



Transportation Master Plan & Water and Wastewater Master Plan Update

Town of East Gwillimbury

WELCOME

to Public Information Centre 1



Transportation Master Plan & Water and Wastewater Master Plan Update

Town of East Gwillimbury

Station 1

Sign-in, Welcome, and Context



Transportation Master Plan Water and Wastewater Master Plan Update

What is a Transportation Master Plan?

A Transportation Master Plan (TMP) identifies the long-term transportation objectives of a defined area and specific solutions requiring further study. Transportation is an essential part of a community and is one of the primary factors driving the Town's environmental, economic, and social sustainability. A transportation system can influence the travel choices that people make and these choices will have a significant effect on the sustainability of the area and its growth.

What is a Water and Wastewater Master Plan?

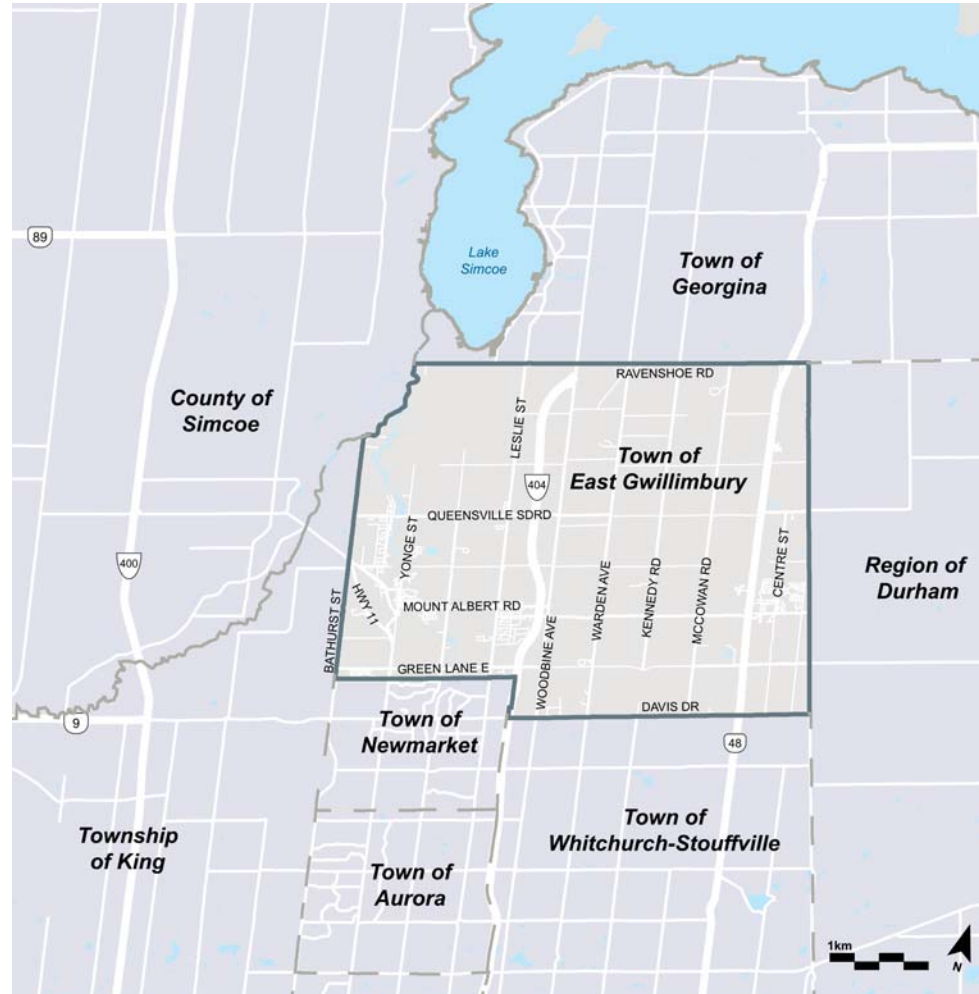
A Water and Wastewater Master Plan (W/WWMP) provides a 'roadmap' of water and wastewater infrastructure requirements based on existing and future capacity deficiencies identified, as well as associated cost details and recommended implementation timing. The W/WWMP will ensure accommodation of the expected population of developments to increase to the year 2041. The purpose of the Master Plan is to provide input into required infrastructure projects and budget decisions based on five year incremental growth scenarios.



Transportation Master Plan Water and Wastewater Master Plan Update

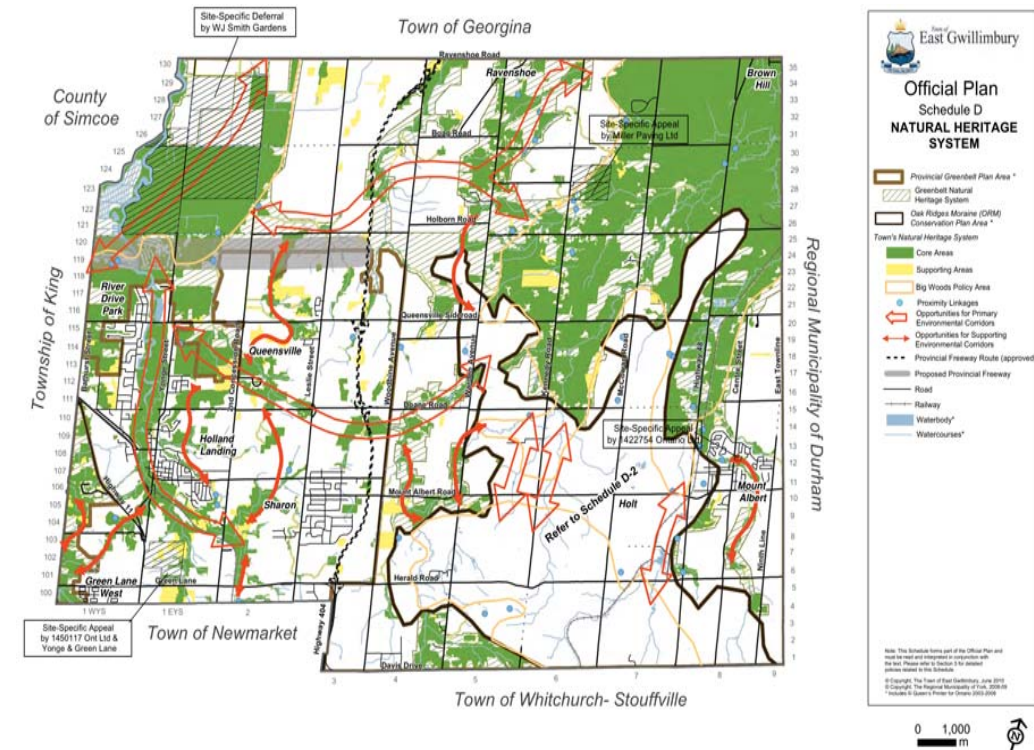
Regional Context

The Town of East Gwillimbury is located in northern York Region and borders Simcoe County, Durham Region, and Lake Simcoe.



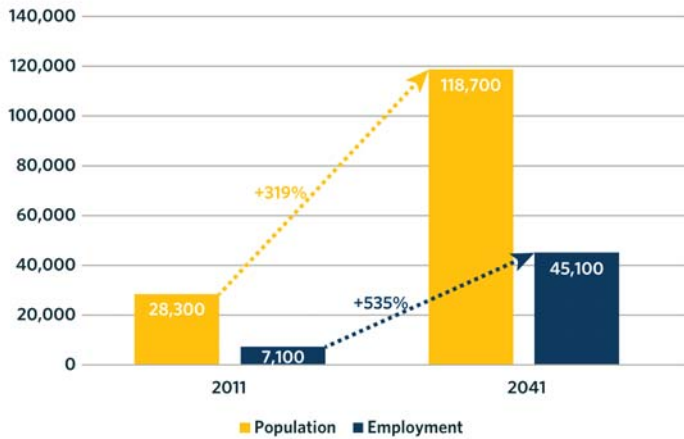
Constraints

The Town has several environmental constraints due to the Greenbelt Natural Heritage System (NHS) and the Oak Ridges Moraine (ORM). Outside of the existing Secondary Plan areas, new development requires special permits.



Transportation Master Plan Water and Wastewater Master Plan Update

Planned Growth



The Town's population and employment is expected to grow significantly. Growth is centered around Green Lane West, Sharon, Holland Landing, Mount Albert, and Queensville¹.

Planning Context

The Town's TMP and W/WWMP will be developed within the context of existing policies and initiatives at the provincial, regional, and local levels.

Provincial

- Provincial Policy Statement, 2014
- Growth Plan for the Greater Golden Horseshoe, 2017 Update
- Regional Transportation Plan, 2017 Update
- GO Regional Express Rail (RER), 2016
- GO Station Access Plans, 2016
- Highway 400 - Highway 404 Extension Link
- Transit Supportive Guidelines
- #CycleON: Ontario's Cycling Strategy

Local

- Official Plan, 2010
- Strategic Plan, 2015 - 2018
- Water and Wastewater Master Plan, 2009
- Transportation Master Plan, 2010
- Active Transportation and Trails Master Plan, 2012
- Green Lane Secondary Plan, on-going
- Roads Needs Assessment Study, 2009

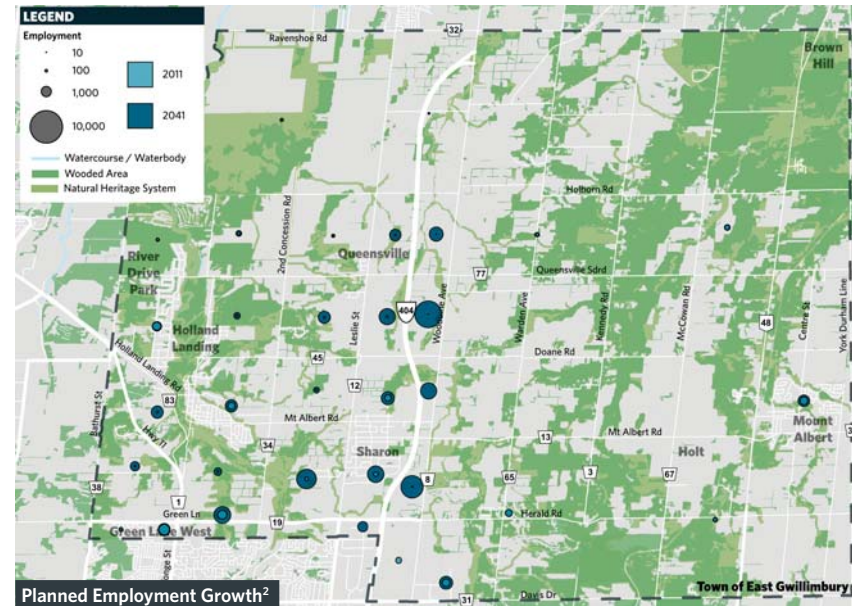
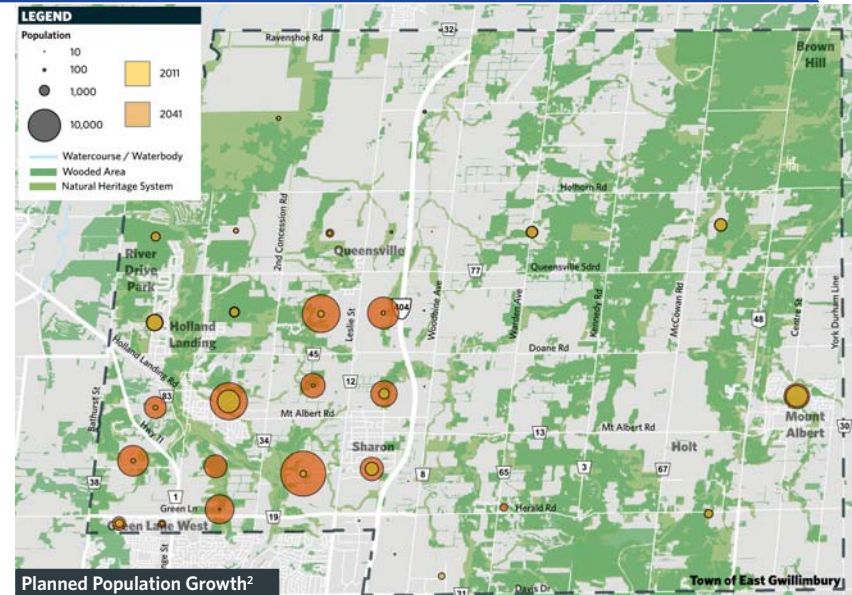
Regional

- York Region Water and Wastewater Master Plan, 2016
- York Region Transportation Master Plan, 2016
- New Communities Guidelines, 2013
- Transportation Mobility Plan Guidelines for Development Applications, 2016
- Access Guidelines for Regional Roads, 2007

Notes:

¹The urban boundary is subject to change. York Region is currently undertaking the Municipal Comprehensive Review (MCR) to determine where growth will occur.

²York Region 45% Intensification Scenario, 2016 - Subject to Change





Transportation Master Plan






Town of East Gwillimbury

Station 2

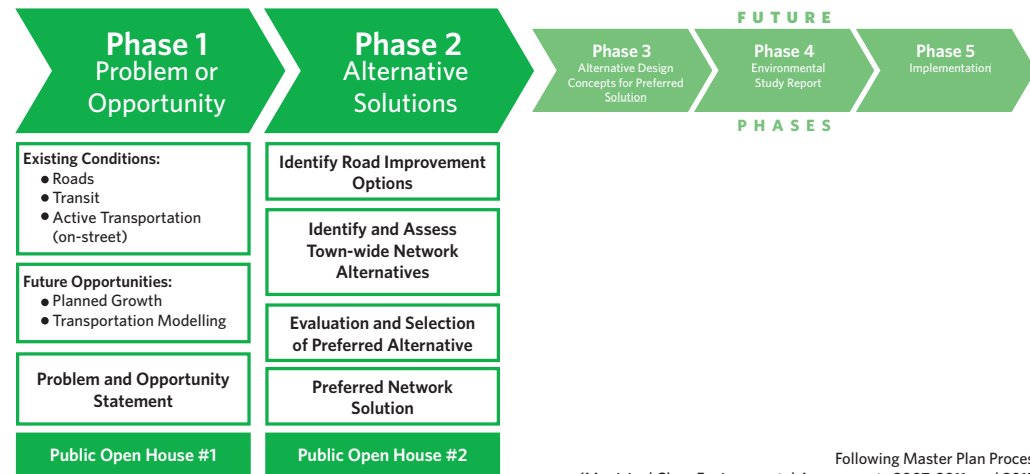
Transportation Master Plan - Problem & Opportunity

What is this study about?

Purpose

-  Support all modes of travel (auto, transit, on road and off road active transportation)
-  Identify gaps and opportunities in the transportation network
-  Accommodate growth to 2041 and beyond
-  Support existing and future land uses
-  Develop a well-integrated, multi-modal, and sustainable transportation network

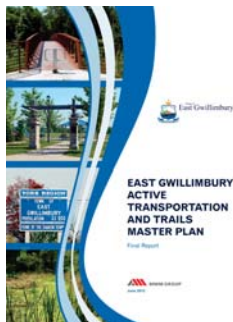
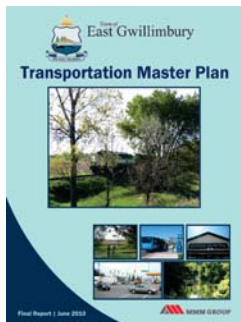
Following Phase 1 and 2 of the EA Process



Following Master Plan Process (Municipal Class Environmental Assessment, 2007, 2011, and 2015)

▲
We are here

This Transportation Master Plan (TMP) will:



Update the Town's 2010 TMP and inform the 2012 Active Transportation and Trails Master Plan

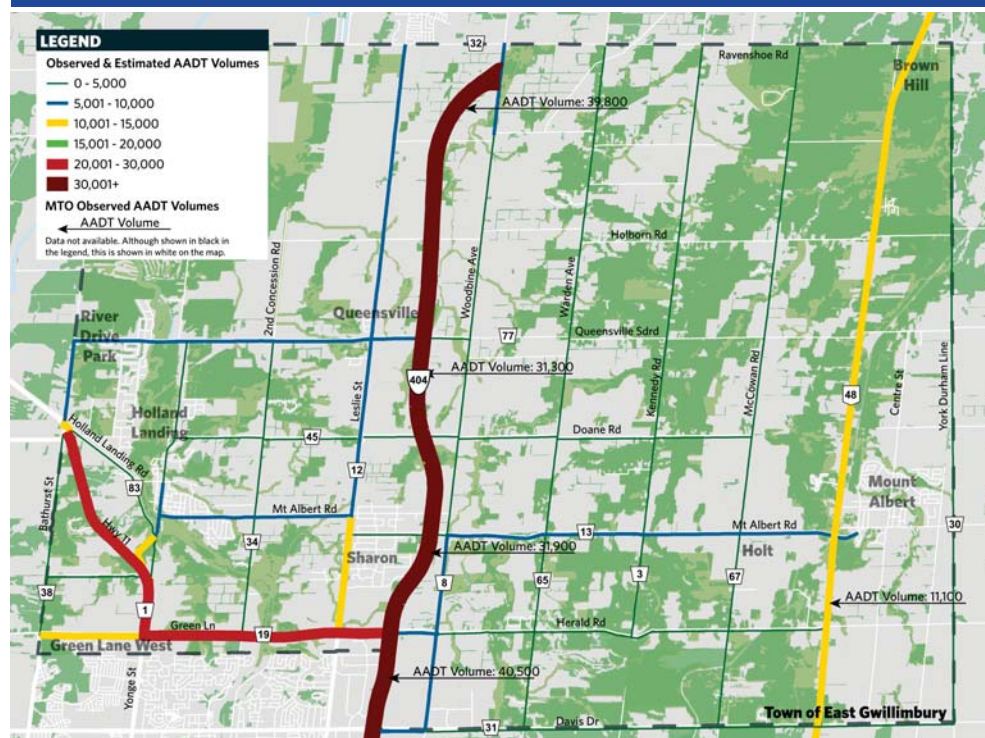
Serve as a blueprint for the Town to develop its future transportation network

Focus on active transportation, connectivity, and accessibility



Promote community prosperity and sustainability

Support the Town's vision for a safe, accessible, and livable community

Existing Conditions Daily Traffic Volumes



Transit Demand

	2014 Boardings		2015 Boardings	
	Avg Weekday	Avg Saturday	Avg Weekday	Avg Saturday
 Route 52 Holland Landing	262	108	↘ 196	↘ 99
 Route 58 Mount Albert	130	9	↘ 128	↘ 5

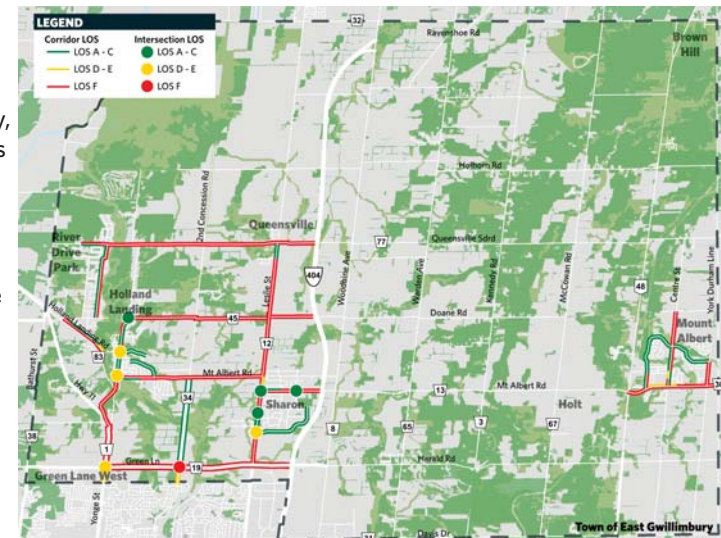
Transit trips are trending downwards.

Active Transportation Level of Service

Pedestrian Level of Service (PLOS)

Based on user comfort, safety, and convenience and are thus subjective.

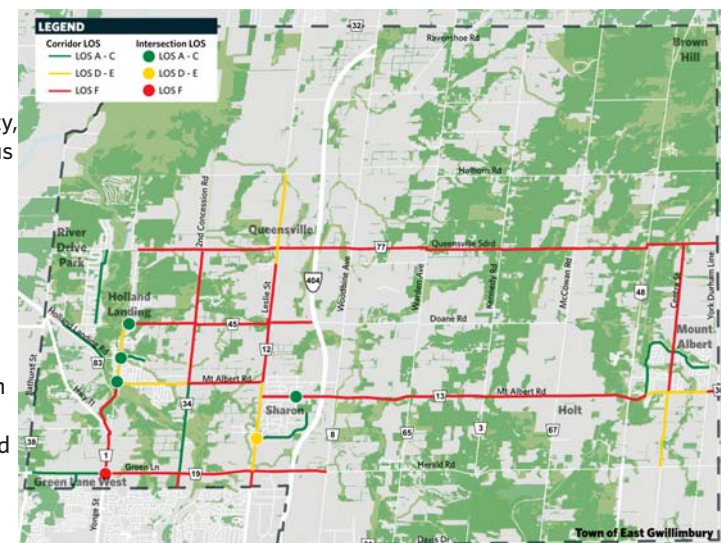
Higher segment scores are found at locations where vehicle speeds and volumes are lower, and where there are wider sidewalks.



Bicycling Level of Service (BLOS)

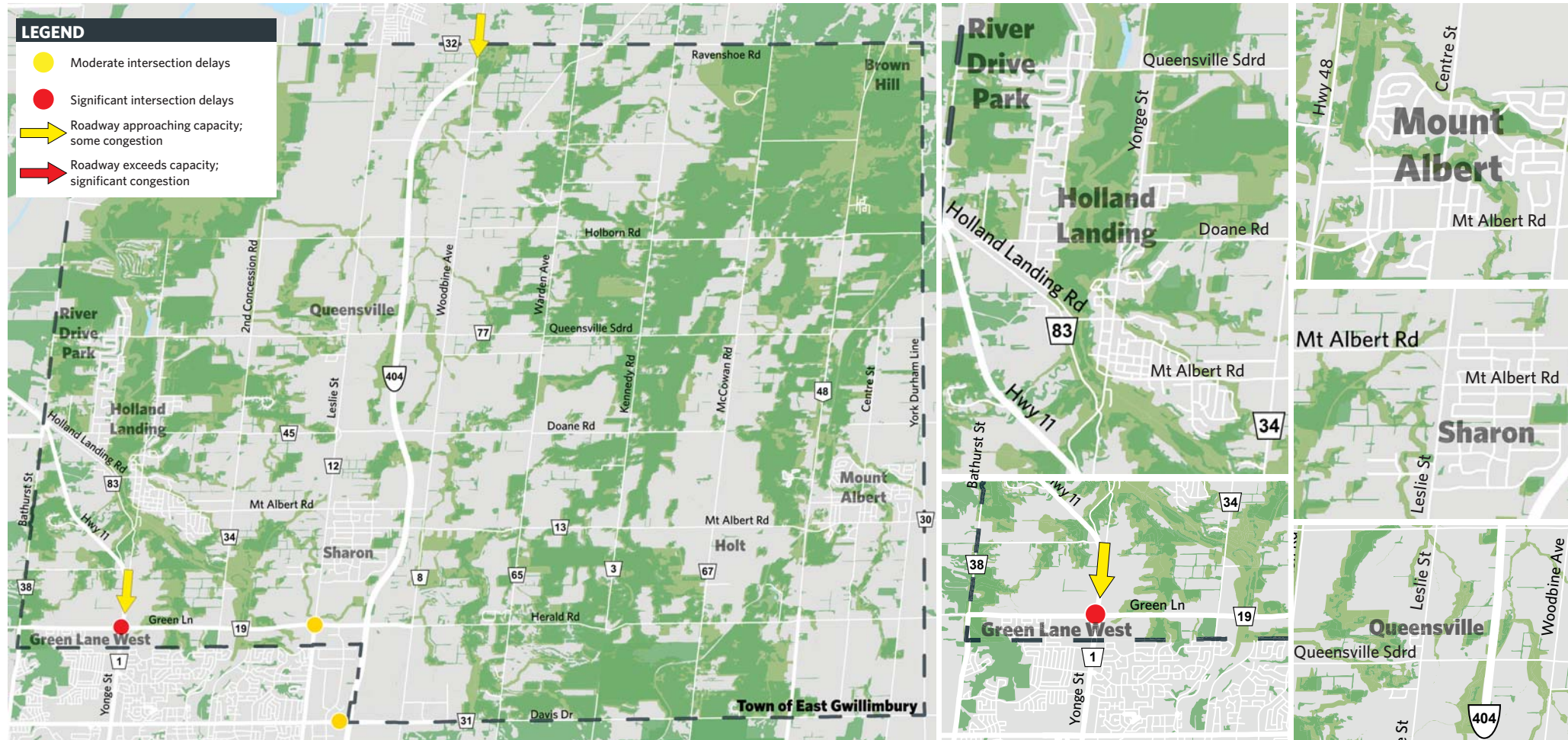
Based on user comfort, safety, and convenience and are thus subjective.

It is most sensitive to facility type. Physically separated bikeways such as cycle tracks, protected bike lanes, and multi-use paths receive the highest scores. Cycling in mixed traffic conditions with varying operating speeds and street widths score lower.



Road Network Where do you experience traffic congestion?

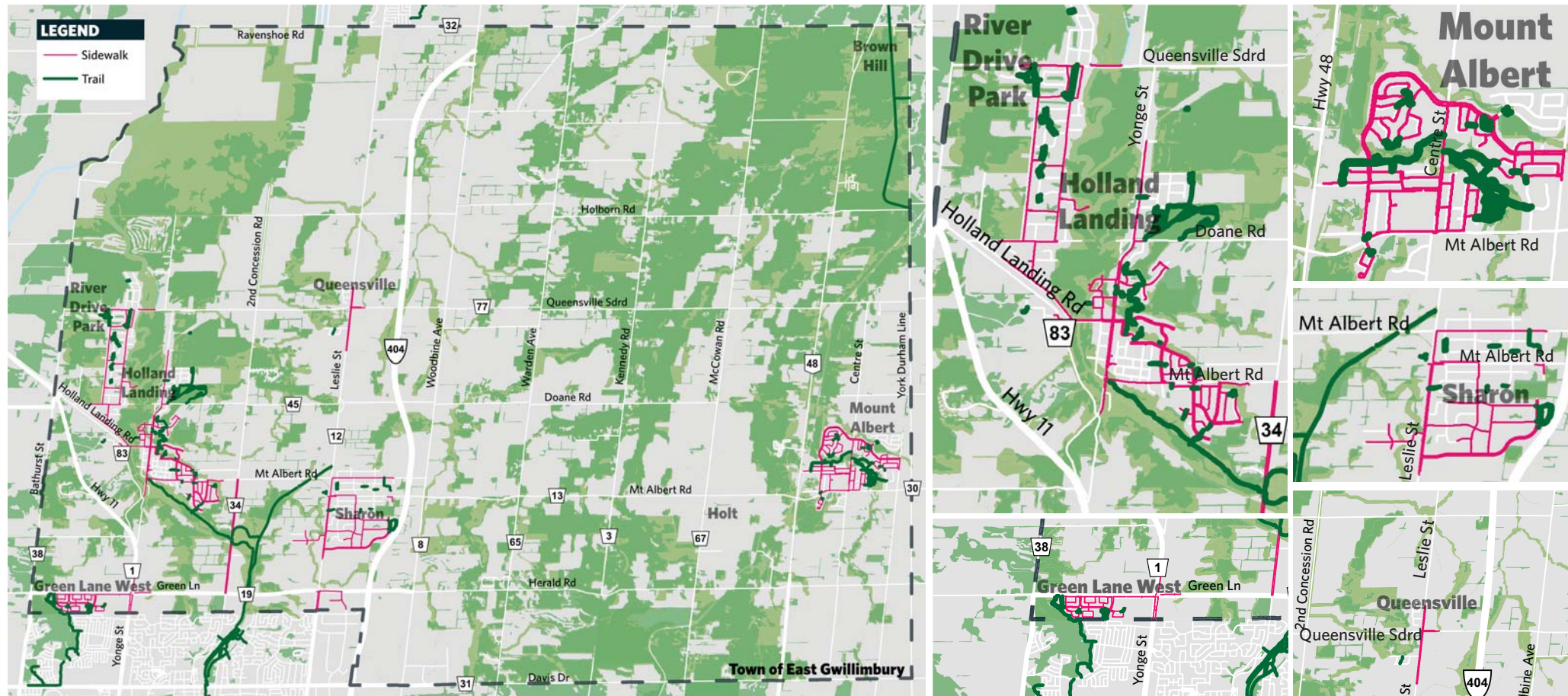
The map below illustrates where there is known traffic congestion. Place a **red dot** where you experience traffic congestion. Place a **green dot** for areas where you see opportunities to improve traffic. Comments can also be provided on post-it notes.



Pedestrian Network

Where do you see gaps or opportunities in the network?

The map below illustrates the existing pedestrian facilities. Place a **red dot** where you see a gap in the network. Place a **green dot** for areas where you see opportunities for the pedestrian network. Comments can also be provided on **post-it notes**. **Where would you like to walk to and from?** Put **pins and strings** on the map to indicate your preference.



Problem and Opportunity Statement

The Town of East Gwillimbury is planned to grow significantly over the next 25 years by about 5 times its current population. This growth will result in additional and shorter trips within the Town, adding strain on the Town's internal transportation network.

At the same time, this growth represents opportunities to:



Provide new road linkages



Improve the streets within the Town, making them safe and accessible for all road users



Promote walking as the first choice for short trips



Make cycling an option for more than just recreational trips



Grow the role of transit in the Town

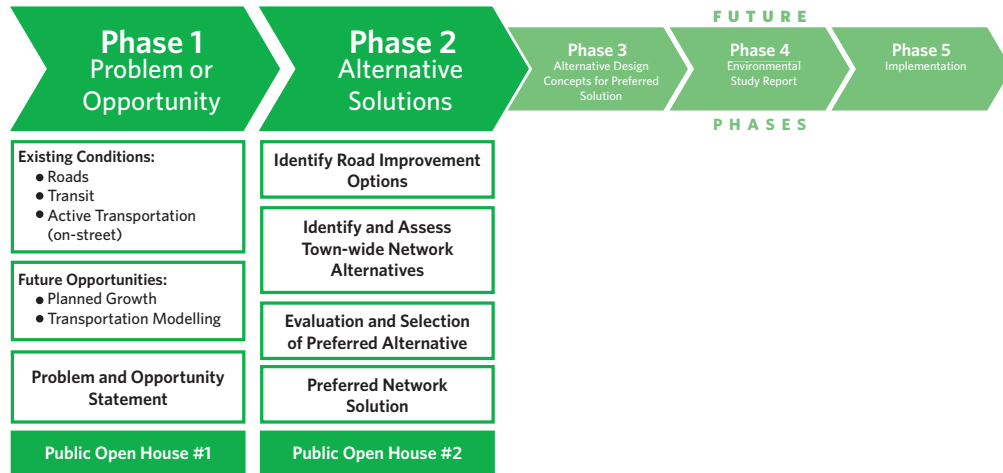
Ultimately, this multimodal vision for transportation will ensure that the Town is a safe, accessible, and livable community in the future

What do you think of this draft Vision Statement?

Place a **green dot** if you like it, and a **red dot** if you think it needs improvement. Comments can also be provided on **post-it notes**.

Thank you for attending Public Information Centre 1

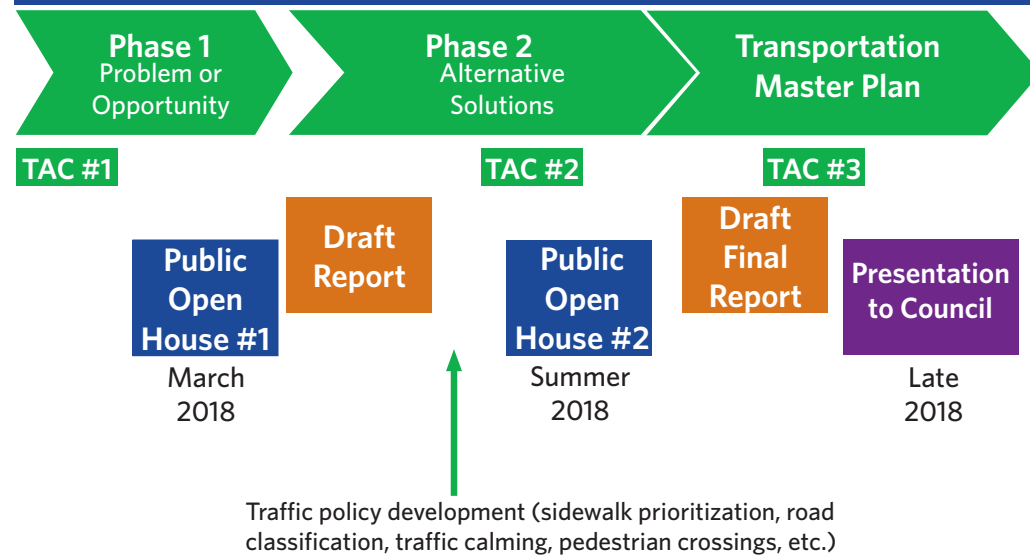
Next Phase



Next Phase

Following Master Plan Process
(Municipal Class Environmental Assessment, 2007, 2011, and 2015)

Study Schedule



Keep Informed, Get Involved, and Contact Us



Please fill out a **comment form** and return it to us today or provide your comments online by **March 30, 2018**.



For more information, visit us at:

www.eastgwillimbury.ca/projects

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Town of East Gwillimbury

Station 3

Water and Wastewater Master Plan Update

The Town of East Gwillimbury has retained WSP to update their **Water and Wastewater Master Plan**, in order to ensure accommodation of the expected population of developments to increase to the year 2041. As a result of this growth, **safe, efficient, and reliable** supply of water and wastewater services to the Town will become increasingly important and challenging, and the Town's water and wastewater systems will need to be expanded as necessary to accommodate this growth. The Master Plan provides a **'roadmap'** of water and wastewater infrastructure requirements based on existing and future capacity deficiencies identified, as well as associated cost details and recommended implementation timing.

◀ OBJECTIVES ▶

- Complete a comprehensive **review of background documentation**, existing water and wastewater system and key relevant studies
- Calculate the future water and wastewater flows based on **future expected populations** provided by York Region
- Review and **update** the Town's current **water and wastewater models** based on existing infrastructure and population (**Boards 9 and 10**)
- Identify **opportunities and constraints** to improve the water and wastewater network based on existing and future populations.
- Develop **alternative water and wastewater servicing solutions** for future growth scenarios
- **Evaluate** the alternatives, using a set of criteria determined as part of the Master Plan, to arrive at preferred water and wastewater servicing solutions (**Board 7**)
- Prepare **cost details and implementation timing** for recommended servicing strategies.

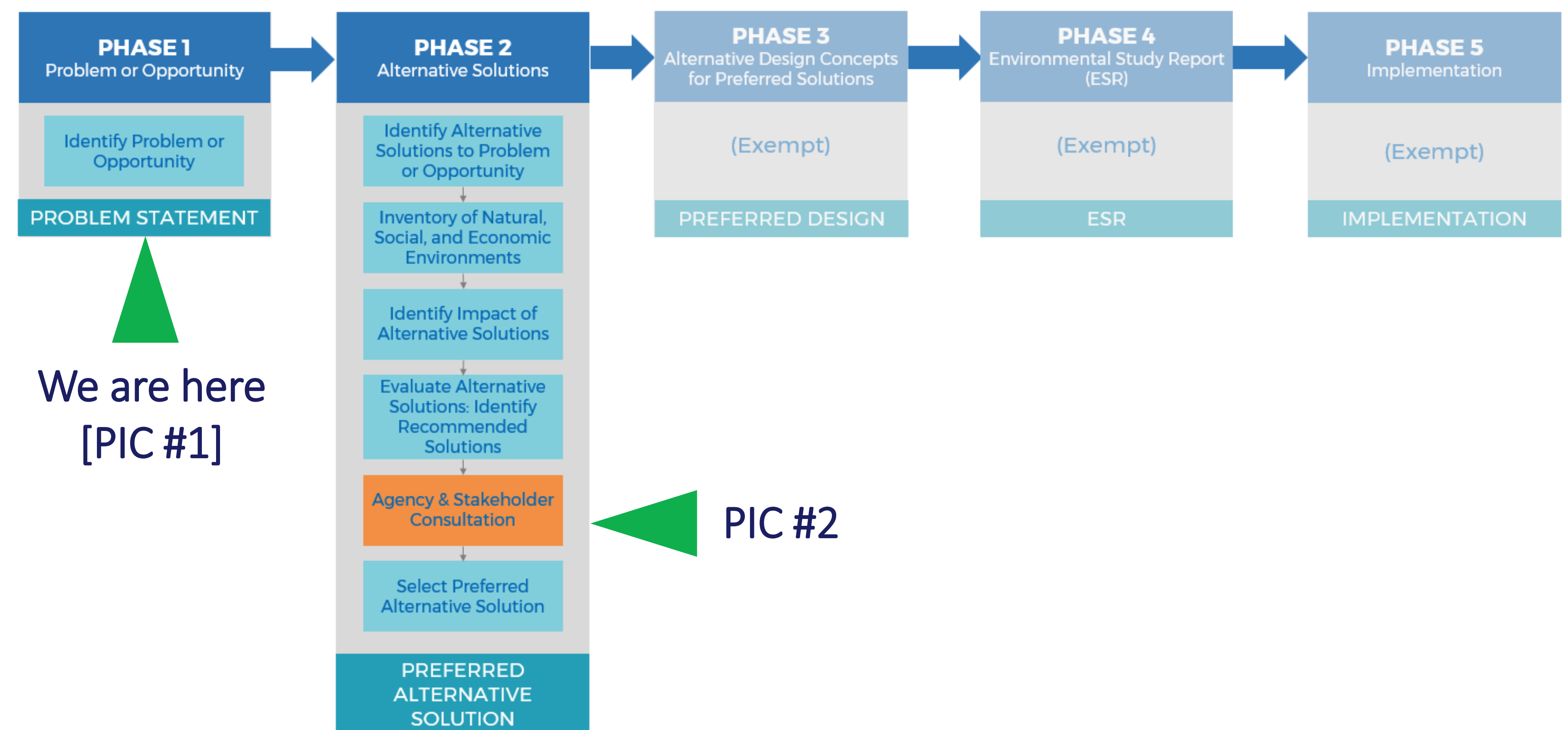
The Municipal Class Environmental Assessment (EA) under the Ontario Environmental Assessment Act was approved in 1990 as a way to streamline the planning of municipal infrastructure. The process was designed to protect the environment, receive stakeholder and resident feedback, and ensure a transparent evaluation and decision process. The Municipal Class EA Planning and Design process include a total of 5 phases. The required phases to be completed are based on the type of study that is being conducted.

At a minimum, a Master Plan must follow the first 2 phases. Phases 3 through 5 are usually completed as part of a separate process when the time comes to implement the projects.

◀ MASTER PLANNING PROCESS ▶

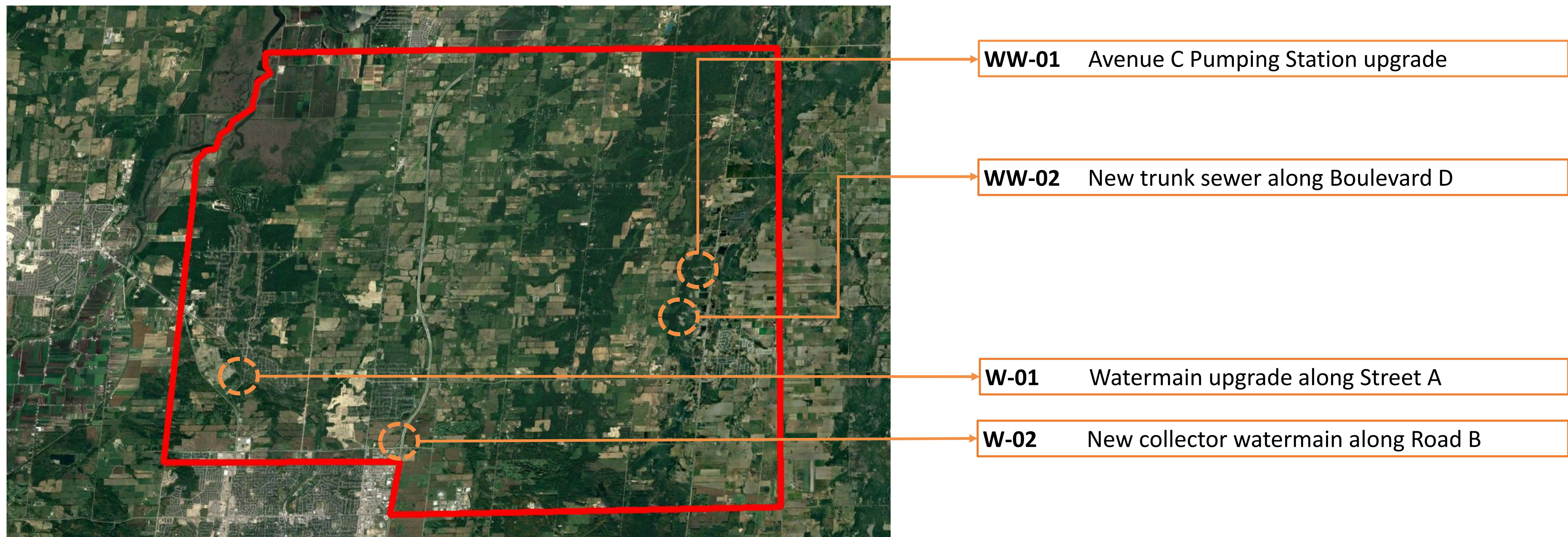
A Master Plan is a **long term** plan which integrates infrastructure requirements for existing and future land use. The study will provide the framework for planning and subsequent projects and/or development. At the end of the study, the key deliverables will be:

- The completed Master Plan Report documenting the process and analyses that were conducted;
- A list with high-level cost estimates of future infrastructure projects for the Town of East Gwillimbury; and
- A map indicating where these future infrastructure projects will be located.



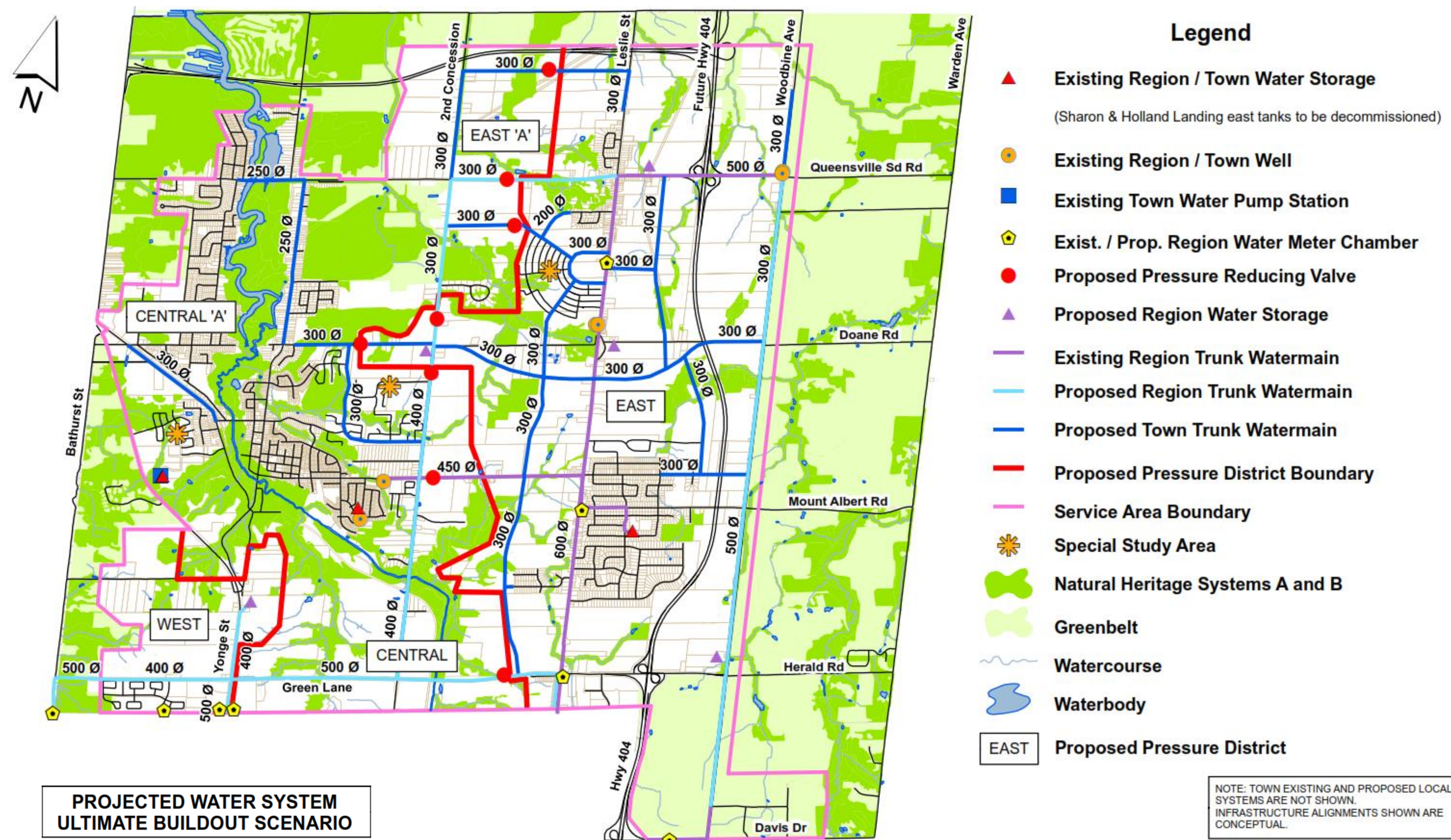
The following table and figure are **illustrative examples** of the final products the Town will receive when the study has been completed.

PROJECT NO.	ESTIMATED YEAR REQUIRED	PROJECT	DESCRIPTION	ESTIMATED COSTS	CLASS EA SCHEDULE	TRIGGER
W-01	2017 - 2022	Watermain upgrade along Street A	Capacity expansion	\$100,000	Schedule 'B'	To accommodate a population of 10,000 in Community A
W-02	2036 - 2041	New collector watermain along Road B	Capacity expansion	\$400,000	Schedule 'C'	To accommodate a population of 2,000 in Community B
WW-01	2017 - 2022	Avenue C Pumping Station upgrade	Capacity expansion	\$200,000	Schedule 'B'	To accommodate a population of 15,000 Community C
WW-02	2031 - 2036	New trunk sewer along Boulevard D	Capacity expansion	\$350,000	Schedule 'C'	To accommodate a population of 8,000 in Community D



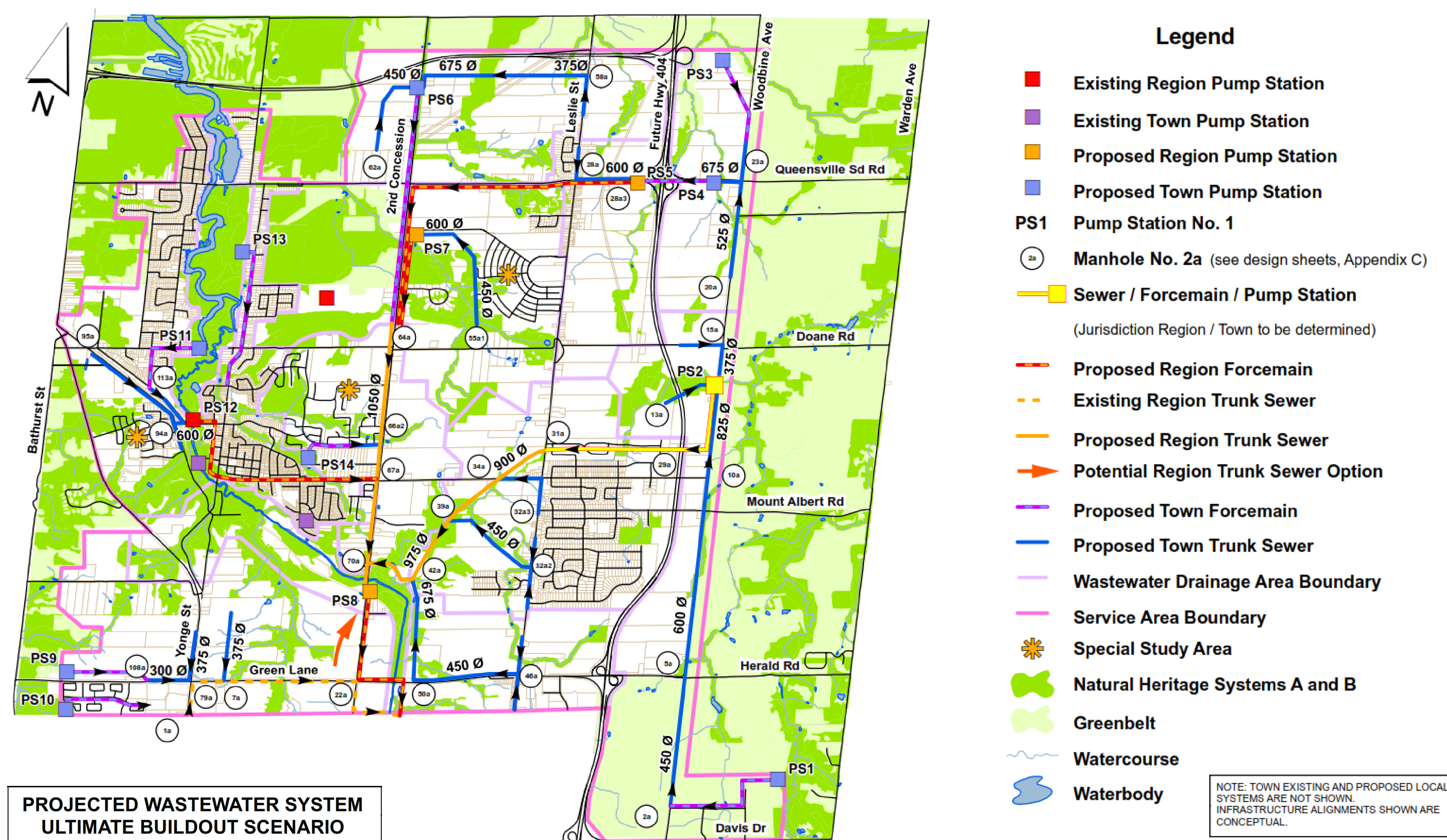
The following figure has been taken from the previous **Town of East Gwillimbury Water and Wastewater Master Plan (2009)** as an **illustrative example** of what one of the final maps of the proposed upgrades to the East Gwillimbury water system could look like.

The map below shows the recommended water system for the ultimate buildout scenario (as recommended in 2009) based on projected population growth in the communities.



The following figure has been taken from the previous **Town of East Gwillimbury Water and Wastewater Master Plan (2009)** as an **illustrative example** of what one of the final maps of the proposed upgrades to the East Gwillimbury wastewater system could look like.

The map below shows the recommended wastewater system for the ultimate buildout scenario (as recommended in 2009) based on projected population growth in the communities.



General alternative solutions are listed below. Detailed alternative solutions will be generated on a case-by-case review of the Town's water and wastewater systems, and may include a combination of the alternatives listed below. This will take place at a later time in the Master Planning process and will be presented at the second Public Consultation Session.

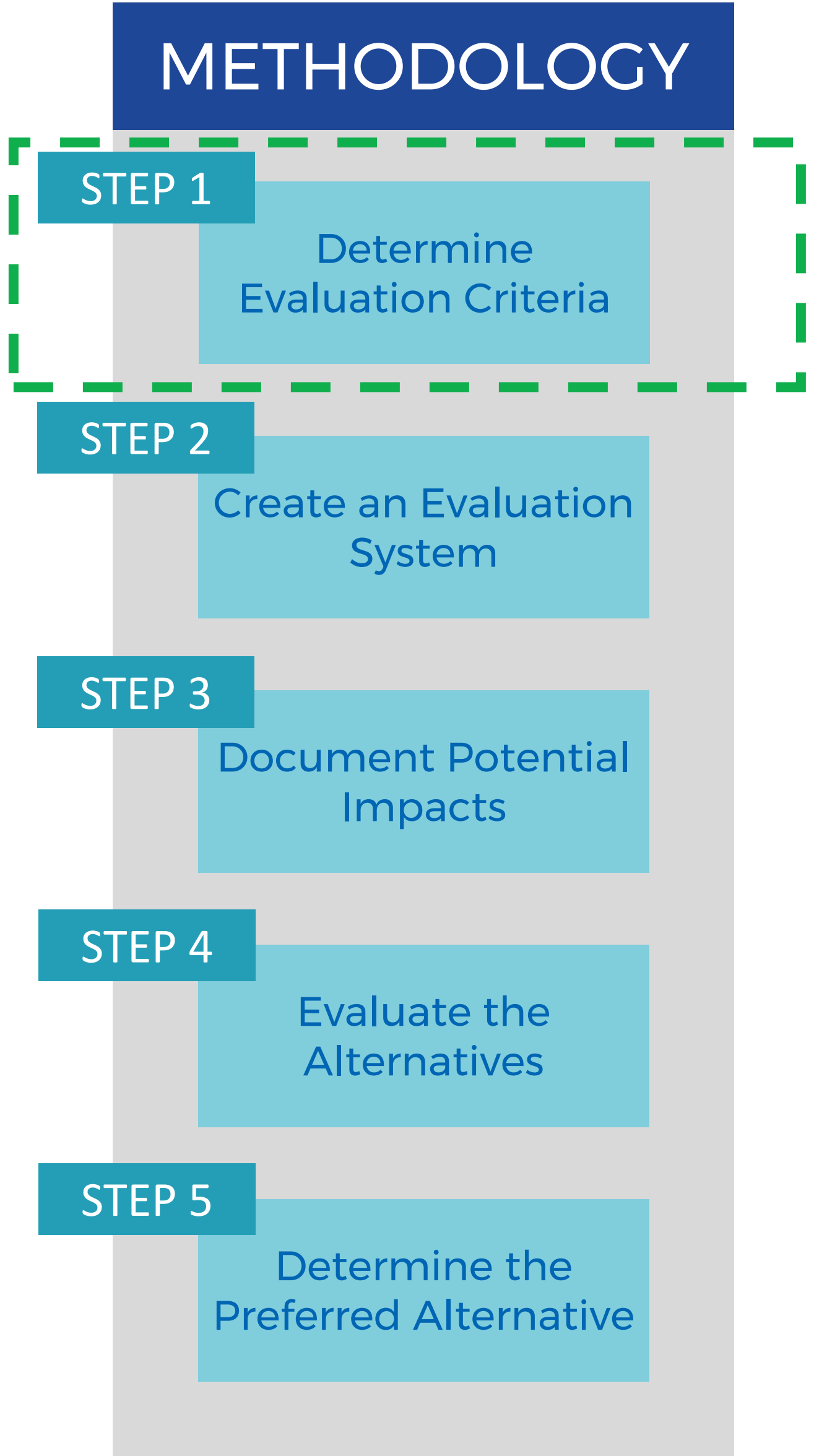
◀ WATER ▶

- Do nothing
- Repair or replace watermains
- Upgrade the existing water distribution network
- Expand system to accommodate growth

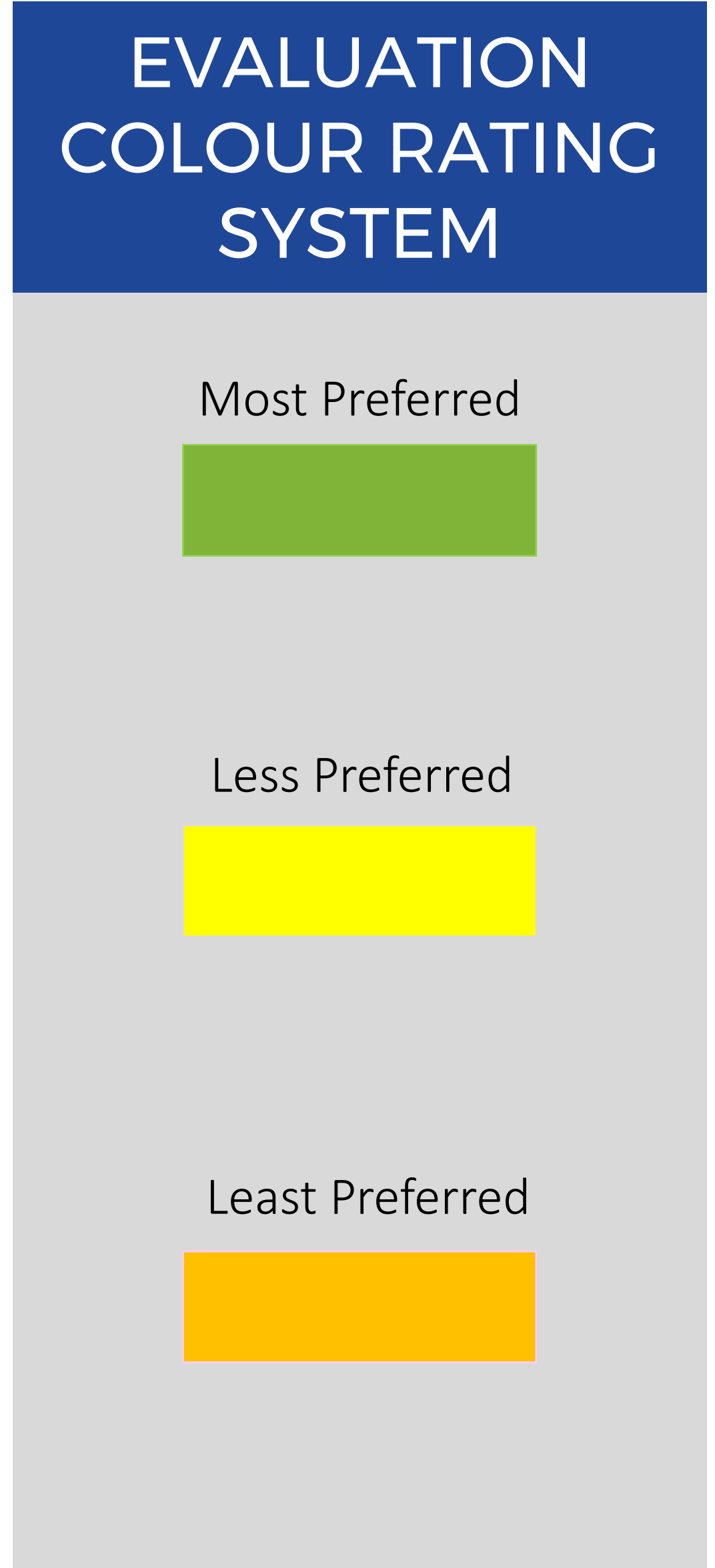
◀ WASTEWATER ▶

- Do nothing
- Repair or replace sewers
- Upgrade or construct new pumping stations
- Upgrade the existing wastewater conveyance network
- Expand system to accommodate growth

Alternative Solutions Based on the Following Criteria



<h4>NATURAL ENVIRONMENT</h4> <ul style="list-style-type: none"> Proximity to environmentally sensitive and designated natural areas (e.g. Oak Ridges Moraine, Greenbelt) Impact on existing natural environment feature (e.g. Species at Risk) Impact on Areas of Natural and Scientific Interest (ANSI) Impact on watercourses and aquatic habitat 	<h4>SOCIAL & CULTURAL</h4> <ul style="list-style-type: none"> Impact to water quality, built heritage areas and areas or archaeological importance Aesthetic impact on existing and proposed development Consistency with Land Use designations, approved Development Plans, and proposed Land Use changes Traffic impacts during construction
<h4>TECHNICAL</h4> <ul style="list-style-type: none"> Constructability, duration of construction and site access Ease of connection to existing infrastructure and ease of modifications required to existing infrastructure System reliability, redundancy and hydraulic performance Maintaining or enhancing security of supply 	<h4>ECONOMIC</h4> <ul style="list-style-type: none"> Capital costs Operations and maintenance costs



A major component of the Master Planning process is consultation with the public, agencies, and First Nations communities that may be affected by the proposed infrastructure projects. Stakeholders include:

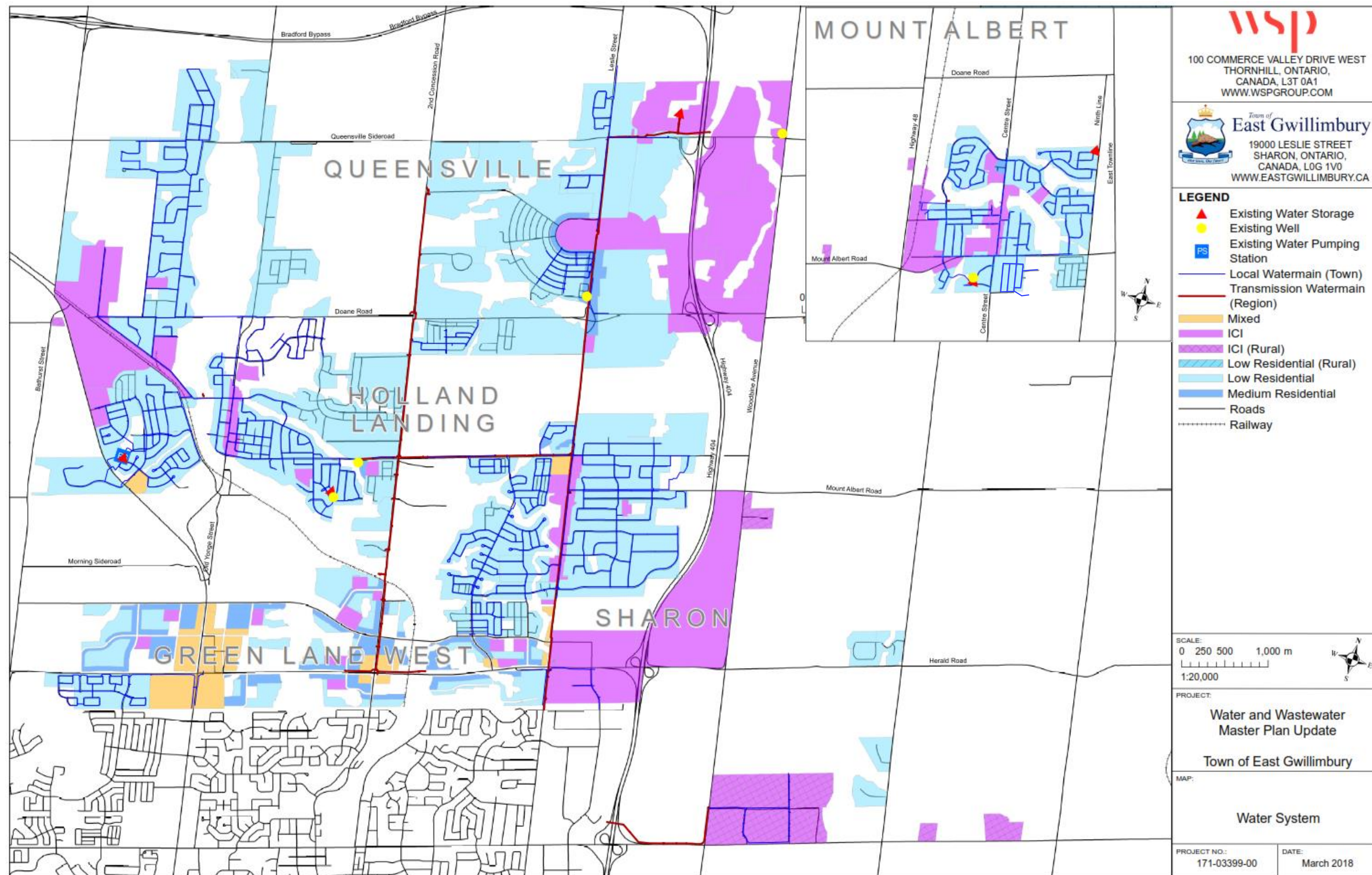
• First Nations Communities	• Federal/Provincial Authorities
• Environmental Agencies	• Residents
• Neighbouring Municipalities	• Employers/Employees
• Developers	

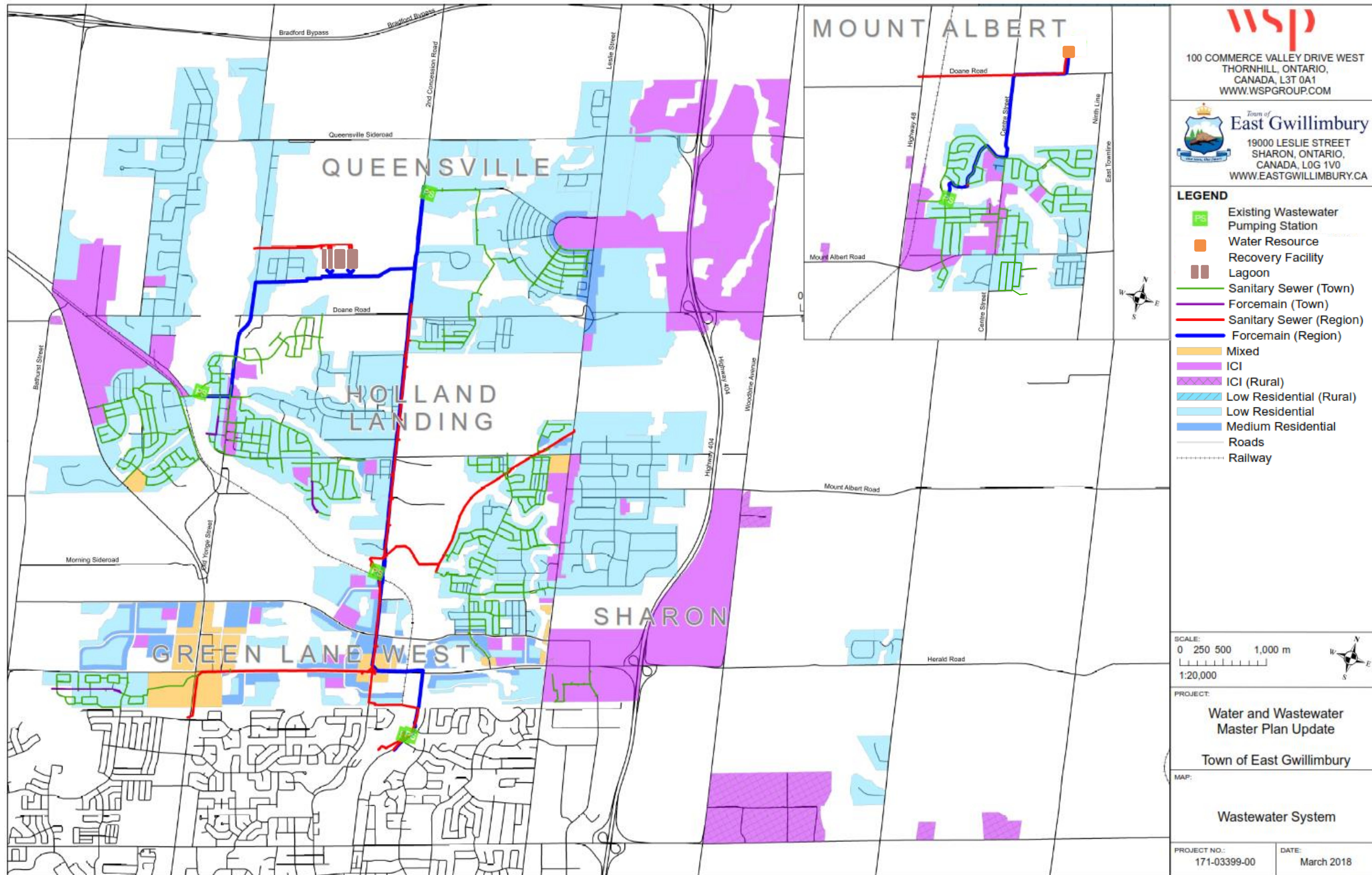


Although your input is valued and will be considered during **all** phases of the project, there are specified milestones where you can provide your feedback. Notices will be sent out two weeks in advance of the following milestones:

- PIC #1 (**We are here**)
- PIC #2 (Expected in Summer 2018, prior to selecting preferred alternative solution)
- 30-day Review Period after the filing of the final Master Plan document
- The Master Plan document will be available for review once filed in the Town offices and on the project website.

We encourage you to submit your feedback and join the project mailing list. Contact information for the **Water and Wastewater Master Plan Update** can be found on **Board 11**.





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- LEGEND**
- Existing Wastewater Pumping Station
 - Water Resource
 - Recovery Facility
 - Lagoon
 - Sanitary Sewer (Town)
 - Forcemain (Town)
 - Sanitary Sewer (Region)
 - Forcemain (Region)
 - Mixed
 - ICI
 - ICI (Rural)
 - Low Residential (Rural)
 - Low Residential
 - Medium Residential
 - Roads
 - Railway

SCALE:
 0 250 500 1,000 m
 1:20,000

PROJECT:
**Water and Wastewater
 Master Plan Update**
 Town of East Gwillimbury

MAP:
Wastewater System

PROJECT NO.: 171-03399-00
 DATE: March 2018

◀ STAY INFORMED ▶

Please sign-in to receive future meeting notices.

Stay informed by visiting our project webpage:

<http://eastgwillimbury.ca/projects>

If you would like to submit your comments directly to the Study Team, please contact:

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Thursday, March 22nd, 2018 @ East Gwillimbury Sports Complex, Canada Hall

