

Thorncrest Village Neighbourhood Improvements

2018 - 2020

Public Drop-In Event

Thorncrest Village Clubhouse

February 27th 2018

Drop-In From 3:30 – 5:00 or 7:00 – 9:00

Purpose of the Drop-In Event

- The purpose of today's drop-in event is to present background information and a **proposed** construction timeline for the improvement projects in Thorncrest Village
- We invite you to:
 - Discuss your questions/concerns with City staff at this meeting
 - Fill out a feedback form, so that we may consider your input



Feedback Form

Thorncrest Village Neighborhood Improvements Public Drop-in Event: February 27, 2018

Thank you for attending and participating in this drop-in event. Please complete this feedback form so we can learn more about your thoughts and opinions regarding the neighbourhood improvements proposed for Thorncrest Village. All comments will be considered.

Please submit your comments today or by March 13, 2018. Today's materials will also be made available on www.toronto.ca/thorncrestvillageimprovements

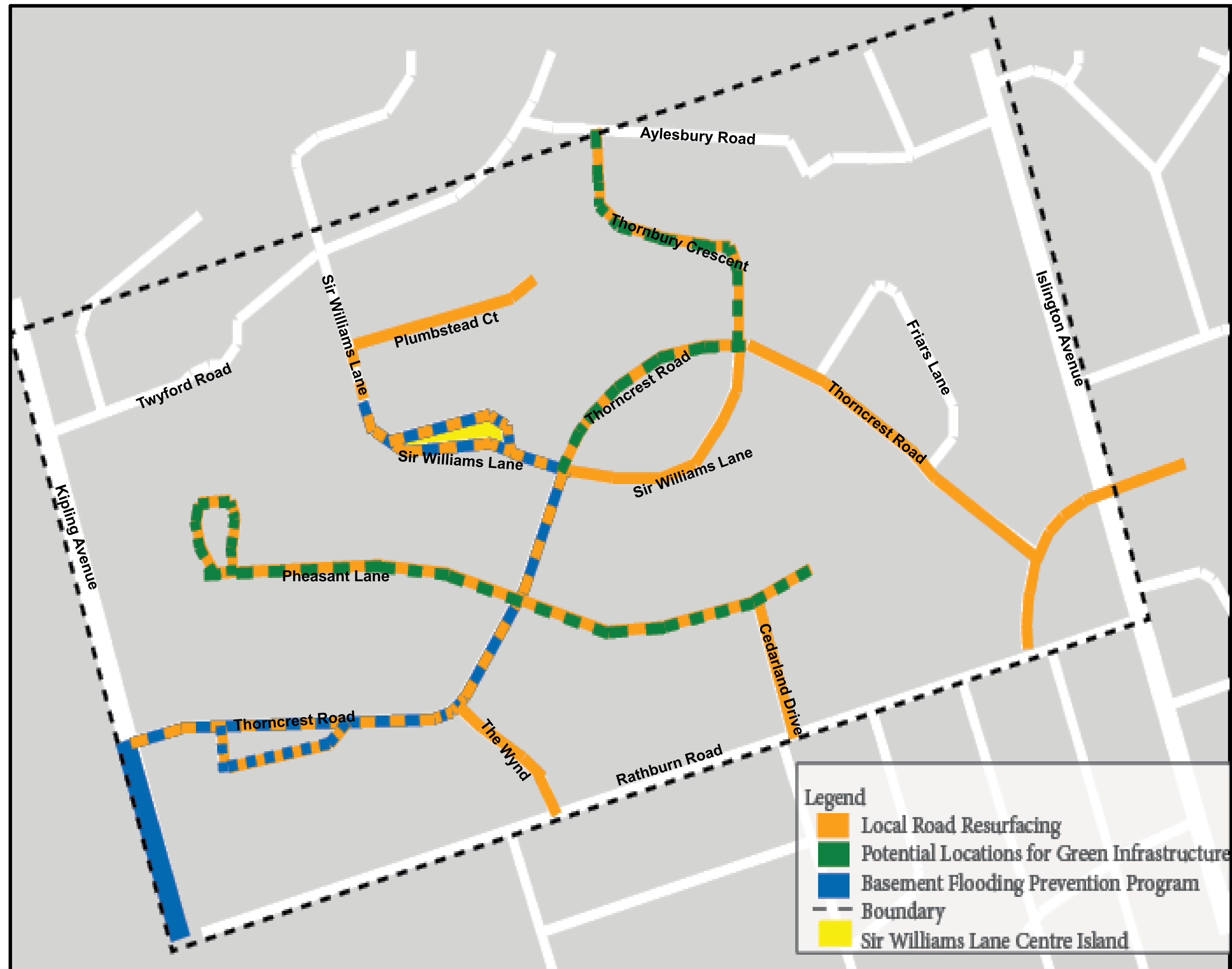


Coordination of Works

- The timing for the Basement Flooding Protection Program upgrades will be coordinated with the Local Road works happening in the area
- Construction and implementation of Green Infrastructure will happen in conjunction with the Local Road works
- Specific dates and construction limits will be communicated in a pre-construction and construction notice, to be distributed in advance of the works start date



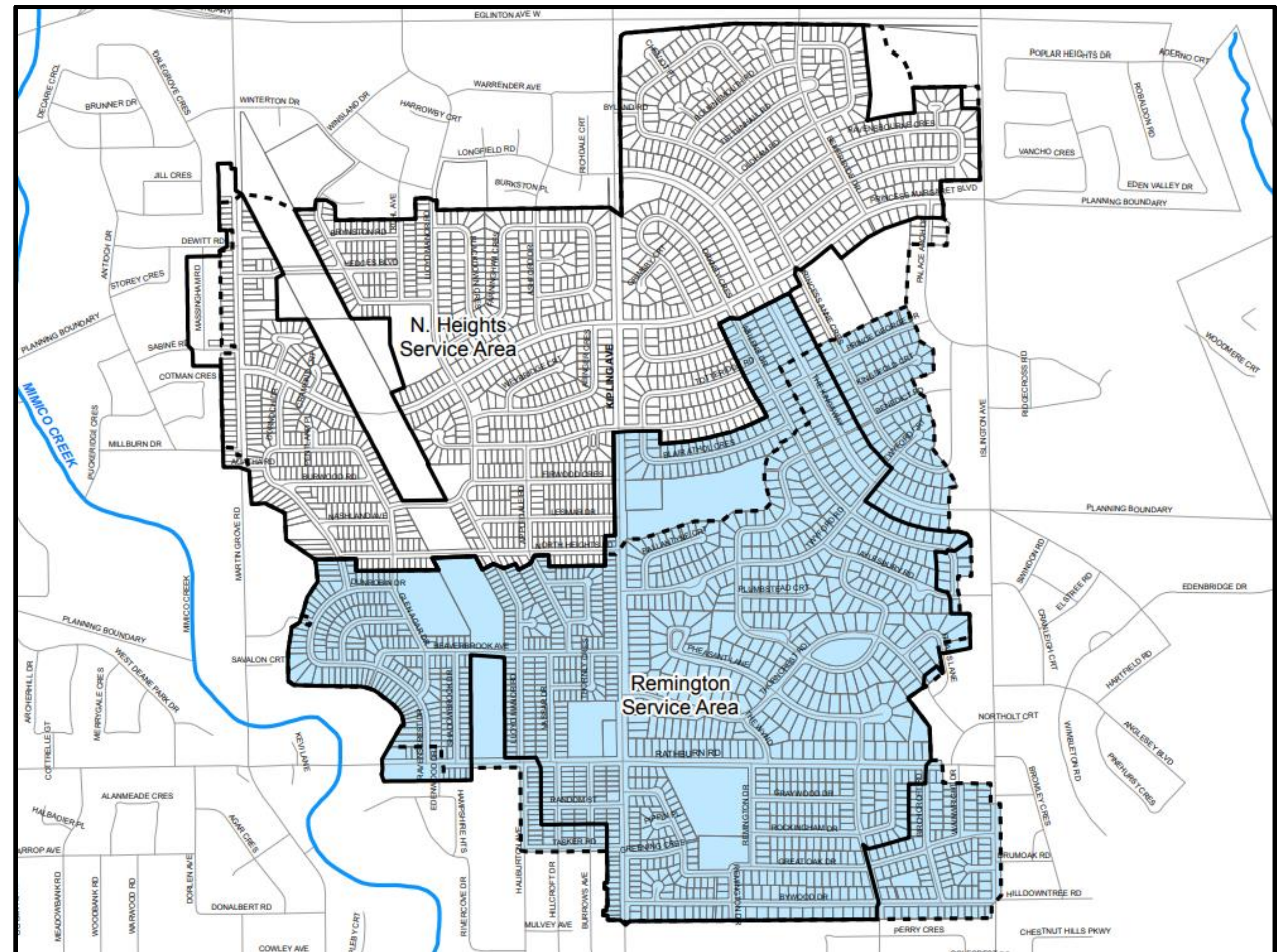
Schedule of Improvements



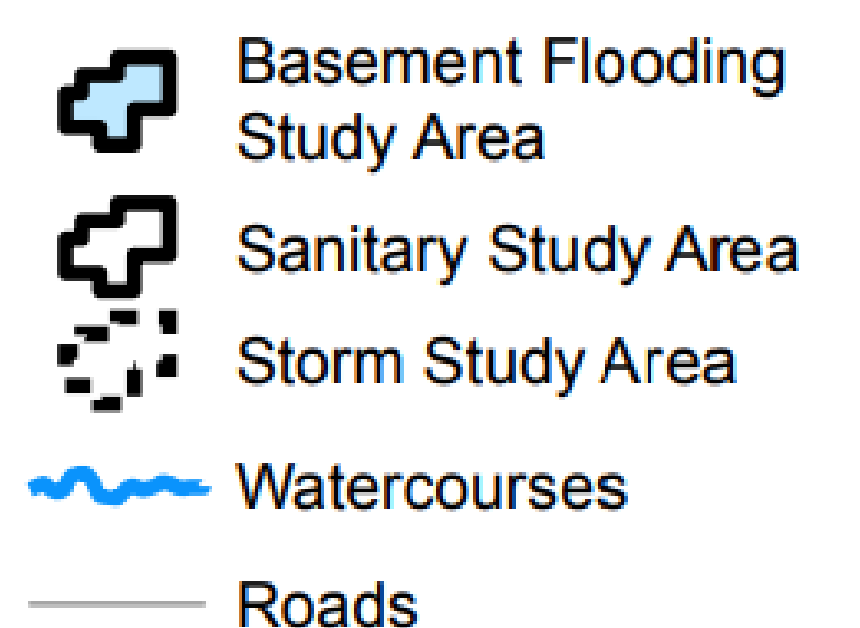
- Local Road Resurfacing Work: 2018-2019
- Green Infrastructure Implementation: 2019
- Basement Flooding Protection Program Work: 2018-2020

Basement Flooding Protection Program

- The Area 8 Basement Flooding Study was completed in July 2012
- It recommended upgrades to sanitary and storm sewers on several streets within Thorncrest Village
- The improvements to the sewer system and overland drainage will help reduce the risk of future flooding

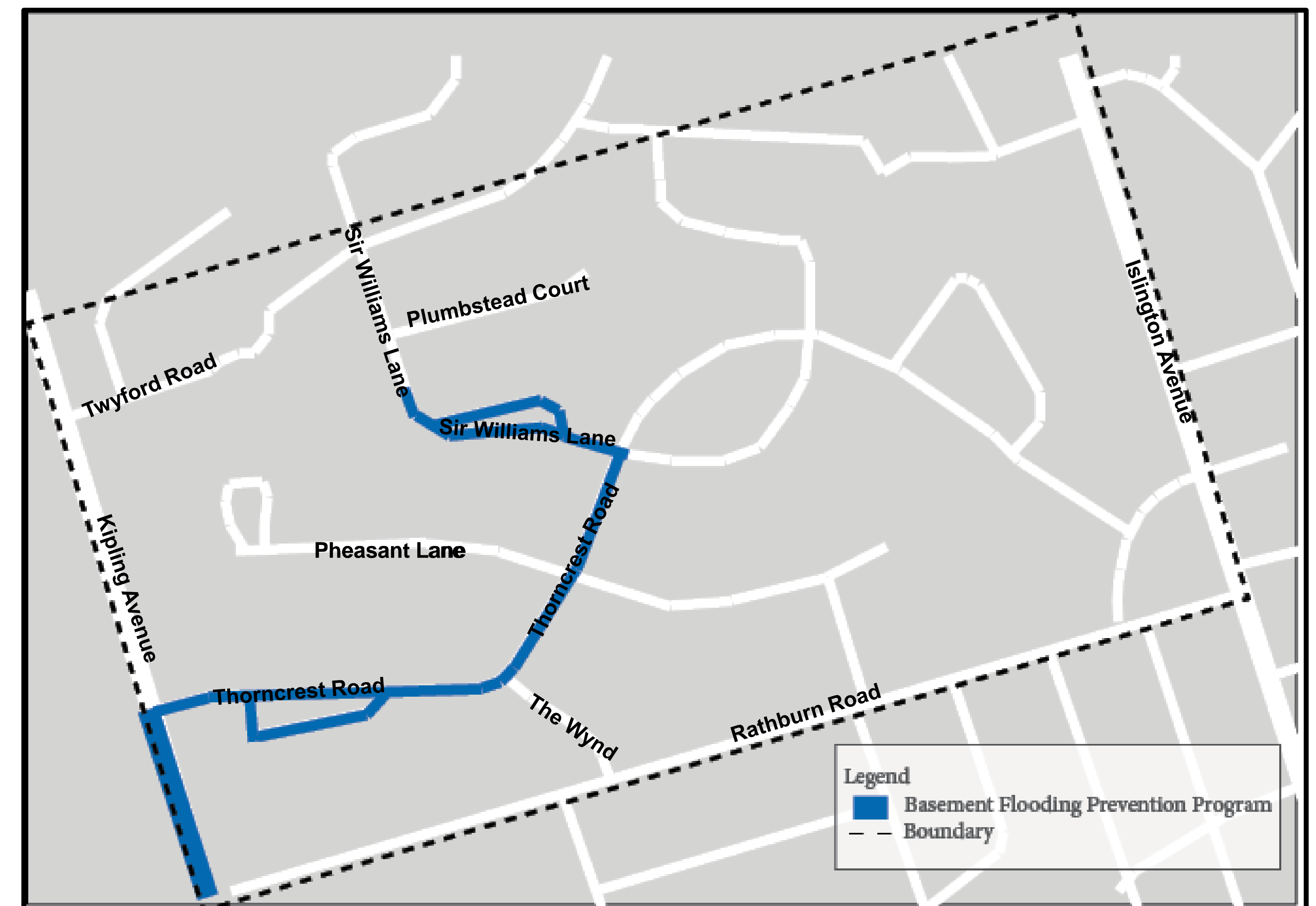


Study Area 8



Basement Flooding Protection Program Work

- Work will be delivered in the study area from **2018 to 2020**
- The proposed scope of work involves upgrades to the watermain, storm and/or sanitary sewers on:
 - **Thorncrest Road** from Kipling Avenue to Sir Williams Lane
 - **Sir Williams Lane** from Plumbstead Court to Thorncrest Road
 - **Kipling Avenue** from Rathburn Road to Thorncrest Road



Map of BFPP Work Area

Sir Williams Lane Centre Island

- The island in the centre of Sir Williams Lane will be remediated when the Basement Flooding Upgrades are complete
- The work to the centre island was delayed so that improvements would coincide with the completion of the Basement Flooding Protection Program and Local Road works
- The centre island improvements include:
 - A grass boulevard
 - A border around the island made with armour stones



Existing Condition of Sir Williams Lane

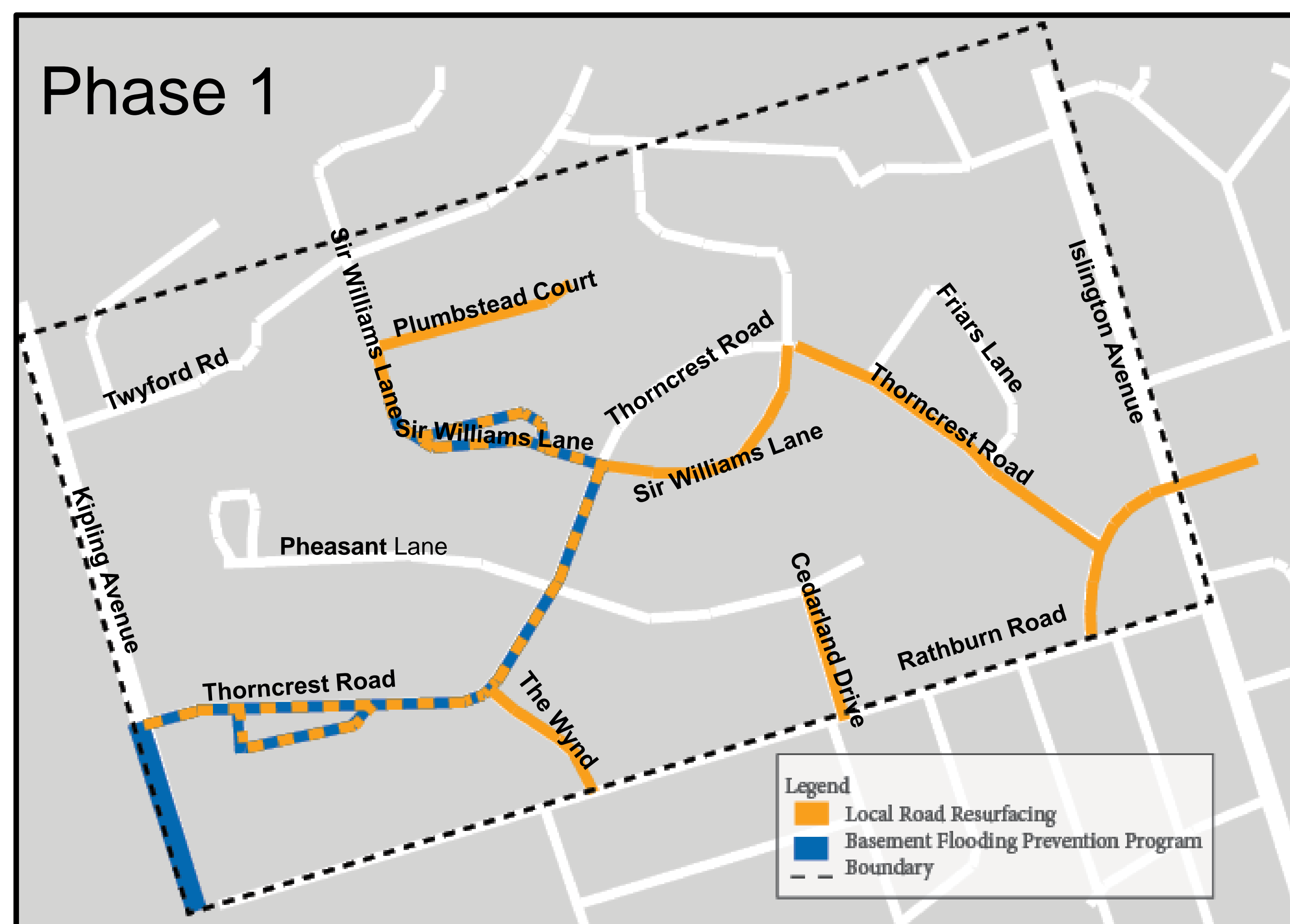
Local Road Resurfacing

- The following roads in Thorncrest Village are in need of resurfacing to bring them to a state of good repair:
 - Thornbury Crescent
 - Thorncrest Road
 - The Wynd
 - Sir Williams Lane
 - Pheasant Lane
- **Work is expected to begin in Fall 2018 and will be completed in two phases**
- If there is a specific consideration in relation to your property that the City should be aware of, please let us know

Local Road Resurfacing

Phase 1:

- The City's contractor will:
 - Repair and rehabilitate the asphalt and its underlying support materials; and,
 - Repave the road surface
- The contractor will pause their work during the winter months, and resume in **Spring 2019**



Phase 2:

- The City's contractor will continue their road resurfacing work and implement Green Streets Infrastructure
- Work is expected to be **completed by Summer 2019**

Green Streets Infrastructure

In coordination with the Local Roads work, the City will implement Green Streets Infrastructure in Thorncrest Village.

What are Green Streets?

- A road or street that incorporates Green Infrastructure
- Green Infrastructure includes natural and human-made elements: trees, native plants, and low impact development (LID) stormwater technologies, such as bioswales, rain gardens and bioretention cells



Green Streets Examples – Bioretention Infrastructure

Importance of Green Infrastructure

Green Infrastructure provides many benefits including:

- Improved air quality
 - Increased tree canopy and shade
 - Improved management of stormwater quality and flow
 - Improved biodiversity and habitats for animals
-
- As well, the implementation of Green Infrastructure in Thorncrest Village can offer residents enhanced, beautified community spaces



Green Infrastructure Examples

The Queensway Sustainable Sidewalk



Date of Construction: 2008
Green Infrastructure: Silva Cells, Tree Trenches

South Station Street



Date of Construction: 2015
Green Infrastructure: Bioretention, Trench Drain System

Fairford Parkette



Date of Construction: 2015
Green Infrastructure: Bioretention Cell

3rd Street, Mississauga



Date of Construction: 2012
Green Infrastructure: Bioswales

Green Infrastructure Implementation

- As Thorncrest Village is scheduled for Local Road works and Basement Flooding Protection Program work, there was an opportunity to install Green Infrastructure
- The roads in Thorncrest Village have the appropriate conditions for the installation of Green Infrastructure
- Rain gardens, bioswales, and bioretention cells are being considered for implementation in the right-of-way, the centre median or on roadway islands
- Installation will begin in 2019



**Tell us what you think about Green
Infrastructure implementation in your
neighbourhood!**

Green Infrastructure Consideration: Rain Gardens

Features:

- Shallow depression that has loose soil that collects stormwater that runs off your property
- Prevents the storm water from entering the storm drain system and, eventually, waterways
- Several species of grasses and flowering plants can be selected for planting based on their suitability with local planting conditions



Rain Garden Filtration Example

Benefits:

- Less water enters the storm sewer system
- Provides habitat for pollinators and birds

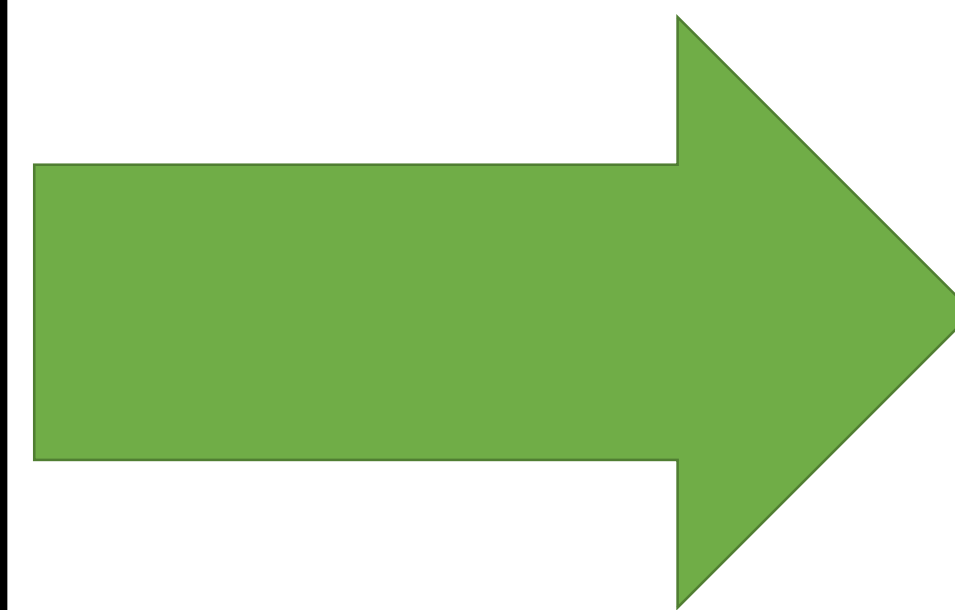
Green Infrastructure Consideration: Bioswales

Features:

- Bioswales slow and filter stormwater to prevent it from entering the drain system
- They can either be planted with grasses, or finished with more elaborate combinations of plant and aggregate materials



Suburban Road



Green Infrastructure Example: Bioswales for ditched roads

Benefits:

- Designed to manage runoff from a larger impervious area, such as a roadway or parking lot

Green Infrastructure Consideration : Bioretention Cells

Features:

- The construction profile generally consists of the following:
 - Vegetation/plant layers
 - Mulch layer
 - Gravel storage layer
 - Underdrain

Benefits:

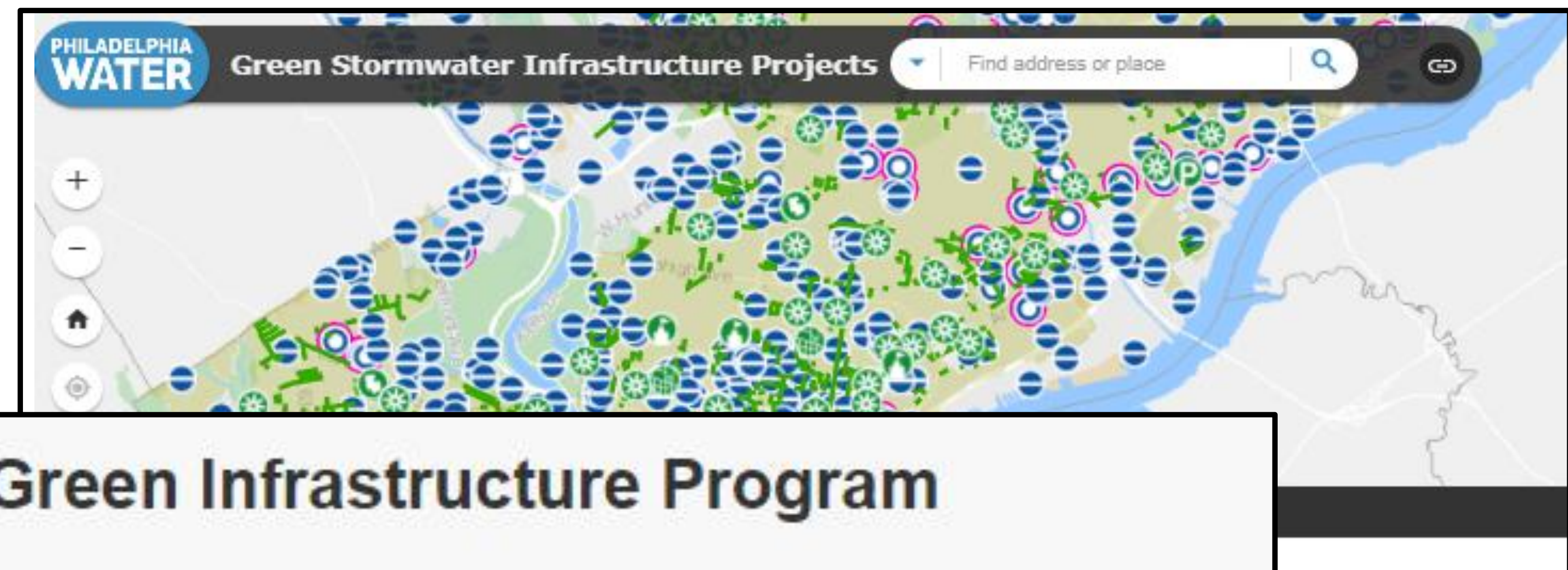
- Provides temporary storage, filtration, and infiltration of stormwater
- Provides habitat for pollinators and birds



Green Infrastructure Example: Bioretention Cell

Key Facts

- The City will perform all specialized maintenance of Green Infrastructure in the right-of-way
- The City will hire consultants to monitor the effectiveness of the Green Infrastructure
- Other North American Cities with Green Infrastructure Programs include:
 - New York City
 - Seattle
 - Philadelphia
 - Washington
 - Chicago
 - Vancouver



Next Steps for Green Infrastructure Implementation

Spring 2018:

- The City will hire Consultants to identify and propose the most suitable sites for Green Infrastructure in order to maximize the treatment of stormwater
- Consultants will review road and right-of-way conditions to determine the suitable type of Green Infrastructures for the observed conditions

Fall 2018:

- Residents will be re-engaged to provide feedback once this information is available

2019:

- Construction and implementation of Green Infrastructure after the completion of Basement Flooding Protection Program work and in conjunction with Local Road works

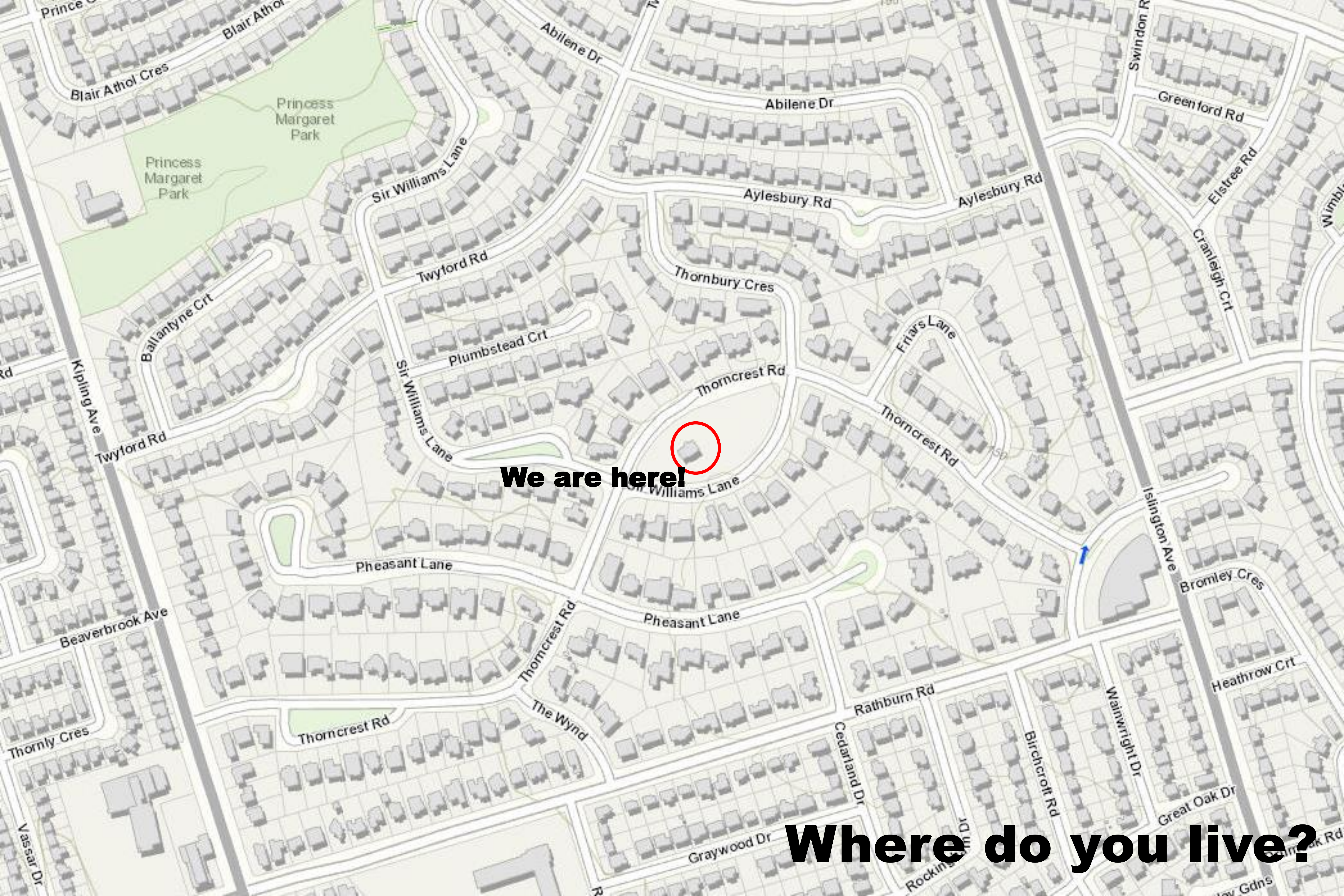
Get Involved

There are multiple ways to stay informed and get involved with the work happening in Thorncrest Village

Sign up for the project mailing list: This will provide general updates about the project. Sign up by signing in for today's event.

Volunteer: If you are a resident in the project area interested in learning more about the Green Infrastructure technologies, call or email: Khatija Sahib, khatija.sahib@toronto.ca, 416-392-2962

www.toronto.ca/thorncrestvillageimprovements



We are here!

Where do you live?