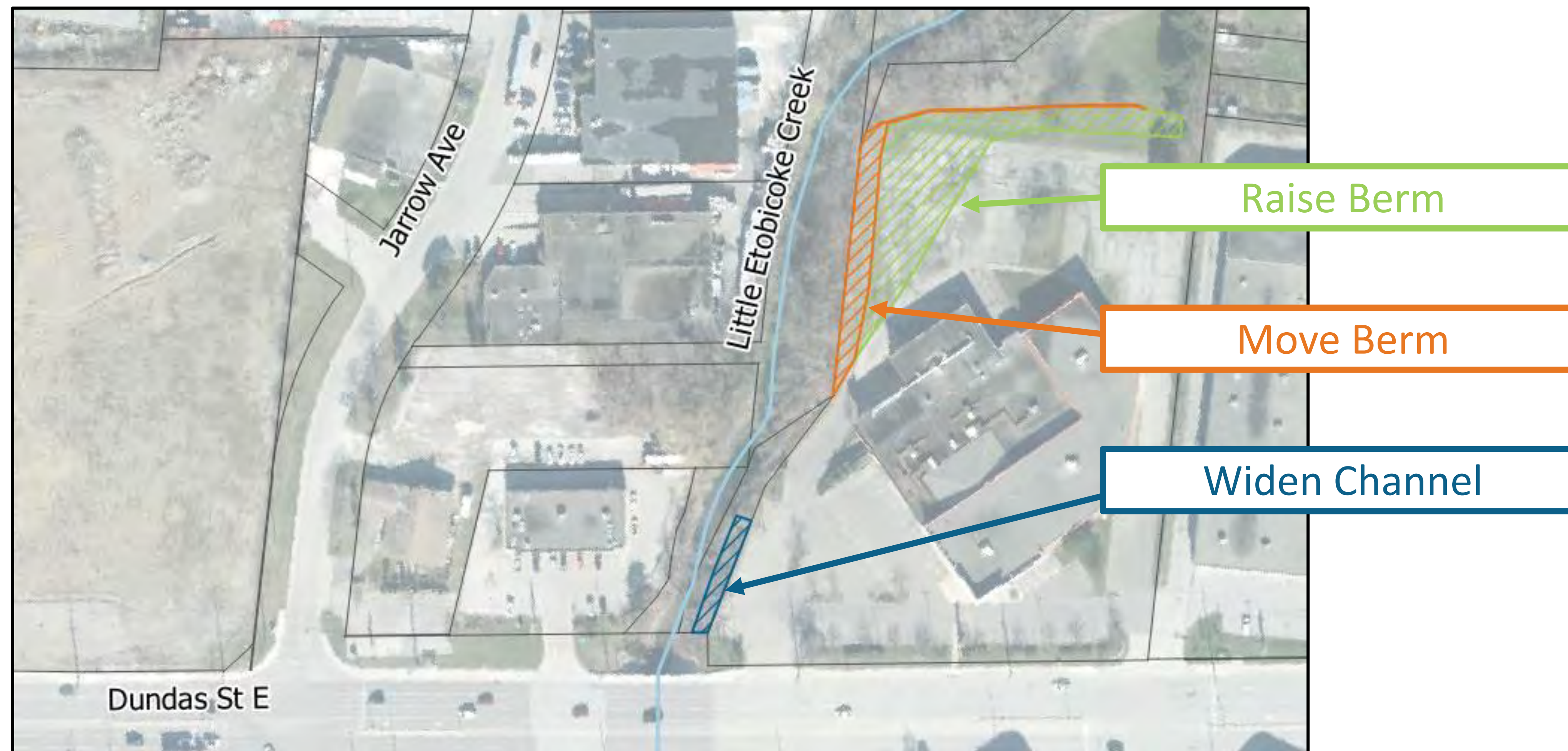
Key design considerations in the Dundas Area included:

- channel improvements
- upstream flood proofing
- floodplain widening
- municipal servicing
- minimizing property impacts
- addressing existing erosion
- Dundas BRT



Upstream Flood Proofing – Dundas Area ²⁸ DRAFT

Component	Brief Description	Carried Forward/ Screened Out	Comments
Upstream Flood Proofing 1607 Dundas Street East Property	Raise the berm to prevent overtopping	Carried Forward	Contains flow within the valley corridor under Regional storm providing resiliency to flood risk and protects property from flooding
	Widen the channel immediately upstream Dundas Street East	Screened Out	Does not reduce water levels sufficiently to prevent property flooding
	Move the berm back 20 m and widen channel	Screened Out	



Floodplain Widening – Dundas Area DRAFT ²⁹

Component	Brief Description	Carried Forward/ Screened Out	Comments
Downstream Floodplain Conveyance Improvements	Floodplain has been maximized on the City own land along the west side of the creek. The concept provides 25 m of floodplain adjacent to a 1 m channel.	Evaluated as Design Concept	Intended to reduce energy and water levels during high flow conditions to improve geomorphic and aquatic habitat conditions.
	Existing conditions downstream of Dundas Street remain in place.	Evaluated as Design Concept	If floodplain conveyance improvements are not carried out, erosion mitigation can be carried out as isolated works as required.

The downstream floodplain conveyance improvements may be of limited value hydraulically due to confined valley setting upstream and downstream.

More detailed evaluation of the design concept was completed during Phase 3 to determine potential geomorphic benefits related to the required channel transition works associated with the bridge replacement.



Little Etobicoke Creek (Matrix 2021)

Additional considerations for all alternative design concepts

Channel Improvements

- Improve habitat connectivity and geomorphology through the larger bridge structure.
- Address existing erosion sites (bed and bank erosion)

Property Considerations

- Limit encroachment on properties, confined valley upstream and downstream of Dundas Street East

Municipal Servicing

- Sanitary siphon will require relocation at Dundas Street with easements
- Coordination with a planned construction of a 200 mm diameter watermain along Dundas Street
- 6 stormwater outlets discharging into Little Etobicoke Creek will be adjusted as needed



Dundas Street East Bridge (Matrix 2021)

Evaluation of Alternative Design Concepts

Dixie Road Bridge

Alternative Design Concepts – Dixie Road Bridge ³² DRAFT

	Alternative Design Concept 1 45 m, double span bridge with lowered 0.5 m invert	Alternative Design Concept 2 45 m, double span bridge with lowered 1.0 m invert	Alternative Design Concept 3 38 m, double span bridge with lowered 1.0 m invert	Alternative Design Concept 4 50 m, triple span bridge with lowered 1.0 m invert
Freeboard during Regional Event	Provides 0.5 m of freeboard at spill point, less than 0.5 m at Dixie Road Bridge	Provides 0.5 m of freeboard at spill point and Dixie Road Bridge	Provides 0.5 m of freeboard at spill point and Dixie Road Bridge	Provides 0.5 m of freeboard at spill point and Dixie Road Bridge
Road Elevation	Road raise required	Maintains the current road elevation	Maintains the current road elevation	Maintains the current road elevation
Approximate Cost	\$6,360,000*	\$5,300,000	\$4,800,000	\$5,900,000
Notes	<i>Phase 2 bridge and channel elevation</i>	<i>Phase 2 bridge with lowered 1.0 m channel invert</i>	<i>Smallest hydraulically feasible bridge</i>	<i>Smallest practical triple span bridge</i>

*20% increase from 2020 estimate to account for inflation



12 m span Dixie Road Bridge (Thurber 2019)

Evaluation Criteria – Dixie Road Bridge **DRAFT**

Technical	Economic	Environment	Social
<ul style="list-style-type: none">• Impacts to upstream and downstream water levels• Impacts to urban drainage• Effect on erosion potential downstream of works• Resiliency to climate change• Construction complexity and constraints	<ul style="list-style-type: none">• Capital costs• Operation and maintenance costs• Effect on municipal servicing / private utility infrastructure	<ul style="list-style-type: none">• Effect on aquatic ecology• Effect on terrestrial environment• Effect on channel morphology	<ul style="list-style-type: none">• Conformity to local and provincial planning and policy• Public input• Impact to private property• Impact to cultural heritage or archaeological resources• Disruption to public/businesses during construction• Effects to parks and recreational amenities• Level of acceptance of proposed works by First Nations

This criteria was used to evaluate the alternative design concepts and will be refined based on comments received. The preferred alternative design concept will be advanced through the EA and Environmental Study Report and into 30% Design.

Design Concept Evaluation – Dixie Road Bridge **DRAFT**

Criteria	Alternative Design Concept 1 45 m, double span bridge with lowered 0.5 m invert	Alternative Design Concept 2 45 m, double span bridge with lowered 1.0 m invert	Alternative Design Concept 3 38 m, double span bridge with lowered 1.0 m invert	Alternative Design Concept 4 50 m, triple span bridge with lowered 1.0 m invert
Technical	<ul style="list-style-type: none"> Higher upstream water levels Lowest opportunity for climate change resiliency and adaptability 	<ul style="list-style-type: none"> Provides 0.5 freeboard during Regional storm at Dixie Road crossing High opportunity for climate change resiliency and adaptability 		
	<ul style="list-style-type: none"> Most complex construction due to road raise 	<ul style="list-style-type: none"> Highly constructable, fits within the valley corridor 		
Economic	<ul style="list-style-type: none"> Typical operations and maintenance (O&M) costs associated with regular clean out Single pier may result in increased maintenance cost due to debris and ice jams 			<ul style="list-style-type: none"> Typical O&M costs
	<ul style="list-style-type: none"> Highest cost due to road raise 	<ul style="list-style-type: none"> Medium cost 	<ul style="list-style-type: none"> Lowest cost 	<ul style="list-style-type: none"> Highest cost bridge, less than Alternative Design Concept 1
	<ul style="list-style-type: none"> All alternatives impact municipal servicing and require re-location of the 900 mm trunk sanitary sewer, the 400 mm watermain and various utilities 			<ul style="list-style-type: none"> May require additional relocation adjustments to 400 mm watermain

Design Concept Evaluation – Dixie Road Bridge **DRAFT** ³⁵

Criteria	Alternative Design Concept 1 45 m, double span bridge with lowered 0.5 m invert	Alternative Design Concept 2 45 m, double span bridge with lowered 1.0 m invert	Alternative Design Concept 3 38 m, double span bridge with lowered 1.0 m invert	Alternative Design Concept 4 50 m, triple span bridge with lowered 1.0 m invert
Environment	<ul style="list-style-type: none"> Some opportunity for improvement to potential aquatic and terrestrial habitat 	<ul style="list-style-type: none"> More opportunity for improvement to potential aquatic and terrestrial habitat 		<ul style="list-style-type: none"> Most potential improvement to aquatic and terrestrial habitat
	<ul style="list-style-type: none"> Single pier is constraining to the channel morphology 			<ul style="list-style-type: none"> Two piers allows for better channel alignment through the bridge (including long-term)
Social	<ul style="list-style-type: none"> Temporary easements and property acquisition will be required on the north and south banks 			<ul style="list-style-type: none"> Potential for more property acquisition on the downstream side of the bridge
	<ul style="list-style-type: none"> More disruption to adjacent businesses and traffic due to road raise 	<ul style="list-style-type: none"> Some disruption to adjacent businesses and traffic during bridge replacement 		
	<ul style="list-style-type: none"> Low potential for trail connections through the bridge 	<ul style="list-style-type: none"> High potential for trail connections through the bridge 	<ul style="list-style-type: none"> Moderate potential for trail connections through the bridge 	<ul style="list-style-type: none"> Highest potential for trail connections through the bridge, options for trail on north and/or south side

Evaluation of Alternative Design Concepts – Dixie Road Bridge

Criteria	Alternative Design Concept 1 45 m, double span bridge with lowered 0.5 m invert	Alternative Design Concept 2 45 m, double span bridge with lowered 1.0 m invert	Alternative Design Concept 3 38 m, double span bridge with lowered 1.0 m invert	Alternative Design Concept 4 50 m, triple span bridge with lowered 1.0 m invert
Technical				
Economic				
Environment				
Social				
Evaluation Outcome /Score	2.0	2.8	2.6	3.0

The preliminary evaluation of the design alternatives recommends a 50 m, triple span bridge with a lowered 1.0 m invert. The preferred design concept will be confirmed after receiving and considering input from the public and shareholders.

50 m, triple span bridge with lowered 1.0 m invert

Evaluation Summary

- **Technical:** provides 0.5 m freeboard at spill point on Queen Federica Drive, reduces waters levels upstream of Dixie Road, provides resiliency to protect against climate change, most flexible solution to varying design invert between 0.5 and 1.0 m
- **Economic:** most expensive bridge but less than Alternative Design Concept 1, less operation and maintenance costs, some impacts to municipal servicing requires relocations
- **Environment:** most opportunity for long-term improvements to fish habitat and terrestrial interface, improve channel alignment through bridge opening
- **Social:** provides highest opportunity for recreational improvements/trail connections, aligns with planning/policy initiatives, some additional property acquisition on the north side may be required, some disruption during bridge replacement on Dixie Road anticipated



Double Span Bridge

Alternative Design Concept 4 is preferred because it provides the most improvements from an environmental perspective with similar social benefits to Alternative Design Concept 2. It costs more than Alternative Design Concepts 2 and 3 but is the most resilient and adaptable solution that provides flexibility to vary the channel invert during detailed design.

Alternative Design Concepts

Dundas Area

Alternative Design Concepts – Dundas Area **DRAFT**

Alternative Design Concept 1 Maximized floodplain area downstream of Dundas Street	Alternative Design Concept 2 No floodplain improvements downstream of Dundas Street
<ul style="list-style-type: none"> Maximized floodplain on the City own land along the west side of the creek Provides 25 m of floodplain adjacent to a 1 m channel Addresses erosion site on east bank Channel works are still required upstream and through the bridge area 	<ul style="list-style-type: none"> Existing floodplain conditions downstream of Dundas Street remain in place Channel works are still required upstream and through the bridge area Downstream erosion site not addressed

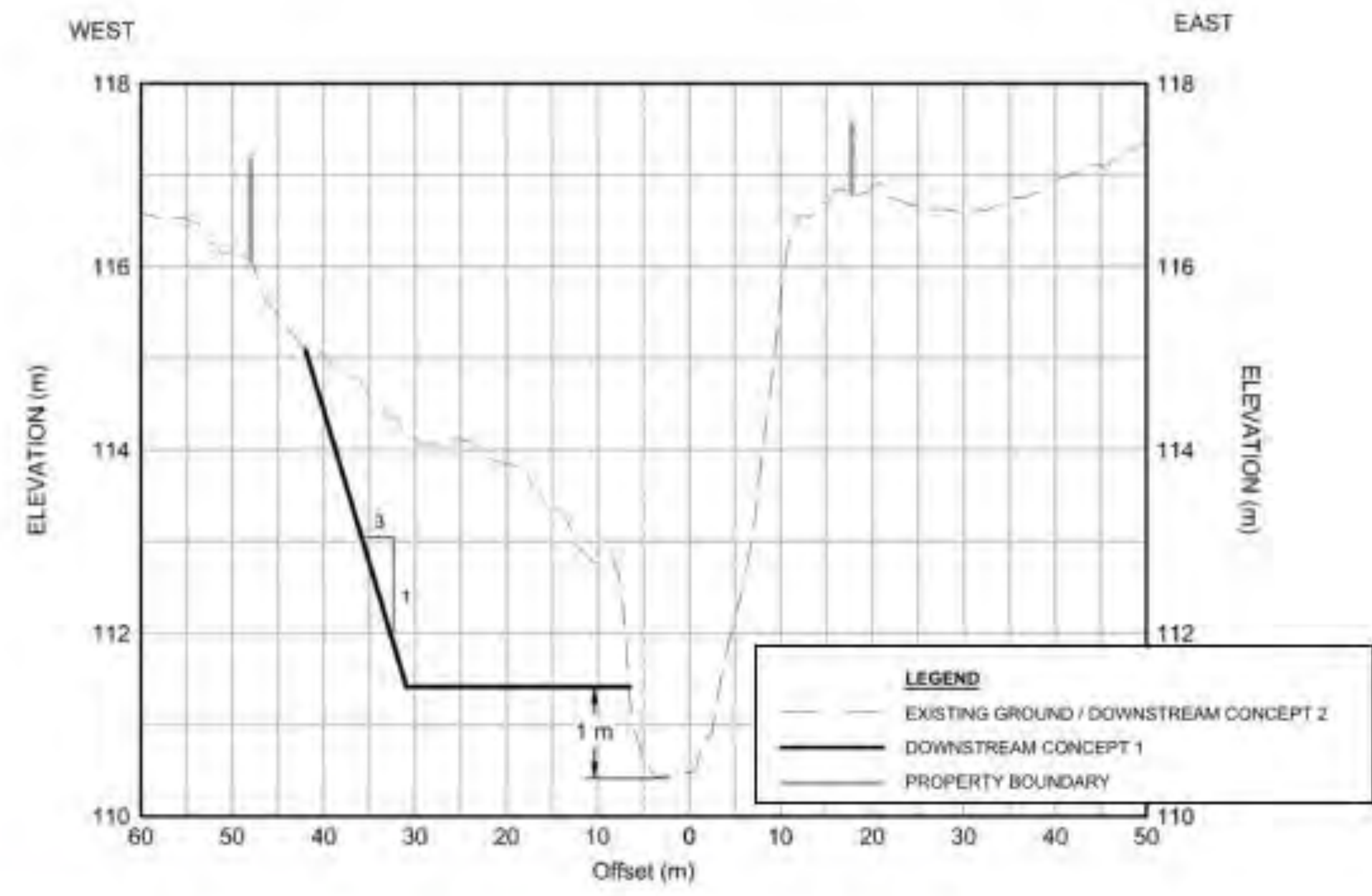


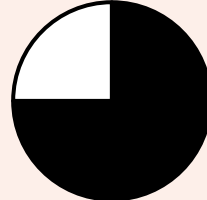
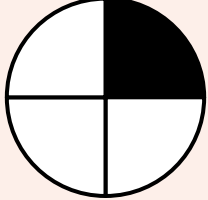
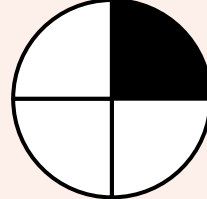
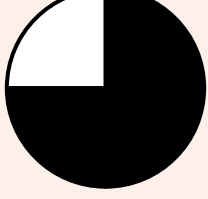
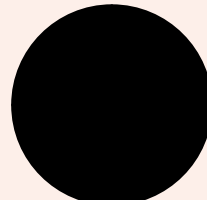
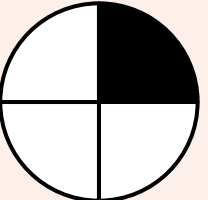
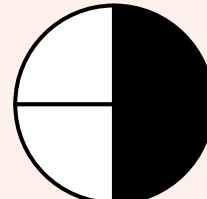
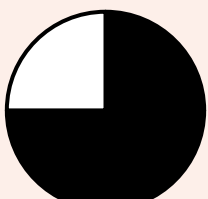
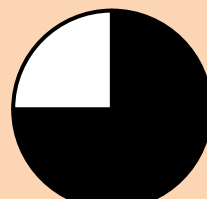
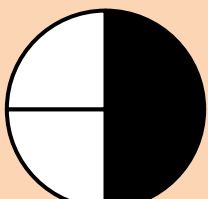
FIGURE 31 Cross-Section - Downstream Concept 1 and Downstream Concept 2

Same evaluation criteria was used as the Dixie Road alternative design concepts.

Alternative Design Concepts – Dundas Area **DRAFT**

Criteria	Alternative Design Concept 1 Maximized floodplain area downstream of Dundas Street	Alternative Design Concept 2 No floodplain improvements downstream of Dundas Street
Technical	<ul style="list-style-type: none"> • Minor improvement to water levels upstream • Some improvement to water levels downstream of Dundas Street for approximately 200 m • Some improvements to erosion potential in the area of widening • Challenging access and steep valley grades will make implement difficult 	<ul style="list-style-type: none"> • No change in water levels or improvement in erosion potential
Economic	<ul style="list-style-type: none"> • More expensive due to excavation and removal costs • Stormwater outfall will require adjustments 	<ul style="list-style-type: none"> • Existing erosion repair sites would have to be completed as isolated local repairs • More O&M as the erosion in the confined valley would be left to continue
Environment	<ul style="list-style-type: none"> • Some improvement to aquatics and riparian ecology, improved channel morphology 	<ul style="list-style-type: none"> • No improvement to existing conditions
Social	<ul style="list-style-type: none"> • Temporary easement required during construction • Some disruption to adjacent landowners during construction • Improved aesthetics and potential access options 	<ul style="list-style-type: none"> • No additional disruption beyond what is required for the bridge replacement

Evaluation of Alternative Design Concepts – Dundas Area ⁴¹

Criteria	Alternative Design Concept 1 Maximized floodplain area downstream of Dundas Street	Alternative Design Concept 2 No floodplain improvements downstream of Dundas Street
Technical		
Economic		
Environment		
Social		
Evaluation Outcome	 2.8	 2.4

The preliminary evaluation of the design alternatives recommends *Maximized floodplain area downstream of Dundas Street*. The preferred design concept will be confirmed after receiving and considering input from the public and shareholders.

Maximized floodplain area downstream of Dundas Street

Evaluation Summary

- **Technical:** minor reduction in water levels upstream of Dundas Street, some reduction in water levels downstream, reduces erosion in localized area, provides some resiliency to protect against climate change
- **Economic:** higher cost to Alternative Design Concept 2, potentially less O&M costs due to decreased erosion, no impacts to municipal servicing
- **Environment:** some opportunity aquatic habitat improvements and terrestrial-aquatic interface on the west side, channel morphology processes
- **Social:** limited opportunity for recreational improvements, some temporary easements required, some disruption during construction, some potential archeological impact in the floodplain area

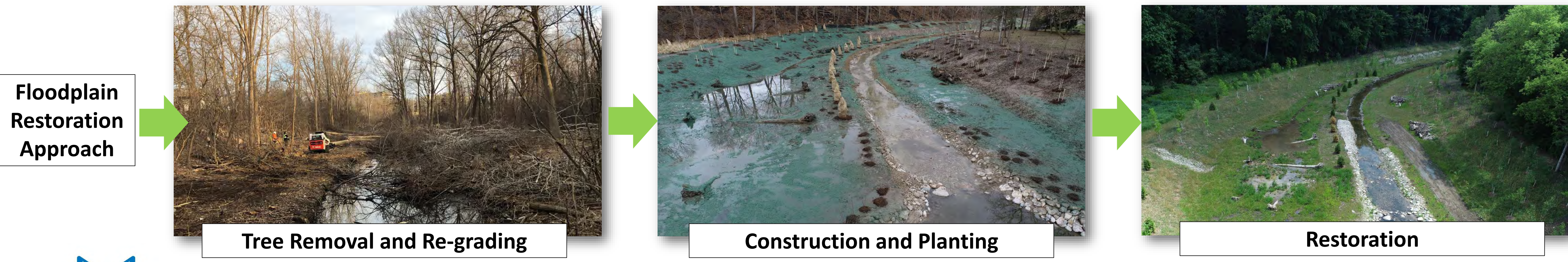
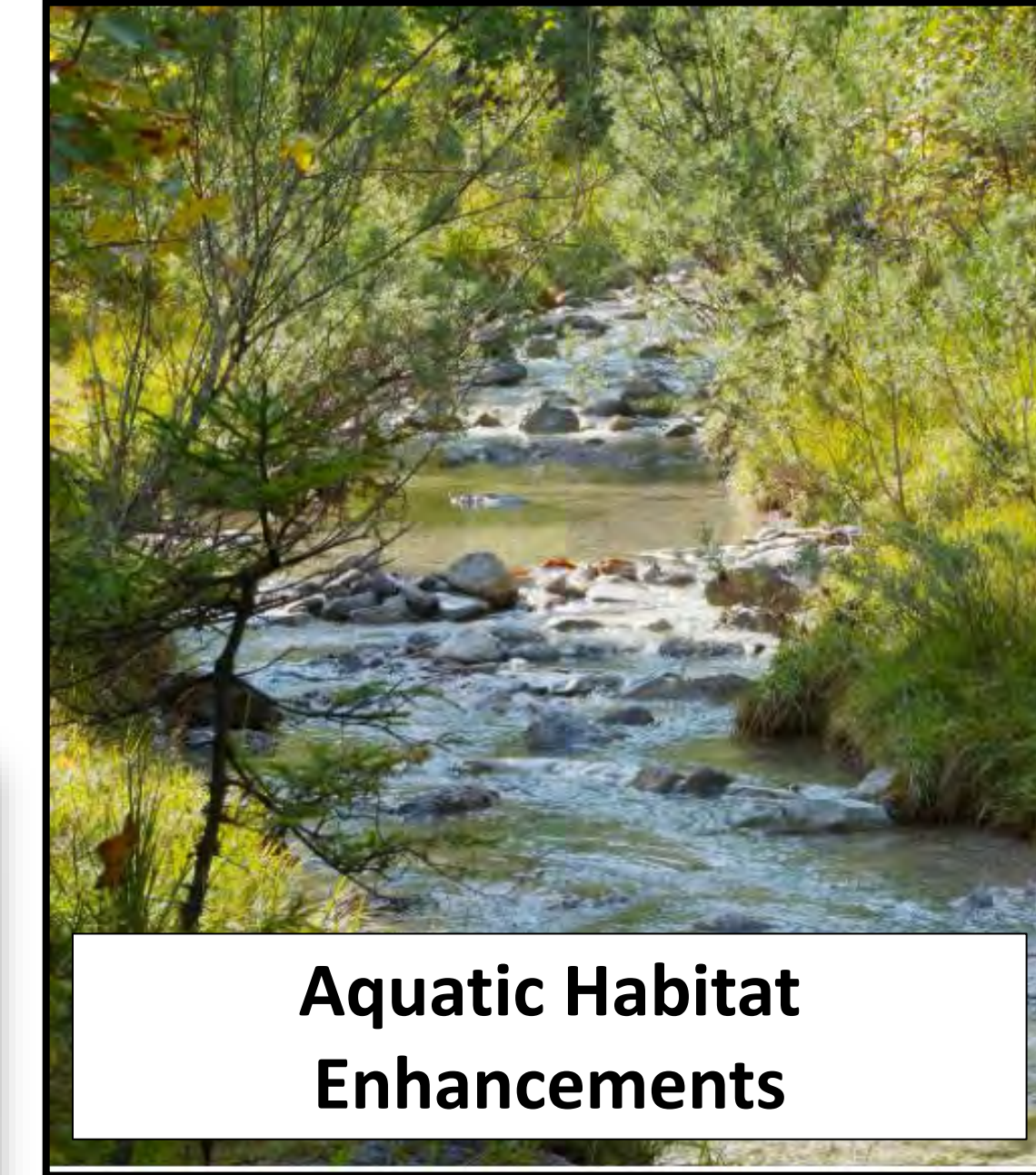


Little Etobicoke Creek

Alternative Design Concept 1 is preferred because it reduces water levels downstream of Dundas Street bridge and improves the environment including localized erosion issues.

Summary of Preliminary Preferred Design Concepts & Next Steps

Preliminary Preferred Design Concept - Dixie Area **DRAFT**



Preliminary Preferred Design Concept - Dundas Area **DRAFT**

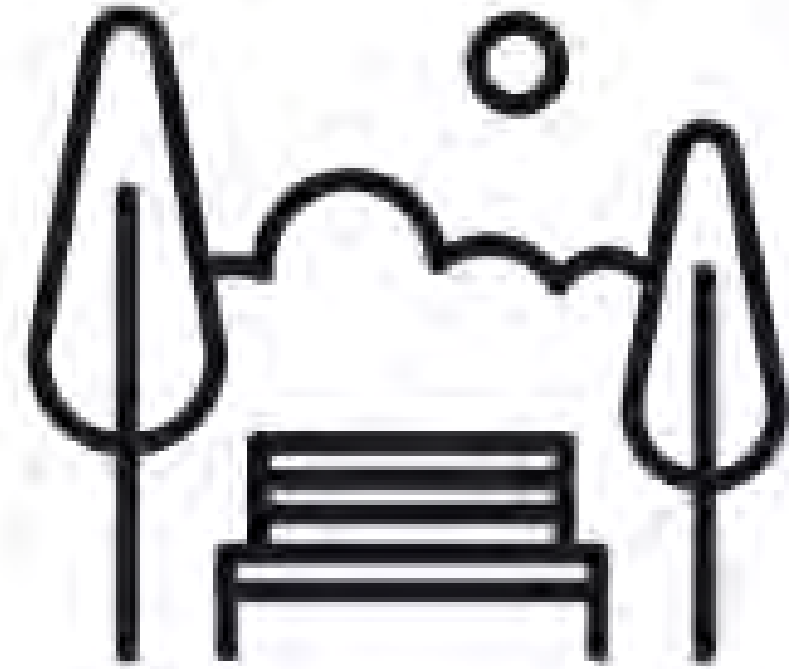


Benefits of Preferred Design Concept

DRAFT



Addresses riverine and urban flooding issues



Protect and enhances the natural environment



Recommends resilient and adaptable solutions



Created a feasible infrastructure solution



Enables future growth and development

- Greatest reduction of riverine and urban flood risk.
- Supports coordination with other Region of Peel and City of Mississauga infrastructure projects.
- Provides resiliency and adaptability to climate change, protects the surrounding community for the future.
- Creates a more naturalized channel and valley corridor, improving the aquatic and terrestrial/riparian interface
- Minimizes impacts to private properties, effects are limited to areas directly adjacent to the valley corridor.
- Provides the greatest opportunity to enhance public amenities such as future new trails.



EA Process - 2023

- Integrate input from stakeholders
- Review all alternative design concepts and select preferred
- Complete the Environmental Study Report (Summer 2023)



Preliminary and Detailed Design – 2023 through 2025

- Preliminary (30%) design of the preferred alternative
- Land acquisition
- Detailed design of the channel, bridges and municipal infrastructure relocations



Construction – estimated 2025 and through 2035

- Dundas Street Bridge replacement
- Municipal infrastructure relocations
- Channel works
- Dixie Road Bridge replacement

Project Information and Contacts **DRAFT**

If you would like to be included on the project mailing list and/or provide input, please complete the project comment form available at

<http://www.mississauga.ca/flooding>

and submit by email to either of the project contacts outlined on this slide.

Input from Public Information Centre No. 2 will be received until

June 23, 2023

Thank you for participating!

Contact information:

Anthony Di Giandomenico, P.Eng.

Project Manager

City of Mississauga

Email: anthony.digiandomenico@mississauga.ca

Phone: 905.615.3200 x 3491

Amanda McKay, P.Eng., PMP

Consultant Project Manager

Matrix Solutions Inc.

Email: amckay@matrix-solutions.com

Phone: 289.323.3780

Appendix C
General Feedback



August 12, 2020

Re: Dixie-Dundas Flood Mitigation Project

Attention:
Andrew Doherty, P.Eng.
Consultant Project Manager
Matrix Solutions Inc.

Thank you for sending us notification regarding (Dixie-Dundas Flood Mitigation Project). In our preliminary assessment, we confirm there are no existing Hydro One Transmission assets in the subject area. Please be advised that this is only a preliminary assessment based on current information.

If plans for the undertaking change or the study area expands beyond that shown, please contact Hydro One to assess impacts of existing or future planned electricity infrastructure.

Any future communications are sent to Secondarylanduse@hydroone.com.

Be advised that any changes to lot grading and/or drainage within proximity to Hydro One transmission corridor lands must be controlled and directed away from the transmission corridor.

Sent on behalf of,

***Secondary Land Use
Asset Optimization
Strategy & Integrated Planning
Hydro One Networks Inc.***

**Municipal Class Environmental Assessment
Dixie-Dundas Flood Mitigation Project**

**Public Information Centre (PIC) No. 1
Public Comments Questionnaire**

Thank you for viewing the PIC materials!

Your feedback is important to us. Please take a moment to complete this questionnaire.

The City of Mississauga is conducting a Municipal Class Environmental Assessment (EA) Study to address flooding on the lands south of Little Etobicoke Creek surrounding Dixie Road, referred to as “Dixie-Dundas”, as a result of spilling from the creek during high flow conditions. This urban area consists of a variety of commercial, industrial, residential, and park land uses. The *Dixie-Dundas Flood Mitigation Project* seeks solutions to mitigate flooding risks from Little Etobicoke Creek at the project area.

The purpose of this PIC No. 1 is to:

- Introduce the public to the project
- Present conceptual alternative solutions for input
- Provide opportunity for interested parties to identify any concerns or local information that will support the Municipal Class EA process

1. My property interest is: (Please check all that apply)

- | | |
|---|---|
| <input type="checkbox"/> Within the Study Area | <input type="checkbox"/> Residential Property |
| <input type="checkbox"/> Outside the Study Area | <input type="checkbox"/> Commercial/Industrial Property |
| <input type="checkbox"/> General Interest | <input type="checkbox"/> Recreational Property |
| <input type="checkbox"/> Regulatory Interest | <input type="checkbox"/> Other (please specify): |

2. Is the presentation on the EA project clear? Such as:

- a. Where we are in the process
- b. EA criteria
- c. Alternatives

Please provide any comments for the team to consider.

Under the Municipal Freedom of Information and Protection of Privacy Act, any personal information will become part of public record unless otherwise stated in the submission.

3. Are the Problem and Opportunity statements clear?

4. Do you feel the consultation team should further consider something particular to your local area? Please share specifics.

5. Are there additional criteria that you feel should be considered in the process?

6. Do you have any comments or concerns about the conceptual alternative solutions presented for the project area?

a. Option 1 – Improved Conveyance with Minimized Footprint

b. Option 2 – Improved Conveyance by Making Room for the Creek

c. Option 3 – Flood Containment with Mitigation for Upstream Impacts

d. Option 4 – Do Nothing

7. Based on the presentation, do you feel there is anything further you would like to share?

Please provide your contact information below (optional).

Name: _____

Address: _____

Telephone No.: _____

Email Address: _____

Do you want to be added to the project mailing list? Yes No

Please mail or email your completed questionnaire by September 4, 2020 to either contact:

Anthony Di Giandomenico

Project Manager
City of Mississauga
201 City Centre Drive, Suite 800
Mississauga, ON L5B 2T4
(905) 615-3200, ext. 3491
anthony.digiandomenico@mississauga.ca

Andrew Doherty, P.Eng.

Consultant Project Manager
Matrix Solutions Inc.
3001-6865 Century Avenue
Mississauga, ON L5N 7K2
(226) 314-1924
adoherty@matrix-solutions.com

**Municipal Class Environmental Assessment
Dixie-Dundas Flood Mitigation Project**

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| <input checked="" type="checkbox"/> Regulatory Interest | <input checked="" type="checkbox"/> Other (please specify): |



2. Is the presentation on the EA project clear? Such as:
- a. Where we are in the process
 - b. EA criteria
 - c. Alternatives

Please provide any comments for the team to consider.

The presentation is clear.

3. Are the Problem and Opportunity statements clear?

Yes

4. Do you feel the consultation team should further consider something particular to your local area? Please share specifics.

The opportunity for site specific interim mitigation measures at [REDACTED] until the permanent mitigation option has been constructed.

5. Are there additional criteria that you feel should be considered in the process?

No

6. Do you have any comments or concerns about the conceptual alternative solutions presented for the project area?

a. Option 1 – Improved Conveyance with Minimized Footprint

b. Option 2 – Improved Conveyance by Making Room for the Creek

c. Option 3 – Flood Containment with Mitigation for Upstream Impacts

d. Option 4 – Do Nothing

The potential flooding is a public safety concern and therefore this option should not be pursued.

7. Based on the presentation, do you feel there is anything further you would like to share?

No

Please provide your contact information below (optional).

Name:

Address:

Telephone No.:

Email Address:



Do you want to be added to the project mailing list?

Yes

No

Please mail or email your completed questionnaire by September 4, 2020 to either contact:

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Project Manager

City of Mississauga

201 City Centre Drive, Suite 800

Mississauga, ON L5B 2T4

(905) 615-3200, ext. 3491

anthony.digiandomenico@mississauga.ca

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|---|--|
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| <input type="checkbox"/> General Interest | <input type="checkbox"/> Recreational Property |
| <input type="checkbox"/> Regulatory Interest | <input type="checkbox"/> Other (please specify): |



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- b. EA criteria
- c. Alternatives

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3. Are the Problem and Opportunity statements clear?

4. Do you feel the consultation team should further consider something particular to your local area? Please share specifics.

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b. Option 2 – Improved Conveyance by Making Room for the Creek

c. Option 3 – Flood Containment with Mitigation for Upstream Impacts

d. Option 4 – Do Nothing

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Please provide your contact information below (optional).

Name:

Address:

Telephone No.:

Email Address:



Do you want to be added to the project mailing list?

Yes

No

Please mail or email your completed questionnaire by September 4, 2020 to either contact:

Anthony Di Giandomenico

Project Manager

City of Mississauga

201 City Centre Drive, Suite 800

Mississauga, ON L5B 2T4

(905) 615-3200, ext. 3491

anthony.digiandomenico@mississauga.ca

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Consultant Project Manager

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Mississauga, ON L5N 7K2

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| <input type="checkbox"/> General Interest | <input type="checkbox"/> Recreational Property |
| <input type="checkbox"/> Regulatory Interest | <input type="checkbox"/> Other (please specify): |

Land Owners

2. Is the presentation on the EA project clear? Such as:

- a. Where we are in the process
- b. EA criteria
- c. Alternatives

Please provide any comments for the team to consider.

Yes

3. Are the Problem and Opportunity statements clear?

Yes

4. Do you feel the consultation team should further consider something particular to your local area? Please share specifics.

Not at this time.

5. Are there additional criteria that you feel should be considered in the process?

Not at this time.

6. Do you have any comments or concerns about the conceptual alternative solutions presented for the project area?

a. Option 1 – Improved Conveyance with Minimized Footprint

None

b. Option 2 – Improved Conveyance by Making Room for the Creek

None

c. Option 3 – Flood Containment with Mitigation for Upstream Impacts

None

d. Option 4 – Do Nothing

Something has to be done for the area.

7. Based on the presentation, do you feel there is anything further you would like to share?

Not at this time.

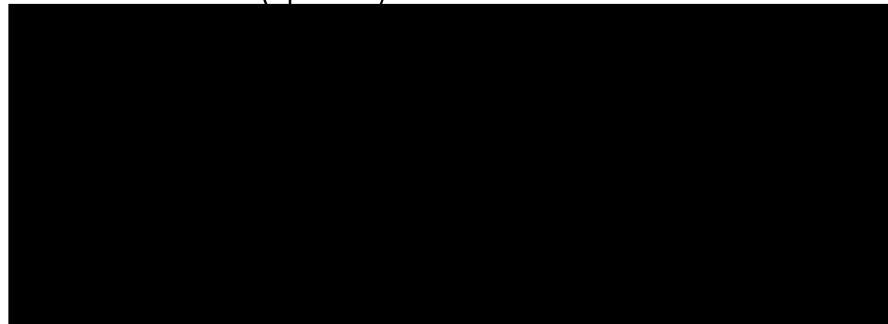
Please provide your contact information below (optional).

Name:

Address:

Telephone No.:

Email Address:



Do you want to be added to the project mailing list?

Yes

No

Please mail or email your completed questionnaire by September 4, 2020 to either contact:

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**Municipal Class Environmental Assessment
Dixie-Dundas Flood Mitigation Project**

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| <input checked="" type="checkbox"/> General Interest | <input type="checkbox"/> Recreational Property |
| <input type="checkbox"/> Regulatory Interest | <input type="checkbox"/> Other (please specify): |

Consultants to Land Owners

2. Is the presentation on the EA project clear? Such as:

- a. Where we are in the process
- b. EA criteria
- c. Alternatives

Please provide any comments for the team to consider.

Yes

3. Are the Problem and Opportunity statements clear?

Yes

4. Do you feel the consultation team should further consider something particular to your local area? Please share specifics.

No - nothing further at this time.

5. Are there additional criteria that you feel should be considered in the process?

Not at this time.

6. Do you have any comments or concerns about the conceptual alternative solutions presented for the project area?

a. Option 1 – Improved Conveyance with Minimized Footprint

None

b. Option 2 – Improved Conveyance by Making Room for the Creek

None

c. Option 3 – Flood Containment with Mitigation for Upstream Impacts

None

d. Option 4 – Do Nothing

Something has to be done for the area.

7. Based on the presentation, do you feel there is anything further you would like to share?

Not at this time.

Please provide your contact information below (optional).

Name:

Address:

Telephone No.:

Email Address:



Do you want to be added to the project mailing list?

Yes

No

Please mail or email your completed questionnaire by September 4, 2020 to either contact:

Anthony Di Giandomenico

Project Manager

City of Mississauga

201 City Centre Drive, Suite 800

Mississauga, ON L5B 2T4

(905) 615-3200, ext. 3491

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(226) 314-1924

adoherty@matrix-solutions.com

Melani-Ivy Samson

From: Steve Braun
Sent: March 22, 2022 10:13 AM
To: Melani-Ivy Samson
Subject: FW: [External] RE: Dixie-Dundas Flood Mitigation

For consultation files.

Steve Braun, P.Eng.
Principal Water Resources Engineer

MATRIX SOLUTIONS INC.

D 289.323.0975
C 647.271.5272

From: [REDACTED]
Sent: March 21, 2022 10:09 AM
To: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Cc: [REDACTED] Steve Braun
<sbraun@matrix-solutions.com>
Subject: [External] RE: Dixie-Dundas Flood Mitigation

Thank you

From: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Sent: Monday, March 21, 2022 10:07 AM
To: [REDACTED]
Cc: [REDACTED] Steve Braun
(sbraun@matrix-solutions.com) <sbraun@matrix-solutions.com>
Subject: RE: Dixie-Dundas Flood Mitigation

Hello [REDACTED]

We currently have rough order of magnitude construction costs for each alternative solution which are included in our PIC #1 materials (slides 27-29) and project bulletin (slide 19) available on our project webpage. These project costs are anticipated to be mostly funded by the City's stormwater charge but will be subject to future budget approvals. Other potential funding sources aren't currently being explored at this time.

Thank you,
Anthony

From: [REDACTED]
Sent: 2022/03/16 2:26 PM
To: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Cc: [REDACTED] Steve Braun
(sbraun@matrix-solutions.com) <sbraun@matrix-solutions.com>
Subject: RE: Dixie-Dundas Flood Mitigation

Hello Anthony,

Do you have any information related to the costs associated for flood mitigation implementation and how mitigation measures are intended to be funded? Will there be a front ending of costs by the lead developers or a special levy for the flood mitigation of this corridor?

Thank you

From: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>

Sent: Monday, March 7, 2022 11:59 AM

To: [REDACTED]
Cc: [REDACTED] Steve Braun
(sbraun@matrix-solutions.com) <sbraun@matrix-solutions.com>

Subject: RE: Dixie-Dundas Flood Mitigation

Hi [REDACTED]

We're currently anticipating completion of the EA and preliminary design this summer.

Thanks,
Anthony

From: [REDACTED]

Sent: 2022/03/04 10:50 AM

To: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>

Cc: [REDACTED] Steve Braun
(sbraun@matrix-solutions.com) <sbraun@matrix-solutions.com>

Subject: RE: Dixie-Dundas Flood Mitigation

Thank you Anthony.

What is the anticipated completion timeline of the Dixie-Dundas Flood Study?

From: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>

Sent: Thursday, March 3, 2022 3:06 PM

To: [REDACTED]
Cc: [REDACTED] Steve Braun
(sbraun@matrix-solutions.com) <sbraun@matrix-solutions.com>

Subject: RE: Dixie-Dundas Flood Mitigation

Good afternoon [REDACTED]

For the Dixie-Dundas flood study, we're currently targeting this spring for our PIC #2 with timing to become clearer as we get closer. The recommended remediation measures for both Dixie Road and Dundas Street at Little Etobicoke Creek, along with design alternatives, will be presented to the public for review and comment at this future PIC.

We will add you to the project mailing list. By copy to Steve Braun, our Consultant Project Manager, please add [redacted] to the list.

Thank you,
Anthony



Anthony Di Giandomenico P.Eng.
Storm Drainage Engineer, Environmental Services
T 905-615-3200 ext.3491 | M 647-285-8291
anthony.digiandomenico@mississauga.ca

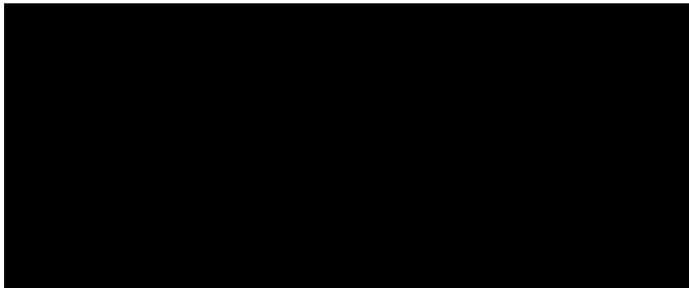
[City of Mississauga](#) | Transportation & Works Department
Infrastructure Planning & Engineering Division

From: [redacted]
Sent: 2022/03/02 3:41 PM
To: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Cc: [redacted]
Subject: Dixie-Dundas Flood Mitigation

Good afternoon Anthony,

I understand from reviewing the information on-line that EA review for the Dixie-Dundas Mitigation Project is currently in Phase 2 or 3 of the process. Has a PIC date been established to discuss preferred solutions? Can you please let me know where you are in the process and notify me of any upcoming meetings?

Thank you,





Dixie-Dundas Flood Mitigation Project Public Information Centre (PIC) #2 - Questionnaire

Thank you for viewing the Public Information Centre (PIC) materials!

Your feedback is important to us. Please take a moment to complete this questionnaire.

The City of Mississauga is conducting a Municipal Class Environmental Assessment (EA) Study to address flooding on the lands south of Little Etobicoke Creek surrounding Dixie Road and Dundas Street, referred to as "Dixie-Dundas", as a result of spilling from the creek during high flow conditions. This urban area consists of a variety of commercial, industrial, residential, and park land uses. The Dixie-Dundas Flood Mitigation Project seeks solutions to mitigate flooding risks from Little Etobicoke Creek in the project area.

The purpose of this PIC #2 is to:

- Present the evaluation and preferred alternative solutions
- Present and evaluate alternative design concepts
- Present the preliminary and preferred design concept
- Provide opportunity for interested parties to offer input

Information will be collected in accordance with the Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record.

^ required

1. Do you have any questions about the Schedule 'C' Municipal Class EA process? *

2. Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (Making Room for the Creek) for the **Dixie Area**? *

3. Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (25 m Span Bridge) for the **Dundas Area**? *

4. Do you have any comments or concerns about the alternative design concepts and evaluation for the **Dixie Area**? *

5. Do you have any comments or concerns about the alternative design concepts and evaluation for the **Dundas Area**? *

6. Are you satisfied with the proposed flood mitigation solution? *

- Yes
- No
- Unsure

7. Based on the presentation, do you feel there is anything further you would like to share?

8. What is your name: *

9. Email Address *

10. Address:

The following question is optional

11. Telephone No.:

The following question is optional

12. My property interest is: (Please check all that apply) *

- Within the Study Area
- Outside the Study Area
- General Interest
- Regulatory Interest
- Residential Property
- Commercial/Industrial Property
- Recreational Property
- Other

13. Do you want to be added to the project mailing list?

Yes

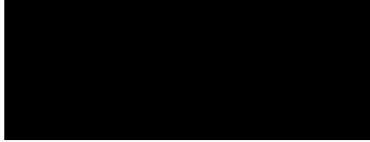
No

This content is neither created nor endorsed by Microsoft. The data you submit will be sent to the form owner.

 Microsoft Forms

May 23, 2023

Matrix 24603-531



Dear 

Thank you for our chat! As discussed, please find enclosed the following:

- slides for the first Public Information Centre (PIC) in 2020 and accompanying transcript; *Please note that portions of the material are now obsolete (e.g., project schedule and study area boundary).*
- slides for the second and latest PIC and accompanying transcript; and
- a copy of the comment form for the latest PIC.

After reviewing the material, please let me know if you have any questions and/or concerns. You can reach me at 226.314.1916 or the project manager, Amanda McKay, at 289.323.3780.

Yours truly,

MATRIX SOLUTIONS INC.

Melani-Ivy Samson, M.A.Sc., EIT
Water Resources EIT

MIS/
Attachments

From: Anthony DiGiandomenico
 <Anthony.DiGiandomenico@mississauga.ca>
Sent: June 1, 2023 1:47 PM
To: [REDACTED] Amanda McKay
Cc: [REDACTED]
Subject: [External] RE: Request for information-impact to [REDACTED]
 [REDACTED]

Hello,

Thanks for reaching out about the study.

I'd be happy to discuss the study and answer any questions you may have.

Please feel free to give me a call at your convenience, or alternatively, we can set-up a time that works best.

Looking forward to hearing from you.

Thank you,
Anthony



Anthony Di Giandomenico P.Eng.
 Storm Drainage Engineer, Environmental Services
 T 905-615-3200 ext.3491
anthony.digiandomenico@mississauga.ca

[City of Mississauga](#) | Transportation & Works Department
Infrastructure Planning & Engineering Division

From: [REDACTED] <[REDACTED]>
Sent: Tuesday, May 30, 2023 8:01 PM
To: amckay@matrix-solutions.com; Anthony DiGiandomenico
 <Anthony.DiGiandomenico@mississauga.ca>
Cc: [REDACTED] <[REDACTED]>
Subject: Request for information-impact to [REDACTED]

Hi,

We received the Dixie-Dundas flooding mitigation information and had a chance to watch the video. Based on the maps included it seems that work will be taking place directly behind our property and between us and our next door neighbour.

We would like the opportunity to obtain more information regarding the potential impact to our property, [REDACTED]

Please let us know if you would be available to meet (virtually would work).

We have questions in mind but would prefer to discuss first to get a better understanding of the work that will take place directly around our property.

Thank you,

[REDACTED]

From: Amanda McKay
Sent: June 21, 2023 5:09 PM
To: Melani-Ivy Samson
Subject: Fwd: [External] FW: GET ON THE MAILING LIST

Sent from my iPhone

Begin forwarded message:

From: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Date: June 21, 2023 at 4:56:56 PM EDT
To: Amanda McKay <amckay@matrix-solutions.com>
Subject: [External] FW: GET ON THE MAILING LIST

Hi Amanda,

Could you please add [REDACTED] to the study mailing list please? Contact details below.

Thanks!
Anthony

From: Anthony DiGiandomenico
Sent: Wednesday, June 21, 2023 4:56 PM
To: '[REDACTED]' <[REDACTED]>
Cc: Chris Fonseca <Chris.Fonseca@mississauga.ca>; Mayor Bonnie Crombie <mayor@mississauga.ca>; Geoff Wright <Geoff.Wright@mississauga.ca>; Sam Rogers <Sam.Rogers@mississauga.ca>
Subject: RE: GET ON THE MAILING LIST

Hello [REDACTED],

Thank you for your interest in the Dixie-Dundas Flood Mitigation Study. As requested, we will add you to the project mailing list to receive future study updates.

The primary purpose of this study is to protect over 1,000 residences and businesses that are currently at risk of flooding in the immediate and surrounding communities during significant storm events such as the July 8, 2013 event. The majority of flooding is a result of spill from Little Etobicoke Creek at Queen Frederica Drive which exits the creek and impacts a very large area from Little Etobicoke Creek down to the Queen Elizabeth Way and beyond to Lake Ontario.

The City's Dundas Connects Master Plan was a separate but related project which expressed a vision of growth for the Dixie-Dundas area and proposed higher-order transit along the Dundas Street corridor. This vision of growth cannot be fully

implemented without first addressing the flooding in the study area. For more information on the Dundas Connects Master Plan please visit the City's project webpage at www.mississauga.ca/projects-and-strategies/city-projects/dundas-corridor-policy-implementation/.

As part of the preliminary preferred flood mitigation solution, an existing sanitary sewer across the creek and along Jarrow Avenue must be lowered to allow the creek to be widened and deepened to provide capacity for the creek flows and alleviate flooding.

It's worth noting that stormwater projects by the City are not funded by the tax base and instead are funded in part by the stormwater charge which is a dedicated source of funding to keep the City's stormwater system in good working order and to set aside sufficient funds to finance necessary upgrades and repairs in the future.

Our online Public Information Centre #2 materials are available on the City's project webpage at www.mississauga.ca/flooding and provide more details about the project and the preliminary preferred flood mitigation solution.

Thank you,
Anthony



Anthony Di Giandomenico P.Eng.
Storm Drainage Engineer, Environmental Services
T 905-615-3200 ext.3491
anthony.digiandomenico@mississauga.ca

[City of Mississauga](http://www.mississauga.ca) | Transportation & Works Department
Infrastructure Planning & Engineering Division

-----Original Message-----

From: [REDACTED] <[REDACTED]>
Sent: Tuesday, June 20, 2023 9:57 PM
To: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Cc: Chris Fonseca <Chris.Fonseca@mississauga.ca>; Mayor Bonnie Crombie <mayor@mississauga.ca>
Subject: GET ON THE MAILING LIST

Please include me on the mailing list for future information about the Dixie Dundas Flood Mitigation Project. ([REDACTED])

I am very unclear as to why the area was expanded to include the industrial area off of Jarrow. Ave (Sedlescomb Dr.)

My residential home backs onto the creek at [REDACTED]. The last time the area had a problem with flooding was approximately 5 -10 years ago when Queen

Frederica was flooded out. Why the city allowed housing to be built in a floodplain to begin with is baffling.

My husband has had a shop for over 25 years at [REDACTED] His unit sides on the creek on both sides in the corner. His land is very high and in 25 years has never had a problem with flooding, and the same can be said for neighbouring industrial and residential properties. So, tell me why are you doing this study and wasting tax payers money, to benefit these private builders that want to capitalize on our green spaces, and reroute natural water ways in order to put money into their own pockets.

Since we found out about the development they are trying to build at the corner of Jarrow and Dundas. 3 condo buildings with one 65 stories high. Our traffic on Dundas is already a nightmare. Our infrastructure can not support more residents. It is becoming all very clear now that they city has elected to put the greed of themselves and builders, ahead of the quality of life of residents.

We are quite disappointed in our councillor in ward 3 who has no regard for the tax payers who voted her in. She accommodates the private builders at the expense of the tax payers, and when she is asked to explain her rationale, she says "you should email Doug Ford".

When I last checked, an elected official for the area is the person who should address local matters. The inability to take accountability for matters within her own jurisdiction is a joke.

I have lived here in Mississauga for over 30 years, to say the least, this city has become a disappointment. Overgrown, overpopulated, with no regard for the increasing traffic, or our aging infrastructure. Everything has become about tax dollars. It is very sad, that in my retirement years I considered leaving this city, to move to a much nicer location that cares about people, wetlands, green spaces, and the quality of life etc....

Also just to mention my husband and I were on the zoom call with the builders that want to build at Jarrow and Dundas. What an embarrassment. Sounds like a done deal. How dare you not speak to any of the businesses that pay taxes there, that are directly impacted by this development. How do you expect them to run their day to day business, with only 1 access to get into their units. It is a shame what has happened to Mississauga.

Instead, I am going to start canvassing the neighbourhood to to raise awareness about the incompetence of our current councillor to not only answer direct questions, but to also throw accountability out the window by blaming government at other levels.

Sent from my iPad

From: Amanda McKay
Sent: June 23, 2023 10:41 AM
To: Melani-Ivy Samson
Subject: FW: [External] FW: Dixie- Dundas Flood Mitigation Study and project

Please file!

Amanda McKay, P.Eng., PMP
 Direct 289.323.3780 Cell 519.803.3208

From: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Sent: Friday, June 23, 2023 9:25 AM
To: Amanda McKay <amckay@matrix-solutions.com>
Cc: Steve Braun <sbraun@matrix-solutions.com>
Subject: [External] FW: Dixie- Dundas Flood Mitigation Study and project

FYI

From: Anthony DiGiandomenico
Sent: Friday, June 23, 2023 9:23 AM
To: [REDACTED]
Subject: RE: Dixie- Dundas Flood Mitigation Study and project

Hi [REDACTED],

Thank you for the follow-up questions.

Please find my responses below.

Thank you,
Anthony



Anthony Di Giandomenico P.Eng.
 Storm Drainage Engineer, Environmental Services
 T 905-615-3200 ext.3491
anthony.digiandomenico@mississauga.ca

[City of Mississauga](http://CityofMississauga) | Transportation & Works Department
 Infrastructure Planning & Engineering Division

From: [REDACTED]
Sent: Wednesday, June 21, 2023 11:01 AM

To: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>

Subject: Re: Dixie- Dundas Flood Mitigation Study and project

Hi Anthony - Happy first day of summer!

Thank you very much for your reply to the questions.

Can you please provide what the projected or approximate cost for this overall project is/would be?

We would like to have an idea of what the cost of such a project is.

During our PIC #1 held in 2020, we had provided a high-level cost estimate of approximately \$22M for Option 2. Since that time, the study has progressed and expanded to include the Dundas Street area and additional infrastructure replacements have been identified which will evidently result in a higher cost than the 2020 estimate. Per my earlier email, the overall cost of the project is still being determined and will be better understood as we progress through the preliminary design work. It is expected that an updated cost estimate will be included in the 2024 Budget preparation.

Also, what city funding source(s) would be used to cover such an expense? Would any funding be provided from the province and/or the federal government for this project?

Would the developers who will be given permits to construct upcoming developments along the Dundas/Dixie area pay for any part of this Dixie-Dundas Mitigation Project?

The specific funding sources will be better identified as the project approaches construction. Stormwater projects by the City are not funded by the tax base and instead are funded in part by the City's stormwater charge and also development charges.

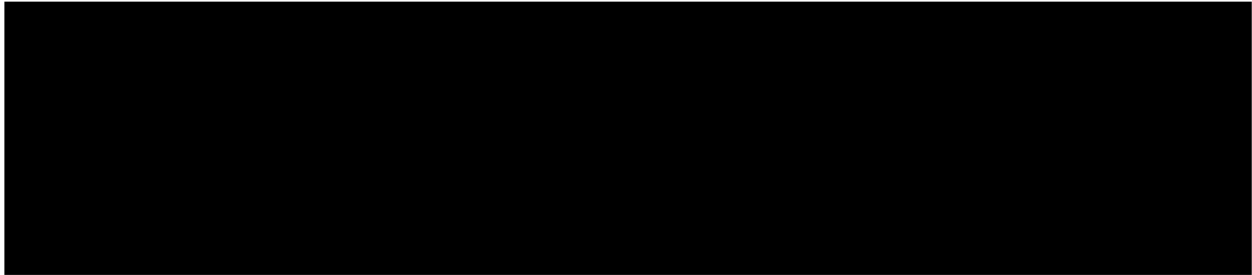
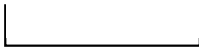
The stormwater charge is a dedicated source of funding to keep the City's stormwater system in good working order and to set aside sufficient funds to finance necessary upgrades and repairs in the future. Development charges are paid for by developers and the contribution rate for stormwater projects are generally based on remaining developable land in a watershed. More details are available in the City's Development Charges Background Study on the City's webpage.

We will also be exploring funding grant opportunities at the Provincial and Federal government levels.

Look forward to your reply to the above.
Thank you.

Kind Regards,





On Wed, 21 Jun 2023 at 10:18, Anthony DiGiandomenico
<Anthony.DiGiandomenico@mississauga.ca> wrote:

Hi ,

Thank you for your questions regarding the Dixie-Dundas flood mitigation study. We appreciate your input into this important flood mitigation project which will address flooding from the creek and protect over 1,000 residential and commercial properties in the immediate and downstream communities that are at flood risk.

Please find some responses to your questions in the original email below. A response to the question from your second email has been included directly below.

- What streets in Mississauga's Ward 3 area would be affected directly or indirectly by this project/construction?

The majority of the proposed work are expected to include earthworks within the existing creek from south of Dundas Street to north of Dixie Road. Other proposed works are expected to include the replacement of both the Dixie Road and Dundas Street bridges along with underground infrastructure works including along Jarrow Avenue.

We're still in the Environmental Assessment (EA) stage of the project but it is anticipated that, aside from the above noted streets, we don't expect other streets would be directly impacted by future construction. Streets or properties backing onto the creek through the project limits, as noted above, may be indirectly affected from the adjacent creek works. For reference, slides 45 and 46 of PIC #2 show the approximate extent of work limits.

Thank you,
Anthony



Anthony Di Giandomenico P.Eng.
Storm Drainage Engineer, Environmental Services
T 905-615-3200 ext.3491
anthony.digiandomenico@mississauga.ca

[City of Mississauga](#) | Transportation & Works Department
Infrastructure Planning & Engineering Division

From: [REDACTED]
Sent: Tuesday, June 20, 2023 8:22 AM
To: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Subject: Dixie- Dundas Flood Mitigation Study and project

Hi Anthony,

Hope you are well.

With respect to our phone conversation last week regarding a community meeting for the subject noted study and potential project:

- what has the expense for this study been to date (since 2012 to now)?
The City retained an engineering consultant in 2019 to begin the feasibility and Environmental Assessment (EA) study for this project. The consulting assignment to support this project is expected to total \$1.5M up to the study’s completion. The scope and magnitude of the study is quite considerable and involves EA, hydraulic creek modelling and preliminary design work to support the preliminary preferred solution that includes replacement of two bridges, relocating several underground infrastructure and creek earthworks.
- are there additional anticipated costs for this study? If yes, how much?
We don’t anticipate any additional study costs at this time.
- when would the construction for this project begin?
Currently, we’re anticipating construction to generally occur starting 2025 until 2035 with work beginning first at the downstream limits of the study (south of Dundas Street) and working towards the upstream limits (north of Dixie Road). It’s important to note that this timeframe is an estimate currently and will be refined as we progress through future study work.
- what is the projected/budgeted cost of this project for its completion?
The anticipated cost of construction will be a substantive amount over several years but it is still being determined and will be better understood as we progress through the preliminary design work.
- the timing for the construction to completion for this project is from 2023-2035 is this correct?
Please see my earlier response above.

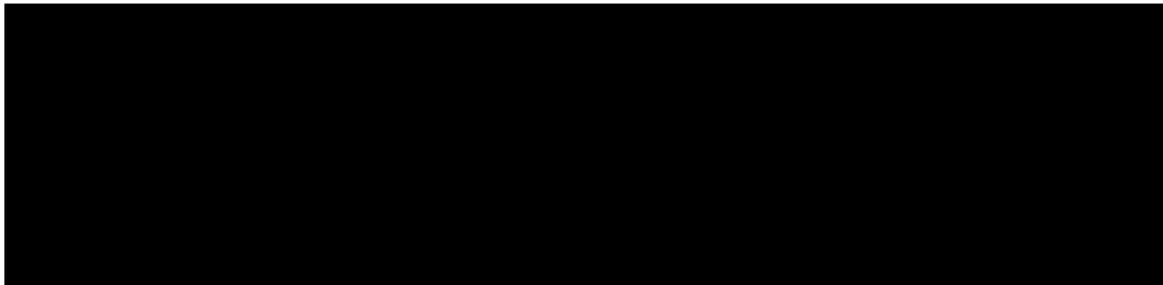


-Why hasn't an in-person community meeting been held by the city to address this project in addition to the information that is available online?

Public Information Centres (PIC's) can take several different formats. For this study, the two PIC's held have been in the form of detailed video presentations that are available to view by resident's at their convenience on the City's webpage. We have found the general response from the public for this format quite favourable. Should there be any questions or comments, resident's are encouraged to provide those either through the online comment forms or by contacting myself or the consultant project manager at any time.

Thank you Anthony and look forward to your reply to the above at the earliest as the deadline date for submissions from the public is this Friday.

Kind Regards,



From: Amanda McKay
Sent: June 27, 2023 9:01 AM
To: Melani-Ivy Samson
Subject: FW: [External] FW: Public Information Centre for the Dixie-Dundas Flood Mitigation – Schedule 'C' Municipal Class Environmental Assessment

Amanda McKay, P.Eng., PMP
Direct 289.323.3780 **Cell** 519.803.3208

From: [REDACTED]
Sent: Friday, June 23, 2023 2:54 PM
To: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>; Amanda McKay <amckay@matrix-solutions.com>
Cc: [REDACTED]
Subject: [External] FW: Public Information Centre for the Dixie-Dundas Flood Mitigation – Schedule 'C' Municipal Class Environmental Assessment

Hi Anthony,
Our Traffic team has the following comments:

Traffic Operations – [REDACTED]

- If there are any impacts to Regional roads or within the right-of-way, please advise Traffic Staff beforehand
- Ensure Book 7 is adhered to during construction

I will be in touch again with comments from other teams and in the meantime look forward to receiving your response comments.

Thanks,

[REDACTED]

[REDACTED]

[REDACTED]

From: Amanda McKay <amckay@matrix-solutions.com>

Sent: May 16, 2023 4:11 PM

Cc: Steve Braun <sbraun@matrix-solutions.com>; Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>

Subject: Public Information Centre for the Dixie-Dundas Flood Mitigation – Schedule ‘C’ Municipal Class Environmental Assessment

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Hello,

On behalf of the City of Mississauga, this email is to notify you of the online Public Information Centre (PIC) for the Dixie-Dundas Flood Mitigation – Schedule ‘C’ Municipal Class Environmental Assessment (EA). The attached notice provides additional information about this event.

A narrated PIC presentation and downloadable information package discussing the project and flood mitigation solutions is now available at the website below from **May 16 to June 23, 2023**. Please provide us with your comments by **June 23, 2023** using the comment form [available online](#). Previous information, including PIC No. 1 and the study area expansion bulletin, is available on the same webpage.

<http://www.mississauga.ca/flooding>

If you have any questions or concerns about this project, please don't hesitate to get in touch with the Project Managers (contact information attached).

If you wish to be removed from the distribution list for this study, please let us know.

Thank you,

Amanda McKay, P.Eng., PMP
Water Resources Engineer
General Manager, Eastern Engineering

MATRIX SOLUTIONS INC.

Environment & Engineering

7B, 650 Woodlawn Rd. W, Guelph, ON N1K 1B8

D 289.323.3780 C 519.803.3208

www.matrix-solutions.com



View results

Respondent

1 Anonymous

06:24

Time to complete

1. Do you have any questions about the Schedule 'C' Municipal Class EA process? *

Yes

2. Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (Making Room for the Creek) for the **Dixie Area**? *

Yes

3. Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (25 m Span Bridge) for the **Dundas Area**? *

Yes

4. Do you have any comments or concerns about the alternative design concepts and evaluation for the **Dixie Area**? *

Yes

5. Do you have any comments or concerns about the alternative design concepts and evaluation for the **Dundas Area**? *

Yes

6. Are you satisfied with the proposed flood mitigation solution? *

- Yes
- No
- Unsure

7. Based on the presentation, do you feel there is anything further you would like to share?

Yes. East of dixie creek turns 90 degree which cause flow blockage. Why not put curved relief pipes through industrial area tup to dundas bridge.

8. What is your name: *

9. Email Address *

10. Address:

The following question is optional

11. Telephone No.:

The following question is optional

12. My property interest is: (Please check all that apply) *

- Within the Study Area
- Outside the Study Area
- General Interest
- Regulatory Interest
- Residential Property
- Commercial/Industrial Property
- Recreational Property
- Other

13. Do you want to be added to the project mailing list?

- Yes
- No

View results

Respondent

3

Anonymous

94:48

Time to complete

1. Do you have any questions about the Schedule 'C' Municipal Class EA process? *

No

2. Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (Making Room for the Creek) for the **Dixie Area**? *

I support the preferred alternative solution.

3. Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (25 m Span Bridge) for the **Dundas Area**? *

When will the City of Mississauga implement the preferred alternative solution?

4. Do you have any comments or concerns about the alternative design concepts and evaluation for the **Dixie Area**? *

Not addressing this issue results in a continued risk for public health and safety

5. Do you have any comments or concerns about the alternative design concepts and evaluation for the **Dundas Area**? *

No

6. Are you satisfied with the proposed flood mitigation solution? *

Yes

No

Unsure

7. Based on the presentation, do you feel there is anything further you would like to share?

No

8. What is your name: *

9. Email Address *

10. Address:

The following question is optional

11. Telephone No.:

The following question is optional

12. My property interest is: (Please check all that apply) *

- Within the Study Area
- Outside the Study Area
- General Interest
- Regulatory Interest
- Residential Property
- Commercial/Industrial Property
- Recreational Property
- Client's Property Within Study Area

13. Do you want to be added to the project mailing list?

- Yes
- No

View results

Respondent

4 Anonymous

33:35

Time to complete

1. Do you have any questions about the Schedule 'C' Municipal Class EA process? *

no

2. Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (Making Room for the Creek) for the **Dixie Area**? *

See below

3. Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (25 m Span Bridge) for the **Dundas Area**? *

See below

4. Do you have any comments or concerns about the alternative design concepts and evaluation for the **Dixie Area**? *

See below

5. Do you have any comments or concerns about the alternative design concepts and evaluation for the **Dundas Area**? *

See below

6. Are you satisfied with the proposed flood mitigation solution? *

Yes

No

Unsure

7. Based on the presentation, do you feel there is anything further you would like to share?

We are opposed to this project on the basis that it is essentially an overreaction to a minor problem. I back on to the creek and have experienced no harm or damage to my property as has been the experience of my neighbours. The creek flooding has been limited to the creek area. The amount of money time and resources you plan to divert to this project are phenomenal and out of proportion to the scale of the problem. This enterprise is priority level -10.

The biggest beneficiaries of this project will be the two billionaire developers and their new developments on Dundas St. adjacent to the creek. You are asking the citizens of this city to subsidize say some \$30,000,000 to these billionaires who will then increase the population of the area by 2-3,000 people and make existing residents lives unbearably congested and unlivable compared to our current conditions. This is a definite NO for anyone who understands the ulterior agenda and intent of this fool hearty and unnecessary enterprise.

If the developers need this project to get their developments built, which at least one of them does, then let them pay for it out of their own deep pockets. Each resident taxpayer with already rounded shoulders from the onerous burden of existing taxes is to be further clipped to pay for an unnecessary \$30,000,000 project they don't want or need so that those developers can benefit ? Does that sound fair to you? It certainly doesn't sound fair to me. My name is not Santa Claus and Santa Claus couldn't afford to live here anyway with these lavish and grandiose schemes.

8. What is your name: *

9. Email Address *

10. Address:

The following question is optional

11. Telephone No.:

The following question is optional

12. My property interest is: (Please check all that apply) *

- Within the Study Area
- Outside the Study Area
- General Interest
- Regulatory Interest
- Residential Property
- Commercial/Industrial Property
- Recreational Property
- Other

13. Do you want to be added to the project mailing list?

Yes

No

View results

Respondent

5

Anonymous

16:29

Time to complete

1. Do you have any questions about the Schedule 'C' Municipal Class EA process? *

How much does the impacted residents feedback weigh in the final decision of cancellation of project?

2. Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (Making Room for the Creek) for the **Dixie Area**? *

I do have concern for those changes. I have lived in this area for many years and do not see the flooding issue severity should cause this costly project and take the creek away from the residents who has been lived and enjoyed it for many years, some are more than 20 years. If there is flood issue you want to address, you can enhance existing creek bank with far less cost instead of reroute the creek.

3. Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (25 m Span Bridge) for the **Dundas Area**? *

It does not need this change.

4. Do you have any comments or concerns about the alternative design concepts and evaluation for the **Dixie Area**? *

I do have concern of the solution. The green belt / creek extend to north and residents including kids hike and bike along the trail via the path under the bridge. Without the bridge, we have to pass through bloor street from ground level. That introduces high safety risk. We do not want our life to be impacted.

5. Do you have any comments or concerns about the alternative design concepts and evaluation for the **Dundas Area**? *

It does not need this change.

6. Are you satisfied with the proposed flood mitigation solution? *

Yes

No

Unsure

7. Based on the presentation, do you feel there is anything further you would like to share?

8. What is your name: *

9. Email Address *

10. Address:

The following question is optional

11. Telephone No.:

The following question is optional

12. My property interest is: (Please check all that apply) *

- Within the Study Area
- Outside the Study Area
- General Interest
- Regulatory Interest
- Residential Property
- Commercial/Industrial Property
- Recreational Property
- Other

13. Do you want to be added to the project mailing list?

- Yes
- No

View results

Respondent

6 Anonymous

04:42

Time to complete

1. Do you have any questions about the Schedule 'C' Municipal Class EA process? *

No

2. Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (Making Room for the Creek) for the **Dixie Area**? *

No

3. Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (25 m Span Bridge) for the **Dundas Area**? *

No

4. Do you have any comments or concerns about the alternative design concepts and evaluation for the **Dixie Area**? *

No

5. Do you have any comments or concerns about the alternative design concepts and evaluation for the **Dundas Area**? *

No

6. Are you satisfied with the proposed flood mitigation solution? *

- Yes
- No
- Unsure

7. Based on the presentation, do you feel there is anything further you would like to share?

No

8. What is your name: *

9. Email Address *

10. Address:

The following question is optional

11. Telephone No.:

The following question is optional

12. My property interest is: (Please check all that apply) *

- Within the Study Area
- Outside the Study Area
- General Interest
- Regulatory Interest
- Residential Property
- Commercial/Industrial Property
- Recreational Property
- Other

13. Do you want to be added to the project mailing list?

- Yes
- No

View results

Respondent

7 Anonymous

21:12

Time to complete

1. Do you have any questions about the Schedule 'C' Municipal Class EA process? *

not right now

2. Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (Making Room for the Creek) for the **Dixie Area**? *

not right now

3. Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (25 m Span Bridge) for the **Dundas Area**? *

not right now

4. Do you have any comments or concerns about the alternative design concepts and evaluation for the **Dixie Area**? *

not right now

5. Do you have any comments or concerns about the alternative design concepts and evaluation for the **Dundas Area**? *

not right now

6. Are you satisfied with the proposed flood mitigation solution? *

Yes

No

Unsure

7. Based on the presentation, do you feel there is anything further you would like to share?

8. What is your name: *

9. Email Address *

10. Address:

The following question is optional

11. Telephone No.:

The following question is optional

12. My property interest is: (Please check all that apply) *

- Within the Study Area
- Outside the Study Area
- General Interest
- Regulatory Interest
- Residential Property
- Commercial/Industrial Property
- Recreational Property
- Other

13. Do you want to be added to the project mailing list?

- Yes
- No

View results

Respondent

8 Anonymous

06:33

Time to complete

1. Do you have any questions about the Schedule 'C' Municipal Class EA process? *

1. Yes – the current Schedule shows the ESR to be completed this summer. Recently Council approved an additional scope of work for the City’s consultant – will this delay the completion timeline for the ESR?

2. Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (Making Room for the Creek) for the **Dixie Area**? *

2. Yes – if the City cannot reasonably purchase the lands for the “making room for the creek” solution – will it expropriate? Also – what is the sequencing plan for implementation – will Dixie or Dundas works go first? If one set of works reduces/eliminates spill waters of an affected property would the City allow the development to proceed in advance of all works being in-place?

3. Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (25 m Span Bridge) for the **Dundas Area**? *

NO

4. Do you have any comments or concerns about the alternative design concepts and evaluation for the **Dixie Area**? *

NO

5. Do you have any comments or concerns about the alternative design concepts and evaluation for the **Dundas Area**? *

NO

6. Are you satisfied with the proposed flood mitigation solution? *

Yes

No

Unsure

7. Based on the presentation, do you feel there is anything further you would like to share?

7. Yes – given that large expanses of lands (roads and private property) are affected by spill waters from the Little Etobicoke Creek, and given that the implementation timeline exceeds 10 years, would the City and TRCA be open to Interim Flood Management works on private lands slated for development subject to satisfying MNRF depth, velocity and depth*velocity criteria? If so, we suggest that the City consider integrating this perspective into its Class EA implementation section, as a form of guidance to future development proponents and City staff and TRCA staff. This is important given that one of the principal objectives of the Project is to “enable future growth and development”.

8. What is your name: *

9. Email Address *

10. Address:

The following question is optional

11. Telephone No.:

The following question is optional

12. My property interest is: (Please check all that apply) *

- Within the Study Area
- Outside the Study Area
- General Interest
- Regulatory Interest
- Residential Property
- Commercial/Industrial Property
- Recreational Property
- Future development

13. Do you want to be added to the project mailing list?

- Yes
- No

View results

Respondent

9 Anonymous

01:35

Time to complete

1. Do you have any questions about the Schedule 'C' Municipal Class EA process? *

No

2. Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (Making Room for the Creek) for the **Dixie Area**? *

Yes

3. Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (25 m Span Bridge) for the **Dundas Area**? *

Yes

4. Do you have any comments or concerns about the alternative design concepts and evaluation for the **Dixie Area**? *

Yes

5. Do you have any comments or concerns about the alternative design concepts and evaluation for the **Dundas Area**? *

Yes

6. Are you satisfied with the proposed flood mitigation solution? *

- Yes
- No
- Unsure

7. Based on the presentation, do you feel there is anything further you would like to share?

██████████ will be submitting correspondence directly to staff on this matter by end of day June 23, 2023.

8. What is your name: *

9. Email Address *

10. Address:

The following question is optional

11. Telephone No.:

The following question is optional

12. My property interest is: (Please check all that apply) *

- Within the Study Area
- Outside the Study Area
- General Interest
- Regulatory Interest
- Residential Property
- Commercial/Industrial Property
- Recreational Property
- Other

13. Do you want to be added to the project mailing list?

- Yes
- No

View results

Respondent

10 Anonymous

06:31

Time to complete

1. Do you have any questions about the Schedule 'C' Municipal Class EA process? *

No

2. Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (Making Room for the Creek) for the **Dixie Area**? *

No

3. Do you have any questions, comments, or concerns about the alternative evaluation and the preferred alternative solution (25 m Span Bridge) for the **Dundas Area**? *

No

4. Do you have any comments or concerns about the alternative design concepts and evaluation for the **Dixie Area**? *

No

5. Do you have any comments or concerns about the alternative design concepts and evaluation for the **Dundas Area**? *

No

6. Are you satisfied with the proposed flood mitigation solution? *

- Yes
- No
- Unsure

7. Based on the presentation, do you feel there is anything further you would like to share?

8. What is your name: *

9. Email Address *

10. Address:

The following question is optional

11. Telephone No.:

The following question is optional

12. My property interest is: (Please check all that apply) *

- Within the Study Area
- Outside the Study Area
- General Interest
- Regulatory Interest
- Residential Property
- Commercial/Industrial Property
- Recreational Property
- Other

13. Do you want to be added to the project mailing list?

- Yes
- No

Appendix D
Indigenous Communities Feedback

Indigenous Engagement Plan

Cambium Indigenous Reference No.: 18-1077-001

May 26, 2020

Prepared for: City of Mississauga



Cambium Indigenous Inc.

1109 Mississauga Street
Curve Lake, Ontario, K0L1R0

Telephone: (705) 657.1126

Facsimile: (705) 657-9231

cambiumaboriginal.com

Please be advised that this is a living document and is constantly being updated to reflect changes in policy or procedures both from the Indigenous and Western Knowledge Views.

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1.0 INTRODUCTION

Cambium Aboriginal Inc. in partnership with Matrix Solutions Inc. has been retained by the City of Mississauga to conduct a Feasibility Study then a Municipal Environmental Assessment to address flooding within the Dixie and Dundas Road Area of the City of Mississauga.

Municipal Class Environmental Assessments (EAs), are completed by engineers and consultants on behalf of Ontario municipalities, under the Ontario Environmental Assessment (EA) Act for municipal road projects, and municipal water and wastewater projects.

It is more common now to see Indigenous engagement as a stand-alone fundamental process of the EA. As municipalities grow, so does their knowledge about Indigenous Rights and Title. Municipalities are learning to work alongside the treaty communities to create a balance of co-governance of the lands on which the municipality sit.

1.1 GUIDING OBJECTIVES OF AN INDIGENOUS ENGAGEMENT PLAN (IEP)

The overarching objectives of an IEP are:

- To Identify First Nation, Métis or Inuit interested communities, parties and stakeholders;
- To learn the cultural significance and importance of the lands and structures to the surrounding Indigenous groups through a variety of traditional and contemporary information exchange opportunities;
- To make known to identified Indigenous stakeholders the approach and objectives for the proposed project; and,
- To obtain comments and reviews from identified Indigenous stakeholders to allow the engagement team assess other potential impacts of particular importance to the Indigenous stakeholders.

1.2 DEFINITIONS

For the purpose of this Indigenous Engagement Plan:

“Indigenous” describes those Indigenous peoples of Canada as defined in the Constitution Act, 1982, subsection 35(2) including the Indian, Inuit and Métis peoples of Canada;

“Indigenous or Indigenous Community” means First Nation, Métis and Inuit community

“IEP” means Indigenous Engagement Plan

“Project” means the Proposed Works.

2.0 BACKGROUND ON PROPOSED WORKS AND PROPONENT

2.1 WHAT DOES INDIGENOUS COLLABORATION FOR A PLAN LOOK LIKE?

Indigenous Peoples have a unique, complex relationship with land that extends beyond using land for their personal or community needs or as the life-support system for foods they harvest and consume. Indigenous relationships

with land include cultural, spiritual, economic, stewardship, governance and rights-based aspects. Ensuring that these relationships can continue is critical to our future. This engagement process results in decisions (such as plans, frameworks, or approaches) that incorporate First Nation perspectives

2.2 WHO IS PROJECT TEAM:

2.2.1 CAMBIUM ABORIGINAL INC.

Cambium Aboriginal Inc. is an Indigenous company that provides seven integrated service lines designed to honour Turtle Island and ensure that our lives can be sustained for many generations to come. We care about the world we live in. We care about the impact we have had in the past and we care about the impact we may have on the future.

Our environmental team specializes in municipal policy planning, natural heritage systems planning and environmental management, and development planning in the public and private sectors. We have provided a range of planning services to upper-tier and lower-tier municipalities, federal and provincial government agencies, First Nations, NGOs, and the private development sector.

2.2.2 MATRIX SOLUTIONS INC.

In Ontario, Matrix is known as an innovative consulting team that specializes in integrated water resource assessment with a particular focus on characterizing and understanding surface water interactions and watershed management. The team members introduced in this proposal bring complementary expertise to this project. Our highly competent team brings extensive technical experience in fluvial geomorphology, water resource engineering, aquatic sciences, and landscape design.

Project Manager (Matrix) - Mr. Stephen Braun, P.Eng. has over 30 years of consulting engineering and water resources experience managing a broad array of investigative and design projects. He specializes in floodplain definition and risk assessment, stormwater management, and low impact development approaches. Mr. Braun has specialized knowledge and experience in urban flood remediation, hydraulic modelling, hydrologic modelling, flood line studies, stormwater quality, and municipal servicing and drainage design. Most recently he was Project Manager (PM) of the Phase 2 Integrated Riverine and Urban Flood Risk Analysis and Urban Design Study project in the City of Brampton and serves as a Technical Advisor to the related and ongoing Downtown Brampton Flood Plain EA project. Mr. Braun has been PM for several urban Two Zone floodplain studies including Schneider Creek in downtown Kitchener, Ontario and Goodman Creek in downtown Oshawa.

Project Coordinator (Matrix) – Andrew Doherty, P.Eng is a Water Resources Engineer with over five years of consulting experience. His work primarily focuses on bridge and pipeline watercourse crossings, river engineering and geomorphology, and mine surface water management. He contributes to a broad range of projects within these focus areas for both private and public sector clients located in Ontario and Alberta. These have included highly visible, public projects on the Bow River in downtown Calgary, watercourse crossing designs and surface water management in rural, northern Alberta in support of resource development projects, and natural channel designs in locations ranging from the eastern slopes of the Rocky Mountains to residential development sites in the Greater Toronto Area.

2.2.3 OUR CLIENT

The City of Mississauga project team consists of multi-disciplinary engineers, planners, technical specialists, and support staff.

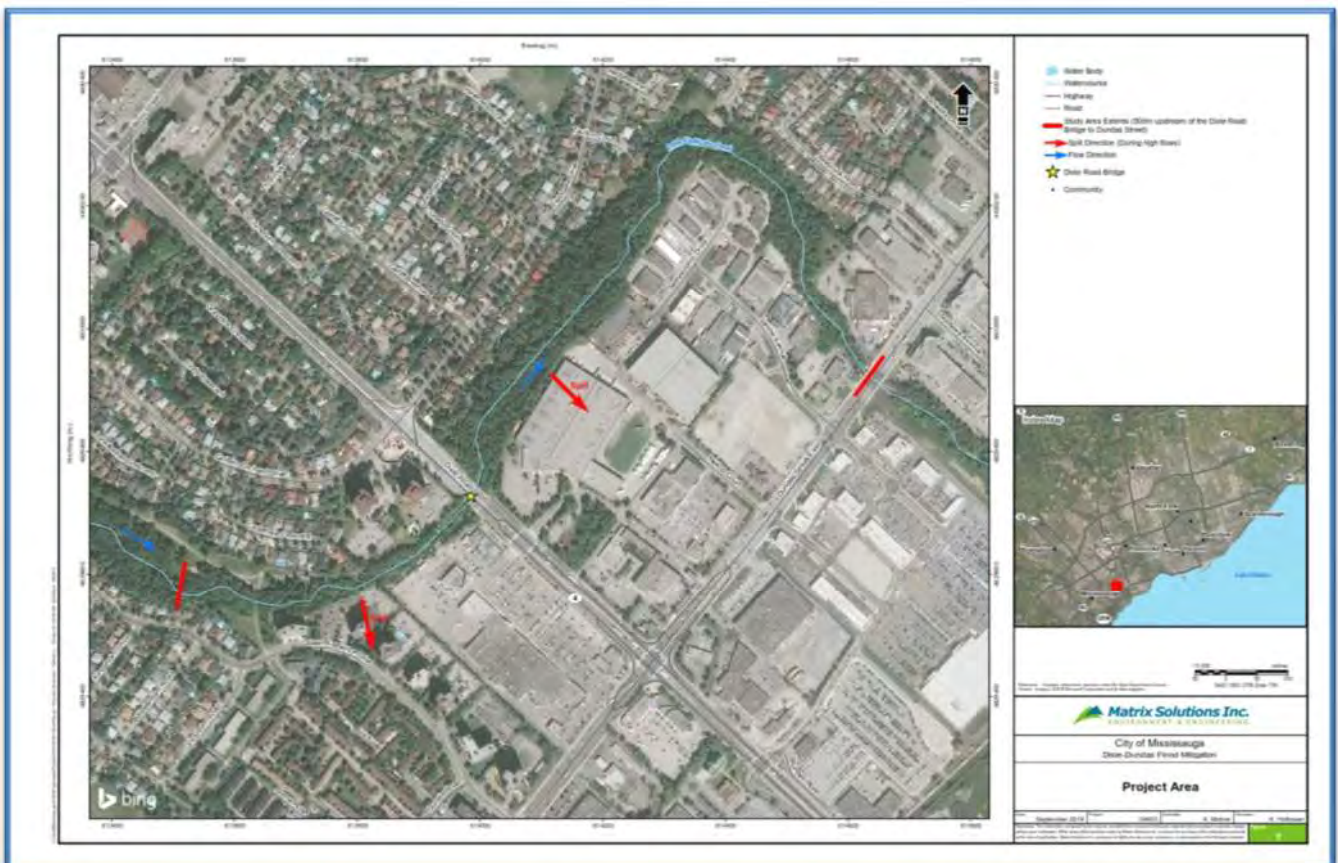
3.0 INDIGENOUS COMMUNITY AND RIGHTS IDENTIFICATION

Strategies for consulting with First Nations are as varied as the histories, cultures, traditions and worldviews of the over 600 First Nation communities in Canada themselves. There is not a "one size fits all" template because each community requires different consultation processes, some communities will have their own policies or templates for consultation, and each provincial and territorial jurisdiction has its own regulations. Our process follows a guiding principle, "If it touches the treaty or traditional territory then those Indigenous communities require notification."

3.1 PROJECT LOCATION

The project is located within the city limits of the City of Mississauga between the intersections of Dixie Road and Dundas Street East. The project footprint will not extend past Bloor Street. Please see the appended figure, illustrating the flood area within the project area.

3.1.1 FIGURE 1: SITE LOCATION MAP



3.2 TREATY RESEARCH FINDINGS

There is no single correct way to do treaty research, but once one has become acquainted with the principal terms and sources of treaty documents it becomes a relatively simple matter to locate the text of a treaty. It can be a bit more difficult to discover the current status of a particular treaty. In addition, it can be quite a challenge to find information about the negotiation or legislative history of a treaty.

3.2.1 HEAD OF THE LAKE TREATY NO. 14

A day after the Toronto Purchase agreement was reached in 1805, the Mississaugas of the Credit were asked to sell lands immediately west of the lands they had ceded the day before. A provisional agreement was reached with the Crown on August 2, 1805, in which the Mississaugas ceded 70,784 acres of land bounded by the Toronto Purchase of 1787 in the east, the Brant Tract in the west, and a northern boundary that ran six miles back from the shoreline of Lake Ontario. In return for the land, the Mississaugas were to receive £1000 of trade goods and the sole right of fisheries at 12- and 16-Mile Creeks along with the possession of each creek's flats. In addition, the Mississaugas also reserved the sole right of fishing at the Credit River and were to retain a 1-mile strip of land on each of its banks. On September 5, 1806, the signing of Treaty 14 confirmed the Head of the Lake Purchase between the Mississaugas of the Credit and the Crown. Modern cities found within the lands of the Head of the Lake Purchase include Oakville, Mississauga, and parts of Burlington.

3.2.2 TREATY 22 AND 23

The completion of the Ajetance Treaty of 1818 left the Mississaugas of the Credit with three small reserves at 12 Mile Creek, 16 Mile Creek and the Credit River. Claus promised that the proceeds of the sale would be used to instruct the Mississaugas in the rudiments of the Christian religion and to provide education for their children. In addition, a portion of land consisting of 200 acres located in southeasterly portion of the Credit River Reserve would be set aside as a village site for the Mississaugas. On February 8, 1820, according to the terms of Treaty 22, the Mississaugas acquiesced to the Crown and ceded their lands at 12- and 16-Mile Creeks along with northern and southern portions of the Credit River Reserve. Treaty 23, negotiated later the same day, saw the central portion of the Credit River Reserve, along with its woods and waters, ceded to the Crown for £50.

Based on the outcome of our research we have determined that the following First Nation has been contacted:

- Mississauga of the Credit First Nation

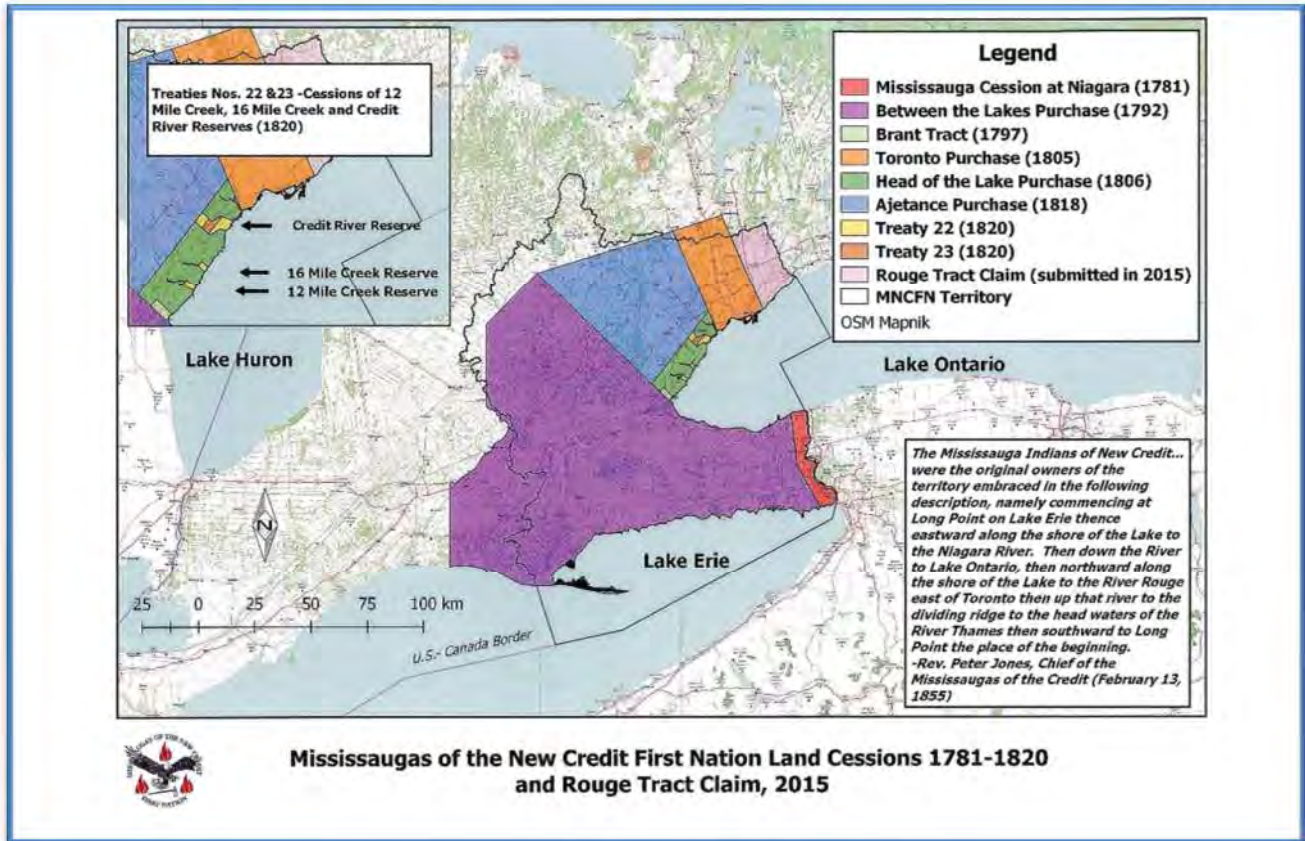
3.2.3 INDIGENOUS COMMUNITY PROFILES

There are more than 630 First Nation communities in Canada, which represent more than 50 distinct Nations and 50 Indigenous languages. The following are a breakdown profile of the communities within your project area.

Mississaugas of the Credit First Nation

Mississaugas of the Credit First Nation is located 16 km South East of Brantford and has governs 2392.6 hectares of land. The First Nation has a total registered population of 2599.

3.2.4 FIGURE 2: MISSISSAUGA OF THE CREDIT FIRST NATION



3.2.5 COMMUNITY ADDRESS, LEADERSHIP AND CONSULTATION LIAISONS

Indigenous communities were identified through several data sources, consultations with elders and knowledge keepers as well as legal representation. It should be noted that this list might grow depending on the information exchange that may occur between the City of Mississauga and Indigenous stakeholders. It is often identified through communications that other Indigenous communities or groups may have an ancestral or treaty tie to locations across Canada that have only been documented through the community’s local oral traditions. If additional communities or organizations are added to the above list, this will be noted in final reports and these additional stakeholders invited to participate in the engagement process. The following constitutes the initial Indigenous Community list for engagement:

3.2.6 TABLE 1: LEADERSHIP AND CONSULTATION CONTACT

Community	Leadership (02/27/2020)	Consultation Representative	Address
Mississauga of the Credit First Nation	Chief R. Stacey Laforme	Fawn Sault	4065 Hwy. 6, Hagersville, ON NOA 1H0

4.0 OBJECTIVES OF THE INDIGENOUS ENGAGEMENT PLAN (IEP)

The objectives of this IEP are to:

- Establish a workflow and communication protocol for all members of the project team, regulator(s), and/or funders;
- Generate a key contact list of Indigenous Community members or organizations;
- Generate and send a project notification to all identified Communities once the notification communication is approved by the client and project team;
- Develop a protocol for follow up with individual Indigenous Communities/Organizations to initiate the dialog of engagement and confirm project notification;
- Obtain comments and reviews from identified Indigenous stakeholders to allow the project team to assess other potential impacts of particular importance to the Indigenous Communities;
- Identify the best methods for further engagement activities with interested Communities; and
- Generate a record of engagement based on the findings.

4.1 PURPOSE OF ENGAGEMENT

Engagement with First Nations and Indigenous Peoples/Groups early in the planning and design phases of a proposed project can benefit all concerned. There have been instances where failure to participate in a process of early engagement with First Nations and Indigenous People has led to avoidable project delays and increased costs to proponents.

Although only the Crown is legally obligated to consult with First Nations and Indigenous People concerning the possible effects of Crown actions with respect to proposed projects on established or potential Indigenous rights, early engagement with Indigenous groups by the proponent can yield a number of positive results.

Those benefits include:

- enhancing relationships,
- promoting trust,
- improving the understanding by Indigenous groups of the proposed project and its objectives,
- and assisting the proponent to understand the interests and concerns of those living in the affected area.

With this understanding and information, the proponent can begin to discuss practical strategies for maximizing the project's potential positive impacts, while eliminating or mitigating, its possible negative consequences.

4.2 PRINCIPLES OF ENGAGEMENT

While there are different approaches for the individual, community and stakeholder levels of engagement, the following principles have been identified by Cambium Aboriginal as fundamental for the successful development of any engagement project.

Respect

There must be an understanding that traditional knowledge is based on thousands of years of empirical experience on the lands, as well as the traditional laws and beliefs of First Nations peoples. Without this depth of traditional knowledge, First Nations peoples would not have survived so successfully, or created society and culture in these lands. Respect of the traditional knowledge of First Nations peoples is an integral part of the engagement process.

Protocols

Indigenous communities have their own traditional cultural and social practices, which include laws and governance protocols. They are usually delivered orally. Indigenous laws have been in place for generations and cannot be diminished by Treaties. Cambium Aboriginal continues to work with communities to understand and adhere to their preferred methods of engagement respecting both written and cultural protocols when identified.

Commitment

Commitment is important for sustaining long-term and effective partnerships and relationships with First Nations and Indigenous Peoples and Groups. Develop a plan with the First Nation to continue to build on the partnership and relationship after a project is completed: i.e.: Trusts, endowment fund, scholarships, project revenues.

Outcomes of any engagement plan or partnership is the legacy that will and should be a key part of any project proposed with First Nations as part of the overall planning.

4.3 CONSULTATION VS. ENGAGEMENT

Consultation refers to the legal obligations of the Crown (Government) when Indigenous interests (rights and title) may be adversely affected by a Crown decision. Consultation consists of information sharing between government and affected First Nations and seeks to resolve potential adverse impacts to Indigenous interests.

Engagement is different from consultation. Engagement aims to build and enhance relationships with First Nations and Indigenous Peoples/Groups by exchanging information in the absence of legal consultation obligations. The purpose of engagement is to build trust, create meaningful relationships, to have the knowledge of neighbouring communities and of Indigenous matters. This includes information sharing regarding regulations, policy, legislation and procedures.

4.4 EARLY ENGAGEMENT

Early interaction through information sessions, written correspondence, and/or meetings with the First Nation leaders and Indigenous Peoples/Groups will set the stage for developing relationships that may extend well beyond the planning and design phases of a project.

First Nations and Indigenous Peoples/Groups may request that a formal agreement or protocol be developed with a proponent, as a means to incorporate traditional knowledge and optimize the benefits of the prospective project. Although engagement agreements or protocols may require additional time and resources, they can demonstrate significant value by ensuring that all parties understand the proposed engagement process on a basis of good faith.

4.5 INTEGRATING WITH OTHER DOCUMENTS

Outcomes from the engagement process will be incorporated into various documents created by the project team. Indigenous knowledge and input are critical at creating a holistic well-balanced project with achievable targets and results.

5.0 TRADITIONAL ENGAGEMENT PROCESS

As more and more team members join the project it is important to remember to keep the flow of information limited to the Engagement team. Over complication of sharing wrong or not finalized information does not build a clear transparent engagement process. Often resulting in a frustrated project team, a confused First Nation and a greater cost to our clients. The following table is a breakdown that the Engagement team will be presenting to the overall Project team of the flow and distribution of information.

5.1 PROJECT TEAM COMMUNICATION STRATEGY

5.1.1 TABLE 2: TEAM COMMUNICATION STRATEGY

Communication Type	Purpose	Audience	Author	Vehicle	Frequency
Status Reports	To keep stakeholders and Indigenous Communities informed of progress, issues and resolutions	Project Director/ project team, client contactors and Indigenous community contact(s)	Project Director with or/and reviewed by Cambium Aboriginal (for diction and content)	Email	Monthly (if possible) or as needed
Team Meetings	To ensure all team members are aware of progress, changes/issues and current priorities	Project Team Members	Project Director or Technical Project Manager	Face to Face meetings or conference call	Weekly (if possible)
Communications to Indigenous Communities	To distribute meeting materials, collect feedback, alert Indigenous communities to document changes, share information and answer questions between meetings.	Indigenous communities and (select) Project Team	Cambium Aboriginal with review from Project Director/Indigenous Liaison (if available) Cambium Aboriginal is to create a document based on engagement	Email with possible Face to Face meetings	As needed/required
Shared Project Folder	Retains all current project documentation	All stakeholder, Indigenous Communities and Project Team	Technical Project Manager, Project Team and Regulator/Funder (if Desired) Cambium Aboriginal is responsible to ensure all Indigenous Communities' are updated with their best possible method of information sharing	Web based <Shared Folder Location >	Uploaded revisions no later than 48 hours of change
Chief and Council/ Knowledge Keepers/ Community Meetings	To present information, work plan changes, collect feedback on updates and answer questions membership may have	Membership of the Indigenous Community, Project Team and Technical Experts	Cambium Aboriginal will Facilitate all meetings with presentations of work from Project Director/Indigenous Liaisons alongside technical experts. Cambium Aboriginal will create a document of "summary of event"	Face to Face	As needed/required
Regulator Engagement/ Communications –IF REQUIRED	Any communications that require authorization or notice outside of the project team	Regulator, Project Director and project team	Project Director/Project team with support from Cambium Aboriginal	Email with possible Face to Face meetings. Follow up written documentation	Monthly

5.2 COMMUNITY NOTIFICATIONS AND INTRODUCTIONS

Engagement is required with the Indigenous communities whose traditional territory coincides with the geographic area where the project occur. Ultimately, it is the proponent that is best-positioned to inform Indigenous communities of the details concerning the proposed project. The proponent can effectively describe the project, identify technical issues and consider how to adjust the proposal and the scope of work to address issues identified during engagement process.

The following procedural aspects of engagement should be considered with notifying the community about a project:

- provide detailed project information to Indigenous communities to ensure they are reasonably informed as to the nature of the proposed activities and are aware of any potential environmental impacts, including the short- and long-term plans for the area;
- arrange meetings, by mutual agreement, with Indigenous communities elected officials, or authorized designate, to discuss appropriate means of consultation, recognizing community specific requirements;
- consult with the Indigenous communities to identify and discuss specific potential adverse impacts of the project on members ability to exercise their right to hunt, fish and trap for food and carry out traditional uses;
- consider the views of the Indigenous communities and, where necessary, work with the communities to avoid or minimize adverse impacts on the Indigenous community's ability to hunt, fish and trap for food and carry out traditional uses;
- document the engagement efforts and include the following in the engagement report:
 - attempts to contact and steps taken to consult with the Indigenous communities;
 - community concerns related to specific potential adverse impacts on Treaty and Aboriginal rights and traditional uses;
 - how the concerns identified were considered and, where appropriate, addressed by the proponent;
 - any outstanding issues the proponent was unable to address and reasons why;
 - any agreements developed with the communities; and
 - other relevant information related to community discussions; and if requested, participate in follow-up engagements.

5.3 MAINTAINING PROJECT WEBPAGES (IF DESIRED BY CLIENT)

IEP and project specific information and supporting materials will be presented in conjunction with the City of Mississauga website or social media. The content and information will be developed by the City of Mississauga with project specific information to specifically inform Indigenous stakeholders of the Project. This website will contain the following:

- A Project description;
- How the Project is funded;

- How this Project may affect the local Indigenous population;
- Time, date and location of Indigenous specific community information sessions;
- A Project email for interested Indigenous members of the public to issue comments and questions;
- An online survey to gather any cultural, historic or other feedback about the project and from which helps to form the agenda and content for the IEP information sessions;

5.4 NOTIFYING THE COMMUNITY - COMMUNITY MEMBER BULLETINS

Cambium Aboriginal will prepare a one page, 8.5” x 11” - Indigenous community member bulletin (reviewed in advance by Cambium Aboriginal) and distributed in, at a minimum one of the following:

- Community or organizational newsletters;
- Posted on community bulletin boards; and/or
- Posted to Stakeholder controlled social media or digital mailing lists.

These notices will be provided to stakeholders and provided to the community allowing for 15 days of review prior to scheduled community wide meetings and/or community wide information exchange sessions. The Community Member Bulletin will include the following information:

- A Project description;
- Information on how the project is funded;
- Information on the IEP consultation process on the whole;
- Information on how this Project affects the community;
- Time, date and location of public information session(s);
- A link to the website; and
- A Project email that will field comments and questions for interested members of the public.

5.5 INDIGENOUS NEWSWIRE NOTIFICATION

City of Mississauga and Cambium Aboriginal will provide a link to the Community Member Bulletin as well as a comprehensive list of all proposed public presentations to be conducted through the IEP to NationTalk for distribution to their Ontario based membership. NationTalk is Canada's premier Aboriginal newswire, employment, event and tender service. With one of the largest First Nation, First Nation professionals and First Nation citizens membership bases, NationTalk will provide information dissemination to geographically separated Indigenous people in the province.

Cambium Aboriginal will issue their release on three separate occasions, with a minimum of 15 days prior to the initial public presentation.

5.6 PUBLIC INFORMATION SESSION(S) / ENGAGEMENT EVENT(S) - TRADITIONAL STYLE OF ENGAGEMENT (IF POSSIBLE)

Community meeting/public information session(s) will be conducted by the City of Mississauga after the aforementioned engagement methods have been achieved. By way of invitations to participate, all stakeholders and their members will be invited to a suitable venue for an engagement event. When possible, engagement sessions will take place in First Nations to increase participation and provide economic growth to local businesses. I.E.: local caters, First Nation tours, Cultural Teachings etc.

The event agenda will include, at a minimum:

- Elder and/or Chief – Opening Prayer and Welcoming;
- City of Mississauga – Land Acknowledgement and Introduction of Team;
- Culturally relevant and stakeholder approved Indigenous opening;
- A plenary presentation to attendees prior to opening up the room to review storyboards and staff explanations of individual storyboards;
- Infographics and literature set up in the meeting place before the information session commences;
- Details of project scope and objectives, funding and budget, how the project affects the community, and an outline of the public engagement process leading up to the public information session;
- An opportunity for interested participants to render their feedback pertaining to the project;
- Open dialogue between community, City of Mississauga and the Indigenous Community pertaining to the project;
- Sharing of food, networking and culturally relevant City of Mississauga programming; and
- Culturally relevant and stakeholder approved Indigenous closing.

Transportation to and from communities will be provided and child-based learning will be provided during the public event to ensure that all community members, including youth, elders and families to participate.

It should be noted that these events are not intended to replace direct community meetings or presentations requested via leadership and consultation team communications. Moreover, the results of this information session will be formally reported in a document and distributed to stakeholders for their review. This report will be provided to ensure that the public meeting is a good, representative reflection of the community's point of view and is not biased by limited or specific community levels of participation at the session itself. The report will also be used to inform the stakeholders of the results and what issues were raised at the event.

5.7 OUTCOMES OF INITIAL ENGAGEMENT

With understanding, acknowledgement and willing to learn from First Nations and Knowledge Holders a trust is developed. Guidance, education and commitment will only enhance the relationship between stakeholders and First Nation Communities and individuals. Offering educational pieces about stakeholders' roles and responsibilities may

provide additional tools that a First Nation or Indigenous groups could utilize in their own future work planning and projects and true partnership developments take place.

Overall outcome of Indigenous Engagement is to build a foundation for stakeholders and First Nations to communicate effectively, build relationships to utilize each others knowledge and practices and to incorporate into planning.

5.8 NET OUTCOMES FROM OVERALL ENGAGEMENT

5.8.1 INDIGENOUS COMMUNITY ISSUE MANAGEMENT

Documentation and reporting of issues raised by Communities is a key component of the Indigenous Engagement process. Issues management clearly and accurately summarize the comments made by all interested persons to the project team for contemplation and incorporation into the project planning process.

5.8.2 INDIGENOUS COMMUNITY ACCOMMODATIONS

Not all engagement will give rise to accommodation. Accommodation is essential to the honourable process of reconciliation that is demanded by Section 35 and the honour of the Crown. However, there is no precise formula for determining when or how much accommodation may be required. In each case, the requirement is a process that demonstrates reasonableness and responsiveness to concerns raised, having regards to the particular circumstances and balancing of the various competing interests at stake.

5.8.3 WORKING GROUP

A positive outcome from this engagement activity is the formation of the City of Mississauga Indigenous Working group.

The City of Mississauga has the obligation of the duty to consult with First Nations when contemplating any action or a decision that may infringe upon proven or asserted Indigenous or treaty rights. Any snow management model that is implemented must recognize First Nations as partners in developing and implementing snow management plans now and into the future.

This working group can advise the City of Mississauga on:

- Maintaining an on-going dialogue with First Nations to better understand and incorporate the Indigenous perspective on water; and
- Continuing a collaborative dialogue with First Nations regarding permits, projects, initiatives and other topics of mutual interest.

5.9 INDIGENOUS ENGAGEMENT SUMMARY REPORT

After the engagement process has been completed and the Indigenous community and public information session(s) are complete, a consultation summary report will be completed to record the results of the engagement process. This report should contain the following:

- Methods of public consultation;

- All recorded contact with interested Indigenous Communities or Urban/off Reserve population;
- All feedback and questions received through consultation and information sessions; and
- Recommendations for the City of Mississauga on how to improve the Project to suit the community's needs based on the results of the public consultation process.

A summary of the consultation will be included in the final submission along with all other documents.

6.0 ENGAGEMENT SCHEDULE

Table 3 provides an overview of the timeline for the engagement activities during the Project process. The dates for stakeholder engagement activities are subject to change pending further project development, feedback from stakeholders and other factors such as changes in dates by outside circumstances.

6.1.1 TABLE 3: DRAFT CONSULTATION SCHEDULE

ITEM	DATE	DETAILS
Project website online		Includes Pre-Work: <ul style="list-style-type: none"> • PIC Appointment • Project Email Set-Up
Project Information Pamphlet		See Section 4.0
City of Mississauga PowerPoint Slide Deck		See Section 4.0
Engagement Database Creation		See Section 4.0 <ul style="list-style-type: none"> • Will Initiate Date
Leadership and Consultation Team Communications		See Section 4.1 <ul style="list-style-type: none"> • Will Initiate
IEP posted to project website		
Site Information posted to project website		
Community Member Bulletin		See Section 4.3 <ul style="list-style-type: none"> • Issued to All Stakeholders
Indigenous Newswire Notification		See Section 4.4
Public Information Session / Engagement Event		See Section 4.5
IEP Summary Report Submitted to the City of Mississauga		

Appendix A
Virtual Indigenous Engagement



Re: **Virtual Indigenous Engagement**

Introduction

Stakeholder engagement has traditionally taken place through offline methods such as face-to-face meetings, focus group consultations and round-table discussions at various project development phases. This type of stakeholder dialogue has been effective in enabling organizations/proponents to mitigate risk and build trust in their project by encouraging community buy-in and ownership.

Organizations that involve stakeholders from the initial planning phases of projects will reap the benefits of more accurate and considered decision-making processes. Widening the pool of expertise will not only reduce risks associated with local community or business rejection of projects, but will ensure that better decisions are made.

Despite the importance of engaging stakeholders from initial project development stages and the significant benefits of the internet in providing an accessible and flexible platform for such dialogue, many proponents are overlooking the opportunities of online stakeholder engagement.

With the developments taking place in online communications have changed the way organizations are able to interact with their Indigenous Communities and stakeholders. Online stakeholder engagement is now a crucial mechanism for those wanting to build long-term, dynamic relationships with stakeholders, allowing them to move beyond the limitations of offline engagement.

Online engagement, unlike its offline counterpart, offers continuously accessible communication channels. The web is available anytime from anywhere, overcoming the limitations of time and distance that may otherwise deter participation in engagement. It also provides stakeholders with a level platform from which to partake in dialogue. This is particularly useful in allowing for anonymity, which may encourage greater stakeholder involvement.

Proponents or participants are no longer restricted to mass communication campaigns; online stakeholder engagement tools enable businesses to present vast amounts of information in an easily searchable format, allowing individuals to find the information most relevant to them. Tools such as online evidence databases present key stakeholders with a searchable database of case studies, providing well-targeted, interactive information that is useful to stakeholders.

Advantages to Online Engagement Platforms

You widen your stakeholder base

Traditional methods of stakeholder engagement can be limiting. There is usually an upper limit to the number of people you can inform or consult, simply due to the expense of sending out paper documents or holding face-to-face sessions (these are often restricted by the number of people you can fit in a room).

Digital platforms allow you to widen your engagement base. Because information can be shared easily, you can quickly reach more stakeholders than the normal 'famous few' who traditionally have become the mainstay of many engagements.

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Additionally, allowing stakeholders to contribute online will attract many more people who might feel uncomfortable about speaking at meetings or coming to meet individuals face to face. It's also much easier to engage with the traditionally hard to reach, including young people, people with accessibility issues and those who have busy lives outside the community.

Having platforms with a dedicated individual to receive questions and comments and provide answer or clarification in real time will put the stakeholder at ease that they are being heard and input is expected.

Improve transparency and accountability

The use of online collaboration platform to engage stakeholders, you have a full audit trail of all activity, and can easily publish documents and responses for any audience of stakeholders. An audit trail can also make responses to Freedom of Information requests cheaper and simpler to fulfil – every item of information regarding a project is kept within one workspace. This, combined with widened participation, increases both transparency and accountability.

Decrease travel costs and Increase productivity

Face-to-face meetings are helpful for stakeholder engagement, especially when you need to collaborate and it provides opportunity for positive interaction. However, time, travel and logistic costs decrease when providing online engagement and provides opportunity for multiple individual stakeholders to participate where they otherwise may not be able to. Thanks to solutions like online collaboration software, you can share information, track projects and invite responses from any stakeholder with a PC or mobile device. This allows you to cut the number of meetings needed, reduce travel costs, break down geographical barriers, get faster responses and give stakeholders the tools to contribute between meetings, resulting in a faster pace of work.

Engagement and Consultations may improve because stakeholders can contribute in their own time, not just during a session held on regular office hours or at distant venues.

Methods

Development of an engagement strategy

Confirm the mandate and define the engagement objectives, success metrics, outline risks and potential issues. Project resourcing should be determined and the identification of the stakeholders and their needs assist in the high-level engagement/consultation approach.

To start developing your strategy you will need to:

- confirm your mandate
- define your engagement objectives
- define your metrics of success
- determine project resourcing
- determine your budget for engagement
- determine your timeline for engagement
- prepare to manage risks and issues.

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Confirm your mandate

Respectful engagement has purpose. When we invite someone to engage with us, we are asking them to invest their time to participate in our process and give their attention to the information we share. We are also investing our time and resources so we can give them our attention. It is reasonable for our stakeholders to expect a clear explanation of why we are engaging, what kind of participation we expect and what they can expect from us.

Confirming your mandate for online engagement is critical for respectful engagement.

A clear mandate should convey your engagement's:

- purpose and approach
- policies and procedures that you will apply when engaging
- intent on how you will use your stakeholder's input.

Articulating a clear mandate will help:

- manage reputational risks, participant expectations and stakeholder relations
- improve your user experience
- in the delivery of your objectives.

The International Association for Public Participation (IAP2) refers to the mandate as a 'promise to the public'. The promise to the public tells how government will use the public's input in the decision making process. IAP2 developed the Public Participation Spectrum to show how the purpose of engagement and the level of public participation relate to a promise to the public.

IAP2 spectrum

The IAP2 Spectrum defines five reasons why you may want to engage, to either:

1. inform
2. consult
3. involve
4. collaborate
5. empower.

Each reason invites varying degrees of participation, input and level of engagement. Where you are in the process, and who you are engaging with, will influence your reason to engage.

For example:

- engage to inform or involve certain stakeholders in your process before consulting
- collaborate with stakeholders to deliver outcomes after a consultation has closed.

Openly engaging early and continuously, and being transparent about the process can:

- inform policy development and planning
- help you tailor policy, programs and services to meet user needs
- improve the effectiveness of consultation and service delivery
- enhance communications



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- identify stakeholders and scope potential social, environmental and economic issues
- build trust in project team
- raise awareness about challenges
- provide useful inputs into options
- gain insights into community values and priorities
- enable agencies to track and manage issues
- build relationships and deliver better public services
- increase the effectiveness and acceptance of proposed changes.

Develop your engagement policy

An 'engagement policy' is the standard you apply when engaging. It defines the principles and rules of engagement for you and your stakeholders. It also provides a basis for your engagement strategy and ensures your project mandate and engagement principles are endorsed and implemented.

Define your engagement objectives

Engagement objectives are statements that define why you are engaging and what you hope to get out of the process. They will also help you decide who to engage and the best way to engage with them.

Try and make your objectives SMART:

- Specific – target a specific area for improvement, explain why you are engaging
- Measurable – quantify what you hope to get out of the process
- Assignable – specify who will do it
- Realistic – state what results can realistically be achieved within given constraints (such as available resources, expertise, time, budget)
- Time-related – specify when the results can be achieved.

Your objectives should reflect:

- your engagement purpose and policy
- the type and degree of engagement you're hoping to achieve at each phase.

Define your engagement objectives, outputs and deliverables early so that people will understand:

- what is expected of them
- how engagement will contribute to the successful delivery of the project.

Then you will know:

- what is practical and achievable within the budget and resources you have
- the skills and methods needed.



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Determine your timeline for engagement

Your online engagement will take a minimum of 11 weeks depending on your organization's processes for technology selection, procurement and establishment, and depending on how many stakeholder submissions you need to analyse.

Allow a minimum of:

- 3 weeks (ideally 4) to develop your strategy and approach, gather requirements, select and configure tools
- 6 weeks for stakeholder engagement – this needs to be sufficiently long enough so people can be notified and give considered responses
- 2 weeks for analysis, reporting and closing the feedback loop.

Digital Platforms for Engagement

Ensuring that the software will be easy and safe for the stakeholders to use is essential to encourage community involvement. Many consultation projects have multiple phases where the community needs to remain engaged. Make sure that you choose an engagement software that has all of the tools you need to keep your community and stakeholders engaged throughout all phases of the engagement. Some of the tools that your engagement platform should include are discussion forums, stories, surveys, interactive maps, polls, ideation/brainstorming tools, custom domains, integrations, site analytics and custom branding.

Ensure that you can easily access the data and that it is fully safe and protected. Data reports should include all participant activity with the option of real-time reporting. Ensure the ability of comment tagging and analysis to enable you to categorize by key words or phrases. Your consultation data should be easily exportable.

One of the main purposes of online engagement is that community and stakeholders can engage at any time and place that is convenient for them. Ensuring that the digital engagement software you choose is compatible on all sorts of devices is essential to making engaging easy and convenient.

24/7 auto-moderation is extremely important in ensuring that inappropriate comments or bad language is automatically removed from the engagement site. Your engagement platform should include a moderation system that automatically removes unwanted language and sends you an alert notification.

Prepare to manage risks and issues

To help manage those risks, you should develop an Issue and Risk Management Procedure (IRMP) for engagement. Some risks are predictable.

An IRMP should:

- map potential scenarios
- outline responses to foreseeable issues.

And will include clear processes to:

- monitor online channels, communities and content shared



- alert key staff of any issues or opportunities
- agree an approach to respond as soon as practical.

Before the engagement starts, you must provide channel and online community managers with:

- guidance on how to handle a social media mishap
- an agreed response policy
- key messages
- reference material.

To ensure consistent response and support ongoing engagement you should:

- use a risk register to track unforeseen issues
- evaluate and manage risk in real-time using agreed processes
- add responses to new issues raised to your published content where appropriate.

Some risks are predictable and you can prepare for them, while others will need an informed reaction. Draft content can be prepared to help with responses to potential questions and issues.

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Appendix B
Notification Letter - Sample

May 12, 2020



Mississaugas of the Credit First Nation
Department of Consultation and Accommodation
4065 Hwy. 6,
Hagersville, ON N0A 1H0

By email: Fawn.Sault@mncfn.ca

CC:

Re: Project Notification Letter- City of Mississauga, Dixie-Dundas Flood Mitigation.

Our File: 18-1077-001

Dear Fawn Sault, Consultation Manager:

INTRODUCTION

Cambium Aboriginal Inc. (Cambium Aboriginal) in partnership with Matrix Solutions Inc. has been retained by the City of Mississauga to conduct a Feasibility Study then a Municipal Environmental Assessment to address flooding within the Dixie and Dundas Road Area of the City of Mississauga. Through our initial research and review, we determine that this application's project falls within your community's traditional territory. We would like to send you this notice so that you are aware of potential activities within the territory.

WHO ARE WE?

Cambium Aboriginal has been providing engineering, planning, and environmental consulting services to public and private sector clients throughout Ontario from our office located in Curve Lake First Nation, Ontario.

Our environmental team specializes in municipal policy planning, natural heritage systems planning and environmental management, and development planning in the public and private sectors. We have provided a range of planning services to upper-tier and lower-tier municipalities, federal and provincial government agencies, First Nations, NGOs, and the private development sector.

In Ontario, Matrix is known as an innovative consulting team that specializes in integrated water resource assessment with a particular focus on characterizing and understanding surface water interactions and watershed management. The team members introduced in this proposal bring complementary expertise to this project. Our highly competent team brings extensive technical experience in fluvial geomorphology, water resource engineering, aquatic sciences, and landscape design.

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PROJECT TEAM

Project Manager (Matrix) - Mr. Stephen Braun, P.Eng. has over 30 years of consulting engineering and water resources experience managing a broad array of investigative and design projects. He specializes in floodplain definition and risk assessment, stormwater management, and low impact development approaches. Mr. Braun has specialized knowledge and experience in urban flood remediation, hydraulic modelling, hydrologic modelling, flood line studies, stormwater quality, and municipal servicing and drainage design. Most recently he was Project Manager (PM) of the Phase 2 Integrated Riverine and Urban Flood Risk Analysis and Urban Design Study project in the City of Brampton and serves as a Technical Advisor to the related and ongoing Downtown Brampton Flood Plain EA project. Mr. Braun has been PM for several urban Two Zone floodplain studies including Schneider Creek in downtown Kitchener, Ontario and Goodman Creek in downtown Oshawa.

Project Coordinator (Matrix) – Andrew Doherty, P.Eng is a Water Resources Engineer with over five years of consulting experience. His work primarily focuses on bridge and pipeline watercourse crossings, river engineering and geomorphology, and mine surface water management. He contributes to a broad range of projects within these focus areas for both private and public sector clients located in Ontario and Alberta. These have included highly visible, public projects on the Bow River in downtown Calgary, watercourse crossing designs and surface water management in rural, northern Alberta in support of resource development projects, and natural channel designs in locations ranging from the eastern slopes of the Rocky Mountains to residential development sites in the Greater Toronto Area.

On many projects, Mr. Doherty is involved from the conceptual and detailed design phases through to construction planning, regulatory permitting and approvals, and construction oversight. Working on a range of engineering problems from conceptual design to completion has helped Mr. Doherty cultivate a diverse skill set which he contributes to the development of practical, technically sound engineering solutions.

Indigenous Engagement Specialist (Cambium Aboriginal)-Gary Pritchard, is a member of Curve Lake First Nation and has travelled and worked in 286 First Nations communities throughout Canada. He brings a wealth of knowledge to both his Indigenous and non-Indigenous cliental performing a wide variety of services including: Indigenous Community Planning, land use/traditional knowledge studies, capacity building, mediator between western science and traditional science and peer reviewer on behalf of Indigenous communities. One of Gary's greatest strength is that he is often able to be the one who acts as the bridge between the Indigenous Community and the western style of government.

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OUR CLIENT

The City of Mississauga project team consists of multi-disciplinary engineers, landscape architects, planners, ecologists, technical specialists, and support staff

NATURE AND SCOPE OF ACTIVITY

The City's objective for this project is to modify the natural and built infrastructure of Little Etobicoke Creek, such that flood flows are contained within the floodplain upstream of Dixie Road, thereby removing the spill that flows towards the Applewood Creek watershed during large rainfall events. There is no experience quite like a flood to demand attention and action, and the one observed recently during the July 8, 2013 storm event has brought urgency to address this flooding problem. As a result of this flood, over 1000 residential and commercial buildings, between the flood location and the QEW, are at risk of flood damage. Of these, over 450 unique buildings are adjacent to high risk flooding, as defined by MNR's depth, velocity, and depth-velocity product criteria.

The many complications of achieving the simple goal of keeping the watercourse in its own banks/valley system are tremendous. However, success in this task will result in a great reduction of flood risk in the surrounding neighbourhoods, as well as areas further downstream (e.g. Dixie Outlet Mall). It will also facilitate future development envisioned by the ongoing recent Dundas Connects project and other City initiatives could potentially be achieved.

The project team will be conducting a Feasibility Study that will follow Phases I and II of the Municipal Class EA process, but will not include the formal Notice of Commencement and public engagement elements. The purpose of the Feasibility Study is to:

- identify the problem / opportunity;
- develop flood protection alternatives;
- and assess alternatives at a high level.

The feasibility study will consist primarily as a series of technical studies to determine existing and potential future conditions within the study area. We will coordinate these studies in unison to determine whether any of the alternatives are technically and/or fiscally achievable prior to proceeding with a full EA. We anticipate that through the feasibility study, a short list of alternatives will be developed for the EA and a preliminary preferred alternative will be selected in order to confirm the EA as a Schedule B or Schedule C water and wastewater project.

PROJECT LOCATION

The project is located within the city limits of the City of Mississauga between the intersections of Dixie Road and Dundas Street East. The project footprint will not extend past Bloor Street. Please see the appended figure, illustrating the flood area within the project area.

May 12, 2020



ASSESSMENTS TO BE COMPLETED

Extensive field and technical studies will be undertaken on the site. These studies typically include but not limited to the follow:

- Planning Justification Report,
- Archaeological Assessment Stage 1 and 2 and MTCS Letters,
- Hydrological Assessment,
- Natural Environment Reporting,
- Fisheries Impact Assessment,
- Traffic Impact Study and
- Draft Site Plan(s)

We would be more than happy to provide a copy of the technical reports, mitigation plans and Site Plan for your review and comment.

CAMBIUM ABORIGINAL INC.'S APPROACH TO ENGAGEMENT

At Cambium Aboriginal Inc (CA) we encourage our clients to engage with the Indigenous communities whose rights may be affect by their proposed project early as possible in the project planning phase of the project to build solid relationships for information sharing purposes. This early engagement allows a dialogue provides an opportunity to identify concerns or additional studies that may be required by the community and lead to a greater likelihood of success of collaboration on the project.

Our Indigenous Engagement Coordinator, Gary Pritchard is a member of Curve Lake First Nation and has 17 years of experience in the environmental field. Gary has travelled and worked with over 280 Indigenous Communities. Gary advises clients on the Duty to Consult and leads community engagement initiatives with Indigenous communities whose Treaty Rights are at risk from site alteration. He has successfully collaborated with many stakeholder groups, researchers, institutions, government agencies, Indigenous Communities, and political organizations to address environmental concerns and identify practical solutions to environmental related issues.

ENGAGEMENT WITH INDIGENOUS COMMUNITIES

At this stage of the project, we are requesting, on behalf of the City of Mississauga, that your community provide any comments and/or concerns with the proposed Project.

Specifically, we are seeking input on:

- The level of interest in the project from the community for further engagement; and,

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- The best methods to communicate and engage with your community as the project progresses,
- Any preliminary comments or concerns that your community has on the proposed project.

CONCLUSION

Your input and questions are valued and an asset to the engagement team. We are hoping to learn from the Indigenous Communities as to how we can assist them through this process in order to address their concerns.

To provide our Engagement Team leader with your comments, please email g.pritchard@cambiumaboriginal.com, or for further project information please contact Gary Pritchard at (705) 220-1952.

Sincerely,

Cambium Aboriginal Inc.


Gary Pritchard
Manager of Environment and Consultations

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Duty to Consult and
Accommodate

Indigenous Engagement

Project Management

CONTACT US:

Telephone

(705) 657-1126

Facsimile

(705) 657.9231

Website

cambiumaboriginal.com

Mailing Address

1109 Mississauga Street,
Curve Lake, Ontario
K0L 1R0

Mississaugas of the Credit First Nation
Department of Consultation and Accommodation
4065 Hwy. 6,
Hagersville, ON N0A 1H0

By email: Fawn.Sault@mncfn.ca

CC:

Re: Project Notification Letter- City of Mississauga, Dixie-Dundas Flood Mitigation.

Our File: 18-1077-001

Dear Fawn Sault, Consultation Manager:

INTRODUCTION

Cambium Aboriginal Inc. (Cambium Aboriginal) in partnership with Matrix Solutions Inc. has been retained by the City of Mississauga to conduct a Feasibility Study then a Municipal Environmental Assessment to address flooding within the Dixie and Dundas Road Area of the City of Mississauga. Through our initial research and review, we determine that this application's project falls within your community's traditional territory. We would like to send you this notice so that you are aware of potential activities within the territory.

WHO ARE WE?

Cambium Aboriginal has been providing engineering, planning, and environmental consulting services to public and private sector clients throughout Ontario from our office located in Curve Lake First Nation, Ontario.

Our environmental team specializes in municipal policy planning, natural heritage systems planning and environmental management, and development planning in the public and private sectors. We have provided a range of planning services to upper-tier and lower-tier municipalities, federal and provincial government agencies, First Nations, NGOs, and the private development sector.

In Ontario, Matrix is known as an innovative consulting team that specializes in integrated water resource assessment with a particular focus on characterizing and understanding surface water interactions and watershed management. The team members introduced in this proposal bring complementary expertise to this project. Our highly competent team brings extensive technical experience in fluvial geomorphology, water resource engineering, aquatic sciences, and landscape design.

May 12, 2020



PROJECT TEAM

Project Manager (Matrix) - Mr. Stephen Braun, P.Eng. has over 30 years of consulting engineering and water resources experience managing a broad array of investigative and design projects. He specializes in floodplain definition and risk assessment, stormwater management, and low impact development approaches. Mr. Braun has specialized knowledge and experience in urban flood remediation, hydraulic modelling, hydrologic modelling, flood line studies, stormwater quality, and municipal servicing and drainage design. Most recently he was Project Manager (PM) of the Phase 2 Integrated Riverine and Urban Flood Risk Analysis and Urban Design Study project in the City of Brampton and serves as a Technical Advisor to the related and ongoing Downtown Brampton Flood Plain EA project. Mr. Braun has been PM for several urban Two Zone floodplain studies including Schneider Creek in downtown Kitchener, Ontario and Goodman Creek in downtown Oshawa.

Project Coordinator (Matrix) – Andrew Doherty, P.Eng is a Water Resources Engineer with over five years of consulting experience. His work primarily focuses on bridge and pipeline watercourse crossings, river engineering and geomorphology, and mine surface water management. He contributes to a broad range of projects within these focus areas for both private and public sector clients located in Ontario and Alberta. These have included highly visible, public projects on the Bow River in downtown Calgary, watercourse crossing designs and surface water management in rural, northern Alberta in support of resource development projects, and natural channel designs in locations ranging from the eastern slopes of the Rocky Mountains to residential development sites in the Greater Toronto Area.

On many projects, Mr. Doherty is involved from the conceptual and detailed design phases through to construction planning, regulatory permitting and approvals, and construction oversight. Working on a range of engineering problems from conceptual design to completion has helped Mr. Doherty cultivate a diverse skill set which he contributes to the development of practical, technically sound engineering solutions.

Indigenous Engagement Specialist (Cambium Aboriginal)-Gary Pritchard, is a member of Curve Lake First Nation and has travelled and worked in 286 First Nations communities throughout Canada. He brings a wealth of knowledge to both his Indigenous and non-Indigenous cliental performing a wide variety of services including: Indigenous Community Planning, land use/traditional knowledge studies, capacity building, mediator between western science and traditional science and peer reviewer on behalf of Indigenous communities. One of Gary's greatest strength is that he is often able to be the one who acts as the bridge between the Indigenous Community and the western style of government.

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May 12, 2020



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OUR CLIENT

The City of Mississauga project team consists of multi-disciplinary engineers, landscape architects, planners, ecologists, technical specialists, and support staff

NATURE AND SCOPE OF ACTIVITY

The City's objective for this project is to modify the natural and built infrastructure of Little Etobicoke Creek, such that flood flows are contained within the floodplain upstream of Dixie Road, thereby removing the spill that flows towards the Applewood Creek watershed during large rainfall events. There is no experience quite like a flood to demand attention and action, and the one observed recently during the July 8, 2013 storm event has brought urgency to address this flooding problem. As a result of this flood, over 1000 residential and commercial buildings, between the flood location and the QEW, are at risk of flood damage. Of these, over 450 unique buildings are adjacent to high risk flooding, as defined by MNR's depth, velocity, and depth-velocity product criteria.

The many complications of achieving the simple goal of keeping the watercourse in its own banks/valley system are tremendous. However, success in this task will result in a great reduction of flood risk in the surrounding neighbourhoods, as well as areas further downstream (e.g. Dixie Outlet Mall). It will also facilitate future development envisioned by the ongoing recent Dundas Connects project and other City initiatives could potentially be achieved.

The project team will be conducting a Feasibility Study that will follow Phases I and II of the Municipal Class EA process, but will not include the formal Notice of Commencement and public engagement elements. The purpose of the Feasibility Study is to:

- identify the problem / opportunity;
- develop flood protection alternatives;
- and assess alternatives at a high level.

The feasibility study will consist primarily as a series of technical studies to determine existing and potential future conditions within the study area. We will coordinate these studies in unison to determine whether any of the alternatives are technically and/or fiscally achievable prior to proceeding with a full EA. We anticipate that through the feasibility study, a short list of alternatives will be developed for the EA and a preliminary preferred alternative will be selected in order to confirm the EA as a Schedule B or Schedule C water and wastewater project.

PROJECT LOCATION

The project is located within the city limits of the City of Mississauga between the intersections of Dixie Road and Dundas Street East. The project footprint will not extend past Bloor Street. Please see the appended figure, illustrating the flood area within the project area.

May 12, 2020



ASSESSMENTS TO BE COMPLETED

Extensive field and technical studies will be undertaken on the site. These studies typically include but not limited to the follow:

- Planning Justification Report,
- Archaeological Assessment Stage 1 and 2 and MTCS Letters,
- Hydrological Assessment,
- Natural Environment Reporting,
- Fisheries Impact Assessment,
- Traffic Impact Study and
- Draft Site Plan(s)

We would be more than happy to provide a copy of the technical reports, mitigation plans and Site Plan for your review and comment.

CAMBIUM ABORIGINAL INC.'S APPROACH TO ENGAGEMENT

At Cambium Aboriginal Inc (CA) we encourage our clients to engage with the Indigenous communities whose rights may be affect by their proposed project early as possible in the project planning phase of the project to build solid relationships for information sharing purposes. This early engagement allows a dialogue provides an opportunity to identify concerns or additional studies that may be required by the community and lead to a greater likelihood of success of collaboration on the project.

Our Indigenous Engagement Coordinator, Gary Pritchard is a member of Curve Lake First Nation and has 17 years of experience in the environmental field. Gary has travelled and worked with over 280 Indigenous Communities. Gary advises clients on the Duty to Consult and leads community engagement initiatives with Indigenous communities whose Treaty Rights are at risk from site alteration. He has successfully collaborated with many stakeholder groups, researchers, institutions, government agencies, Indigenous Communities, and political organizations to address environmental concerns and identify practical solutions to environmental related issues.

ENGAGEMENT WITH INDIGENOUS COMMUNITIES

At this stage of the project, we are requesting, on behalf of the City of Mississauga, that your community provide any comments and/or concerns with the proposed Project.

Specifically, we are seeking input on:

- The level of interest in the project from the community for further engagement; and,

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May 12, 2020



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- The best methods to communicate and engage with your community as the project progresses,
- Any preliminary comments or concerns that your community has on the proposed project.

CONCLUSION

Your input and questions are valued and an asset to the engagement team. We are hoping to learn from the Indigenous Communities as to how we can assist them through this process in order to address their concerns.

To provide our Engagement Team leader with your comments, please email g.pritchard@cambiumaboriginal.com, or for further project information please contact Gary Pritchard at (705) 220-1952.

Sincerely,

Cambium Aboriginal Inc.

A handwritten signature in blue ink, appearing to read "Gary Pritchard", is written over a faint, larger version of the same signature.

Gary Pritchard
Manager of Environment and Consultations

DRAFT

- Water Body
- Watercourse
- Highway
- Road
- Study Area Extents (500m upstream of the Dixie Road Bridge to Dundas Street)
- Spill Direction (During high flows)
- Flow Direction
- Dixie Road Bridge
- Community



References: Contains information licensed under the Open Government Licence – Ontario. Imagery: ©2018 Microsoft Corporation and its data suppliers.

1:5,000 metres
0 50 100
NAD 1983 UTM Zone 17N

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

City of Mississauga
Dixie-Dundas Flood Mitigation

Project Area

Date: September 2019	Project: 24603	Submitter: K. Molnar	Reviewer: K. Hofbauer
----------------------	----------------	----------------------	-----------------------

Disclaimer: The information contained herein may be compiled from numerous third party materials that are subject to periodic change without prior notification. While every effort has been made by Matrix Solutions Inc. to ensure the accuracy of the information presented at the time of publication, Matrix Solutions Inc. assumes no liability for any errors, omissions, or inaccuracies in the third party material.

I:\CityOfMississauga\24603\FiguresandTables\FY2019\Clean\Figure 1-Project_Area.mxd - Tabloid_L - 13-Sep-19 08:39 AM - mhdilling - 10/20/2019



Indigenous Relations



Record of Consultation Log

ROC Log
 Bi-monthly Log
 Final Bi-monthly Log

FNC Number

First Nation or Metis Settlement Consulted

Level of Consultation

Company Proponent Name

Date Range (Required for Bi-monthly)
 From To

Project Number/Activity Name

Comments

No.	Date	First Nation or Metis Settlement Representative(s) (including names of individuals with whom consultation was undertaken)	Method of Contact	Supporting Documents	Purpose of contact, brief details or key points of communication, including proponent representative's name	Issues and concerns raised or identified by First Nation or Metis Settlement	Details on how concerns were addressed, including avoidance or mitigation measures	Outcomes/ Comments
1	12-May-20	Fawn Sault, Consultation Coor.	Email		Project Notification	-	-	-
2	13-Aug-20	Fawn Sault respond to G. Pritchard	Email		Question re: Archaeological or natural heritage studies that have been or need to be complete	-	-	G.P respond - preliminary studies have been done and requested a call with FN and Client - No response from Fawn Sault
3	30-Nov-20	Fawn Sault	Email		Doodle Poll - 1st engagement	-	-	No response

Indigenous Relations



No.	Date	First Nation or Metis Settlement Representative(s) (including names of individuals with whom consultation was undertaken)	Method of Contact	Supporting Documents	Purpose of contact, brief details or key points of communication, including proponent representative's name	Issues and concerns raised or identified by First Nation or Metis Settlement	Details on how concerns were addressed, including avoidance or mitigation measures	Outcomes/ Comments
4	09-Mar-21	Fawn Sault	Email		Project re-start - Project contact now has changed to Tiffany Taylor. TT requested feedback on the project Archaeology Assessment as well as arrange spring site visit	-	-	-
5	11-Mar-21	From Fawn Sault	Email		-	Forwarded Archaeology Assessment to M. Devries. Unable to attend site visit due to restrictions by FN	TT - provided option to Fawn that CIPS could attend site and video/record the visit on behalf of FN	The option of CIPS attending site visit was provided to Matrix. Fawn has not responded.
6	11-Mar-21	From Megan DeVries	Email		Confirm receipt of Arch. Assess and request to be involved in Stage 2AA - Field Liaison from FN to be involved			
7	12-Oct-21	From Fawn Sault	Email		Date Selection to meet with Matrix - Consultation			02-Nov-21

Indigenous Relations



No.	Date	First Nation or Metis Settlement Representative(s) (including names of individuals with whom consultation was undertaken)	Method of Contact	Supporting Documents	Purpose of contact, brief details or key points of communication, including proponent representative's name	Issues and concerns raised or identified by First Nation or Metis Settlement	Details on how concerns were addressed, including avoidance or mitigation measures	Outcomes/ Comments
8	02-Nov-21	Fawn Sault, MCFN Consultation Liason + Tiffany (Cambium) and Matrix	Virtual		Meeting to review study	There were no objections heard regarding the project.		MCFN Archaeologist Liaisons to be present at Stage 2.
9	14-Jun-23	Email to all involved FN - re: project update and Public Information Centre Live	Email		Project Update	Received notice from Matrix re: new contact at MCFN.	TT provided update to Abby Laforme, Mark Laforme and Adam Laforme	No response

From: Tiffany Taylor <t.taylor@indigenousaware.com>
Sent: May 3, 2022 11:21 AM
To: Justine Chin-Cheong
Subject: [External] FW: Project Notification Letter - City of Mississauga
Attachments: DOCA Archaeological Review Agreement [2021].docx; MCFN Standards and Guidelines for Archaeology [2020].pdf



Tiffany D. Taylor (she/her/kwe)
Indigenous Aware Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-400-6722 | Mobile: 705-917-1321

1109 Mississauga Street
Curve Lake First Nation, Ontario K0L 1R0
www.indigenousaware.com



Our Spirit is **What Sets Us Apart**
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From: Tiffany Taylor <T.TAYLOR@indigenousaware.com>
Sent: October 12, 2021 3:57 PM
To: Andrew Doherty <adoherty@matrix-solutions.com>
Subject: FW: Project Notification Letter - City of Mississauga



Tiffany D. Taylor
Indigenous Aware Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-657-1126 | Mobile: 705-917-1321

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From: Megan DeVries <Megan.DeVries@mncfn.ca>
Sent: Thursday, March 11, 2021 3:43 PM

To: Tiffany Taylor <t.taylor@indigenousaware.com>
Cc: Mark LaForme <Mark.LaForme@mncfn.ca>; Fawn Sault <Fawn.Sault@mncfn.ca>
Subject: [Possible SPAM] RE: Project Notification Letter - City of Mississauga

Hello Tiffany,

Thank you for providing the Stage 1AA.

Please note that, in order to continue maintaining DOCA capacity for fulsome project participation, DOCA charges for technical review of project information. In the exercise of its stewardship responsibility, DOCA seeks to work together with project proponents and their archaeological consultants to ensure that archaeological work is done properly and respectfully. DOCA has retained technical advisers with expertise in the field of archaeology. These experts will review the technical aspects and cultural appropriateness of the archaeological assessments and strategies associated with your project. The proponent is expected to pay the costs for MCFN to engage in a technical review of the project. DOCA anticipates at this time that all archaeological review will be undertaken by in-house technical experts, but will advise the proponent if an outside peer-review is required. Please find attached the agreement that covers MCFN's inhouse technical review of the archaeological assessments and strategies associated with your project(s). If you could please fill in the additional required information, highlighted in yellow, and return to us a signed copy, that would be greatly appreciated. After we have received it, we can execute the contract on our end and return the completed contract to you. Afterwards, we will proceed with report review.

I note that a Stage 2AA is required. MCFN requires that its Field Liaison Representatives participate in the fieldwork associated with the Stage 2. Please let me know when that work is scheduled and we can execute the necessary agreement in advance of that work.

Sincerely,
Megan.

Megan DeVries, M.A. (she/her)
Archaeological Operations Supervisor



Department of Consultation and Accommodation (DOCA)
Mississaugas of the Credit First Nation (MCFN)
4065 Highway 6 North, Hagersville, ON NOA 1H0
P: 905-768-4260 | M: 289-527-2763
<http://www.mncfn.ca>

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From: Fawn Sault
Sent: Thursday, March 11, 2021 3:36 PM
To: Tiffany Taylor <t.taylor@indigenousaware.com>
Cc: Megan DeVries <Megan.DeVries@mncfn.ca>
Subject: FW: Project Notification Letter - City of Mississauga

Hi Tiffany,

Thank you for reaching out and sending the Stage 1 report. I have cc'd my co-worker, Megan DeVries, our Archaeological Operations Supervisor. Megan or someone in her unit will review the report and let you know if there are any concerns. As much as we would enjoy a walk on site I am afraid at this time we will have to decline due to restrictions set by the organization.

Please let me know if you have any other questions.

Miigwech,

Fawn Sault
Consultation Coordinator
Department of Consultation and Accommodation
Mississaugas of the Credit First Nation
Cell – 289-527-6580

From: Tiffany Taylor [<mailto:t.taylor@indigenousaware.com>]
Sent: Tuesday, March 09, 2021 4:04 PM
To: Fawn Sault
Subject: RE: Project Notification Letter - City of Mississauga

Good afternoon Fawn,

I hope you, yours and community are doing well.

Not sure if you heard, Gary Pritchard is no longer with CIPS.

I have taken over some of the consultation projects that Gary was working on including the City of Mississauga/Matrix Solutions - Dixie-Dundas Flood Mitigation. For a short period of time this project was on hold and now it is just starting to ramp up again.

A couple things:

When looking at the project file and emails, below is the last correspondence that we have on file.

#1 I am now following up to see if there was any feedback in regards to the historical discussion in the Archaeology Assessment. I have attached the Archaeology Assessment. (I apologize if you have already received and provided comments to Gary, if you have, could you forward to me for our records and I will provide to Matrix Solutions). If you have not received prior to this email, could you review.

#2 Is there any ability or appetite for you and/or other members/staff that would be able to attend a Spring Site visit to learn about the project scope.

Please let me know if you have any questions or concerns.

Miigwech and take care,



Tiffany D. Taylor
Project Administrative Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousandare.com
Phone: 705-657-1126 | Mobile: 705-917-1321

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Curve Lake First Nation, Ontario K0L 1R0
www.indigenousandare.com



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From: Gary Pritchard
Sent: Tuesday, August 18, 2020 2:14 PM
To: Fawn Sault <Fawn.Sault@mncfn.ca>; Tiffany Taylor <t.taylor@indigenousandare.com>
Cc: Cassandra McKeown <k.mckeown@indigenousandare.com>
Subject: RE: Project Notification Letter - City of Mississauga

Aanii Fawn

Yes some of those preliminary studies have been done. Would love to set up a call with you and start showing you what has been done but Matrix Consultants and where you can participate.

How does the first week of September look for you.

Gar



Gary Pritchard, BSc., EP
Manager of Environment and Consultation Services
CIPS, Cambium Indigenous Professional Services

Email: g.pritchard@indigenousandare.com
Phone: 705-657-1126 | Mobile: 705-220-1952

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Nijichaagominaanig **gaa-onji-bakewinidiyaang**

From: Fawn Sault <Fawn.Sault@mncfn.ca>
Sent: August 13, 2020 12:51 PM
To: Tiffany Taylor <t.taylor@indigenousandare.com>
Cc: Gary Pritchard <g.pritchard@indigenousandare.com>; Cassandra McKeown <k.mckeown@indigenousandare.com>
Subject: RE: Project Notification Letter - City of Mississauga

Aanii Tiffany and Gary,

Miigwech for the notice. Can you please tell me if any archaeological or natural heritage studies have been or need to be completed?

Fawn Sault
Consultation Coordinator
Mississaugas of the Credit First Nation
4065 Hwy. 6, Hagersville, N0A 1H0
Website: <http://mncfn.ca/>
Ph: 905-768-4260
Cell:289-527-6580

From: Tiffany Taylor <t.taylor@indigenousaware.com>
Sent: Thursday, August 13, 2020 10:11 AM
To: Fawn Sault <Fawn.Sault@mncfn.ca>
Cc: Gary Pritchard <g.pritchard@indigenousaware.com>; Cassandra McKeown <k.mckeown@indigenousaware.com>
Subject: RE: Project Notification Letter - City of Mississauga

Aaniin, hope all is well in your community.

We are following up regarding the below email and letter.

Please contact Gary Pritchard, Manager Environment and Consultations is you have any questions or concern.

Miigwech and stay safe,



Tiffany D. Taylor
Project Administrative Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-657-1126 | Mobile: 705-917-1321

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From: Tiffany Taylor
Sent: Tuesday, May 12, 2020 9:14 AM
To: 'Fawn.Sault@mncfn.ca' <Fawn.Sault@mncfn.ca>
Cc: Gary Pritchard (g.pritchard@cambiumaboriginal.com) <g.pritchard@cambiumaboriginal.com>
Subject: Project Notification Letter - City of Mississauga

Aaniin,

Please find attached a project notification letter from Cambium Aboriginal regarding the City of Mississauga, Dixie-Dundas Flood Mitigation.

If you have any questions regarding the attached, please contact Gary Pritchard, Manager Environment and Consultation.

Miigwech and stay healthy and safe,

Tiffany Taylor

Project Administrative Coordinator | Cambium Aboriginal Inc.

p: 705.657.1126 m: 705.917-1321 f: 705.657.9231

e: t.taylor@cambiumaboriginal.com

a: 1109 Mississauga Street, Curve Lake ON K0L1R0

w: www.cambiumaboriginal.com



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From: Tiffany Taylor <T.TAYLOR@indigenousaware.com>
Sent: October 12, 2021 1:57 PM
To: Andrew Doherty
Subject: [External] FW: Project Notification Letter - City of Mississauga



Tiffany D. Taylor
Indigenous Aware Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
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From: Megan DeVries <Megan.DeVries@mncfn.ca>
Sent: Tuesday, May 11, 2021 9:35 AM
To: Tiffany Taylor <t.taylor@indigenousaware.com>
Cc: Michael Jacobs <m.jacobs@indigenousaware.com>; Fawn Sault <Fawn.Sault@mncfn.ca>
Subject: RE: Project Notification Letter - City of Mississauga

Hello Tiffany,

I apologize for the delay on this report review. MCFN-DOCA has been extremely busy the past couple of months and we are currently functioning at a reduced capacity.

We will be unable to complete the report review at this time. However, I note that Stage 2 AA is required. We request the participation of our Field Liaison Representatives during that fieldwork.

Sincerely,
Megan.

Megan DeVries, M.A. (she/her)
Archaeological Operations Supervisor



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From: Tiffany Taylor <t.taylor@indigenousaware.com>

Sent: Thursday, March 11, 2021 4:02 PM

To: Fawn Sault <Fawn.Sault@mncfn.ca>

Cc: Megan DeVries <Megan.DeVries@mncfn.ca>; Michael Jacobs <m.jacobs@indigenousaware.com>

Subject: RE: Project Notification Letter - City of Mississauga

Aaniin, miigwech for the response and yes, I have received receipt and notice from Megan. I will forward both emails to our clients.

In regards to the site visit, yes it is very understandable that site visits are restricted due to emergency orders. Recently, with another client, our Technical Advisor – Indigenous Projects, at CIPS attended site visits on behalf of a First Nation being consulted with and a report was provided. I would require confirmation from my CEO that we would do this again considering the location, however is this something that you would be interested in?

Miigwech again for the response and as I receive additional information with the project, I will forward to you for your project files.

Stay well,



Tiffany D. Taylor

Project Administrative Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-657-1126 | Mobile: 705-917-1321

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Sent: Thursday, March 11, 2021 3:36 PM

To: Tiffany Taylor <t.taylor@indigenousaware.com>

Cc: Megan DeVries <Megan.DeVries@mncfn.ca>

Subject: FW: Project Notification Letter - City of Mississauga

Hi Tiffany,

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Please let me know if you have any other questions.

Miigwech,

Fawn Sault
Consultation Coordinator
Department of Consultation and Accommodation
Mississaugas of the Credit First Nation
Cell – 289-527-6580

From: Tiffany Taylor [<mailto:t.taylor@indigenousaware.com>]
Sent: Tuesday, March 09, 2021 4:04 PM
To: Fawn Sault
Subject: RE: Project Notification Letter - City of Mississauga

Good afternoon Fawn,

I hope you, yours and community are doing well.

Not sure if you heard, Gary Pritchard is no longer with CIPS.

I have taken over some of the consultation projects that Gary was working on including the City of Mississauga/Matrix Solutions - Dixie-Dundas Flood Mitigation. For a short period of time this project was on hold and now it is just starting to ramp up again.

A couple things:

When looking at the project file and emails, below is the last correspondence that we have on file.

- #1 I am now following up to see if there was any feedback in regards to the historical discussion in the Archaeology Assessment. I have attached the Archaeology Assessment. (I apologize if you have already received and provided comments to Gary, if you have, could you forward to me for our records and I will provide to Matrix Solutions). If you have not received prior to this email, could you review.
- #2 Is there any ability or appetite for you and/or other members/staff that would be able to attend a Spring Site visit to learn about the project scope.

Please let me know if you have any questions or concerns.

Miigwech and take care,



Tiffany D. Taylor
Project Administrative Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenouaware.com
Phone: 705-657-1126 | Mobile: 705-917-1321

1109 Mississauga Street
Curve Lake First Nation, Ontario K0L 1R0
www.indigenouaware.com



Our Spirit is **What Sets Us Apart**

Nijichaagominaanig **gaa-onji-bakewinidiyaang**

From: Gary Pritchard
Sent: Tuesday, August 18, 2020 2:14 PM
To: Fawn Sault <Fawn.Sault@mncfn.ca>; Tiffany Taylor <t.taylor@indigenouaware.com>
Cc: Cassandra McKeown <k.mckeown@indigenouaware.com>
Subject: RE: Project Notification Letter - City of Mississauga

Aanii Fawn

Yes some of those preliminary studies have been done. Would love to set up a call with you and start showing you what has been done but Matrix Consultants and where you can participate.

How does the first week of September look for you.

Gar



Gary Pritchard, BSc., EP
Manager of Environment and Consultation Services
CIPS, Cambium Indigenous Professional Services

Email: g.pritchard@indigenouaware.com
Phone: 705-657-1126 | Mobile: 705-220-1952

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Curve Lake First Nation, Ontario K0L 1R0
www.indigenouaware.com



Our Spirit is **What Sets Us Apart**

Nijichaagominaanig **gaa-onji-bakewinidiyaang**

From: Fawn Sault <Fawn.Sault@mncfn.ca>
Sent: August 13, 2020 12:51 PM
To: Tiffany Taylor <t.taylor@indigenouaware.com>
Cc: Gary Pritchard <g.pritchard@indigenouaware.com>; Cassandra McKeown <k.mckeown@indigenouaware.com>
Subject: RE: Project Notification Letter - City of Mississauga

Aanii Tiffany and Gary,

Miigwech for the notice. Can you please tell me if any archaeological or natural heritage studies have been or need to be completed?

Fawn Sault
Consultation Coordinator
Mississaugas of the Credit First Nation
4065 Hwy. 6, Hagersville, N0A 1H0
Website: <http://mncfn.ca/>
Ph: 905-768-4260
Cell:289-527-6580

From: Tiffany Taylor <t.taylor@indigenousaware.com>
Sent: Thursday, August 13, 2020 10:11 AM
To: Fawn Sault <Fawn.Sault@mncfn.ca>
Cc: Gary Pritchard <g.pritchard@indigenousaware.com>; Cassandra McKeown <k.mckeown@indigenousaware.com>
Subject: RE: Project Notification Letter - City of Mississauga

Aaniin, hope all is well in your community.

We are following up regarding the below email and letter.

Please contact Gary Pritchard, Manager Environment and Consultations is you have any questions or concern.

Miigwech and stay safe,



Tiffany D. Taylor
Project Administrative Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-657-1126 | Mobile: 705-917-1321



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Nijichaagominaanig **gaa-onji-bakewinidiyaang**

From: Tiffany Taylor
Sent: Tuesday, May 12, 2020 9:14 AM
To: 'Fawn.Sault@mncfn.ca' <Fawn.Sault@mncfn.ca>
Cc: Gary Pritchard (g.pritchard@cambiumaboriginal.com) <g.pritchard@cambiumaboriginal.com>
Subject: Project Notification Letter - City of Mississauga

Aaniin,
Please find attached a project notification letter from Cambium Aboriginal regarding the City of Mississauga, Dixie-Dundas Flood Mitigation.

If you have any questions regarding the attached, please contact Gary Pritchard, Manager Environment and Consultation.

Miigwech and stay healthy and safe,

Tiffany Taylor

Project Administrative Coordinator | Cambium Aboriginal Inc.

p: 705.657.1126 m: 705.917-1321 f: 705.657.9231

e: t.taylor@cambiumaboriginal.com

a: 1109 Mississauga Street, Curve Lake ON K0L1R0

w: www.cambiumaboriginal.com



Follow us:   

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From: Tiffany Taylor <t.taylor@indigenousaware.com>
Sent: May 16, 2022 10:07 AM
To: Justine Chin-Cheong
Subject: [External] FW: Dixie-Dundas Flood Mitigation
Attachments: Mississauga of the Credit 04122020.pdf; Dixie-Dundas Flood Mitigation Project - Notice of Study Expansion.pdf; 18EA-223 Stage 1 Report.pdf

For you records



Tiffany D. Taylor (she/her/kwe)
Indigenous Aware Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-400-6722 | Mobile: 705-917-1321

1109 Mississauga Street
Curve Lake First Nation, Ontario K0L 1R0
www.indigenousaware.com



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Nijichaagominaanig **gaa-onji-bakewinidiyaang**

From: Tiffany Taylor <t.taylor@indigenousaware.com>
Sent: August 27, 2021 2:24 PM
To: Fawn Sault <Fawn.Sault@mncfn.ca>; Megan DeVries <Megan.DeVries@mncfn.ca>
Subject: Dixie-Dundas Flood Mitigation

Aaniin Fawn and Megan,

Hope you both are doing well and enjoying your summer!

This email is in regards to the Dixie-Dundas Flood Mitigation project in the City of Mississauga. You will see attached the notification letter provided to you May 12, 2020.

Also attached is the public notice on the expanded scope of the Dixie-Dundas flood mitigation project. The City would like us to proceed with scheduling an engagement meeting with you. The City is open to either an outdoor, on-site meeting or online virtual meeting – all depending on your preference. I know consultation departments schedule's fill up quite quickly, could you provide me with 2 or 3 dates and times that you would be available in September or/and October and your preference to meet.

I have attached the archaeology assessment, Megan, you indicated in an earlier email that MCFN requests the participation of your Field Liaison Representation during the Stage 2AA. I am confirming the time lines that this will be taking place and will notify once I receive the response.

Miigwech and I await your response!



Tiffany D. Taylor
Project Administrative Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-657-1126 | Mobile: 705-917-1321

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www.indigenousaware.com



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Nijichaagominaanig **gaa-onji-bakewinidiyaang**

From: Tiffany Taylor <t.taylor@indigenousaware.com>
Sent: May 3, 2022 11:43 AM
To: Justine Chin-Cheong
Subject: [External] FW: Dixie-Dundas Flood Mitigation



Tiffany D. Taylor (she/her/kwe)
Indigenous Aware Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-400-6722 | Mobile: 705-917-1321

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www.indigenousaware.com



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Nijichaagominaanig **gaa-onji-bakewinidiyaang**

From: Tiffany Taylor <t.taylor@indigenousaware.com>
Sent: September 15, 2021 11:17 AM
To: Fawn Sault <Fawn.Sault@mncfn.ca>; Megan DeVries <Megan.DeVries@mncfn.ca>
Subject: RE: Dixie-Dundas Flood Mitigation

Aaniin Fawn and Megan,

I would like to follow up regarding the email below:

Megan – I have contacted Matrix Solutions Inc. and was informed that the phase 2 archaeology assessment will not be part of the current environmental assessment and is likely a few year away. The City is planning to initiate a detail design and regulatory phase as a separate project in 2022 after the current environmental assessment. The Stafe 2 assessment is anticipated to be part of this future project with the archaeology component being completed around maybe 2023 or 2024.

Fawn – The proponent would like to meet with you and they are open to an outdoor, on-site meeting or online virtual. Could you provide me with your preference to meeting along with available dates and times in September or October that you could meet for the introduction of this project.

Miigwech,



Tiffany D. Taylor
Indigenous Aware Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-657-1126 | Mobile: 705-917-1321

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Curve Lake First Nation, Ontario K0L 1R0
www.indigenousaware.com



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Nijichaagominaanig **gaa-onji-bakewinidiyaang**

From: Tiffany Taylor
Sent: Friday, August 27, 2021 2:21 PM
To: 'Fawn Sault' <Fawn.Sault@mncfn.ca>; Megan DeVries <Megan.DeVries@mncfn.ca>
Subject: Dixie-Dundas Flood Mitigation

Aaniin Fawn and Megan,

Hope you both are doing well and enjoying your summer!

This email is in regards to the Dixie-Dundas Flood Mitigation project in the City of Mississauga. You will see attached the notification letter provided to you May 12, 2020.

Also attached is the public notice on the expanded scope of the Dixie-Dundas flood mitigation project. The City would like us to proceed with scheduling an engagement meeting with you. The City is open to either an outdoor, on-site meeting or online virtual meeting – all depending on your preference. I know consultation departments schedule's fill up quite quickly, could you provide me with 2 or 3 dates and times that you would be available in September or/and October and your preference to meet.

I have attached the archaeology assessment, Megan, you indicated in an earlier email that MCFN requests the participation of your Field Liaison Representation during the Stage 2AA. I am confirming the time lines that this will be taking place and will notify once I receive the response.

Miigwech and I await your response!



Tiffany D. Taylor
Project Administrative Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-657-1126 | Mobile: 705-917-1321

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Nijichaagominaanig **gaa-onji-bakewinidiyaang**

From: Tiffany Taylor <t.taylor@indigenousaware.com>
Sent: May 3, 2022 11:24 AM
To: Justine Chin-Cheong
Subject: [External] FW: Dixie-Dundas Flood Mitigation



Tiffany D. Taylor (she/her/kwe)
Indigenous Aware Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-400-6722 | Mobile: 705-917-1321

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Nijichaagominaanig **gaa-onji-bakewinidiyaang**

From: Tiffany Taylor <T.TAYLOR@indigenousaware.com>
Sent: October 26, 2021 11:20 AM
To: Andrew Doherty <adoherty@matrix-solutions.com>
Subject: FW: Dixie-Dundas Flood Mitigation

For your records see below.



Tiffany D. Taylor
Indigenous Aware Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-657-1126 | Mobile: 705-917-1321

1109 Mississauga Street
Curve Lake First Nation, Ontario K0L 1R0
www.indigenousaware.com



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Nijichaagominaanig **gaa-onji-bakewinidiyaang**

From: Erika Johannsen <Erika.Johannsen@mncfn.ca>
Sent: Tuesday, October 26, 2021 11:18 AM
To: Tiffany Taylor <T.TAYLOR@indigenousaware.com>; Fawn Sault <Fawn.Sault@mncfn.ca>

Cc: Adrian Blake <Adrian.Blake@mncfn.ca>

Subject: RE: Dixie-Dundas Flood Mitigation

Good morning Tiffany,

Thank you for updating MCFN-DOCA on the Dixie-Dundas Flood Mitigation project in the City of Mississauga. On behalf of MCFN-DOCA I have reviewed the Stage 1 Archaeological Assessment report you provided. At this time, MCFN-DOCA has no concerns with the contents of the report or additional comments for consideration.

Please contact Field Archaeologist Adrian Blake at Adrian.Blake@mncfn.ca when the Stage 2 AA is confirmed in order to execute the necessary agreements for FLR participation and report review.

Thank you and have a great day.

Erika Johannsen (she/they)
Field Archaeologist



Department of Consultation and Accommodation (DOCA)

Mississaugas of the Credit First Nation (MCFN)

4065 Highway 6 North, Hagersville, ON N0A 1H0

Mobile: 905-870-5844

<http://www.mncfn.ca>

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From: Tiffany Taylor <t.taylor@indigenousaware.com>

Sent: Friday, August 27, 2021 2:24 PM

To: Fawn Sault <Fawn.Sault@mncfn.ca>; Megan DeVries <Megan.DeVries@mncfn.ca>

Subject: Dixie-Dundas Flood Mitigation

Aaniin Fawn and Megan,

Hope you both are doing well and enjoying your summer!

This email is in regards to the Dixie-Dundas Flood Mitigation project in the City of Mississauga. You will see attached the notification letter provided to you May 12, 2020.

Also attached is the public notice on the expanded scope of the Dixie-Dundas flood mitigation project. The City would like us to proceed with scheduling an engagement meeting with you. The City is open to either an outdoor, on-site meeting or online virtual meeting – all depending on your preference. I know consultation departments schedule's fill up quite quickly, could you provide me with 2 or 3 dates and times that you would be available in September or/and October and your preference to meet.

I have attached the archaeology assessment, Megan, you indicated in an earlier email that MCFN requests the participation of your Field Liaison Representation during the Stage 2AA. I am confirming the time lines that this will be taking place and will notify once I receive the response.

Miigwech and I await your response!



Tiffany D. Taylor
Project Administrative Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-657-1126 | Mobile: 705-917-1321

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DRAFT

1109 MISSISSAUGA STREET
CURVE LAKE, ON K0L1R0

705-657-1126

INDIGENOUSAWARE.COM



December 4, 2020

Six Nations of the Grand River
2498 Chiefswood Rd.
P.O. Box 5000
Ohsweken, ON N0A 1M0

ATTENTION: Lonny Bomberry, Director of Lands and Resources for Engagement
BY EMAIL: lonnybomberry@sixnations.ca

**RE: Project Notification – City of Mississauga, Dixie – Dundas Flood Mitigation
Our File: 18-1077-001**

Dear Lonny Bomberry,

Cambium Indigenous Professional Services (CIPS) Inc. formerly known as Cambium Aboriginal in partnership with Matrix Solutions Inc. has been retained by the City of Mississauga to conduct a Feasibility Study then a Municipal Environmental Assessment to address flooding within the Dixie and Dundas Road Area of the City of Mississauga. Through our initial research and review, we determine that this application's project falls within your community's traditional territory. We would like to send you this notice so that you are aware of potential activities within the territory.

WHO ARE WE?

CIPS has been providing engineering, planning, and environmental consulting services to public and private sector clients throughout Ontario from our office located in Curve Lake First Nation, Ontario.

Our environmental team specializes in municipal policy planning, natural heritage systems planning and environmental management, and development planning in the public and private sectors. We have provided a range of planning services to upper-tier and lower-tier municipalities, federal and provincial government agencies, First Nations, NGOs, and the private development sector.

In Ontario, Matrix is known as an innovative consulting team that specializes in integrated water resource assessment with a particular focus on characterizing and understanding surface water interactions and watershed management. The team members introduced in this proposal bring complementary expertise to this project. Our highly competent team brings extensive technical experience in fluvial geomorphology, water resource engineering, aquatic sciences, and landscape design.

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PROJECT TEAM

Project Manager (Matrix) - Mr. Stephen Braun, P.Eng. has over 30 years of consulting engineering and water resources experience managing a broad array of investigative and design projects. He specializes in floodplain definition and risk assessment, stormwater management, and low impact development approaches. Mr. Braun has specialized knowledge and experience in urban flood remediation, hydraulic modelling, hydrologic modelling, flood line studies, stormwater quality, and municipal servicing and drainage design. Most recently he was Project Manager (PM) of the Phase 2 Integrated Riverine and Urban Flood Risk Analysis and Urban Design Study project in the City of Brampton and serves as a Technical Advisor to the related and ongoing Downtown Brampton Flood Plain EA project. Mr. Braun has been PM for several urban Two Zone floodplain studies including Schneider Creek in downtown Kitchener, Ontario and Goodman Creek in downtown Oshawa.

Project Coordinator (Matrix) – Andrew Doherty, P.Eng is a Water Resources Engineer with over five years of consulting experience. His work primarily focuses on bridge and pipeline watercourse crossings, river engineering and geomorphology, and mine surface water management. He contributes to a broad range of projects within these focus areas for both private and public sector clients located in Ontario and Alberta. These have included highly visible, public projects on the Bow River in downtown Calgary, watercourse crossing designs and surface water management in rural, northern Alberta in support of resource development projects, and natural channel designs in locations ranging from the eastern slopes of the Rocky Mountains to residential development sites in the Greater Toronto Area.

On many projects, Mr. Doherty is involved from the conceptual and detailed design phases through to construction planning, regulatory permitting and approvals, and construction oversight. Working on a range of engineering problems from conceptual design to completion has helped Mr. Doherty cultivate a diverse skill set which he contributes to the development of practical, technically sound engineering solutions.

Indigenous Engagement Specialist (CIPS)-Gary Pritchard, is a member of Curve Lake First Nation and has travelled and worked in 286 First Nations communities throughout Canada. He brings a wealth of knowledge to both his Indigenous and non-Indigenous cliental performing a wide variety of services including: Indigenous Community Planning, land use/traditional knowledge studies, capacity building, mediator between western science and traditional science and peer reviewer on behalf of Indigenous communities. One of

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Gary's greatest strength is that he is often able to be the one who acts as the bridge between the Indigenous Community and the western style of government.

OUR CLIENT

The City of Mississauga project team consists of multi-disciplinary engineers, landscape architects, planners, ecologists, technical specialists, and support staff.

NATURE AND SCOPE OF ACTIVITY

The City's objective for this project is to modify the natural and built infrastructure of Little Etobicoke Creek, such that flood flows are contained within the floodplain upstream of Dixie Road, thereby removing the spill that flows towards the Applewood Creek watershed during large rainfall events. There is no experience quite like a flood to demand attention and action, and the one observed recently during the July 8, 2013 storm event has brought urgency to address this flooding problem. As a result of this flood, over 1000 residential and commercial buildings, between the flood location and the QEW, are at risk of flood damage. Of these, over 450 unique buildings are adjacent to high risk flooding, as defined by MNR's depth, velocity, and depth-velocity product criteria.

The many complications of achieving the simple goal of keeping the watercourse in its own banks/valley system are tremendous. However, success in this task will result in a great reduction of flood risk in the surrounding neighbourhoods, as well as areas further downstream (e.g. Dixie Outlet Mall). It will also facilitate future development envisioned by the ongoing recent Dundas Connects project and other City initiatives could potentially be achieved.

The project team will be conducting a Feasibility Study that will follow Phases I and II of the Municipal Class EA process, but will not include the formal Notice of Commencement and public engagement elements. The purpose of the Feasibility Study is to:

- identify the problem / opportunity;
- develop flood protection alternatives;
- and assess alternatives at a high level.

The feasibility study will consist primarily as a series of technical studies to determine existing and potential future conditions within the study area. We will coordinate these studies in unison to determine whether any of the alternatives are technically and/or fiscally achievable prior to proceeding with a full EA. We anticipate that through the feasibility study, a short list of alternatives will be developed for the EA and a preliminary preferred

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alternative will be selected in order to confirm the EA as a Schedule B or Schedule C water and wastewater project.

PROJECT LOCATION

The project is located within the city limits of the City of Mississauga between the intersections of Dixie Road and Dundas Street East. The project footprint will not extend past Bloor Street. Please see the appended figure, illustrating the flood area within the project area.

ASSESSMENTS TO BE COMPLETED

Extensive field and technical studies will be undertaken on the site. These studies typically include but not limited to the follow:

- Planning Justification Report,
- Archaeological Assessment Stage 1 and 2 and MTCS Letters,
- Hydrological Assessment,
- Natural Environment Reporting,
- Fisheries Impact Assessment,
- Traffic Impact Study and
- Draft Site Plan(s)

We would be more than happy to provide a copy of the technical reports, mitigation plans and Site Plan for your review and comment.

CIPS APPROACH TO ENGAGEMENT

At CIPS we encourage our clients to engage with the Indigenous communities whose rights may be affected by their proposed project early as possible in the project planning phase of the project to build solid relationships for information sharing purposes. This early engagement allows a dialogue provides an opportunity to identify concerns or additional studies that may be required by the community and lead to a greater likelihood of success of collaboration on the project.

Our Indigenous Engagement Coordinator, Gary Pritchard is a member of Curve Lake First Nation and has 17 years of experience in the environmental field. Gary has travelled and worked with over 280 Indigenous Communities. Gary advises clients on the Duty to



Consult and leads community engagement initiatives with Indigenous communities whose Treaty Rights are at risk from site alteration. He has successfully collaborated with many stakeholder groups, researchers, institutions, government agencies, Indigenous Communities, and political organizations to address environmental concerns and identify practical solutions to environmental related issues.

ENGAGEMENT WITH INDIGENOUS COMMUNITIES

At this stage of the project, we are requesting, on behalf of the City of Mississauga, that your community provide any comments and/or concerns with the proposed Project.

Specifically, we are seeking input on:

- The level of interest in the project from the community for further engagement; and,
- The best methods to communicate and engage with your community as the project progresses,
- Any preliminary comments or concerns that your community has on the proposed project.

CONCLUSION

Your input and questions are valued and an asset to the engagement team. We are hoping to learn from the Indigenous Communities as to how we can assist them through this process in order to address their concerns.

To provide our Engagement Team leader with your comments, please email g.pritchard@indigenousaware.com, or for further project information please contact Gary Pritchard at (705) 220-1952.

Sincerely,

CIPS

A handwritten signature in blue ink, appearing to read "Gary Pritchard", is written over a horizontal line.

Gary Pritchard
Manager of Environment and Consultations

Indigenous Relations



Record of Consultation Log

ROC Log
 Bi-monthly Log
 Final Bi-monthly Log

FNC Number

First Nation or Metis Settlement Consulted

Level of Consultation

Company Proponent Name

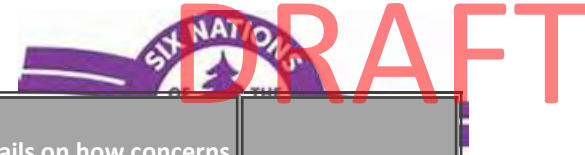
Date Range (Required for Bi-monthly)
 From To

Project Number/Activity Name

Comments

No.	Date	First Nation or Metis Settlement Representative(s) (including names of individuals with whom consultation was undertaken)	Method of Contact	Supporting Documents	Purpose of contact, brief details or key points of communication, including proponent representative's name	Issues and concerns raised or identified by First Nation or Metis Settlement	Details on how concerns were addressed, including avoidance or mitigation measures	Outcomes/ Comments
1	04-Dec-20	Lonny Bomberry, Lands and Resources Director	Email		Notification Letter	-	-	No response
2	30-Mar-21	Lonny Bomberry	Email		Project contact now has changed to Tiffany Taylor. TT requested confirmation of interest to engage on project	-	-	-

Indigenous Relations



No.	Date	First Nation or Metis Settlement Representative(s) (including names of individuals with whom consultation was undertaken)	Method of Contact	Supporting Documents	Purpose of contact, brief details or key points of communication, including proponent representative's name	Issues and concerns raised or identified by First Nation or Metis Settlement	Details on how concerns were addressed, including avoidance or mitigation measures	Outcomes/ Comments
3	21-Oct-21	Lonny Bomberry	Email		Follow up re: Project Notification			October 28 - New point of contact - Robin Vanstone - TT provided project info. And Tanya Hill-Montour - Arch. Supervisor.
4	02-Nov-21	TT - requested follow up from October 28 - Tanya Montour	Email		Follow up re: Involved or No			Tanya Hill-Montour requested meeting with TT
5	02-Nov-21	TT - telecon with Tanya Hill Montour	Tele-con		Six Nations to be involved @ Stage 2AA			
6	14-Jun-23	Email to all involved FN - re: project update and Public Information Centre Live	Email		Project Update			No response

From: Tiffany Taylor <t.taylor@indigenousaware.com>
Sent: May 3, 2022 11:28 AM
To: Justine Chin-Cheong
Subject: [External] FW: Project Notification - Matrix Solutions
Attachments: 18EA-223 Stage 1 Report.pdf; Dixie-Dundas Flood Mitigation Project - Notice of Study Expansion.pdf; Six Nations - Matrix Solutions 12042020.pdf



Tiffany D. Taylor (she/her/kwe)
Indigenous Aware Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-400-6722 | Mobile: 705-917-1321



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Curve Lake First Nation, Ontario K0L 1R0
www.indigenousaware.com

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Nijichaagominaanig **gaa-onji-bakewinidiyaang**

From: Robin Vanstone <rvanstone@sixnations.ca>
Sent: October 28, 2021 11:55 AM
To: Tiffany Taylor <T.TAYLOR@indigenousaware.com>
Cc: Tanya Hill-Montour <tanyahill-montour@sixnations.ca>; Bethany Kuntz-Wakefield <wildlife@sixnations.ca>
Subject: FW: Project Notification - Matrix Solutions

This message's attachments contains at least one web link. This is often used for phishing attempts. Please only interact with this attachment if you know its source and that the content is safe. If in doubt, confirm the legitimacy with the sender by phone.

Thank you Tiffany,

I have forwarded the attached documents to our Archaeology Supervisor, Tanya Hill-Montour and to our Environmental Stewardship Office Manager, Bethany Kuntz-Wakefield.

From: Tiffany Taylor <T.TAYLOR@indigenousaware.com>
Sent: October 28, 2021 11:23 AM
To: Robin Vanstone <rvanstone@sixnations.ca>
Subject: RE: Project Notification - Matrix Solutions

Good morning Robin,

Thank you for the response. Please see attached notification letter from December 4, 2020 as well as the Stage 1 Report and the Notice of Study Expansion.

Thanks again and please let me know how to proceed.



Tiffany D. Taylor
Indigenous Aware Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-657-1126 | Mobile: 705-917-1321

1109 Mississauga Street
Curve Lake First Nation, Ontario K0L 1R0
www.indigenousaware.com



Our Spirit is **What Sets Us Apart**
Nijichaagominaanig **gaa-onji-bakewinidiyaang**

From: Robin Vanstone <rvanstone@sixnations.ca>
Sent: Thursday, October 28, 2021 11:09 AM
To: Tiffany Taylor <T.TAYLOR@indigenousaware.com>
Subject: RE: Project Notification - Matrix Solutions

Good Morning Tiffany,

My name is Robbin Vanstone and I am the Consultation Supervisor for Six Nations of the Grand River Elected Council. I have been forwarded this email thread to follow up on but there is no information attached. Could you please send me the information that is supposed to be associated with this email thread.

Niá:wen,

Robbin Vanstone

*Consultation Supervisor
Lands and Resources
Six Nations of the Grand River
w. 519-753-0665 ext. 5433
c. 226-388-0284
rvanstone@sixnations.ca*





From: Lonny Bomberry <lonnybomberry@sixnations.ca>
Sent: October 28, 2021 10:53 AM
To: Robin Vanstone <rvanstone@sixnations.ca>
Subject: FW: Project Notification - Matrix Solutions

From: Tiffany Taylor <T.TAYLOR@indigenousaware.com>
Sent: October 28, 2021 10:21 AM
To: Lonny Bomberry <lonnybomberry@sixnations.ca>
Subject: RE: Project Notification - Matrix Solutions

Good day Mr. Bomberry,

I am following up with the email below.

Is this a project that your community would be consulted on?

With thanks,



Tiffany D. Taylor
Indigenous Aware Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-657-1126 | Mobile: 705-917-1321

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Nijichaagominaanig **gaa-onji-bakewinidiyaang**

From: Tiffany Taylor <t.taylor@indigenousaware.com>
Sent: Tuesday, March 30, 2021 10:14 AM
To: lonnybomberry@sixnations.ca
Subject: RE: Project Notification - Matrix Solutions

Good morning Lonny,

I hope you, yours and community are doing well.

I am following up in regards to the email sent to you below regarding the attached.

Gary Pritchard has left CIPS and I have taken over the consultation files that Gary was working on including the City of Mississauga/Matrix Solutions – Dixie-Dundas Flood Mitigation. For a short period of time this project was on hold and now it is starting to ramp up again.

When reviewing the project file, there has not been a response from you.

Is this a project that your community would like to be engaged in?

Please let me know if you have any concerns or questions.

Take care,



Tiffany D. Taylor
Project Administrative Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-657-1126 | Mobile: 705-917-1321

1109 Mississauga Street
Curve Lake First Nation, Ontario KOL 1R0
www.indigenousaware.com



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Nijichaagominaanig **gaa-onji-bakewinidiyaang**

From: Tiffany Taylor
Sent: Friday, December 4, 2020 10:37 AM
To: 'lonnybomberry@sixnations.ca' <lonnybomberry@sixnations.ca>
Cc: Gary Pritchard <g.pritchard@indigenousaware.com>
Subject: Project Notification - Matrix Solutions

Good morning,

On behalf of Gary Pritchard, Manager Environment and Consultation, I am sending you the attached project notification letter.

If you have any concerns or questions, please let us know.

With thanks and take care,



Tiffany D. Taylor
Project Administrative Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-657-1126 | Mobile: 705-917-1321

1109 Mississauga Street
Curve Lake First Nation, Ontario KOL 1R0
www.indigenousaware.com



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From: Steve Braun
Sent: February 28, 2022 8:01 AM
To: Melani-Ivy Samson
Subject: FW: [External] SNGR - Update
Attachments: SNGRFN - LRConsultationPolicySept2413.pdf

Steve Braun, P.Eng.
Principal Water Resources Engineer

MATRIX SOLUTIONS INC.

D 289.323.0975

C 647.271.5272

From: Tiffany Taylor <T.TAYLOR@indigenousaware.com>
Sent: November 3, 2021 11:13 AM
To: Andrew Doherty <adoherty@matrix-solutions.com>; Steve Braun <sbraun@matrix-solutions.com>; Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Subject: [External] SNGR - Update

Hi there, as an FYI I will be having a conversation at some point with Tanya Hill-Montour, Archaeology Supervisor for Six Nations of the Grand River.

Once this conversation is completed, I will notify you of the conversation.

Also, for your files, attached is the SNGR Land Resources Consultation policy.

Both HDI and SNGR use the map of the Nanfan/Fort Albany Treaty map for traditional hunting ground. So, there is interest from the 2 Nations to consult.

Let me know if you have any questions.

Have a good day,



Tiffany D. Taylor
Indigenous Aware Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-657-1126 | Mobile: 705-917-1321

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DRAFT

1109 MISSISSAUGA STREET
CURVE LAKE, ON K0L1R0

705-657-1126

INDIGENOUSAWARE.COM



December 4, 2020

Haudenosaunee Development Institute

16 Sunrise Court, Suite 600

P.O. Box 714

Ohsweken, ON N0A 1M0

ATTENTION: Tracey General, Office Manager, hdi2@bellnet.ca

CC: Leroy Hill, HCCC Secretary, ohahokta@hotmail.com

**RE: Project Notification – City of Mississauga, Dixie – Dundas Flood Mitigation
Our File: 18-1077-001**

Dear Tracey General,

Cambium Indigenous Professional Services (CIPS) Inc. formerly known as Cambium Aboriginal in partnership with Matrix Solutions Inc. has been retained by the City of Mississauga to conduct a Feasibility Study then a Municipal Environmental Assessment to address flooding within the Dixie and Dundas Road Area of the City of Mississauga. Through our initial research and review, we determine that this application's project falls within your community's traditional territory. We would like to send you this notice so that you are aware of potential activities within the territory.

WHO ARE WE?

CIPS has been providing engineering, planning, and environmental consulting services to public and private sector clients throughout Ontario from our office located in Curve Lake First Nation, Ontario.

Our environmental team specializes in municipal policy planning, natural heritage systems planning and environmental management, and development planning in the public and private sectors. We have provided a range of planning services to upper-tier and lower-tier municipalities, federal and provincial government agencies, First Nations, NGOs, and the private development sector.

In Ontario, Matrix is known as an innovative consulting team that specializes in integrated water resource assessment with a particular focus on characterizing and understanding surface water interactions and watershed management. The team members introduced in this proposal bring complementary expertise to this project. Our highly competent team brings extensive technical experience in fluvial geomorphology, water resource engineering, aquatic sciences, and landscape design.

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PROJECT TEAM

Project Manager (Matrix) - Mr. Stephen Braun, P.Eng. has over 30 years of consulting engineering and water resources experience managing a broad array of investigative and design projects. He specializes in floodplain definition and risk assessment, stormwater management, and low impact development approaches. Mr. Braun has specialized knowledge and experience in urban flood remediation, hydraulic modelling, hydrologic modelling, flood line studies, stormwater quality, and municipal servicing and drainage design. Most recently he was Project Manager (PM) of the Phase 2 Integrated Riverine and Urban Flood Risk Analysis and Urban Design Study project in the City of Brampton and serves as a Technical Advisor to the related and ongoing Downtown Brampton Flood Plain EA project. Mr. Braun has been PM for several urban Two Zone floodplain studies including Schneider Creek in downtown Kitchener, Ontario and Goodman Creek in downtown Oshawa.

Project Coordinator (Matrix) – Andrew Doherty, P.Eng is a Water Resources Engineer with over five years of consulting experience. His work primarily focuses on bridge and pipeline watercourse crossings, river engineering and geomorphology, and mine surface water management. He contributes to a broad range of projects within these focus areas for both private and public sector clients located in Ontario and Alberta. These have included highly visible, public projects on the Bow River in downtown Calgary, watercourse crossing designs and surface water management in rural, northern Alberta in support of resource development projects, and natural channel designs in locations ranging from the eastern slopes of the Rocky Mountains to residential development sites in the Greater Toronto Area.

On many projects, Mr. Doherty is involved from the conceptual and detailed design phases through to construction planning, regulatory permitting and approvals, and construction oversight. Working on a range of engineering problems from conceptual design to completion has helped Mr. Doherty cultivate a diverse skill set which he contributes to the development of practical, technically sound engineering solutions.

Indigenous Engagement Specialist (CIPS)-Gary Pritchard, is a member of Curve Lake First Nation and has travelled and worked in 286 First Nations communities throughout Canada. He brings a wealth of knowledge to both his Indigenous and non-Indigenous cliental performing a wide variety of services including: Indigenous Community Planning, land use/traditional knowledge studies, capacity building, mediator between western science and traditional science and peer reviewer on behalf of Indigenous communities. One of

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Gary's greatest strength is that he is often able to be the one who acts as the bridge between the Indigenous Community and the western style of government.

OUR CLIENT

The City of Mississauga project team consists of multi-disciplinary engineers, landscape architects, planners, ecologists, technical specialists, and support staff.

NATURE AND SCOPE OF ACTIVITY

The City's objective for this project is to modify the natural and built infrastructure of Little Etobicoke Creek, such that flood flows are contained within the floodplain upstream of Dixie Road, thereby removing the spill that flows towards the Applewood Creek watershed during large rainfall events. There is no experience quite like a flood to demand attention and action, and the one observed recently during the July 8, 2013 storm event has brought urgency to address this flooding problem. As a result of this flood, over 1000 residential and commercial buildings, between the flood location and the QEW, are at risk of flood damage. Of these, over 450 unique buildings are adjacent to high risk flooding, as defined by MNR's depth, velocity, and depth-velocity product criteria.

The many complications of achieving the simple goal of keeping the watercourse in its own banks/valley system are tremendous. However, success in this task will result in a great reduction of flood risk in the surrounding neighbourhoods, as well as areas further downstream (e.g. Dixie Outlet Mall). It will also facilitate future development envisioned by the ongoing recent Dundas Connects project and other City initiatives could potentially be achieved.

The project team will be conducting a Feasibility Study that will follow Phases I and II of the Municipal Class EA process, but will not include the formal Notice of Commencement and public engagement elements. The purpose of the Feasibility Study is to:

- identify the problem / opportunity;
- develop flood protection alternatives;
- and assess alternatives at a high level.

The feasibility study will consist primarily as a series of technical studies to determine existing and potential future conditions within the study area. We will coordinate these studies in unison to determine whether any of the alternatives are technically and/or fiscally achievable prior to proceeding with a full EA. We anticipate that through the feasibility study, a short list of alternatives will be developed for the EA and a preliminary preferred

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alternative will be selected in order to confirm the EA as a Schedule B or Schedule C water and wastewater project.

PROJECT LOCATION

The project is located within the city limits of the City of Mississauga between the intersections of Dixie Road and Dundas Street East. The project footprint will not extend past Bloor Street. Please see the appended figure, illustrating the flood area within the project area.

ASSESSMENTS TO BE COMPLETED

Extensive field and technical studies will be undertaken on the site. These studies typically include but not limited to the follow:

- Planning Justification Report,
- Archaeological Assessment Stage 1 and 2 and MTCS Letters,
- Hydrological Assessment,
- Natural Environment Reporting,
- Fisheries Impact Assessment,
- Traffic Impact Study and
- Draft Site Plan(s)

We would be more than happy to provide a copy of the technical reports, mitigation plans and Site Plan for your review and comment.

CIPS APPROACH TO ENGAGEMENT

At CIPS we encourage our clients to engage with the Indigenous communities whose rights may be affected by their proposed project early as possible in the project planning phase of the project to build solid relationships for information sharing purposes. This early engagement allows a dialogue provides an opportunity to identify concerns or additional studies that may be required by the community and lead to a greater likelihood of success of collaboration on the project.

Our Indigenous Engagement Coordinator, Gary Pritchard is a member of Curve Lake First Nation and has 17 years of experience in the environmental field. Gary has travelled and worked with over 280 Indigenous Communities. Gary advises clients on the Duty to

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Consult and leads community engagement initiatives with Indigenous communities whose Treaty Rights are at risk from site alteration. He has successfully collaborated with many stakeholder groups, researchers, institutions, government agencies, Indigenous Communities, and political organizations to address environmental concerns and identify practical solutions to environmental related issues.

ENGAGEMENT WITH INDIGENOUS COMMUNITIES

At this stage of the project, we are requesting, on behalf of the City of Mississauga, that your community provide any comments and/or concerns with the proposed Project.

Specifically, we are seeking input on:

- The level of interest in the project from the community for further engagement; and,
- The best methods to communicate and engage with your community as the project progresses,
- Any preliminary comments or concerns that your community has on the proposed project.

CONCLUSION

Your input and questions are valued and an asset to the engagement team. We are hoping to learn from the Indigenous Communities as to how we can assist them through this process in order to address their concerns.

To provide our Engagement Team leader with your comments, please email g.pritchard@indigenousaware.com, or for further project information please contact Gary Pritchard at (705) 220-1952.

Sincerely,

CIPS

A handwritten signature in blue ink, appearing to read "Gary Pritchard", is written over a horizontal line.

Gary Pritchard
Manager of Environment and Consultations

Indigenous Relations



DRAFT
HAUDENOSAUNEE
CONFEDERACY

Record of Consultation Log

ROC Log Bi-monthly Log Final Bi-monthly Log

FNC Number

First Nation or Metis Settlement Consulted

Level of Consultation

Company Proponent Name

Date Range (Required for Bi-monthly)
 From To

Project Number/Activity Name

Comments

No.	Date	First Nation or Metis Settlement Representative(s) (including names of individuals with whom consultation was undertaken)	Method of Contact	Supporting Documents	Purpose of contact, brief details or key points of communication, including proponent representative's name	Issues and concerns raised or identified by First Nation or Metis Settlement	Details on how concerns were addressed, including avoidance or mitigation measures	Outcomes/ Comments
1	04-Dec-20	Tracey General, Office Manager and Leroy Hill, HCCC Secretary	Email		Project Notification	-	-	No response
2	30-Mar-21	Tracey General, Office Manager and Leroy Hill, HCCC Secretary	Email		Project contact now has changed to Tiffany Taylor. TT requested confirmation of interest to engage on project	-	-	
3	06-Apr-21	Aaron Detlor	Email		Confirm - HDI to be fully engaged and to contact Tracey General to schedule			TT contact Tracey General - no response

Indigenous Relations



HAUDENOSAUNEE **DRAFT**

No.	Date	First Nation or Metis Settlement Representative(s) (including names of individuals with whom consultation was undertaken)	Method of Contact	Supporting Documents	Purpose of contact, brief details or key points of communication, including proponent representative's name	Issues and concerns raised or identified by First Nation or Metis Settlement	Details on how concerns were addressed, including avoidance or mitigation measures	Outcomes/ Comments
4	28-Oct-21	Aaron Detlor	Email		Response to TT re: HDI Policy and Application per Consultation			
5	02-Nov-21	TT contacted A. Detlor re: HDI Policy and Application	Email		A. Detlor respond - Raechelle to provide to TT			
6	03-Nov-21	TT contacted A. Detlor re: received application and policy to provide to Matrix - TT question re: engagement map - Nanfan Treaty Territory	Email		A. Detlor respond - project location in treaty area and expect consultation			
7	03-May-22	TT - email info@hdi.land - requesting a virtual meeting	Email		Requesting Virtual meeting	No response		No response
8	16-May-22	TT - telephone HDI and was directed to email. TT emailed re: requesting virtual meeting to discuss project	Email		Requesting Virtual meeting	No response		No response

Indigenous Relations



HAUDENOSAUNEE **DRAFT**

No.	Date	First Nation or Metis Settlement Representative(s) (including names of individuals with whom consultation was undertaken)	Method of Contact	Supporting Documents	Purpose of contact, brief details or key points of communication, including proponent representative's name	Issues and concerns raised or identified by First Nation or Metis Settlement	Details on how concerns were addressed, including avoidance or mitigation measures	Outcomes/ Comments
9	16-May-22	TT - email regarding fee and application process	Email		Requesting confirmation of fees and process and provided Stage 1 AA	No response		No response
10	09-Dec-22	Application submitted to HDI and fee has been paid.	Mail		Submission of hard copies of application, including report.	No response		No response
11	05-Apr-23	TT - Contacted HDI to confirm receipt of application from Mississauga City and to confirmed payment of \$7,000	Email		Requesting confirmation	No response		No response Payment has been processed.
12	14-Jun-23	Email to all involved FN - re: project update and Public Information Centre Live	Email		Project Update			No response

From: Steve Braun
Sent: February 28, 2022 8:01 AM
To: Melani-Ivy Samson
Subject: FW: [External] FW: Project Notification - Matrix Solutions
Attachments: image001.jpg

Steve Braun, P.Eng.
Principal Water Resources Engineer

MATRIX SOLUTIONS INC.

D 289.323.0975

C 647.271.5272

From: Tiffany Taylor <T.TAYLOR@indigenousaware.com>
Sent: November 3, 2021 10:09 AM
To: Andrew Doherty <adoherty@matrix-solutions.com>; Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>; Steve Braun <sbraun@matrix-solutions.com>
Subject: [External] FW: Project Notification - Matrix Solutions

Here is HDI's response below.



Tiffany D. Taylor
Indigenous Aware Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-657-1126 | Mobile: 705-917-1321

1109 Mississauga Street
Curve Lake First Nation, Ontario K0L 1R0
www.indigenousaware.com



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Nijichaagominaanig **gaa-onji-bakewinidiyaang**

From: Aaron Detlor <aarondetlor@gmail.com>
Sent: Wednesday, November 3, 2021 10:00 AM
To: Tiffany Taylor <T.TAYLOR@indigenousaware.com>
Cc: Tracey General <traceyghdi@gmail.com>; HDI General <hdi2@bellnet.ca>; Brian Doolittle <ganowa@me.com>;
Todd Williams <williams.todde@gmail.com>; Wayne Hill <tworowarchaeology@gmail.com>
Subject: Re: Project Notification - Matrix Solutions

Good morning Ms Taylor I will have someone send you a copy of man Fan treaty map we expect engagement with any entity doing any work in the nanfan treaty territory

On Wed., Nov. 3, 2021, 9:51 a.m. Tiffany Taylor, <T.TAYLOR@indigenousaware.com> wrote:

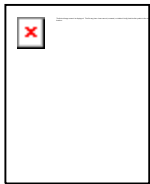
Good morning,

I have received the attachments. Thank you!

I have a question, in the Haudenosaunee Green Plan there is a map, is that locations outline in colour the only towns/municipalities that you consult/engage with?

Thank you for the clarification.

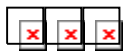
Have a good day,



Tiffany D. Taylor

Indigenous Aware Coordinator

CIPS, Cambium Indigenous Professional Services



Email: t.taylor@indigenousaware.com

Phone: 705-657-1126 | Mobile: 705-917-1321

1109 Mississauga Street

Curve Lake First Nation, Ontario K0L 1R0

www.indigenousaware.com



From: Tracey General <traceyghdi@gmail.com>

Sent: Tuesday, November 2, 2021 6:25 PM

To: Tiffany Taylor <T.TAYLOR@indigenousaware.com>

Cc: Robert Aaron Detlor <aarondetlor@gmail.com>; HDI General <hdi2@bellnet.ca>; Brian Doolittle <ganowa@me.com>; Todd Williams <williams.todde@gmail.com>; Wayne Hill <tworowarchaeology@gmail.com>

Subject: Re: Project Notification - Matrix Solutions

This message's attachments contains at least one web link. This is often used for phishing attempts. Please only interact with this attachment if you know its source and that the content is safe. If in doubt, confirm the legitimacy with the sender by phone.

Good Evening:

Please see the attachments.

Thank you!

Tracey General

On Nov 2, 2021, at 3:57 PM, Tiffany Taylor <T.TAYLOR@indigenousaware.com> wrote:

Hi there. I have not received the HDI Policy and Application. Could I be provided it to share with Matrix Solutions.

With thanks,

<image001.jpg>

Tiffany D. Taylor

Indigenous Aware Coordinator

<image002.jpg><image003.jpg><image004.jpg>

CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com

Phone: 705-657-1126 | Mobile: 705-917-1321

1109 Mississauga Street

Curve Lake First Nation, Ontario K0L 1R0

www.indigenousaware.com

<image009.jpg>

<image010.jpg>

From: Aaron Detlor <aarondetlor@gmail.com>

Sent: Thursday, October 28, 2021 12:02 PM

To: Tiffany Taylor <T.TAYLOR@indigenousaware.com>

Cc: Aaron Detlor <aarondetlor@gmail.com>; HDI General <hdi2@bellnet.ca>; Brian Doolittle <ganowa@me.com>; williams todde@gmail.com <williams.todde@gmail.com>; Wayne Hill <tworowarchaeology@gmail.com>; Tracey General <traceyghdi@gmail.com>

Subject: Re: Project Notification - Matrix Solutions

Tracey please provide

Thanks

Aaron

On Oct 28, 2021, at 9:43 AM, Tiffany Taylor <t.taylor@indigenousaware.com> wrote:

Good morning,

Could I be provided with the HDI Policy as well as application – I would like to forward to Matrix Solutions to see whether an application has been completed.

With thanks,

<image001.jpg>

Tiffany D. Taylor

Indigenous Aware Coordinator

<image002.jpg><image003.jpg><image004.jpg>

CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com

Phone: 705-657-1126 | Mobile: 705-917-1321

1109 Mississauga Street

Curve Lake First Nation, Ontario K0L 1R0

www.indigenousaware.com

<image009.jpg>

<image010.jpg>

From: Aaron Detlor <aarondetlor@gmail.com>

Sent: Tuesday, April 6, 2021 10:41 AM

To: HDI General <hdi2@bellnet.ca>; Tiffany Taylor <t.taylor@indigenousaware.com>

Cc: Aaron Detlor <aarondetlor@gmail.com>; Brian Doolittle

<ganowa@me.com>; williams.todde@gmail.com; Wayne Hill

<tworowarchaeology@gmail.com>; Tracey General <traceyghdi@gmail.com>

Subject: Re: Project Notification - Matrix Solutions

Dear Ms. Taylor

We are looking forward to full engagement on this Project. Please contact Ms. General to set up a zoom meeting so we can take an initial review of the Project. Can you please advise if you have provided an application as required by HDI policy. As it stands now the Project interferes with Haudenosaunee rights and interests.

Regards,

Aaron Detlor

On Apr 2, 2021, at 6:33 AM, hdi2@bellnet.ca wrote:

Begin forwarded message:

From: Tiffany Taylor
<t.taylor@indigenousaware.com>

Subject: RE: Project Notification - Matrix Solutions

Date: March 30, 2021 at 10:55:59 AM EDT

To: "hdi2@bellnet.ca" <hdi2@bellnet.ca>

Cc: "ohahokta@hotmail.com"
<ohahokta@hotmail.com>

Good morning Tracey and Leroy,

I hope you, yours and community are doing well.

I am following up in regards to the email sent to you below regarding the attached.

Gary Pritchard has left CIPS and I have taken over the consultation files that Gary was working on including the City of Mississauga/Matrix Solutions – Dixie-Dundas Flood Mitigation. For a short period of time this project was on hold and now it is starting to ramp up again.

When reviewing the project file, there has not been a response from you.

Is this a project that you would like to participate in engagement with?

Please let me know if you have any concerns or questions.

Take care,

| _____
<image001.jpg>

| _____
<image002.jpg>

| _____

<image003.jpg>

<image004.jpg>

Tiffany D. Taylor

Project Administrative Coordinator

CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com

Phone: 705-657-1126 | Mobile: 705-917-1321

1109 Mississauga Street

Curve Lake First Nation, Ontario K0L 1R0

www.indigenousaware.com

<image006.jpg>

<image007.jpg>

From: Tiffany Taylor
Sent: Friday, December 4, 2020 10:39 AM
To: 'hdi2@bellnet.ca' <hdi2@bellnet.ca>
Cc: 'ohahokta@hotmail.com' <ohahokta@hotmail.com>; Gary Pritchard <g.pritchard@indigenousaware.com>
Subject: Project Notification - Matrix Solutions

Good morning,

On behalf of Gary Pritchard, Manager Environment and Consultation, I am sending you the attached project notification letter.

If you have any concerns or questions, please let us know.

With thanks and take care,

Tiffany D. Taylor
Project Administrative Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-657-1126 | Mobile: 705-917-1321

1109 Mississauga Street
Curve Lake First Nation, Ontario K0L 1R0
www.indigenousaware.com

<HDI - Matrix Solutions 12042020.pdf>

Indigenous Relations



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HURONNE-
WENDAT

Record of Consultation Log

ROC Log Bi-monthly Log Final Bi-monthly Log

FNC Number

First Nation or Metis Settlement Consulted

Level of Consultation

Company Proponent Name

Date Range (Required for Bi-monthly)
 From To

Project Number/Activity Name

Comments

No.	Date	First Nation or Metis Settlement Representative(s) (including names of individuals with whom consultation was undertaken)	Method of Contact	Supporting Documents	Purpose of contact, brief details or key points of communication, including proponent representative's name	Issues and concerns raised or identified by First Nation or Metis Settlement	Details on how concerns were addressed, including avoidance or mitigation measures	Outcomes/ Comments
1	04-Dec-20	Maxime Picard	Email		Project Notification			
2	04-Dec-20	From - Maxime Picard	Email		Project Notification	Requesting to be engaged and involved in all archaeological stages	-	-
3	30-Mar-21	Maxime Picard	Email		Project contact now has changed to Tiffany Taylor. TT requested reconfirmation of interest to engage on project in all archaeological stages - also noted that the Stage 1 Archaeological Assessment is being updated to included extended area	-	-	-
4	30-Mar-21	From - Maxime Picard	Email		Confirmed contact who will follow up	-	-	-

Indigenous Relations



DRAFT
NATION
HURONNE-
WENDAT

No.	Date	First Nation or Metis Settlement Representative(s) (including names of individuals with whom consultation was undertaken)	Method of Contact	Supporting Documents	Purpose of contact, brief details or key points of communication, including proponent representative's name	Issues and concerns raised or identified by First Nation or Metis Settlement	Details on how concerns were addressed, including avoidance or mitigation measures	Outcomes/ Comments
5	11-Mar-21	From Maxime Picard, Archaeological Operations Supervisor	Email		Provided response re: Archaeological Assessment review and provided cost and agreement for review	-	-	TT provided response and documents to Matrix
6	14-Jun-23	Email to all involved FN - re: project update and Public Information Centre Live	Email		Project Update			No response
7	14-Jun-23	Email to all involved FN - re: project update and Public Information Centre Live	Email		Project Update	received notice from Matrix re: new contact at MCFN.	TT provided update to Abby Laforme, Mark Laforme and Adam Laforme	No response

From: Tiffany Taylor <t.taylor@indigenousaware.com>
Sent: May 3, 2022 11:22 AM
To: Justine Chin-Cheong
Subject: [External] FW: Project Notification - Matrix Solution



Tiffany D. Taylor (she/her/kwe)
Indigenous Aware Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-400-6722 | Mobile: 705-917-1321

1109 Mississauga Street
Curve Lake First Nation, Ontario K0L 1R0
www.indigenousaware.com



Our Spirit is **What Sets Us Apart**
Nijichaagominaanig **gaa-onji-bakewinidiyaang**

From: Tiffany Taylor <T.TAYLOR@indigenousaware.com>
Sent: October 12, 2021 4:18 PM
To: Andrew Doherty <adoherty@matrix-solutions.com>
Subject: FW: Project Notification - Matrix Solution



Tiffany D. Taylor
Indigenous Aware Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-657-1126 | Mobile: 705-917-1321

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Nijichaagominaanig **gaa-onji-bakewinidiyaang**

From: Maxime Picard <maxime.picard@cnhw.qc.ca>
Sent: Friday, December 4, 2020 10:48 AM
To: Tiffany Taylor <t.taylor@indigenousaware.com>

Cc: melanievincent21@yahoo.ca; Gary Pritchard <g.pritchard@indigenousaware.com>

Subject: RE: Project Notification - Matrix Solution

Good morning Tiffany and Gary,

First of all let me thank you for your letter and information on the Matrix Solution Project.

The Huron-Wendat Nation will be pleased to collaborate with you and your team on this important project.

Please note that we have a specific interest in all archaeological studies that will be initiated.

We are requesting to be engaged and involved in all archaeological Stages.

Do not hesitate to contact us if you would like to discuss.

Best regards and stay safe,

Maxime



NATION HURONNE-WENDAT
Bureau du Nionwentsïo

Maxime Picard, B. Sc. A.
Coordonnateur de projets - Ontario
255, Place Chef Michel-Laveau
Wendake (Qc) G0A 4V0
Téléphone : 418-843-3767 # 2105
Courriel : maxime.picard@cnhw.qc.ca



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De : Tiffany Taylor [<mailto:t.taylor@indigenousaware.com>]

Envoyé : 4 décembre 2020 10:40

À : maxime.picard@cnhw.qc.ca

Cc : melanievincent21@yahoo.ca; Gary Pritchard <g.pritchard@indigenousaware.com>

Objet : Project Notification - Matrix Solution

Good morning,

On behalf of Gary Pritchard, Manager Environment and Consultation, I am sending you the attached project notification letter.

If you have any concerns or questions, please let us know.

With thanks and take care,



Tiffany D. Taylor
Project Administrative Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-657-1126 | Mobile: 705-917-1321

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Nijichaagominaanig **gaa-onji-bakewinidiyaang**

From: Tiffany Taylor <t.taylor@indigenousaware.com>
Sent: May 3, 2022 11:22 AM
To: Justine Chin-Cheong
Subject: [External] FW: Project Notification - Matrix Solution



Tiffany D. Taylor (she/her/kwe)
Indigenous Aware Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
Phone: 705-400-6722 | Mobile: 705-917-1321

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Nijichaagominaanig **gaa-onji-bakewinidiyaang**

From: Tiffany Taylor <T.TAYLOR@indigenousaware.com>
Sent: October 12, 2021 4:20 PM
To: Andrew Doherty <adoherty@matrix-solutions.com>
Subject: FW: Project Notification - Matrix Solution



Tiffany D. Taylor
Indigenous Aware Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com
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Nijichaagominaanig **gaa-onji-bakewinidiyaang**

From: Maxime Picard <maxime.picard@cnhw.qc.ca>
Sent: Tuesday, March 30, 2021 11:32 AM
To: Tiffany Taylor <t.taylor@indigenousaware.com>

Cc: melanievincent21@yahoo.ca; mario gros-louis <mario.groslouis@cnhw.qc.ca>

Subject: RE: Project Notification - Matrix Solution

Good morning Tiffany,

Please note that my colleagues Ms. Mélanie Vincent and Mario Gros-Louis will follow-up with you on this.

Regards,

Maxime

Maxime Picard, B. Sc. A.

Directeur développement économique et projets majeurs



Conseil de la Nation huronne-wendat

255, place Chef Michel Laveau

Wendake (Québec) G0A 4V0

Téléphone : (418) 843-3767

Mobile : (418) 262-1681

Télécopieur : (418) 842-1108

Site Internet : www.wendake.ca

De : Tiffany Taylor [<mailto:t.taylor@indigenousandaware.com>]

Envoyé : 30 mars 2021 11:29

À : Maxime Picard <maxime.picard@cnhw.qc.ca>

Cc : melanievincent21@yahoo.ca

Objet : RE: Project Notification - Matrix Solution

Good day Maxime,

I hope you, yours and community are doing well.

I am following up in regards to the email below and the attachment that was provided.

Gary Pritchard has left CIPS and I have taken over the consultation files that Gary was working on including the City of Mississauga/Matrix Solutions – Dixie-Dundas Flood Mitigation. For a short period of time this project was on hold and now it is starting to ramp up again.

I am reconfirming that you are interested to be engaged and involved in all archaeological stages.

Currently, there is a Stage 1 Archaeological Assessment, however this is now being updated to include an extended study area and it is expected to be completed at the end of April.

Please confirm and let me know if you have any concerns or questions.

Take care,



Tiffany D. Taylor
Project Administrative Coordinator
CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenouseaware.com
Phone: 705-657-1126 | Mobile: 705-917-1321

1109 Mississauga Street
Curve Lake First Nation, Ontario K0L 1R0
www.indigenouseaware.com



Our Spirit is **What Sets Us Apart**

Nijichaagominaanig **gaa-onji-bakewinidiyaang**

From: Maxime Picard <maxime.picard@cnhw.qc.ca>

Sent: Friday, December 4, 2020 10:48 AM

To: Tiffany Taylor <t.taylor@indigenouseaware.com>

Cc: melanievincent21@yahoo.ca; Gary Pritchard <g.pritchard@indigenouseaware.com>

Subject: RE: Project Notification - Matrix Solution

Good morning Tiffany and Gary,

First of all let me thank you for your letter and information on the Matrix Solution Project.

The Huron-Wendat Nation will be pleased to collaborate with you and your team on this important project.

Please note that we have a specific interest in all archaeological studies that will be initiated. We are requesting to be engaged and involved in all archaeological Stages.

Do not hesitate to contact us if you would like to discuss.

Best regards and stay safe,

Maxime



NATION HURONNE-WENDAT Bureau du Nionwentsïo

Maxime Picard, B. Sc. A.

Coordonnateur de projets - Ontario

255, Place Chef Michel-Laveau

Wendake (Qc) G0A 4V0

Téléphone : 418-843-3767 # 2105

Courriel : maxime.picard@cnhw.qc.ca



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De : Tiffany Taylor [<mailto:t.taylor@indigenousaware.com>]

Envoyé : 4 décembre 2020 10:40

À : maxime.picard@cnhw.qc.ca

Cc : melanievincent21@yahoo.ca; Gary Pritchard <g.pritchard@indigenousaware.com>

Objet : Project Notification - Matrix Solution

Good morning,

On behalf of Gary Pritchard, Manager Environment and Consultation, I am sending you the attached project notification letter.

If you have any concerns or questions, please let us know.

With thanks and take care,



Tiffany D. Taylor

Project Administrative Coordinator

CIPS, Cambium Indigenous Professional Services

Email: t.taylor@indigenousaware.com

Phone: 705-657-1126 | Mobile: 705-917-1321

1109 Mississauga Street

Curve Lake First Nation, Ontario K0L 1R0

www.indigenousaware.com



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Appendix E
Agencies Consultation

Ministry of the Environment,
Conservation and Parks

Environmental Assessment Branch

1st Floor
135 St. Clair Avenue W
Toronto ON M4V 1P5
Tel.: 416 314-8001
Fax.: 416 314-8452

Ministère de l'Environnement, de la
Protection de la nature et des Parcs

*Direction des évaluations
environnementales*

Rez-de-chaussée
135, avenue St. Clair Ouest
Toronto ON M4V 1P5
Tél. : 416 314-8001
Télééc. : 416 314-8452



September 17, 2020

Anthony Di Giandomenico, P.Eng.
Project Manager
City of Mississauga
anthony.digiandomenico@mississauga.ca
BY EMAIL ONLY

Re: **Dixie-Dundas Flood Mitigation Project**
City of Mississauga
Schedule C Municipal Class Environmental Assessment
Notice of Study Commencement

Dear Mr. Di Giandomenico

This letter is in response to the Notice of Commencement for the above noted project. The Ministry of the Environment, Conservation and Parks (MECP) acknowledges that the City of Mississauga has indicated that the study is following the approved environmental planning process for a Schedule C project under the Municipal Engineers Association's Municipal Class Environmental Assessment (Class EA).

The attached "Areas of Interest" document provides guidance regarding the ministry's interests with respect to the Class EA process. Please identify the areas of interest which are applicable to the project and ensure they are addressed. Proponents who address all the applicable areas of interest can minimize potential delays to the project schedule.

The Crown has a legal duty to consult Aboriginal communities when it has knowledge, real or constructive, of the existence or potential existence of an Aboriginal or treaty right and contemplates conduct that may adversely impact that right. Before authorizing this project, the Crown must ensure that its duty to consult has been fulfilled, where such a duty is triggered. Although the duty to consult with Aboriginal peoples is a duty of the Crown, the Crown may delegate procedural aspects of this duty to project proponents while retaining oversight of the consultation process.

The proposed project may have the potential to affect Aboriginal or treaty rights protected under Section 35 of Canada's *Constitution Act* 1982. Where the Crown's duty to consult is triggered in relation to the proposed project, **the MECP is delegating the procedural aspects of rights-based consultation to the proponent through this letter.** The Crown intends to rely on the delegated consultation process in discharging its duty to consult and maintains the right to participate in the consultation process as it sees fit.

Based on information provided to date and the Crown's preliminary assessment the proponent is required to consult with the following communities who have been identified as potentially affected by the proposed project:

- Mississaugas of the Credit First Nation;
- Six Nations of the Grand River;
- Haudenosaunee Confederacy Chiefs Council; and
- Huron-Wendat Nation, if there are potential archeological impacts

Steps that the proponent may need to take in relation to Aboriginal consultation for the proposed project are outlined in the "[Code of Practice for Consultation in Ontario's Environmental Assessment Process](#)".

Additional information related to Ontario's *Environmental Assessment Act* is available online at: www.ontario.ca/environmentalassessments

Please also refer to the attached document "A Proponent's Introduction to the Delegation of Procedural Aspects of consultation with Aboriginal Communities" for further information.

The proponent must contact the Director of Environmental Assessment Branch under the following circumstances subsequent to initial discussions with the communities identified by MECP:

- Aboriginal or treaty rights impacts are identified to you by the communities;
- You have reason to believe that your proposed project may adversely affect an Aboriginal or treaty right;
- Consultation with Indigenous communities or other stakeholders has reached an impasse; or
- A Part II Order request is expected based on impacts to Aboriginal or treaty rights.

The MECP will then assess the extent of any Crown duty to consult for the circumstances and will consider whether additional steps should be taken, including what role you will be asked to play should additional steps and activities be required.

Once the report is finalized, the proponent must issue a Notice of Completion providing a minimum 30-day period during which documentation may be reviewed and comment and input can be submitted to the Proponent.

Please ensure that the Notice of Completion advises that outstanding concerns are to be directed to the proponent for a response, and that in the event there are outstanding concerns regarding potential adverse impacts to constitutionally protected Aboriginal and treaty rights, Part II Order requests on those matters should be addressed in writing to:

Minister Jeff Yurek
Ministry of Environment, Conservation and Parks
777 Bay Street, 5th Floor
Toronto ON M7A 2J3
minister.mecp@ontario.ca

and

Director, Environmental Assessment Branch
Ministry of Environment, Conservation and Parks

135 St. Clair Ave. W, 1st Floor
Toronto ON, M4V 1P5
EABDirector@ontario.ca

Please note the project cannot proceed until at least 30 days after the end of the public review period provided for in the Notice of Completion.

Further, the project may not proceed after this time if:

- a Part II Order request has been submitted to the ministry regarding potential adverse impacts to constitutionally protected Aboriginal and treaty rights; or
- the Director has issued a Notice of Proposed Order regarding the project.

The public can request a higher level of assessment on a project if they are concerned about potential adverse impacts to constitutionally protected Aboriginal and treaty rights. In addition, the Minister may issue an order on his or her own initiative within a specified time period. The Director will issue a Notice of Proposed Order to the proponent if the Minister is considering an order for the project within 30 days after the conclusion of the comment period on the Notice of Completion. At this time, the Director may request additional information from the proponent.

Once the requested information has been received, the Minister will have 30 days to make a decision or impose conditions on your project.

A draft copy of the report should be sent to me prior to the filing of the final report, allowing a minimum of 30 days for the ministry's technical reviewers to provide comments.

Please also ensure a copy of the final notice is sent to the ministry's Central Region EA notification email account (eanotification.cregion@ontario.ca) after the draft report is finalized.

Should you or your project team members have any questions regarding the material above, please contact me at trevor.bell@ontario.ca.

Sincerely,



Trevor Bell
Regional Environmental Assessment Coordinator

cc: Tina Dufresne, Manager, Halton Peel District Office, MECP
Agni Papageorgiou, Supervisor, Project Review Unit
Andrew Doherty, Consultant Project Manager, Matrix Solutions Inc.

Attachments: Areas of Interest
A Proponent's Introduction to the Delegation of Procedural Aspects of
consultation with Aboriginal Communities

AREAS OF INTEREST

It is suggested that you check off each applicable area after you have considered / addressed it.

Species at Risk

- The Ministry of the Environment, Conservation and Parks has now assumed responsibility of Ontario's Species at Risk program. For any questions related to subsequent permit requirements, please contact SAROntario@ontario.ca.

Planning and Policy

- Ontario has released "A Place to Grow: Growth Plan for the Greater Golden Horseshoe (2019)" which replaces the "Growth Plan for the Greater Golden Horseshoe (2017)". More information, including the Plan, is found here: <https://www.placestogrow.ca>.
- Parts of the study area may be subject to the [A Place to Grow: Growth Plan for the Greater Golden Horseshoe](#) (2019), [Oak Ridges Moraine Conservation Plan](#) (2017), [Niagara Escarpment Plan](#) (2017), [Greenbelt Plan](#) (2017) or [Lake Simcoe Protection Plan](#) (2014). Applicable policies should be referenced in the report, and the proponent should describe how the proposed project adheres to the relevant policies in these plans.
- The [Provincial Policy Statement](#) (2020) contains policies that protect Ontario's natural heritage and water resources. Applicable policies should be referenced in the report, and the proponent should describe how the proposed project is consistent with these policies.

Source Water Protection (all projects)

The *Clean Water Act*, 2006 (CWA) aims to protect existing and future sources of drinking water. To achieve this, several types of vulnerable areas have been delineated around surface water intakes and wellheads for every municipal residential drinking water system that is located in a source protection area. These vulnerable areas are known as a Wellhead Protection Areas (WHPAs) and surface water Intake Protection Zones (IPZs). Other vulnerable areas that have been delineated under the CWA include Highly Vulnerable Aquifers (HVAs), Significant Groundwater Recharge Areas (SGRAs), Event-based modelling areas (EBAs), and Issues Contributing Areas (ICAs). Source protection plans have been developed that include policies to address existing and future risks to sources of municipal drinking water within these vulnerable areas.

Projects that are subject to the Environmental Assessment Act that fall under a Class EA, or one of the Regulations, have the potential to impact sources of drinking water if they occur in designated vulnerable areas or in the vicinity of other at-risk drinking water systems (i.e. systems that are not municipal residential systems). MEA Class EA projects may include activities that, if located in a vulnerable area, could be a threat to sources of drinking water (i.e. have the potential to adversely affect the quality or quantity of drinking water sources) and the activity could therefore be subject to policies in a source protection plan. Where an activity poses a risk to drinking water, policies in the local source protection plan may impact how or where that activity is undertaken. Policies may prohibit certain activities, or they may require risk management measures for these activities. Municipal Official Plans, planning decisions, Class EA projects (where the project includes an activity that is a threat to drinking water) and prescribed instruments must conform with policies that address significant risks to drinking water and must have regard for policies that address moderate or low risks.

- In October 2015, the MEA Parent Class EA document was amended to include reference to the

Clean Water Act (Section A.2.10.6) and indicates that proponents undertaking a Municipal Class EA project must identify early in their process whether a project is or could potentially be occurring with a vulnerable area. **Given this requirement, please include a section in the report on source water protection.**

- The proponent should identify the source protection area and should clearly document how the proximity of the project to sources of drinking water (municipal or other) and any delineated vulnerable areas was considered and assessed. Specifically, the report should discuss whether or not the project is located in a vulnerable area and provide applicable details about the area.
- If located in a vulnerable area, proponents should document whether any project activities are prescribed drinking water threats and thus pose a risk to drinking water (this should be consulted on with the appropriate Source Protection Authority). Where an activity poses a risk to drinking water, the proponent must document and discuss in the report how the project adheres to or has regard to applicable policies in the local source protection plan. This section should then be used to inform and be reflected in other sections of the report, such as the identification of net positive/negative effects of alternatives, mitigation measures, evaluation of alternatives etc.
- While most source protection plans focused on including policies for significant drinking water threats in the WHPAs and IPZs it should be noted that even though source protection plan policies may not apply in HVAs, these are areas where aquifers are sensitive and at risk to impacts and within these areas, activities may impact the quality of sources of drinking water for systems other than municipal residential systems.
- In order to determine if this project is occurring within a vulnerable area, proponents can use this mapping tool: <http://www.applications.ene.gov.on.ca/swp/en/index.php>. The mapping tool will also provide a link to the appropriate source protection plan in order to identify what policies may be applicable in the vulnerable area.
- For further information on the maps or source protection plan policies which may relate to their project, proponents must contact the appropriate source protection authority. **Please consult with the local source protection authority to discuss potential impacts on drinking water. The contact for this project is Jennifer Stephens at (416) 661-6600 ext 5568 or jstephens@trca.on.ca. Please document the results of that consultation within the report and include all communication documents/correspondence.**

More Information

For more information on the *Clean Water Act*, source protection areas and plans, including specific information on the vulnerable areas and drinking water threats, please refer to Conservation Ontario's website where you will also find links to the local source protection plan/assessment report.

A list of the prescribed drinking water threats can be found in section 1.1 of Ontario Regulation 287/07 made under the *Clean Water Act*. In addition to prescribed drinking water threats, some source protection plans may include policies to address additional "local" threat activities, as approved by the MECP.

Climate Change

Ontario is leading the fight against climate change through the [Climate Change Action Plan](#). Recently released, the plan lays out the specific actions Ontario will take in the next five years to meet its 2020 greenhouse gas reduction targets and establishes the framework necessary to meet its long-term

targets. As a commitment of the action plan, **the province has now finalized a guide, "[Considering Climate Change in the Environmental Assessment Process](#)" (Guide).**

The Guide is now a part of the Environmental Assessment program's Guides and Codes of Practice. The Guide sets out the MECP's expectation for considering climate change in the preparation, execution and documentation of environmental assessment studies and processes. The guide provides examples, approaches, resources, and references to assist proponents with consideration of climate change in EA. **Proponents should review this Guide in detail.**

- The MECP expects proponents to:
 1. Take into account during the assessment of alternative solutions and alternative designs, the following:
 - a. the project's expected production of greenhouse gas emissions and impacts on carbon sinks (climate change mitigation); and
 - b. resilience or vulnerability of the undertaking to changing climatic conditions (climate change adaptation).
 2. Include a discrete section in the report detailing how climate change was considered in the EA.

How climate change is considered can be qualitative or quantitative in nature, and should be scaled to the project's level of environmental effect. In all instances, both a project's impacts on climate change (mitigation) and impacts of climate change on a project (adaptation) should be considered.

- The MECP has also prepared another guide to support provincial land use planning direction related to the completion of energy and emission plans. The "[Community Emissions Reduction Planning: A Guide for Municipalities](#)" document is designed to educate stakeholders on the municipal opportunities to reduce energy and greenhouse gas emissions, and to provide guidance on methods and techniques to incorporate consideration of energy and greenhouse gas emissions into municipal activities of all types. We encourage you to review the Guide for information.

Air Quality, Dust and Noise

- If there are sensitive receptors in the surrounding area of this project, an air quality/odour impact assessment will be useful to evaluate alternatives, determine impacts and identify appropriate mitigation measures. The scope of the assessment can be determined based on the potential effects of the proposed alternatives, and typically includes source and receptor characterization and a quantification of local air quality impacts on the sensitive receptors and the environment in the study area. The assessment will compare to all applicable standards or guidelines for all contaminants of concern. **Please contact this office for further consultation on the level of Air Quality Impact Assessment required for this project if not already advised.**
- **If a full Air Quality Impact Assessment is not required for the project, the report should still contain:**
 - A discussion of local air quality including existing activities/sources that significantly impact local air quality and how the project may impact existing conditions;
 - A discussion of the nearby sensitive receptors and the project's potential air quality impacts on present and future sensitive receptors;
 - A discussion of local air quality impacts that could arise from this project during both construction and operation; and

- A discussion of potential mitigation measures.
- As a common practice, “air quality” should be used as an evaluation criterion for all road projects.
- Dust and noise control measures should be addressed and included in the construction plans to ensure that nearby residential and other sensitive land uses within the study area are not adversely affected during construction activities.
- The MECP recommends that non-chloride dust-suppressants be applied. For a comprehensive list of fugitive dust prevention and control measures that could be applied, refer to [Cheminfo Services Inc. Best Practices for the Reduction of Air Emissions from Construction and Demolition Activities](#). report prepared for Environment Canada. March 2005.
- The report should consider the potential impacts of increased noise levels during the operation of the completed project. The proponent should explore all potential measures to mitigate significant noise impacts during the assessment of alternatives.

□ Ecosystem Protection and Restoration

- Any impacts to ecosystem form and function must be avoided where possible. The report should describe any proposed mitigation measures and how project planning will protect and enhance the local ecosystem.
- All natural heritage features should be identified and described in detail to assess potential impacts and to develop appropriate mitigation measures. The following sensitive environmental features may be located within or adjacent to the study area:
 - Areas of Natural and Scientific Interest (ANSIs)
 - Rare Species of flora or fauna
 - Watercourses
 - Wetlands
 - Woodlots

We recommend consulting with the Ministry of Natural Resources and Forestry (MNRF), Fisheries and Oceans Canada (DFO) and your local conservation authority to determine if special measures or additional studies will be necessary to preserve and protect these sensitive features. In addition, you may consider the provisions of the Rouge Park Management Plan if applicable.

□ Surface Water

- The report must include enough information to demonstrate that there will be no negative impacts on the natural features or ecological functions of any watercourses within the study area. Measures should be included in the planning and design process to ensure that any impacts to watercourses from construction or operational activities (e.g. spills, erosion, pollution) are mitigated as part of the proposed undertaking.
- Additional stormwater runoff from new pavement can impact receiving watercourses and flood conditions. Quality and quantity control measures to treat stormwater runoff should be considered for all new impervious areas and, where possible, existing surfaces. The ministry’s [Stormwater Management Planning and Design Manual \(2003\)](#) should be referenced in the report and utilized when designing stormwater control methods. **A Stormwater Management Plan should be prepared as part of the Class EA process** that includes:
 - Strategies to address potential water quantity and erosion impacts related to stormwater

draining into streams or other sensitive environmental features, and to ensure that adequate (enhanced) water quality is maintained

- Watershed information, drainage conditions, and other relevant background information
 - Future drainage conditions, stormwater management options, information on erosion and sediment control during construction, and other details of the proposed works
 - Information on maintenance and monitoring commitments.
- Ontario Regulation 60/08 under the *Ontario Water Resources Act* (OWRA) applies to the Lake Simcoe Basin, which encompasses Lake Simcoe and the lands from which surface water drains into Lake Simcoe. If the proposed sewage treatment plant is listed in Table 1 of the regulation, the report should describe how the proposed project and its mitigation measures are consistent with the requirements of this regulation and the OWRA.
 - Any potential approval requirements for surface water taking or discharge should be identified in the report. A Permit to Take Water (PTTW) under the OWRA will be required for any water takings that exceed 50,000 L/day, except for certain water taking activities that have been prescribed by the Water Taking EASR Regulation – *O. Reg. 63/16*. These prescribed water-taking activities require registration in the EASR instead of a PTTW. Please review the [Water Taking User Guide for EASR](#) for more information. Additionally, an Environmental Compliance Approval under the OWRA is required for municipal stormwater management works.

Groundwater

- The status of, and potential impacts to any well water supplies should be addressed. If the project involves groundwater takings or changes to drainage patterns, the quantity and quality of groundwater may be affected due to drawdown effects or the redirection of existing contamination flows. In addition, project activities may infringe on existing wells such that they must be reconstructed or sealed and abandoned. Appropriate information to define existing groundwater conditions should be included in the report.
- If the potential construction or decommissioning of water wells is identified as an issue, the report should refer to Ontario Regulation 903, Wells, under the OWRA.
- Potential impacts to groundwater-dependent natural features should be addressed. Any changes to groundwater flow or quality from groundwater taking may interfere with the ecological processes of streams, wetlands or other surficial features. In addition, discharging contaminated or high volumes of groundwater to these features may have direct impacts on their function. Any potential effects should be identified, and appropriate mitigation measures should be recommended. The level of detail required will be dependent on the significance of the potential impacts.
- Any potential approval requirements for groundwater taking or discharge should be identified in the report. A Permit to Take Water (PTTW) under the OWRA will be required for any water takings that exceed 50,000 L/day, with the exception of certain water taking activities that have been prescribed by the Water Taking EASR Regulation – *O. Reg. 63/16*. These prescribed water-taking activities require registration in the EASR instead of a PTTW. Please review the [Water Taking User Guide for EASR](#) for more information.

Contaminated Soils

- Since the removal or movement of soils may be required, appropriate tests to determine contaminant levels from previous land uses or dumping should be undertaken. If the soils are contaminated, you must determine how and where they are to be disposed of, consistent with

Part XV.1 of the Environmental Protection Act (EPA) and Ontario Regulation 153/04, Records of Site Condition, which details the new requirements related to site assessment and clean up. Please contact the appropriate MECP District Office for further consultation if contaminated sites are present.

- Any current or historical waste disposal sites should be identified in the report. The status of these sites should be determined to confirm whether approval pursuant to Section 46 of the EPA may be required for land uses on former disposal sites.
- The location of any underground storage tanks should be investigated in the report. Measures should be identified to ensure the integrity of these tanks and to ensure an appropriate response in the event of a spill. The ministry's Spills Action Centre must be contacted in such an event.
- The report should identify any underground transmission lines in the study area. The owners should be consulted to avoid impacts to this infrastructure, including potential spills.

Excess Materials Management

- Activities involving the management of excess soil should be completed in accordance with the MECP's current guidance document titled "[Management of Excess Soil – A Guide for Best Management Practices](#)" (2014).
- All waste generated during construction must be disposed of in accordance with ministry requirements

Servicing and Facilities

- Any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste must have an Environmental Compliance Approval (ECA) before it can operate lawfully. Please consult with the Environmental Approvals Access and Service Integration Branch (EAASIB) to determine whether a new or amended ECA will be required for any proposed infrastructure.
- We recommend referring to the ministry's [environmental land use planning guides](#) to ensure that any potential land use conflicts are considered when planning for any infrastructure or facilities related to wastewater, pipelines, landfills or industrial uses.

Mitigation and Monitoring

- Contractors must be made aware of all environmental considerations so that all environmental standards and commitments for both construction and operation are met. Mitigation measures should be clearly referenced in the report and regularly monitored during the construction stage of the project. In addition, we encourage proponents to conduct post-construction monitoring to ensure all mitigation measures have been effective and are functioning properly.
- Design and construction reports and plans should be based on a best management approach that centres on the prevention of impacts, protection of the existing environment, and opportunities for rehabilitation and enhancement of any impacted areas.
- The proponent's construction and post-construction monitoring plans must be documented in the report, as outlined in Section A.2.5 and A.4.1 of the MEA Class EA parent document.

□ Consultation

- The report must demonstrate how the consultation provisions of the Class EA have been fulfilled, including documentation of all stakeholder consultation efforts undertaken during the planning process. This includes a discussion in the SR that identifies concerns that were raised and **describes how they have been addressed by the proponent** throughout the planning process. The Class EA also directs proponents to include copies of comments submitted on the project by interested stakeholders, and the proponent's responses to these comments.

□ Class EA Process

- The report should provide clear and complete documentation of the planning process in order to allow for transparency in decision-making.
- If this project is a Master Plan: there are several different approaches that can be used to conduct a Master Plan, examples of which are outlined in Appendix 4 of the Class EA. The Master Plan should clearly indicate the selected approach for conducting the plan, by identifying whether the levels of assessment, consultation and documentation are sufficient to fulfill the requirements for Schedule B or C projects. Please note that any Schedule B or C projects identified in the plan would be subject to Part II Order Requests under the *Environmental Assessment Act*, although the plan itself would not be.
- The report must demonstrate how the consultation provisions of the Class EA have been fulfilled, including documentation of all stakeholder consultation efforts undertaken during the planning process. This includes a discussion in the report that identifies concerns that were raised and **describes how they have been addressed by the proponent** throughout the planning process. The Class EA also directs proponents to include copies of comments submitted on the project by interested stakeholders, and the proponent's responses to these comments.
- The Class EA requires the consideration of the effects of each alternative on all aspects of the environment. The report should include a level of detail (e.g. hydrogeological investigations, terrestrial and aquatic assessments) such that all potential impacts can be identified, and appropriate mitigation measures can be developed. Any supporting studies conducted during the Class EA process should be referenced and included as part of the report.
- Please include in the report a list of all subsequent permits or approvals that may be required for the implementation of the preferred alternative, including but not limited to, MECP's PTTW, EASR Registrations and ECAs, conservation authority permits, species at risk permits, and approvals under the *Impact Assessment Act*, 2019.
- Ministry guidelines and other information related to the issues above are available at <http://www.ontario.ca/environment-and-energy/environment-and-energy>. We encourage you to review all the available guides and to reference any relevant information in the report.

A PROPONENT'S INTRODUCTION TO THE DELEGATION OF PROCEDURAL ASPECTS OF CONSULTATION WITH ABORIGINAL COMMUNITIES

Definitions

The following definitions are specific to this document and may not apply in other contexts:

Aboriginal communities – the First Nation or Métis communities identified by the Crown for the purpose of consultation.

Consultation – the Crown's legal obligation to consult when the Crown has knowledge of an established or asserted Aboriginal or treaty right and contemplates conduct that might adversely impact that right. This is the type of consultation required pursuant to s. 35 of the *Constitution Act, 1982*. Note that this definition does not include consultation with Aboriginal communities for other reasons, such as regulatory requirements.

Crown – the Ontario Crown, acting through a particular ministry or ministries.

Procedural aspects of consultation – those portions of consultation related to the process of consultation, such as notifying an Aboriginal community about a project, providing information about the potential impacts of a project, responding to concerns raised by an Aboriginal community and proposing changes to the project to avoid negative impacts.

Proponent – the person or entity that wants to undertake a project and requires an Ontario Crown decision or approval for the project.

I. Purpose

The Crown has a legal duty to consult Aboriginal communities when it has knowledge of an existing or asserted Aboriginal or treaty right and contemplates conduct that may adversely impact that right. In outlining a framework for the duty to consult, the Supreme Court of Canada has stated that the Crown may delegate procedural aspects of consultation to third parties. This document provides general information about the Ontario Crown's approach to delegation of the procedural aspects of consultation to proponents.

This document is not intended to instruct a proponent about an individual project, and it does not constitute legal advice.

II. Why is it Necessary to Consult with Aboriginal Communities?

The objective of the modern law of Aboriginal and treaty rights is the *reconciliation* of Aboriginal peoples and non-Aboriginal peoples and their respective rights, claims and interests. Consultation is an important component of the reconciliation process.

The Crown has a legal duty to consult Aboriginal communities when it has knowledge of an existing or asserted Aboriginal or treaty right and contemplates conduct that might adversely impact that right. For example, the Crown's duty to consult is triggered when it considers issuing a permit, authorization or approval for a project which has the potential to adversely impact an Aboriginal right, such as the right to hunt, fish, or trap in a particular area.

The scope of consultation required in particular circumstances ranges across a spectrum depending on both the nature of the asserted or established right and the seriousness of the potential adverse impacts on that right.

Depending on the particular circumstances, the Crown may also need to take steps to accommodate the potentially impacted Aboriginal or treaty right. For example, the Crown may be required to avoid or minimize the potential adverse impacts of the project.

III. The Crown's Role and Responsibilities in the Delegated Consultation Process

The Crown has the responsibility for ensuring that the duty to consult, and accommodate where appropriate, is met. However, the Crown may delegate the procedural aspects of consultation to a proponent.

There are different ways in which the Crown may delegate the procedural aspects of consultation to a proponent, including through a letter, a memorandum of understanding, legislation, regulation, policy and codes of practice.

If the Crown decides to delegate procedural aspects of consultation, the Crown will generally:

- Ensure that the delegation of procedural aspects of consultation and the responsibilities of the proponent are clearly communicated to the proponent;
- Identify which Aboriginal communities must be consulted;
- Provide contact information for the Aboriginal communities;
- Revise, as necessary, the list of Aboriginal communities to be consulted as new information becomes available and is assessed by the Crown;
- Assess the scope of consultation owed to the Aboriginal communities;
- Maintain appropriate oversight of the actions taken by the proponent in fulfilling the procedural aspects of consultation;
- Assess the adequacy of consultation that is undertaken and any accommodation that may be required;
- Provide a contact within any responsible ministry in case issues arise that require direction from the Crown; and
- Participate in the consultation process as necessary and as determined by the Crown.

IV. The Proponent's Role and Responsibilities in the Delegated Consultation Process

Where aspects of the consultation process have been delegated to a proponent, the Crown, in meeting its duty to consult, will rely on the proponent's consultation activities and documentation of those activities. The consultation process informs the Crown's decision of whether or not to approve a proposed project or activity.

A proponent's role and responsibilities will vary depending on a variety of factors including the extent of consultation required in the circumstance and the procedural aspects of consultation the Crown has delegated to it. Proponents are often in a better position than the Crown to discuss a project and its potential impacts with Aboriginal communities and to determine ways to avoid or minimize the adverse impacts of a project.

A proponent can raise issues or questions with the Crown at any time during the consultation process. If issues or concerns arise during the consultation that cannot be addressed by the proponent, the proponent should contact the Crown.

a) What might a proponent be required to do in carrying out the procedural aspects of consultation?

Where the Crown delegates procedural aspects of consultation, it is often the proponent's responsibility to provide notice of the proposed project to the identified Aboriginal communities. The notice should indicate that the Crown has delegated the procedural aspects of consultation to the proponent and should include the following information:

- a description of the proposed project or activity;
- mapping;
- proposed timelines;
- details regarding anticipated environmental and other impacts;
- details regarding opportunities to comment; and
- any changes to the proposed project that have been made for seasonal conditions or other factors, where relevant.

Proponents should provide enough information and time to allow Aboriginal communities to provide meaningful feedback regarding the potential impacts of the project. Depending on the nature of consultation required for a project, a proponent also may be required to:

- provide the Crown with copies of any consultation plans prepared and an opportunity to review and comment;
- ensure that any necessary follow-up discussions with Aboriginal communities take place in a timely manner, including to confirm receipt of information, share and update information and to address questions or concerns that may arise;
- as appropriate, discuss with Aboriginal communities potential mitigation measures and/or changes to the project in response to concerns raised by Aboriginal communities;
- use language that is accessible and not overly technical, and translate material into Aboriginal languages where requested or appropriate;
- bear the reasonable costs associated with the consultation process such as, but not limited to, meeting hall rental, meal costs, document translation(s), or to address technical & capacity issues;
- provide the Crown with all the details about potential impacts on established or asserted Aboriginal or treaty rights, how these concerns have been considered and addressed by the proponent and the Aboriginal communities and any steps taken to mitigate the potential impacts;
- provide the Crown with complete and accurate documentation from these meetings and communications; and
- notify the Crown immediately if an Aboriginal community not identified by the Crown approaches the proponent seeking consultation opportunities.

b) What documentation and reporting does the Crown need from the proponent?

Proponents should keep records of all communications with the Aboriginal communities involved in the consultation process and any information provided to these Aboriginal communities.

As the Crown is required to assess the adequacy of consultation, it needs documentation to satisfy itself that the proponent has fulfilled the procedural aspects of consultation delegated to it. The documentation required would typically include:

- the date of meetings, the agendas, any materials distributed, those in attendance and copies of any minutes prepared;
- the description of the proposed project that was shared at the meeting;
- any and all concerns or other feedback provided by the communities;

- any information that was shared by a community in relation to its asserted or established Aboriginal or treaty rights and any potential adverse impacts of the proposed activity, approval or disposition on such rights;
- any proposed project changes or mitigation measures that were discussed, and feedback from Aboriginal communities about the proposed changes and measures;
- any commitments made by the proponent in response to any concerns raised, and feedback from Aboriginal communities on those commitments;
- copies of correspondence to or from Aboriginal communities, and any materials distributed electronically or by mail;
- information regarding any financial assistance provided by the proponent to enable participation by Aboriginal communities in the consultation;
- periodic consultation progress reports or copies of meeting notes if requested by the Crown;
- a summary of how the delegated aspects of consultation were carried out and the results; and
- a summary of issues raised by the Aboriginal communities, how the issues were addressed and any outstanding issues.

In certain circumstances, the Crown may share and discuss the proponent's consultation record with an Aboriginal community to ensure that it is an accurate reflection of the consultation process.

c) Will the Crown require a proponent to provide information about its commercial arrangements with Aboriginal communities?

The Crown may require a proponent to share information about aspects of commercial arrangements between the proponent and Aboriginal communities where the arrangements:

- include elements that are directed at mitigating or otherwise addressing impacts of the project;
- include securing an Aboriginal community's support for the project; or
- may potentially affect the obligations of the Crown to the Aboriginal communities.

The proponent should make every reasonable effort to exempt the Crown from confidentiality provisions in commercial arrangements with Aboriginal communities to the extent necessary to allow this information to be shared with the Crown.

The Crown cannot guarantee that information shared with the Crown will remain confidential. Confidential commercial information should not be provided to the Crown as part of the consultation record if it is not relevant to the duty to consult or otherwise required to be submitted to the Crown as part of the regulatory process.

V. What are the Roles and Responsibilities of Aboriginal Communities' in the Consultation Process?

Like the Crown, Aboriginal communities are expected to engage in consultation in good faith. This includes:

- responding to the consultation notice;
- engaging in the proposed consultation process;
- providing relevant documentation;
- clearly articulating the potential impacts of the proposed project on Aboriginal or treaty rights; and
- discussing ways to mitigate any adverse impacts.

Some Aboriginal communities have developed tools, such as consultation protocols, policies or processes that provide guidance on how they would prefer to be consulted. Although not legally binding, proponents are encouraged to respect these community processes where it is reasonable to do so. Please note that there is no obligation for a proponent to pay a fee to an Aboriginal community in order to enter into a consultation process.

To ensure that the Crown is aware of existing community consultation protocols, proponents should contact the relevant Crown ministry when presented with a consultation protocol by an Aboriginal community or anyone purporting to be a representative of an Aboriginal community.

VI. What if More Than One Provincial Crown Ministry is Involved in Approving a Proponent's Project?

Depending on the project and the required permits or approvals, one or more ministries may delegate procedural aspects of the Crown's duty to consult to the proponent. The proponent may contact individual ministries for guidance related to the delegation of procedural aspects of consultation for ministry-specific permits/approvals required for the project in question. Proponents are encouraged to seek input from all involved Crown ministries sooner rather than later.

Ministry of Tourism, Culture and Sport (MTCS)

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Programs and Services Branch
Heritage, Tourism and Culture Division
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Ministère du Tourisme, de la Culture et du Sport (MTCS)

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Jul 12, 2022

Jessica Lytle (P1066)
ASI Archaeological and Cultural Heritage Services
200 - 2321 Fairview Burlington ON L7R 2E3

RE: Entry into the Ontario Public Register of Archaeological Reports: Archaeological Assessment Report Entitled, "STAGE 1 ARCHAEOLOGICAL ASSESSMENT DIXIE-DUNDAS FLOOD MITIGATION PART OF LOTS 4-7, CONCESSION 1 NDS AND PART OF LOT 4, CONCESSION 1 SDS (FORMER TOWNSHIP OF TORONTO, COUNTY OF PEEL) CITY OF MISSISSAUGA REGIONAL MUNICIPALITY OF PEEL, ONTARIO", Dated Apr 28, 2022, Filed with MHSTCI Toronto Office on N/A, MHSTCI Project Information Form Number P1066-0271-2022, MHSTCI File Number 0011276

Dear Ms. Lytle:

The above-mentioned report, which has been submitted to this ministry as a condition of licensing in accordance with Part VI of the *Ontario Heritage Act*, R.S.O. 1990, c 0.18, has been entered into the Ontario Public Register of Archaeological Reports without technical review.¹

Please note that the ministry makes no representation or warranty as to the completeness, accuracy or quality of reports in the register.

Should you require further information, please do not hesitate to send your inquiry to Archaeology@Ontario.ca

cc. Archaeology Licensing Officer
Andrew Doherty ,Matrix Solutions
Andrew Doherty ,Matric Solutions

¹In no way will the ministry be liable for any harm, damages, costs, expenses, losses, claims or actions that may result: (a) if the Report(s) or its recommendations are discovered to be inaccurate, incomplete, misleading or fraudulent; or (b) from the issuance of this letter. Further measures may need to be taken in the event that additional artifacts or archaeological sites are identified or the Report(s) is otherwise found to be inaccurate, incomplete, misleading or fraudulent.

September 27, 2021

Anthony Di Giandomenico, P.Eng
Project Manager
City of Mississauga
201 City Centre Drive, Suite 800
Mississauga, ON L5B 2T4

Dear: Anthony

SUBJECT: Dixie-Dundas Flood Mitigation Project, Municipal Class EA

The Ministry of Northern Development, Mines, Natural Resources and Forestry (NDMNRF) has reviewed the Dixie-Dundas Flood Mitigation Study, as part of the City of Mississauga Municipal Class EA, and appreciates this opportunity to provide comments.

Natural Hazards

The province sets out minimum standards to ensure that flood risks and costs to society resulting from riverine flooding are reduced. The province's *Technical Guide – River & Stream Systems: Flooding Hazard Limit (2002)*, as well as *Technical Guide – Understanding Natural Hazards (2001)* were developed to support municipal implementation of natural hazard policies in the Provincial Policy Statement (PPS), and is applied by NDMNRF when considering flood hazards and proposed approaches to floodplain management. NDMNRF's approach to flooding focusses on prevention and the use of non-structural measures.

Past experiences have shown that many flood protection works and structures do not last and are expensive. They also can potentially create new hazards, aggravate existing hazards, cause environmental damages and often inspire a false sense of security. Deviations from the technical guides are strongly discouraged by the province.

If Option 3 is identified as the preferred option, NDMNRF should be circulated on the preliminary design plans to determine if they align with our Ministry's legislation and technical guidance.

Natural Resources

Little Etobicoke Creek in this location is identified as having a warm water thermal regime.

For warm water systems in-water work is permitted July 1 – March 31; should you need to undertake in-water works during this time please contact me for an extension.

Should the works require:

- the relocation of fish outside of the work area, a Licence to Collect Fish for Scientific purposes under the Fish and Wildlife Conservation Act will be required.
- the relocation of wildlife outside the work area (including amphibians, reptiles, and small mammals), a Wildlife Collector's Authorization under the Fish and Wildlife Conservation Act will also be required

Closing Comments

Thank you for the opportunity to provide comments. NDMNRF has an interest in continued involvement in this EA. Please add Kristen Wagner as your NDMNRF contact on further communications and submissions. Please do not hesitate to contact me for further information or clarification of the comments provided.

Best Regards,

[Original Signed By]

Kristen Wagner
District Planner, Pembroke District
Ministry of Northern Development, Mines, Natural Resources and Forestry
(613) 504-2254
kristen.wagner@ontario.ca

May 1, 2020

Version 1.0
Matrix 24603-531

Ms. Asha Saddi, BA (Hons), PMP
Technical Analyst, Infrastructure Programming & Studies
TRANSPORTATION DIVISION
PUBLIC WORKS, REGION OF PEEL
Suite A, Fourth Floor, 10 Peel Centre Drive
Brampton, ON L6T 4BP

Subject: Dixie-Dundas Flood Mitigation - Project Information for May 8, 2020, Conference Call

Dear Ms Saddi:

1 INTRODUCTION

On behalf of the City of Mississauga, this letter and the attached presentation are provided for your review ahead of our conference call on May 8, 2020, to discuss the Dixie-Dundas Flood Mitigation Project. This conference call will introduce the Region of Peel to the project following a feasibility study which assessed Little Etobicoke Creek (LEC) hydraulics to identify and develop three conceptual flood mitigation solutions. These solutions will be evaluated during the forthcoming Municipal Class Environmental Assessment (EA), culminating in a preferred solution that will then be advanced to preliminary design.

Each of the alternative solutions include replacing the Region's Dixie Road bridge and would also impact linear infrastructure that is exposed or crossing LEC with relatively shallow cover depth. Our expectation for the conference call is to discuss the alternative solutions at a high level to receive initial feedback on the Region's requirements for participating in the EA and the subsequent construction project. The figures and photographs included in the attached presentation illustrate many of the main project points and will provide a summary for us to start discussions.

2 BACKGROUND

The project area is the reach of LEC from 500 m upstream of Dixie Road to 1,200 m downstream at Dundas Street East. Two spills occur in the study area: a primary spill occurs upstream of Dixie Road near Queen Frederica Drive, where over half of the Regional event (approximately 130 m³/s of 210 m³/s) spills from LEC toward Queen Frederica Drive and crosses the watershed divide into the Applewood Creek catchment area. A smaller, secondary spill occurs downstream of Dixie Road where flow exits the LEC and is conveyed overland toward Dundas Street.

A significant flood occurred at the Dixie-Dundas study area on July 8, 2013, that corresponded to approximately a 350-year event (peak flow estimated as 130 m³/s). The resulting spills caused significant damage and highlighted the need to better delineate flooding; previous mapping had identified the spill locations but had not delineated the resulting extent of flooding. The results of the updated flood delineation indicate that over a thousand commercial, industrial, and residential properties are flood-vulnerable, thereby motivating the current project.

Additionally, the City has an interest to solve LEC flooding to intensify Dixie-Dundas to fulfill the vision of growth expressed in the Dundas Connects Master Plan. This vision of growth centres around the Dixie GO Station and proposed higher-order transit along Dundas Street and it cannot be fully realized without first addressing the flooding and updating the Special Policy Areas at Dixie-Dundas as part of a concurrent initiative by the City Planning Strategies Division.

3 FEASIBILITY STUDY

3.1 High-level Alternative Solutions

The feasibility study included a hydraulic screening of high-level solutions. Several variations of the following solutions were considered in this screening:

- conveyance improvements (e.g., channel widening)
- flood containment (e.g., berms)
- flow diversions (e.g., overland by-pass channel)
- storage (e.g., stormwater ponds)

The hydraulic screening concluded that keeping flow within the LEC valley corridor (i.e., by channel conveyance improvements or flood containment or a combination) is hydraulically feasible and considered the best approach to fit the land constraints imposed by the highly urbanized LEC watershed. Questions of provincial policy aside, storage and flow diversion were deemed infeasible or impractical given land constraints and the huge storage requirements needed to significantly reduce flow at Dixie-Dundas by 130 m³/s during the Regional event to drop water levels below the spill elevations.

3.2 Conceptual Alternative Solutions

Based on the conclusions of the hydraulic screening, three alternative solutions, each representing a different approach to keep flow within the valley corridor, were identified and developed to conceptual design. These alternative solutions are summarized as follows:

- **Option 1 - Improved Conveyance by Minimizing the Footprint:** the concept of this alternative is to create an oversized and incised channel, from 550 m upstream of Dixie Road to 700 m downstream.
- **Option 2 - Improved Conveyance by Making Room for the Creek:** this alternative is modelled on natural channel design concepts, with a widened channel and lowered adjacent ground that creates a wider and better-connected floodplain, from 550 m upstream of Dixie Road to 700 m downstream.

- **Option 3 - Flood Containment with Mitigation for Upstream Impacts:** the concept of this alternative is to contain the Regional Flood within the valley corridor using a flood protection landform (FPL). The concept is based on Ministry of Natural Resources and Forestry Technical Guidelines and subsequent design approaches developed for the existing FPL constructed along the Don River in the City of Toronto. The proposed FPL for Dixie-Dundas would extend from 600 m upstream of Dixie Road to 750 m downstream.

4 REGION OF PEEL INFRASTRUCTURE

4.1 Bridge Replacement

The existing Dixie Road bridge is a concrete structure with a 12 m span. Hydraulic modelling indicates that Dixie Road would overtop during the Regional event if flow remained within the LEC valley corridor. Currently, over half of this flow spills from the creek upstream of the bridge, and the remaining flow is conveyed without overtopping. Therefore, solving the spill by keeping flow within the valley corridor requires the bridge to be replaced and Dixie Road to be raised.

The conceptual bridge replacement for each alternative solution is summarized as follows:

- **Option 1 - Improved Conveyance by Minimizing the Footprint:** requires an approximately 26 m bridge span. Dixie Road would need to be raised approximately 1.8 m, significantly impacting the intersection north of the bridge at Golden Orchard Drive and would require retaining walls built up along much of Dixie Road.
- **Option 2 - Improved Conveyance by Making Room for the Creek:** requires an approximately 45 m wide, three-span bridge. Dixie Road would need to be raised approximately 0.6 m. The raised profile could tie-in the existing grade south of Golden Orchard Drive, avoiding impacts to the intersection north of the bridge.
- **Option 3 - Flood Containment with Mitigation for Upstream Impacts** requires an approximately 28 m bridge span. Dixie Road would need to be raised approximately 2.6 m. This would require significant road works, including significant modifications to the Golden Orchard Drive intersection.

4.2 Linear Infrastructure

Existing infrastructure crossing LEC at the Dixie Road right-of-way includes the following:

- a 900 mm diameter sanitary sewer with approximately 0.5 m of cover depth
- a 400 mm diameter watermain with approximately 1.9 m of cover depth
- an exposed 450 mm concrete utility conduit
- a 2,400 mm diameter feeder watermain with over 20 m of cover depth (not a constraint)

Mitigation options 1 and 2 include lowering the channel 0.5 m through the bridge crossing to reduce the required Dixie Road elevation increase. This channel lowering would require modifying (e.g., lowering) the infrastructure crossing LEC to achieve or maintain adequate cover depth. During preliminary design, it is anticipated that one of the design options for the preferred solution would include maintaining the existing channel bed combined with a larger bridge span or higher road or both. Regardless, providing long-term protection to this infrastructure will be a key design requirement in any mitigation solution.

Additionally, there is an exposed 450 mm sanitary pipe crossing the creek approximately 500 m downstream of Dixie Road. The conceptual options do not propose lowering the channel here. Nevertheless, this sanitary line should not remain exposed, and other mitigation work associated with the project will provide an opportunity to address this issue. Based on a high-level evaluation of the sanitary network, it is anticipated that this sanitary line could potentially be lowered and tied back into the network at Dundas Street East.

5 CLOSURE

We trust that this letter suits your present requirements ahead of our conference call. We look forward to discussing this project with you and advancing into the EA. If you have any questions or comments, please contact Anthony Di Giandomenico at anthony.digiandomenico@mississauga.ca or Andrew Doherty at adoherty@matrix-solutions.com.

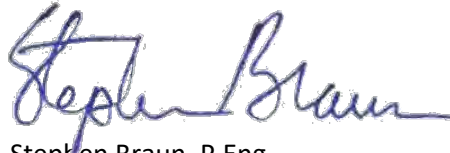
Yours truly,

MATRIX SOLUTIONS INC.



Andrew Doherty, P.Eng.
Water Resources Engineer

Reviewed by



Stephen Braun, P.Eng.
Senior Water Resources Engineer

AD/vc
Attachments

copy: Anthony Di Giandomenico, P.Eng, City of Mississauga

DISCLAIMER

Matrix Solutions Inc. certifies that this report is accurate and complete and accords with the information available during the project. Information obtained during the project or provided by third parties is believed to be accurate but is not guaranteed. Matrix Solutions Inc. has exercised reasonable skill, care, and diligence in assessing the information obtained during the preparation of this report.

This report was prepared for the City of Mississauga. The report may not be relied upon by any other person or entity without the written consent of Matrix Solutions Inc. and of the City of Mississauga. Any uses of this report by a third party, or any reliance on decisions made based on it, are the responsibility of that party. Matrix Solutions Inc. is not responsible for damages or injuries incurred by any third party, as a result of decisions made or actions taken based on this report.

VERSION CONTROL

Version	Date	Issue Type	Filename	Description
V0.1	27-Apr-2020	Draft	24603-531 Region of Peel Meeting 202004 v0.1.docx	Issued to client for review
V1.0	1-May-2020	Final	24603-531 Region of Peel Meeting 202005 v1.0.docx	Issued to Region of Peel

Dixie-Dundas Flood Mitigation

Region of Peel Project Introduction – May 8, 2020



Agenda

DRAFT

1. Project Timeline
2. Existing Conditions
 - a. Little Etobicoke Creek Spill
 - b. July 8, 2013 Flood Event
3. Dundas Connects Master Plan
4. Feasibility Study
 - a. Hydraulic Screening
 - b. Alternative Solutions
5. Region of Peel Infrastructure
 - a. Dixie Bridge Replacement
 - b. Linear Infrastructure
6. Next Steps – EA
 - a. Public Information Centre No.1
 - b. Working Committee
 - c. Preliminary Design

Timeline

DRAFT

Background

- 2012 – initiated 2D modelling to delineate flooding at Dixie-Dundas study area
- 2013 – significant flooding on July 8, 2013
- 2015 – finalized 2D modelling of flooding at Dixie-Dundas study area (to CNR Underpass)
- 2017 to 2018 – expanded 2D modelling to delineate flooding to QEW (*as part of Little Etobicoke Creek Flood Evaluation Study and Master Plan*)

Current Project

- April 2019 to May 2020 – Phase 1 Feasibility Study
- May 2020 to December 2020 – Phase 2 Environmental Assessment
 - July 2020 to December 2020 – Preliminary Design

Future Projects (Anticipated)

- 2021 – Detailed Design
- 2022 – Land Acquisition
- 2025 to 2027 – Construction

DRAFT

Existing Conditions

Little Etobicoke Creek

DRAFT



Upstream of Dixie Road

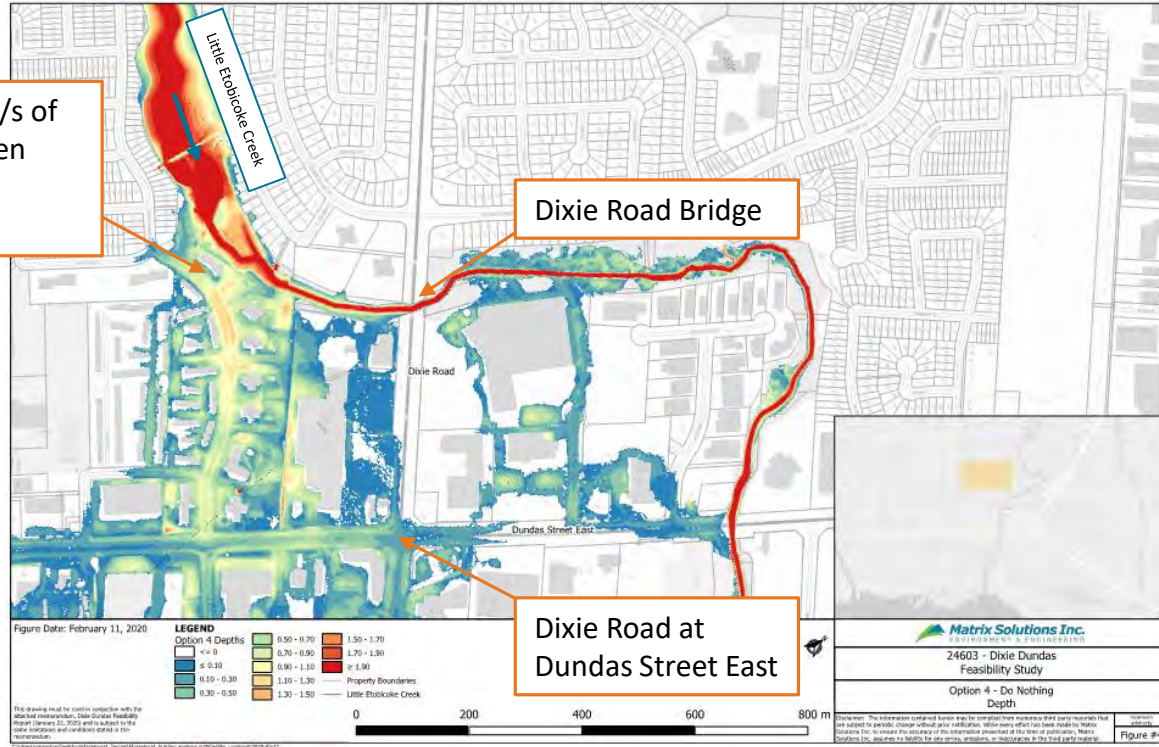


Downstream of Dixie Road

Spills at Dixie-Dundas

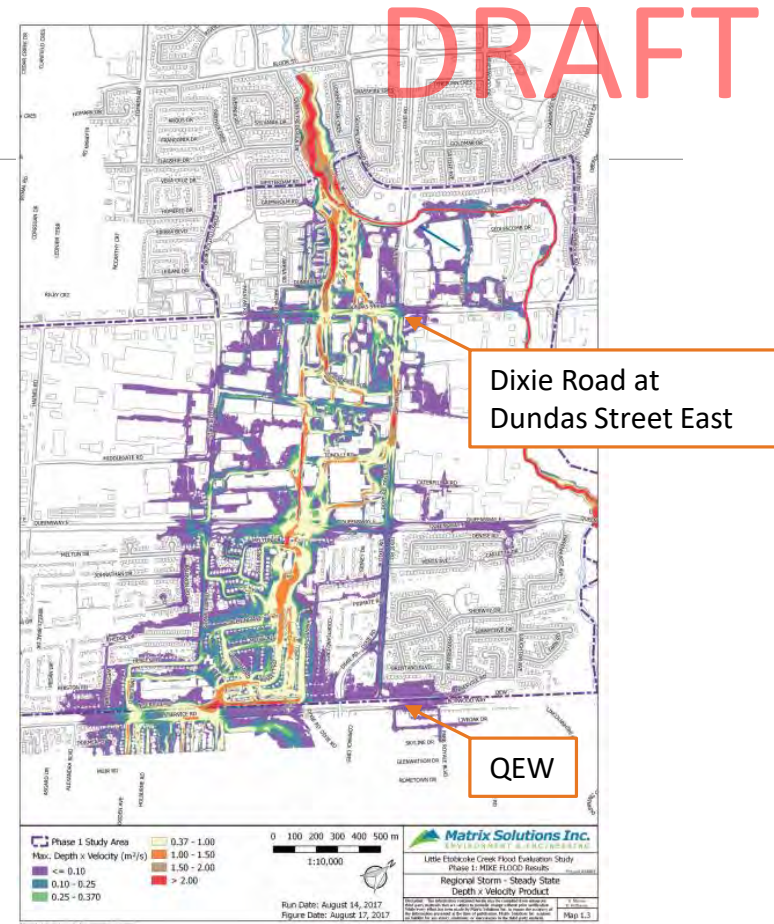
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Approximately 130 m³/s of 210 m³/s spills at Queen Frederica Drive during Regional Event



Existing Conditions

- Over 1000 residential, commercial, and industrial properties between the spill location and the QEW are at risk of flooding



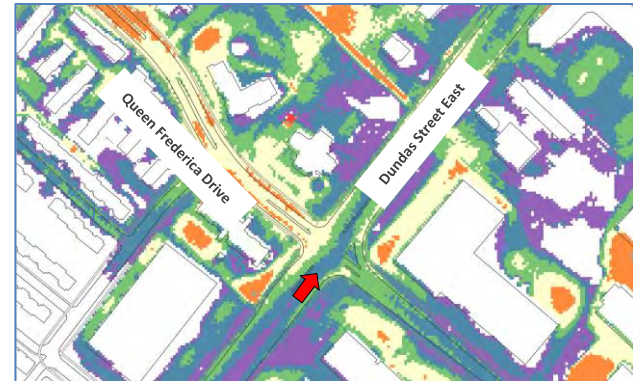
Dundas Street East – July 8, 2013

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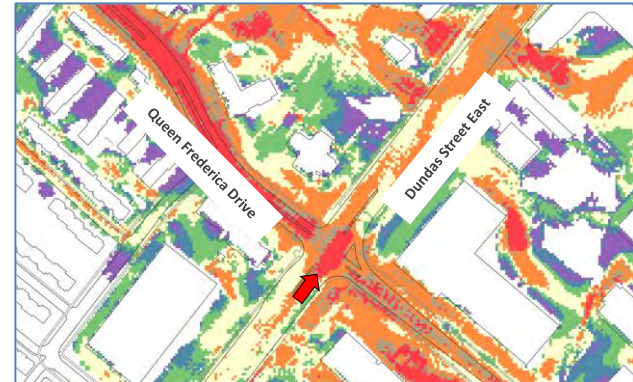
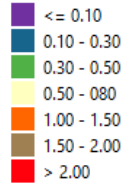


Video Source:
<https://www.youtube.com/watch?v=vHedGvWa5Q>

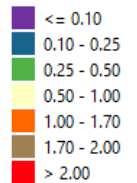
Camera location and general direction



Max Depth (m)



Max Velocity (m/s)



Blundell Road – July 8, 2013 DRAFT

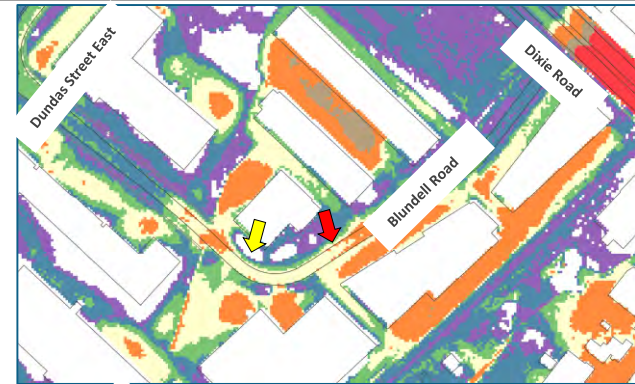


Video Source:

<https://www.youtube.com/watch?v=wqCLyx3RLA>

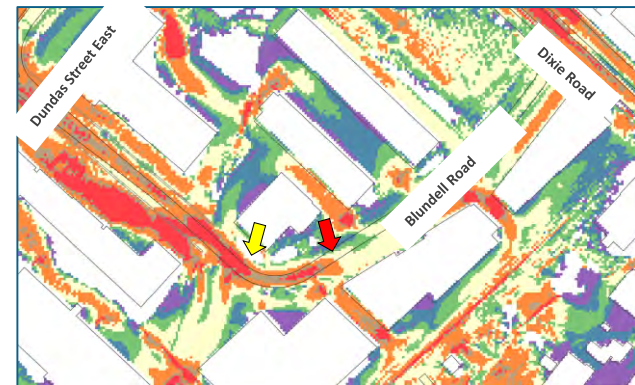
Camera location and general direction

- ➔ 0:00 to 2:35
- ➔ 2:35 to 4:00



Max Depth (m)

- <= 0.10
- 0.10 - 0.30
- 0.30 - 0.50
- 0.50 - 0.80
- 1.00 - 1.50
- 1.50 - 2.00
- > 2.00



Max Velocity (m/s)

- <= 0.10
- 0.10 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 1.70
- 1.70 - 2.00
- > 2.00


CNR Underpass – July 8, 2013 DRAFT



Video Source:

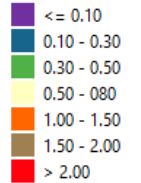
<https://www.youtube.com/watch?v=Bf8xB31pLeU>

Camera location and general direction

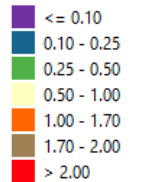
 0:00 to 0:30



Max Depth (m)



Max Velocity (m/s)



DRAFT

Dundas Connects Master Plan

Dundas Connects

DRAFT

- The *Dundas Connects Master Plan* expresses a vision of growth centred around the Dixie GO Station and proposed higher-order transit along Dundas Street
- This vision of growth cannot be fully realized without first addressing the flooding and updating the Special Policy Areas in study area



Source: [The Dundas Connects 3D Mass Model](#)

DRAFT

Feasibility Study

Hydraulic Screening – High-Level Solutions **DRAFT**

- Increase Channel Conveyance
- Channel Lowering
- Bridge Replacement
- Flood Protection Landform
- Flow Diversion - Conduit/Tunnel
- Flow Diversion – Overland Flow
- Floodwall
- Berm/Dyke
- Regional Flood Control
- Online Storage
 - Decrease Conveyance of Upstream Bridges
- Flood proofing
- Land Acquisition

Conceptual Alternative Solutions **DRAFT**

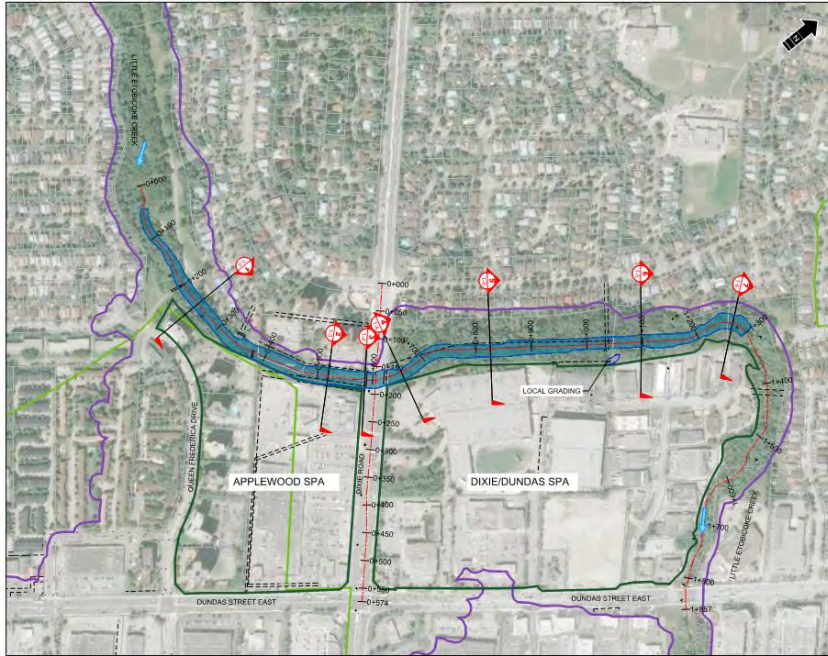
Option 1 – Channel Conveyance with Minimized Footprint

Option 2 – Channel Conveyance by Making Room for the Creek

Option 3 – Flood Containment with Mitigation for Upstream Impacts

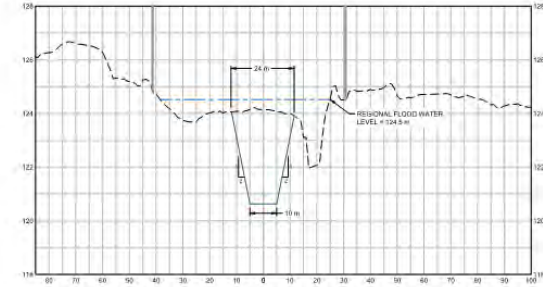
Each alternative represents a different approach to keep flow within the Little Etobicoke Creek valley corridor.

Option 1 – Minimized Footprint **DRAFT**

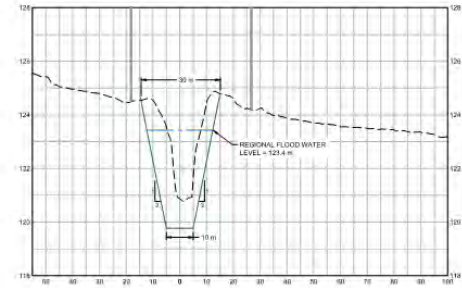


PLAN

DRAFT



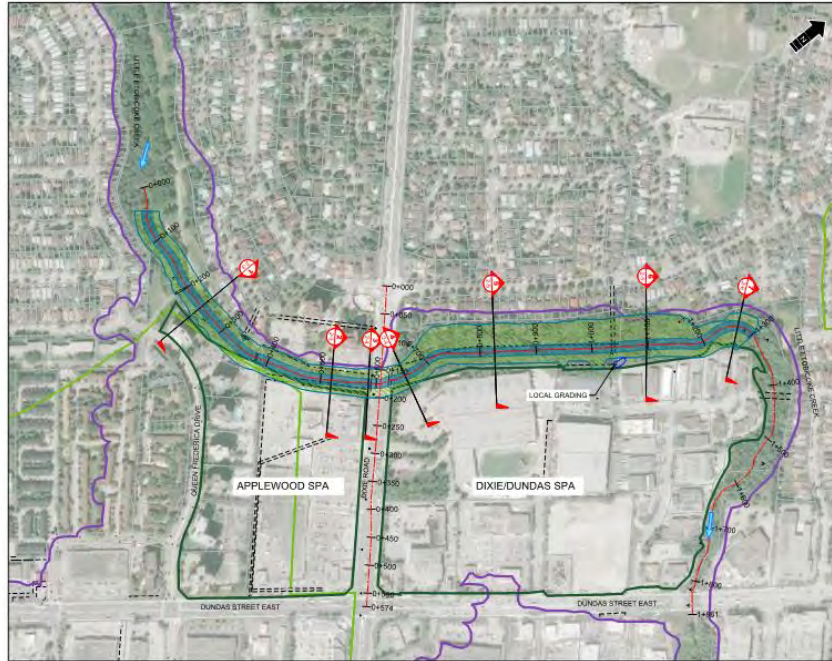
1 Section
1:1
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:100



2 Section
1:1
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:100

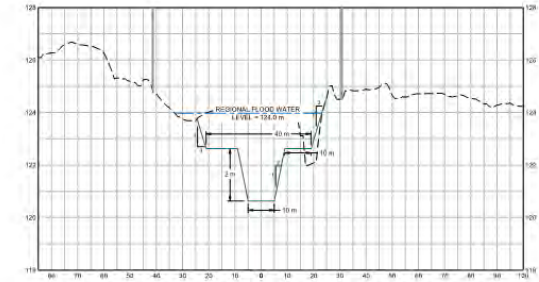
Option 2 – Make Room for the Creek

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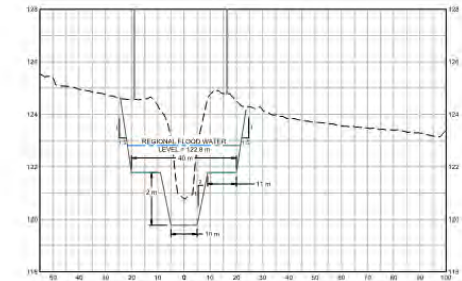


PLAN

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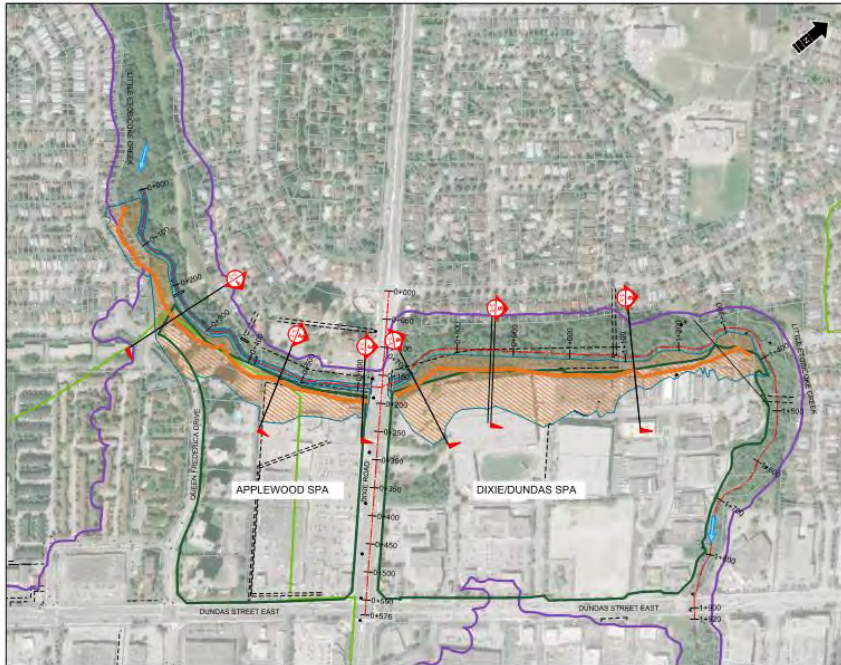
1 Section
2:1
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:100



2 Section
2:1
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:100

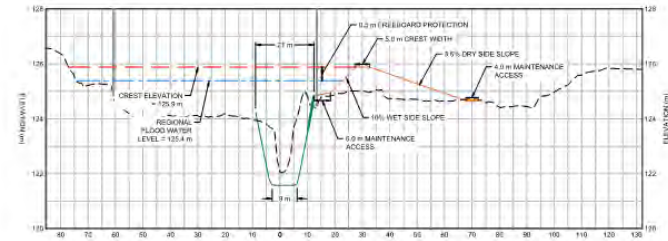
Option 3 – Flood Containment

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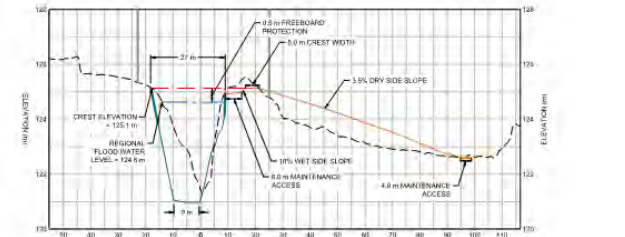


PLAN

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1 Section
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:100



2 Section
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:100

DRAFT

Region of Peel Infrastructure

Dixie Road Bridge

DRAFT

- Estimated flow 20 m³/s on January 13, 2020
- 2-year event 45 m³/s
Regional event 210 m³/s
- Currently, 130 m³/s of 210 m³/s spills upstream of the bridge at Queen Frederica Drive during Regional event



January 13, 2020

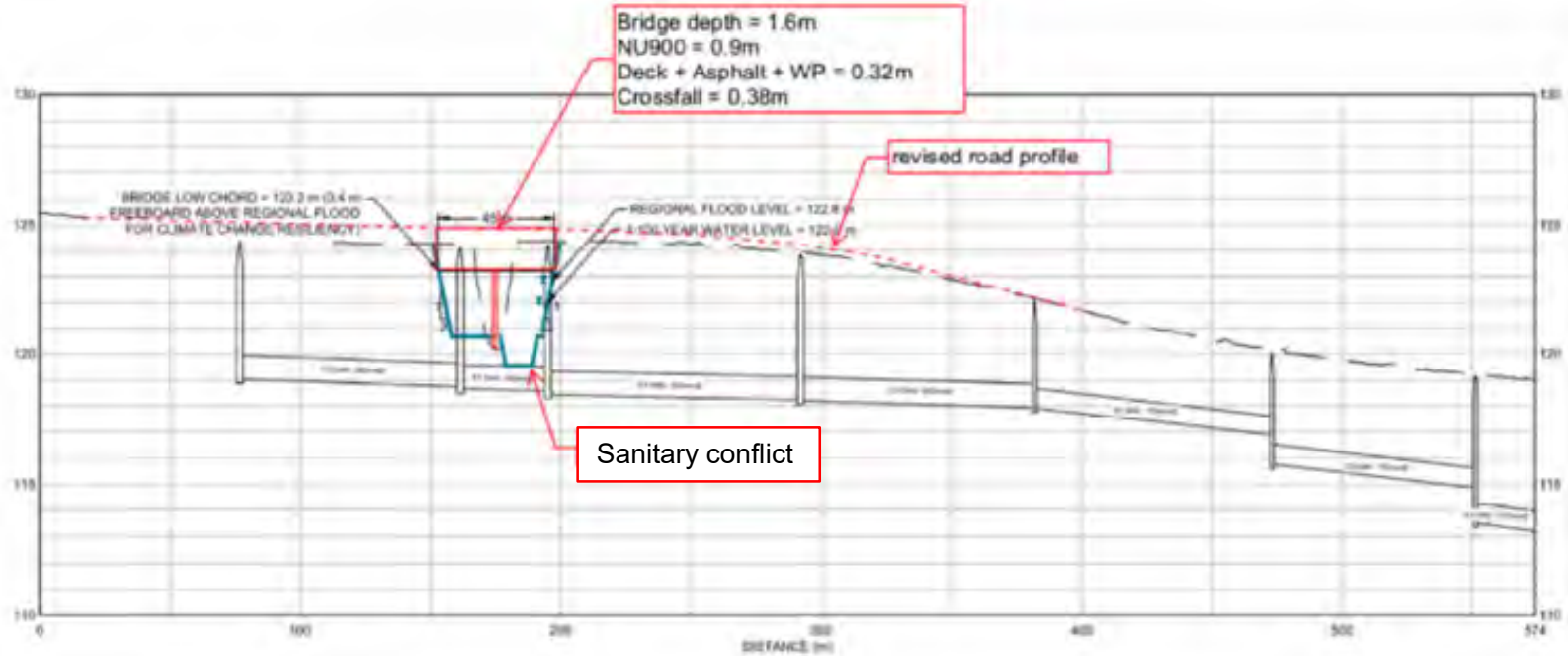


Bridge Replacement – Minimize Footprint DRAFT



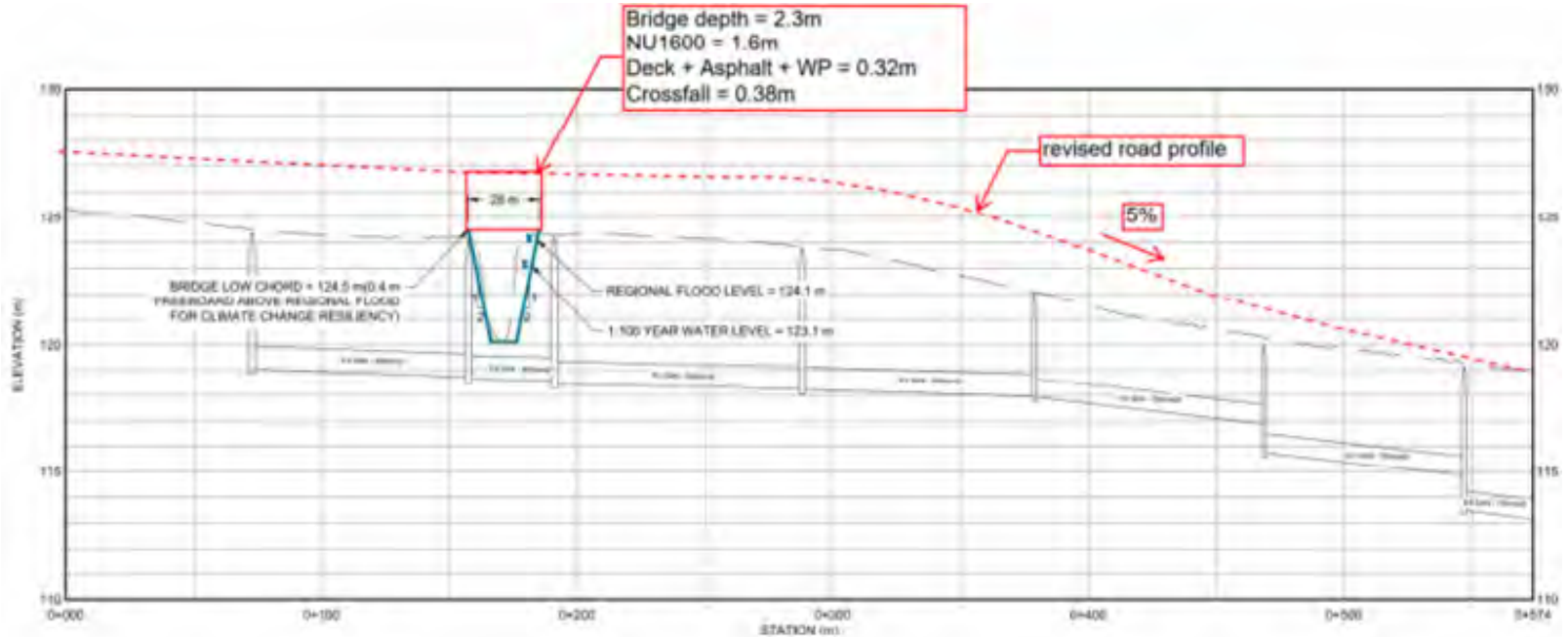
Dixie Road Profile

Bridge Replacement- Make Room for the Creek **DRAFT**



Dixie Road Profile

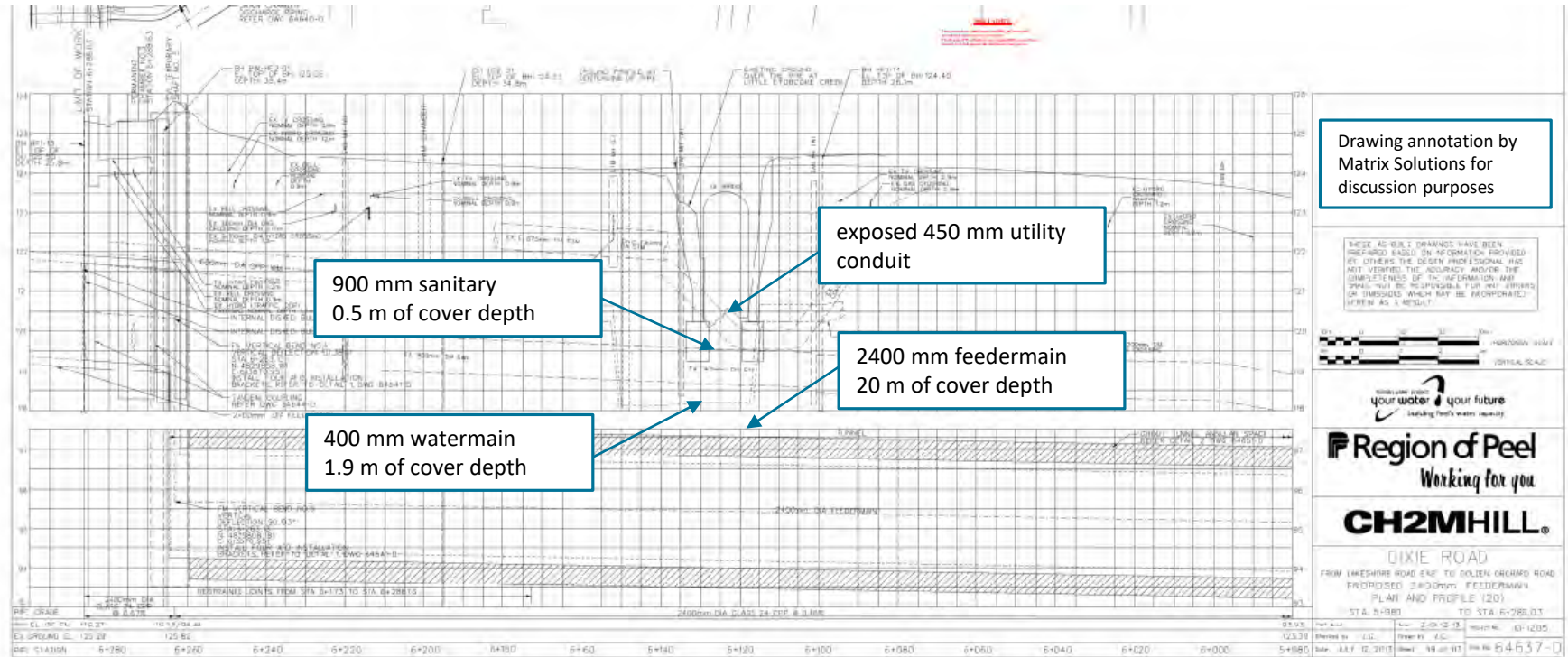
Bridge Replacement- Flood Containment **DRAFT**



Dixie Road Profile

Dixie Road Right-of-Way

DRAFT



Exposed Infrastructure

DRAFT

- Concrete utility conduit immediately downstream of Dixie Road



Exposed Infrastructure

DRAFT



450 mm sanitary pipe 500 m downstream of Dixie Road



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Next Steps

Environmental Assessment

DRAFT

- Notice of Commencement for Schedule C EA
- Public Information Centre No.1 (online) – May 2020 (anticipated)
- Working Committee – will meet at key decision-making points during EA
- Preliminary (30%) Design – July to December



September 26, 2020

CFN 63509

BY E-MAIL ONLY (Anthony.DiGiandomenico@mississauga.ca)

Anthony Di Giandomenico
Project Manager
City of Mississauga
201 City Centre Drive, Suite 800
Mississauga, ON L5B 2T4

Dear Mr. Di Giandomenico:

**Re: Notice of Study Commencement and Phase 1 Feasibility Study
Dixie-Dundas Flood Mitigation Project
Environmental Assessment – Schedule C
Etobicoke Creek Watershed; City of Mississauga; Regional Municipality of Peel**

Toronto and Region Conservation Authority (TRCA) staff received the Notice of Commencement and Online Public Engagement notice for the above-noted flood mitigation project on August 7, 2020. We also received the Dixie-Dundas Flood Mitigation Project – Phase 1 Feasibility Study report dated August 13, 2020, on August 17, 2020. As a resource management agency, a commenting agency under the Ontario *Environmental Assessment Act*, a service provider to member municipalities, and a regulator, TRCA has interests in this project. These are further detailed in **Appendix A: TRCA Commenting Roles**.

PROJECT OVERVIEW

The lands south of Little Etobicoke Creek are subject to flooding as a result of spilling from Little Etobicoke Creek from as little as the 5-year storm event. Flooding is caused by an undersized main channel and floodplain, undersized bridges and culverts and large contributing upstream flows intensified by upstream urbanization.

It is our understanding that the City of Mississauga has completed a Phase 1 Feasibility Study to examine options to keep flow within the Little Etobicoke Creek valley corridor, and to provide the groundwork for understanding the technical opportunities and constraints for flood mitigation. Options for flood mitigation will also directly impact the existing bridge crossing at Dixie Road and as such the feasibility report examines options for replacement of the existing bridge. Phase 2 of the Dixie-Dundas Flood Mitigation project will proceed with a Municipal Class Environmental Assessment (MCEA) and preliminary design, including further evaluation of the conceptual design alternatives. The forthcoming Environmental Assessment (EA) will also look at the potential for basement flooding risks to assess the hydraulic interactions between riverine flooding and the minor urban drainage system, once the modeling is furthered.

The Feasibility Study identifies several high-level solutions to the flooding problem, a number of which were screened out for various reasons. Through that screening process it was determined that containing the flows within the valley corridor is the preferred mitigation approach given the existing land constraints leaving three (3) conceptual alternative solutions as listed below.

- Option 1: Improved conveyance with minimized footprint
- Option 2: Improved conveyance by making room for the creek
- Option 3: Flood containment with mitigation for upstream impacts

The options provided above combine channel work with a replacement of the Dixie Road bridge. Bridge replacement concepts include:

- Option 1: Improved conveyance with minimized footprint
- Option 2: Improved conveyance by making room for the creek
- Option 3: Flood containment with mitigation for upstream impacts

PROJECT REVIEW

TRCA staff previously reviewed the Dundas Connects Master Plan which focused on the land uses and urban vision for the corridor, alternative modes of transit, potential flood mitigation/remediation measures, opportunities for enhanced connectivity and corridor/public realm design. Through that review, TRCA staff identified that flood remediation measures would need to be fully implemented, as well as proposed updates to the Special Policy Area(s) (SPAs) boundaries to reflect the proposed flooding conditions. This will need to occur before future development and the vision of growth identified in the Master Plan can be fully implemented.

It was also identified that modifications to Little Etobicoke Creek to alleviate flooding should, as much as possible, mimic natural channel design principles and replicate a more natural valley structure. This will help improve the terrestrial-aquatic interface, promote greater stability and resilience from a flood and erosion hazard perspective, and contribute to a more pleasing public realm with respect to the natural-built environment interface.

Further, the Master Plan identified a 60 m natural corridor width around Little Etobicoke Creek to accommodate future predicted flows as a result of the flood remediation works, trail and natural heritage system requirements. As mentioned in our comments on the Master Plan, it will be imperative to establish the natural corridor widths and dimensions for Little Etobicoke Creek early in the EA process, particularly if the preferred solution results in a corridor width greater than what was proposed in the Master Plan; a change to the proposed valley width could have significant impacts on the surrounding communities and planning applications, adjacent to the valley system.

TRCA staff have reviewed the Dixie-Dundas Flood Mitigation Project – Phase 1 Feasibility Study and provide detailed comments in **Appendix B**. Generally, staff do not have major concerns with the report and offer recommendations moving forward.

TRCA AREAS OF INTEREST

In relation to this application, TRCA staff have identified a number of areas of interest within the study area related to these various commenting roles, including:

1. TRCA Program and Policy Areas
 - a. Natural System Programs and Policies
 - b. Sustainability Programs and Policies
2. Provincial Program Areas
3. Federal Program Areas

Further details are provided in **Appendix C: TRCA Areas of Interest**.

In relation to these areas of interest, please be advised that TRCA has select digital data available through an open data platform on the [TRCA website](#) that should be used to supplement the existing conditions analysis in the development of the EA. Upon request, TRCA staff can provide additional data for areas of interest not available on the web. Please contact the undersigned as needed.

ASSESSMENT OF ALTERNATIVES

In developing, evaluating and selecting alternatives, staff require the LCP policies to be considered. TRCA staff recommend the preferred alternative(s) meet the policies of Section 7. In particular, impacts to and opportunities for the following should be addressed:

1. Flooding, erosion or slope instability
2. Existing landforms, features and functions
3. Aquatic and terrestrial habitat and functions, including connectivity
4. TRCA property and heritage resources
5. Environmental best management practices that support climate change mitigation and adaptation
6. Community and public realm benefits

TRCA staff require that the preferred alternative considers avoiding, minimizing, mitigating, and compensating impacts to the ecosystem, and avoid, mitigate or remediate hazards, in that order. In order to fulfil requirements of Ontario Regulation 166/06 at the detailed design stage, staff also requires that the preferred alternative meets LCP policies in Section 8.

In order to ensure TRCA concerns are addressed early in the review process, it is recommended that the TRCA planner be contacted when key project milestones are reached, as detailed in **Appendix D: Recommended Contact Points**. Please contact the planner to discuss the appropriate time for a site visit, if needed and please ensure the TRCA planner is included on the technical advisory committee.

SUBMISSION REQUIREMENTS

As this project proceeds through the various stages of the environmental assessment process, please ensure the following is provided to TRCA for review and comment at the appropriate time:

Digital Submissions

1. All technical advisory committee meeting agendas, as well as draft and final meeting minutes
2. All TRCA technical meeting agendas, as well as draft and final meeting minutes
3. Draft public information boards, prior to public review
4. Notices of public meetings, including final display material and handouts
5. Draft Phase 1 and 2 Report, if applicable
6. Draft technical reports and associated materials, including a covering letter that outlines the project purpose and lists the reports enclosed for review
7. Draft evaluation criteria and matrices, including a summary that details how the criteria and weighting (if applicable) were established
8. Draft EA document, including a covering letter that outlines how previous TRCA comments have been addressed
9. Final EA document, including a covering letter that outlines how previous TRCA comments have been addressed
10. Ensure all materials are submitted in PDF format, with drawings pre-scaled to print on 11"x17" pages.
11. Materials submitted through e-mail must be less than 25 MB.
12. Materials submitted through a file transfer protocol (FTP) site must be posted for a minimum of two weeks.

Please note, prior to submitting the technical reports and materials, as well as appendices related to the draft and final EA documents, it is recommended that the TRCA planner be contacted so that review requirements can be scoped to the TRCA areas of interest.

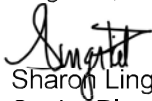
REVIEW FEES

Please be advised that this application is subject to a **\$21,355** application review fee as per our 2018 [Fee Schedule](#). Please note:

1. **To ensure accurate processing of your fee, please ensure your accounting department references CFN 63509 when making any payments.**
2. Payment method and timing must be noted in your covering letter response.
3. Additional fees are applied as per the fee schedule for reviews beyond two (2) three (3) submissions, including the final.
4. Payments can be made by:
 - a. Cheque: please attach the cheque to your resubmission. Alternatively, if sending separately through your accounting department, please request your accounting department submit the cheque to the attention of Oxana Stanislavskaya - Accounting Clerk, Finance Corporate Services, TRCA.
 - b. Credit Card: please contact Oxana Stanislavskaya at extension 6442 for payments made over the phone.
 - c. Electronic Fund Transfer: this option may be available through your accounting department.

Should you have any questions, please contact me at extension 5717 or at sharon.lingertat@trca.ca.

Regards,



Sharon Lingertat
Senior Planner, Infrastructure Planning and Permits
Development and Engineering Services

/SL

Attached: Appendix A: TRCA Comments and Proponent Responses
Appendix B: TRCA Commenting Roles
Appendix C: TRCA Areas of Interest
Appendix D: Recommended TRCA Contact Points

BY E-MAIL

cc: Matrix: Andrew Doherty (adoherty@matrix-solutions.com)
Melani-Ivy Samson (msamson@matrix-solutions.com)
TRCA: Victoria Kramkowski, Government and Community Relations Specialist, Peel Watersheds
Adam Miller, Senior Manager, Development Planning and Permits
Mary-Ann Burns, Senior Manager, Provincial and Regional Policy
Peel: Therese Estephan (Peel Risk Management Official) (therese.estephan@peelregion.ca)

APPENDIX A: TRCA COMMENTING ROLES

TRCA COMMENTING ROLES	
Public Commenting Body	
Planning Act	Pursuant to the Planning Act , conservation authorities are a “public commenting body”, and therefore must be notified of municipal policy documents and planning and development applications under the Planning Act. TRCA comments according to its Board-approved policies as a local resource management agency to the municipality planning approval authority on these documents and applications.
Environmental Assessment Act	Pursuant to the federal and provincial Environmental Assessment (EA) Acts , conservation authorities are a commenting body. Conservation authorities are also responsible for comments made under environmental assessment (EA) exemption regulations, and the Ontario and National Energy boards. TRCA reviews and comments on environmental assessment that occur within TRCA’s jurisdiction under these various forms of legislation.
Delegated Provincial Interests	
Hazard Lands	As outlined in the Conservation Ontario/ Ministry of Natural Resources and Forestry/ Ministry of Municipal Affairs and Housing Memorandum of Understanding on CA Delegated Responsibilities, CAs have been delegated the responsibility of representing the provincial interest on natural hazards encompassed by Section 3.1 of the PPS 2014.
Conservation Authorities Act	
Regulatory Authority	
Ontario Regulation 166/06 , Development, Interference with Wetlands and Alterations to Shorelines and Watercourses	In accordance with Ontario Regulation 166/06 (Development, Interference with Wetlands and Alterations to Shorelines and Watercourses), a permit is required from the TRCA prior to any development (e.g. construction) if, in the opinion of TRCA, the control of flooding, erosion, dynamic beaches or pollution or the conservation of land may be affected. The Regulation Limit defines the greater of the natural features and hazards associated with Ontario Regulation 166/06. NOTE: The Regulation Limit provides a geographical screening tool for determining if Ontario Regulation 166/06 will apply to a given proposal. Through site assessment or other investigation, it may be determined that areas outside of the defined Regulation Limit require permits under Ontario Regulation 166/06. In these instances, it is the text of the regulation that will prevail; modifications to the regulation line may be required. Any development within the Regulation Limit must comply with the applicable sections of The Living City Policies (2014).
Resources Management Agency	
TRCA Programs	In accordance with Section 20 and 21 of the Conservation Authorities Act , CAs are local watershed-based natural resource management agencies that develop programs that reflect local resource management needs within their jurisdiction. TRCA has developed programs and policies related to our role as a resource management agency that include, but are not limited to, watershed plans, fisheries management plans, land management plans, ecosystem restoration programs, and The Living City Policies (2014) , which are approved by the TRCA Board.

	<p>Please confirm that the preferred alternative design for this project addresses TRCA concerns related to its program areas. These will be further defined through the EA review process.</p>
<p>Service Provider</p>	
<p>Restoration Opportunities</p>	<p>TRCA requires that the preferred alternative considers avoiding, minimizing, mitigating, and compensating impacts to ecosystems in that order. In areas where impacts are unavoidable, mitigation or compensation will be required. It is recommended that the costs associated with these impacts be factored into decisions made during the EA.</p> <p>TRCA has identified opportunities for habitat restoration and enhancement on TRCA property and some privately owned lands, targeted to improve natural form and function based on goals in the watershed strategies. Should ecosystem restoration or compensation be required for this project, TRCA may be able to provide both restoration opportunities and restoration field services on a project specific basis. This will be further discussed through the EA review process.</p>
<p>Community and Public Realm Benefits</p>	<p>TRCA understands that the purpose of providing project-based community benefits is to provide measurable economic benefits to the local community, and that the purpose of providing public realm benefits is to support local opportunities for social and environmental improvements.</p> <p>As part of the 2013-2022 TRCA Strategic Plan (updated), TRCA has identified the need to achieve measurable positive impacts on the health of our watersheds and has developed a number of programs that actively engage with local communities to support a green, local economy. These programs include but are not limited to, Sustainable Neighbourhood Retrofit Action Plans, TRCA Conservation Land Care Program, TRCA Trails Program, TRCA Community Transformation Program and Partners in Project Green.</p> <p>It is recommended that commitment be made to work with TRCA and other partners to develop a Community and Public Realm Benefits Strategy for this project. This will be further discussed through the EA review process.</p>

APPENDIX B: TRCA COMMENTS AND PROPONENT RESPONSES

#	TRCA COMMENTS (September 26, 2020)	PROONENT RESPONSE
Stormwater/Flood Control		
1	Table 1 shows design flows in the subject area. Little Etobicoke Creek and Main Etobicoke Creek merge upstream of The Queensway so flows at The Queensway are larger than flows shown in the last row of Table 1. To ensure this is clear, please change the location wording from "Queensway" to "Upstream of Queensway before the confluence".	
2	Page 7 second bullet: Please include a Figure showing the reach breaks.	
3	Section 5.1 High-Level Solutions: Maintenance of existing flood storage or minimal loss of flood storage should be used as one of the criteria for screening some of the possible solutions considered.	
4	Section 5.1.5 Regional Flood Control: All storage approaches are not considered permanent flood protection solutions by the Ministry of Natural Resources and Forestry and may result in increases to flood lines.	
5	Page 22 second paragraph: Suggest that the EA confirm and recommend potential locations and design considerations for pedestrian crossings and proposed trails, as they can have localized impacts which may impact the proposed plan.	
6	Figure 6: Please confirm whether this option (and others) will increase the risk of flooding at The Brick site (northeast corner of Little Etobicoke Creek and Dundas Street) as TRCA placed a berm at this property in the past to address frequent flooding. Please ensure the risk does not change or can be improved.	
7	As the viability of this flood remediation project in different unforeseen future scenarios is critical (e.g., climate change, accumulated intensification of areas upstream of the subject area, compensation for modeling and data errors), it is important that this project provide sufficient freeboard, beyond the Regulatory Flood Elevation and the required freeboard. As such, it is recommended that a reasonable freeboard can be estimated by conducting a sensitivity analysis (i.e., by increasing the Regulatory flows by 10%, 15% and 20%).	
8	The feasibility study identifies options for the Dixie Road bridge, however, it is unclear whether modifications will also be required at the Dundas Street bridge. Please include this discussion in the report or subsequent EA.	
Natural Heritage System (NHS)		
9	The Feasibility Study's discussion of the NHS functions primarily as an existing conditions report and does not appear to offer any recommendations related to the feasibility or potential for impacts of the options from an ecological perspective. The scale and intensity of impacts has not been explored. It is also unclear which of the options would have the greatest ecological impact and which would have the least. Opportunities have also not been discussed for each alternative (i.e., some alternatives may provide a greater opportunity for ecological improvements than others). This analysis should be used to inform the decision around the preferred alternative. The current strategy appears to defer the impact assessment until after the decision has been finalized. Please provide an analysis on the ecological impacts associated with the alternatives in an effort to fully inform the decision-making process. Please ensure that the analysis includes discussion related to the disturbance associated with terrestrial impacts (corridor vegetation removal, significant wildlife habitat, etc.) and aquatic impacts (piers within the watercourse, impact of removal of riparian vegetation and significant widening of the crossing structure, fish passage, etc.). Habitat restoration potential and opportunities should also be discussed.	
10	Based on the information provided, it seems that a narrower crossing structure would be preferred from both an aquatic and terrestrial perspective as staff are not typically supportive of piers within the watercourse when other alternatives are available. Please consider impacts to the NHS as these options are developed.	

#	TRCA COMMENTS (September 26, 2020)	PROPONENT RESPONSE
Geotechnical		
11	Geotechnical studies are required at the EA stage that include field investigations (advancing adequate number of sufficiently deep boreholes) and geotechnical assessments, analyses and design for the proposed construction of any new features, as well as a stability assessment of the channel side slopes. Appropriate stabilization will need to be developed by a geotechnical engineer for proposed channel cross-sections to ensure the channel walls remain stable in the long-term, with a minimum factor of safety of 1.50.	
12	Option 2, Drawing 2-4: For the upper channel a very steep side slope of 1.5H:1V is proposed. Engineering the channel at this section will be required to ensure the long-term stability of the proposed channel. Please have a geotechnical engineer review the channel profile and develop appropriate stabilization measures to ensure the long-term stability of this option, if it is carried forward as a preferred alternative.	
13	Option 3, Drawing 3-3, Flood Protection Landform: Should this option move forward, please ensure the EA addresses the geotechnical design to ensure long-term stability, adequate seepage protection and surface protection to withstand erosive forces from the creek. Construction details and specifications for the flood-protection landform will be required including specifications at the design stage. For further information, please refer to the Flood Protection Land Forming Technical Design Considerations (see geotechnical design sections for geotechnical design of a flood protection landform).	
14	Option 3, Drawing 3-3, Sections 1 and 2: Please specify the side slope for the proposed channel. The side slopes should not be too steep to ensure long-term stability. This will also help inform future comments/decisions around the final preferred alternative.	
15	Discussion regarding appropriate protection of the channel side slopes/cuts should be included in the EA to ensure that there is no risk of toe erosion and surface erosion for the channel slopes/cuts, which can potentially trigger slope instability in the long-term. All measures should be carefully developed at the EA stage.	
General Comments		
16	Section 4.1, Property: TRCA staff recommend including discussion within the report on the ownership of the creek and valley system.	
17	If excavations will be required, then as part of the EA, please provide a report that examines dewatering requirements, if any. This can be in the form of a geotechnical/hydrogeology report.	
18	As noted in the covering letter, the Master Plan identified a 60 m wide valley corridor. It will be imperative to establish the natural corridor widths and dimensions for this flood mitigation work early in the EA process. This is of particular concern if the preferred solution results in a corridor width greater than what was proposed in the Master Plan as this will have significant impacts on the surrounding communities and planning applications, adjacent to the valley system.	
19	While the purpose of the EA is to mitigate flood risk to residents and businesses within the spill area, please ensure that other residents/businesses are not put at increased risk to flooding and erosion hazards as a result of the work (i.e., those adjacent to the valley system).	
20	Please ensure the feasibility study and future EA clearly distinguish between flood remediation and flood mitigation measures. Removing lands from the floodplain, such as through improved conveyance, is considered "flood remediation" while cut-fill balance and/or raised openings to flood proof are examples of "flood mitigation".	

APPENDIX C: TRCA AREAS OF INTEREST

<p>TRCA PROGRAM AND POLICY AREAS <i>Note: Additional program and policy information may be available at www.trca.ca, or by request.</i></p>	
<p>Natural System Programs and Policies</p>	
	<p>TRCA follows a systems approach in which the natural features and water resources are considered in relation to each other and the broader landscape in which they occur. The systems approach recognizes the role that linkages and connectivity within the natural system has in supporting ecological and hydrologic processes and functions that are vital to maintaining a healthy and robust natural system that is resilient against the impacts of urbanization and climate change.</p>
Systems Approach	<p>TRCA may require an assessment of the existing systems, together with an evaluation as to how the proposal may impact the systems.</p> <p>The aquatic system includes watercourses, wetlands, and flora and fauna species. Aquatic species and habitat should be assessed based on their conservation status according to sensitivity to disturbance and specialized ecological needs, as well as rarity.</p> <p>TRCA has prepared watershed plans or strategies, as well as fisheries management plans for some watersheds. The proposal must prevent negative impacts to the aquatic system, and as such, TRCA may require an assessment of the existing aquatic system, an evaluation as to how the proposal will meet the objectives articulated in the watershed plan or strategy, and/or an evaluation as to how the proposal will meet the objectives of the fisheries management plan.</p> <p>The terrestrial system includes landscape features, vegetation communities, and flora and fauna species. Terrestrial species and habitat should be assessed based on their conservation status according to sensitivity to disturbance and specialized ecological needs, as well as rarity.</p>
Aquatic Systems, Species and Habitat	
Terrestrial System, Species and Habitat	<p>TRCA has identified the need to improve both the quality and quantity of terrestrial habitat. TRCA's Terrestrial Natural Heritage System Strategy sets measurable targets for attaining a healthier natural system by creating an expanded and targeted land base. It includes strategic directions for stewardship and securement of the land base, a land use policy framework to help achieve the target system, and other implementation mechanisms.</p> <p>TRCA may require an assessment of the existing terrestrial species and habitat, together with an evaluation as to how the proposal will meet the objectives articulated in the watershed plan or terrestrial natural heritage strategy, as well as prevent negative impacts to the terrestrial system.</p>
<p>Groundwater Systems</p>	
Aquifers and Hydrogeological Features and Functions	<p>Groundwater systems include aquifers and their functional connections to surface water. The extraction and discharge of groundwater has the potential to negatively impact surrounding natural features and their functions. Even small amounts of groundwater extraction may reduce contributions to groundwater dependent features such as wetlands, springs, or fish spawning habitat. In addition, the discharge of groundwater must be controlled to avoid impacts to watercourses and fish habitat from temperature, erosion and sedimentation, as well other water quantity and quality issues.</p>

	<p>TRCA may require geotechnical or hydrogeological investigations to confirm dewatering and discharge requirements, and to identify appropriate mitigation measures with respect to potential impacts to natural features and functions.</p>
Surface Water Systems	
Watercourses	<p>Typically, watercourses are associated with aquatic species, and direct or indirect habitat. Any alteration or interference to a watercourse (e.g., straightening, diverting, realigning, altering baseflow) has the potential to impact fish communities, but may also affect the Regulatory Flood Plain, erosion or other natural channel processes.</p> <p>TRCA may require an environmental study or site confirmation of watercourse locations.</p>
Regulatory Flood Plain	<p>The Regulatory Flood Plain is the approved standard used in a particular watershed to define the limit of the flood plain for regulatory purposes. Within TRCA's jurisdiction, the Regulatory Flood Plain is based on the greater of the regional storm, Hurricane Hazel, and the 100-year flood. TRCA's framework for Flood Plain Management is the LCP, which is consistent with the provincial policy framework.</p> <p>This study is reviewing impacts to flood storage and conveyance of flood waters which will require further detailed analysis moving forward.</p> <p>Stormwater management is integral to the health of streams, rivers, lakes, fisheries and terrestrial habitats, and source water protection is integral for managing the quality and quantity of drinking water at its source.</p> <p>TRCA requires all development, infrastructure and site alteration meet the criteria in the TRCA 2012 Stormwater Management Criteria document for water quantity, water quality, erosion control, discharge water temperature, and water balance for groundwater recharge and natural features.</p> <p>Green Infrastructure techniques, including Low Impact Development (LID) measures should be used to address issues related to stormwater management, as well as maximize ecosystem services and mitigate the impacts of urbanization and climate change.</p> <p>For further information, please refer to the TRCA Introduction to Green Infrastructure, the Sustainable Technologies Evaluation Program (STEP) - Urban Runoff Green Infrastructure and the STEP 2010 Low Impact Development Stormwater Management Planning and Design Guide.</p>
Special Policy Areas	<p>Developed areas that have historically existed within a flood plain may be designated as Special Policy Areas (SPA) as defined within the 2020 Provincial Policy Statement, and as initiated by municipalities and approved by the Province. Provincially approved Official Plan policies for development and land use in these areas address the social and economic factors that support the continuation of the community. SPAs allow development and land uses that would not otherwise be permitted by the provincial policies on flood plain management.</p>
Flood or Erosion Control Structures	<p>There is an existing flood or erosion control structure (e.g., dam, weir, berm, channel) located in the project vicinity that must be considered as the project proceeds. A meeting with TRCA should be arranged as early as possible.</p>

<p>Valley Slopes</p>	<p>Valley and stream corridors are dynamic systems that provide important natural functions and linkages for the physical, chemical and biological processes of wildlife, watercourses, and other natural features. The crest of slope identifies the physical limit of these corridors; however, due to ecological sensitivities, development restrictions typically extend beyond the actual crest of slope.</p>
<p>Crest of Slope</p>	<p>TRCA may require the determination of the long-term stable crest of slope (or toe of slope) through a staking with TRCA staff, as well as a geotechnical assessment.</p>
<p>Sustainability Programs and Policies</p>	
<p>Climate Change</p>	<p>In October 2017, MECP released a guideline under the Ontario environmental assessment legislation directing that all projects going through the EA process, including IEAs, Class EAs, and those governed by EA regulations, must consider impacts to and opportunities for climate change mitigation and adaptation, and consider the vulnerability of projects to climate change. It was further recommended that applicable policies in the 2014 Provincial Policy Statement be addressed, including but not limited to encouraging green infrastructure and strengthening stormwater management requirements; requiring consideration of energy conservation and efficiency, reduced greenhouse gas emissions and climate change adaptation (e.g. tree cover); and consideration of the potential impacts of climate change that may increase the risk associated with natural hazards (e.g. flooding due to severe weather).</p> <p>The climate change section of the EA should include recommendations for Green Infrastructure, Sustainable Energy, Sustainable Buildings and Sustainable Construction Practices, as further described below. It is recommended that a completed Sustainable Technologies for Green Building, Green Infrastructure, and Sustainable Energy Design in Evaluation Matrix be included in the EA document.</p>
<p>Sustainable Infrastructure & Buildings</p>	<p>The sustainability of infrastructure and buildings determined through a variety of factors through planning, design, construction, operation, maintenance and decommissioning. Sustainability factors include the efficiency environmental impact of project inputs through all phases, including energy, water and natural resources/materials.</p> <p>The type and amount of energy used in construction and operation is one of the most significant factors affecting climate change, the ecological footprint of our communities, and ultimately our ability to create sustainable communities. As supported by the LCP, TRCA advocates that proponents consider the use of appropriate sustainable energy networking (e.g., community energy project), technologies (e.g., solar lights, etc.) and practices (e.g., selection of materials, transportation of materials, energy efficiency, passive solar energy) in their projects.</p> <p>Various sustainability best management practices include sustainable procurement, reusing resources, using recyclable/recycled resources, protecting natural systems, eliminating toxics, applying life-cycle costing and ensuring a high quality of construction. If designed appropriately, sustainable infrastructure or buildings generally cost less to operate, are more resilient and adaptable as compared to standard designs and are an aesthetic and environmental benefit to the community.</p> <p>TRCA recommends that a commitment to sustainable infrastructure or buildings through all project phases be made in the EA document. Please consider using a rating system such as Envision or LEED to guide the EA and detailed design.</p>

<p>Sustainable Communities</p>	<p>The TRCA Living City vision is based on a foundation that includes Sustainable Communities. Planning for community sustainability requires the identification of the complex and inter-related social, economic and ecological systems involved; TRCA supports a systems approach to developing integrative and adaptive solutions to improve community sustainability. Key socio-economic systems include: transportation facilities (including trails, sidewalks & multi-use pathways), community greenspaces (including parks), urban forests, cultural heritage resources, and the local economy. For transportation projects, a context sensitive design/solutions framework are encouraged.</p>
<p>Archaeological and Heritage Resources</p>	<p>TRCA watershed strategies include recommendations for the management of archaeological and heritage resources in accordance with Ministry of Culture and Municipal standards. The project should aim to preserve, protect and celebrate archaeological and heritage resources where possible.</p>
<p>PROVINCIAL PROGRAM AREAS</p>	
<p>Credit Valley - Toronto & Region - Central Lake Ontario (CTC) Source Protection Plan</p>	<p>The <i>Clean Water Act</i>, 2006 ensures communities protect their drinking water supplies through prevention by developing collaborative, watershed-based source protection plans that are locally driven and based on science.</p> <p>Please be advised that the subject property appears to fall within the Intake Protection Zone (IPZ) and Highly Vulnerable Aquifers (HVA) vulnerable areas under the Credit Valley - Toronto and Region - Central Lake Ontario Source Protection Plan (CTC SPP). Please confirm that the preferred alternative design for this project conforms with the CTC SPP. For additional support, please consult with the Risk Management Official as copied on this letter.</p> <p>Please note that in accordance with Ontario Regulation 166/06, permits from TRCA may be required for mitigation solutions that are designed to ensure conformity with the CTC SPP.</p>
<p>PROVINCIAL PROGRAM AREAS</p>	
<p>Please contact the Ministry of Natural Resources and Forestry to confirm if there are program interests related to this project for:</p>	
<ul style="list-style-type: none"> • Areas of Natural and Scientific Interest (ANSI) • Provincially Significant Wetlands (PSW) • Provincially Endangered Species under the <i>Endangered Species Act</i> (ESA) 	
<p>Please be advised that this list is not inclusive and the onus is on the proponent and it consultants to consult with other provincial agencies, as required, to ensure that requirements of their respective legislation is met.</p>	
<p>FEDERAL PROGRAM AREAS</p>	
<p>Please contact the relevant federal agency to confirm if there are issues related to:</p>	
<ul style="list-style-type: none"> • Asian Long-horned Beetle Regulated Area • Federally Endangered Species under the Species at Risk Act (SARA) • The Fisheries Act 	
<p>Please be advised that this list is not inclusive and the onus is on the proponent and it consultants to consult with other provincial agencies, as required, to ensure that requirements of their respective legislation is met.</p>	

Appendix D: Recommended TRCA Contact Points in the Municipal Class EA Process

