

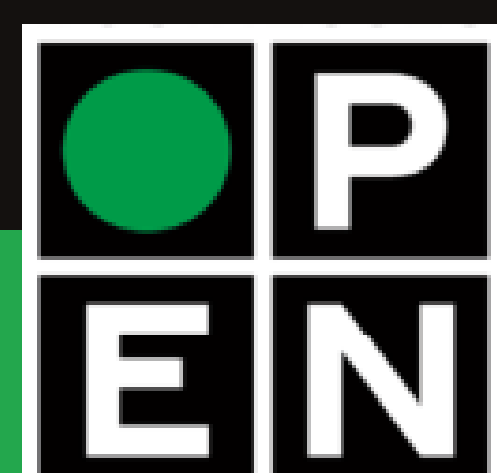
Town of Erin

Town of Erin Council
July 13, 2023

Erin Wastewater System Project Update

Nick Colucci, P.Eng.
Director of Infrastructure Services
and Engineer

BUSINESSES ARE
OPEN
DURING CONSTRUCTION



www.erin.ca

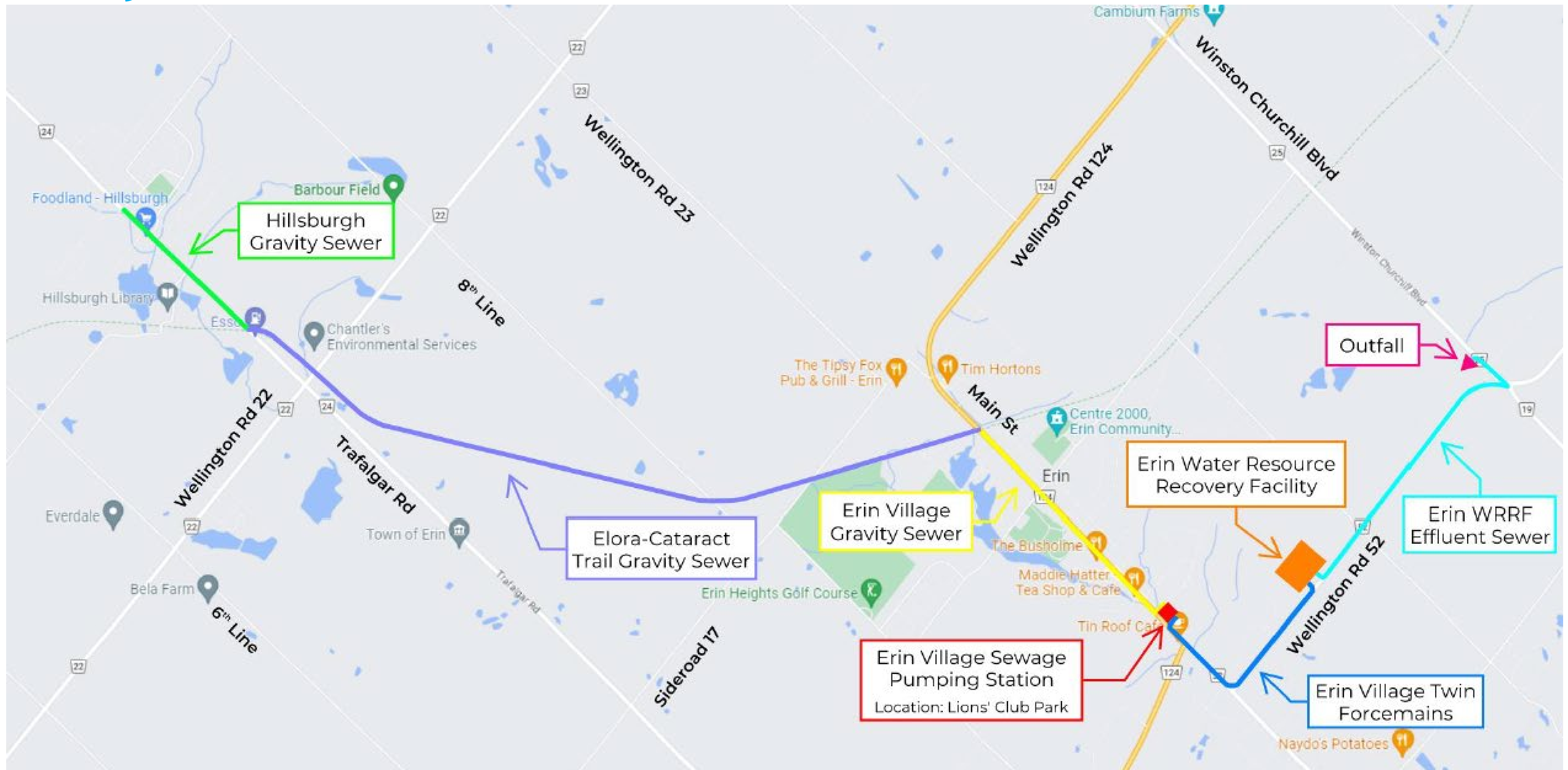


AGENDA

- Construction Update
- Communication Strategy
- Future Work
- Questions

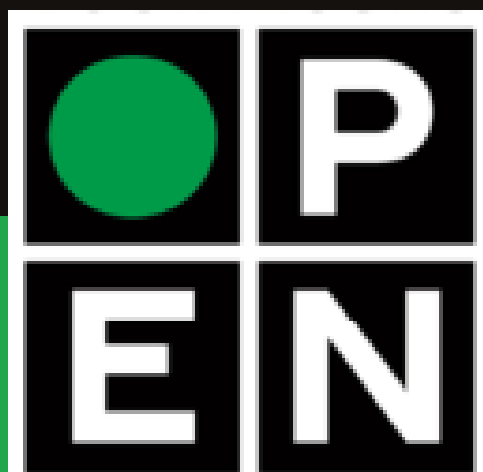
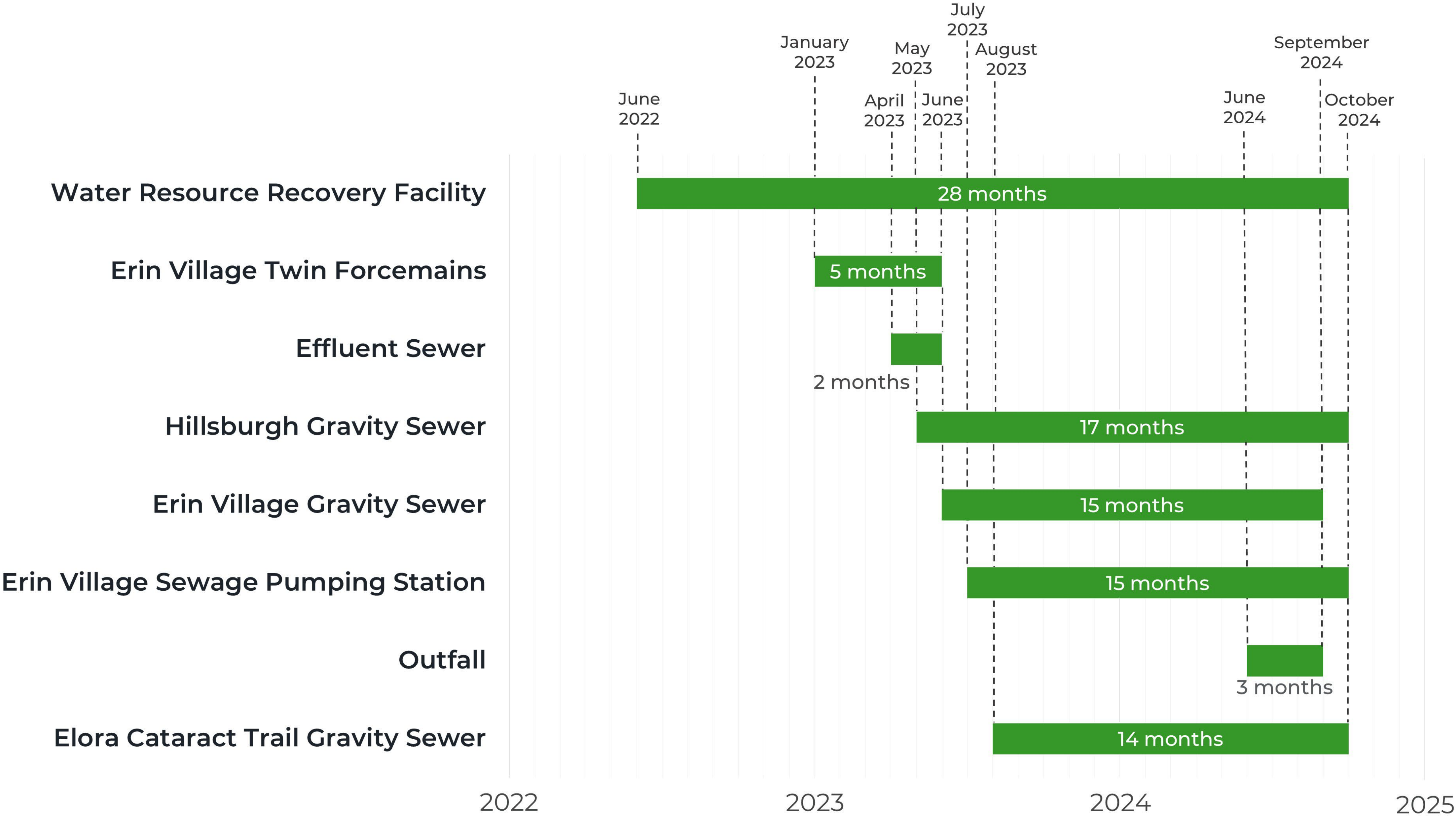


Erin Wastewater System Project Overview



Erin Wastewater System

Anticipated Construction Schedule

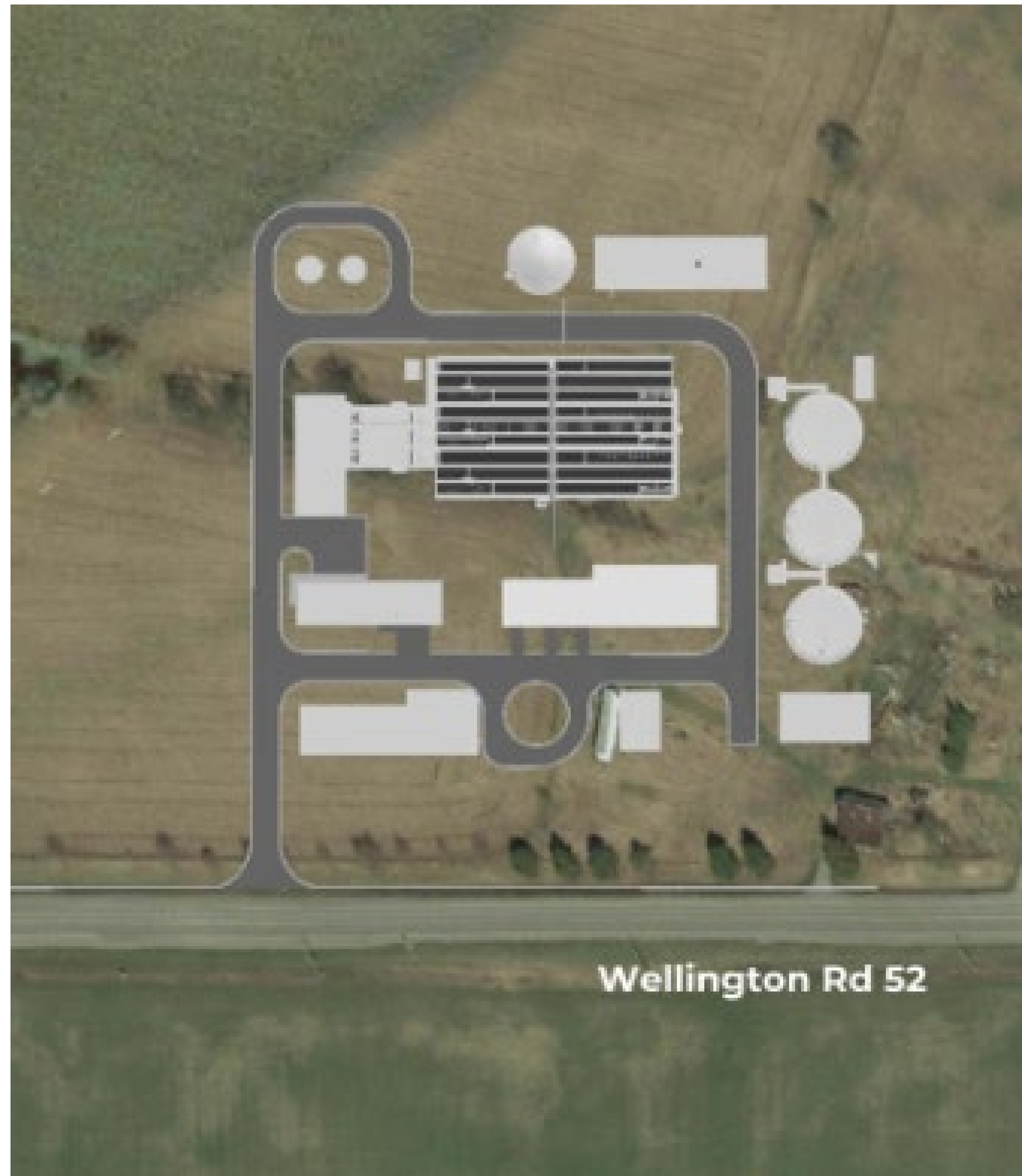


www.erin.ca

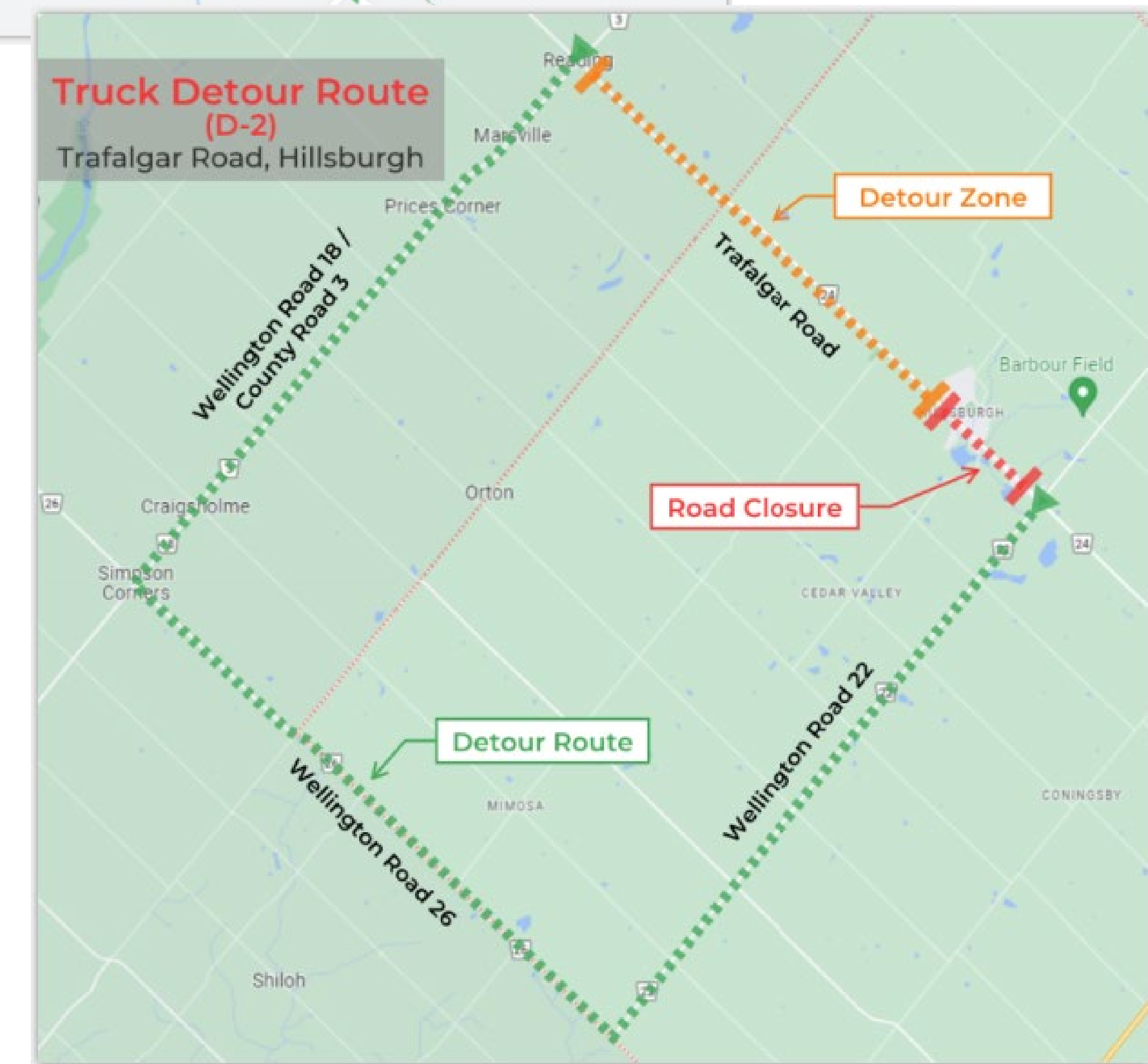
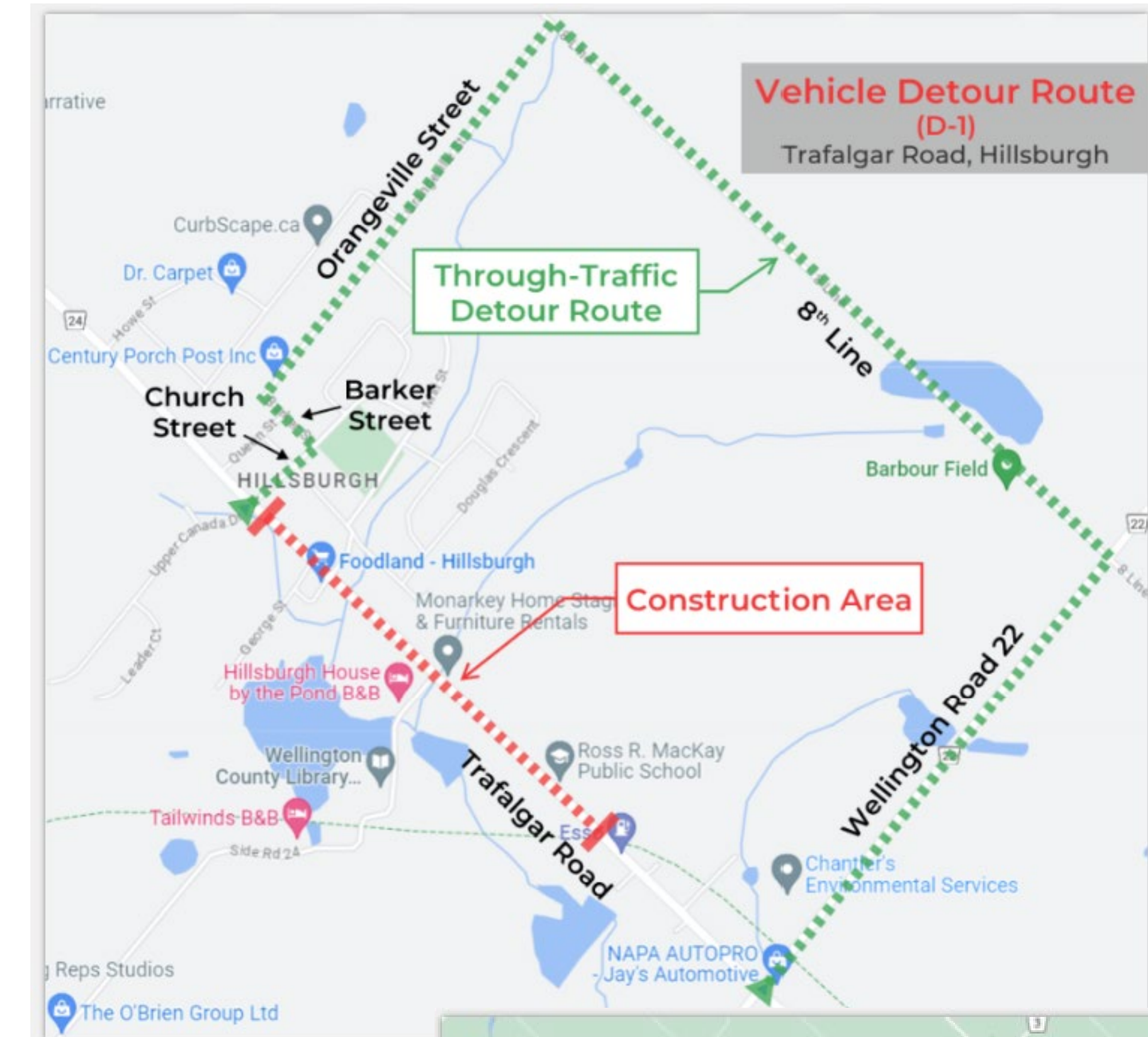
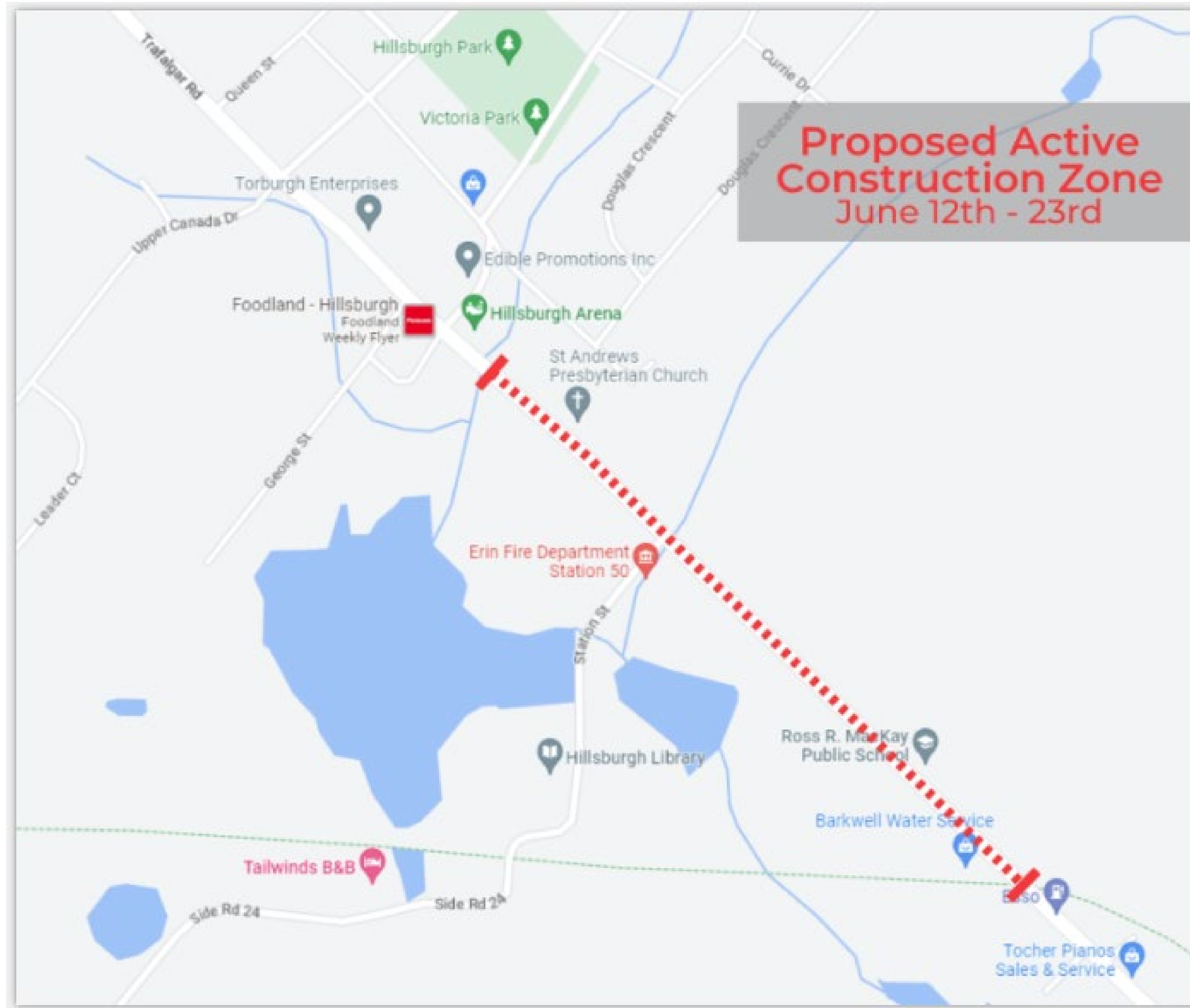


Erin Water Resource Recovery Facility

Construction Ongoing



Hillsburgh Gravity Sewer Construction Underway



Elora Cataract Trail Gravity Sewer

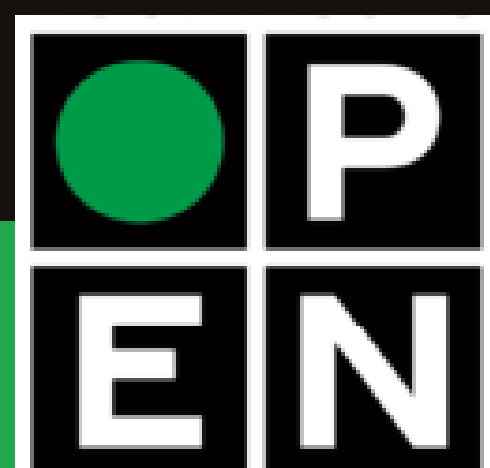
Expected Start – August 2023 (pending CVC approval)



Erin Village Gravity Sewer Construction underway

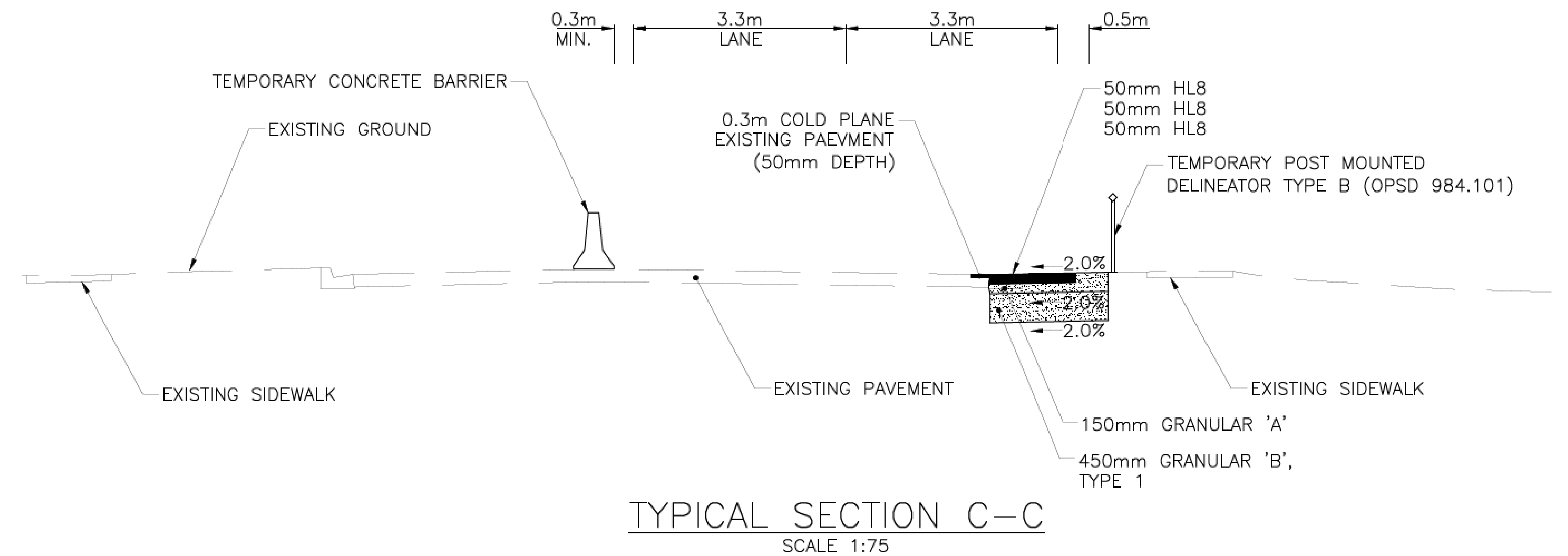


www.erin.ca



Trenchless Pipe Installation

Micro -tunneling Method



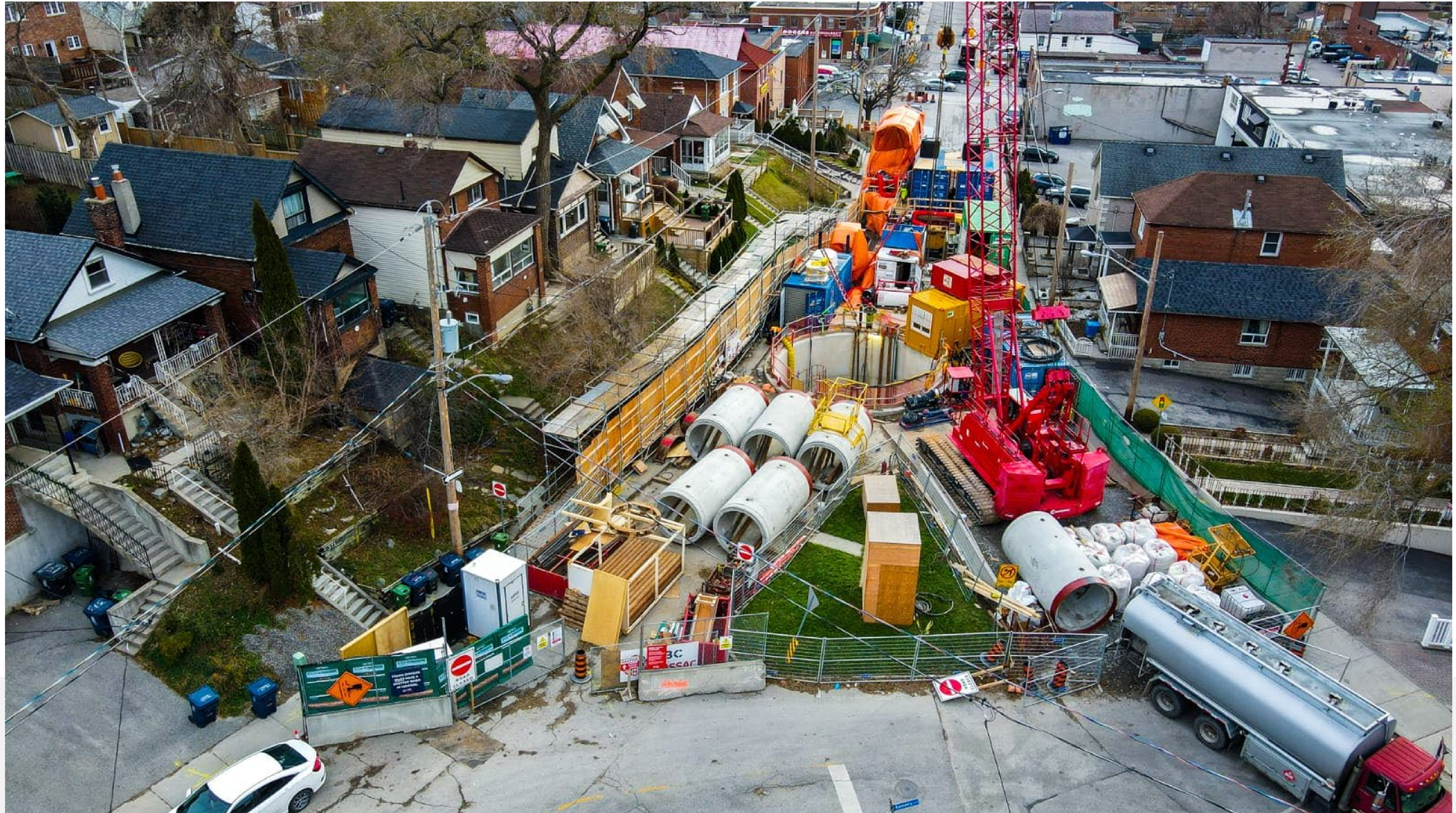
Trenchless Pipe Installation

Micro -tunneling Method – Typical Compound



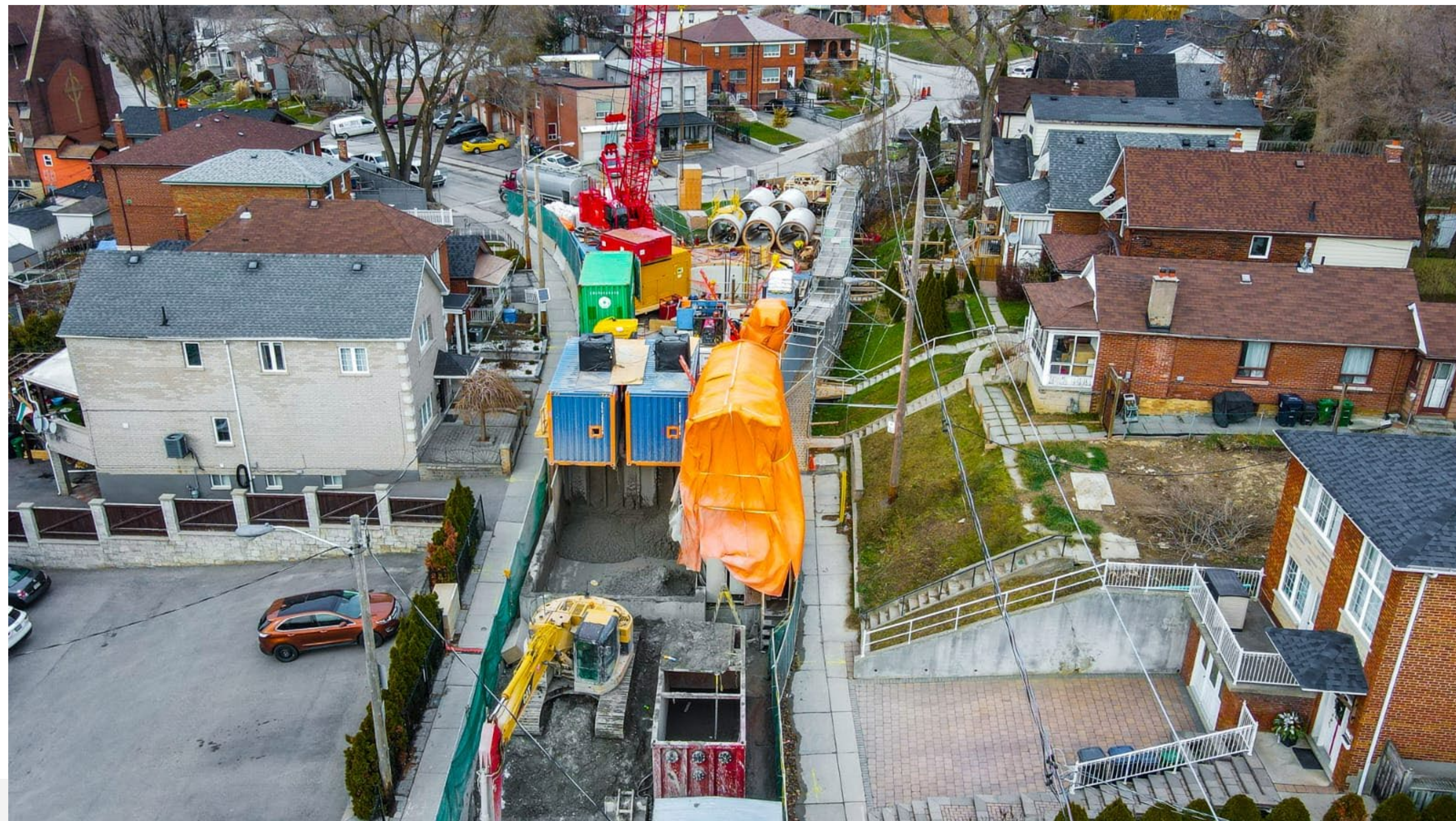
Trenchless Pipe Installation

Micro -tunneling Method – Typical Compound

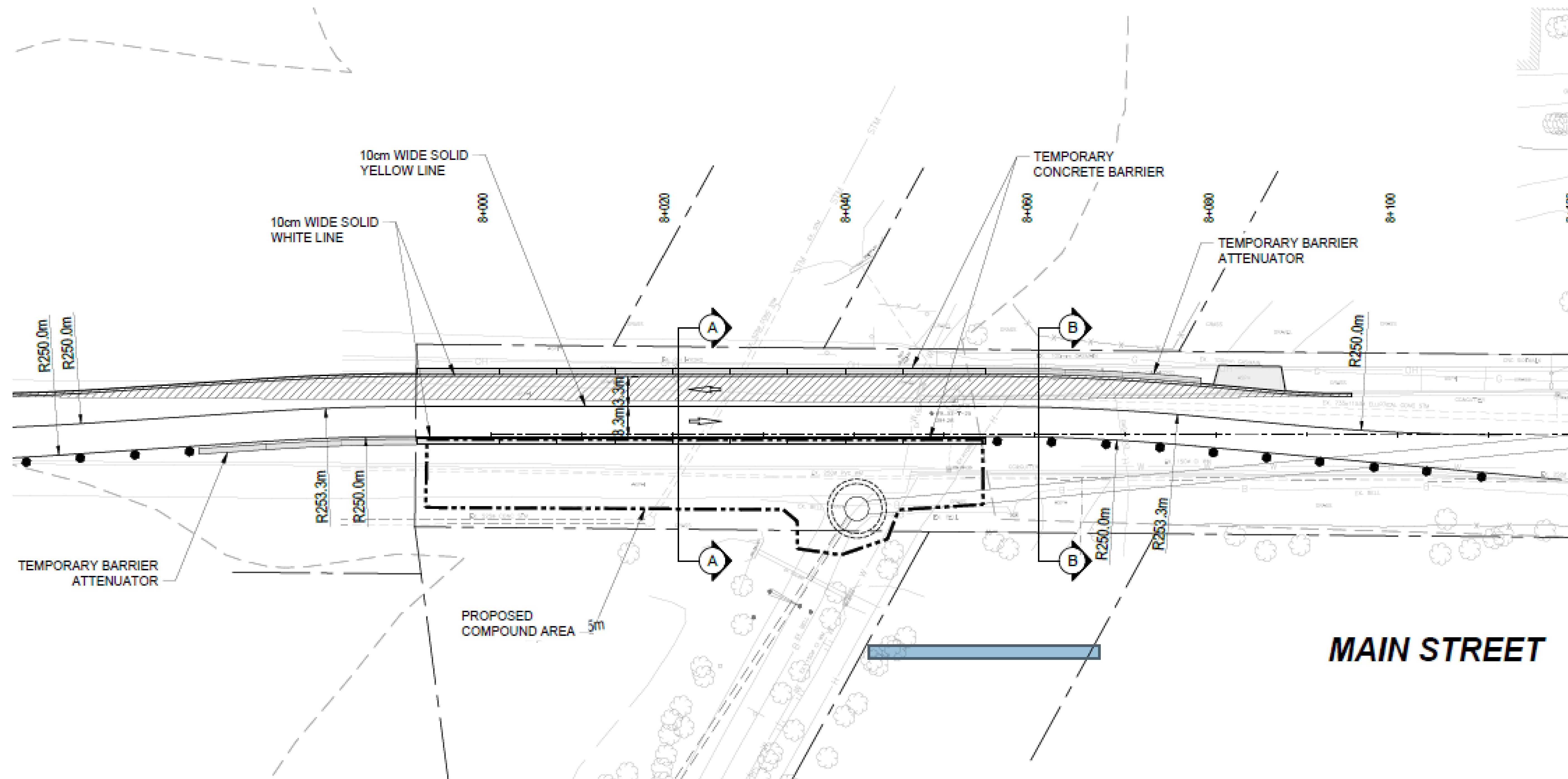


Trenchless Pipe Installation

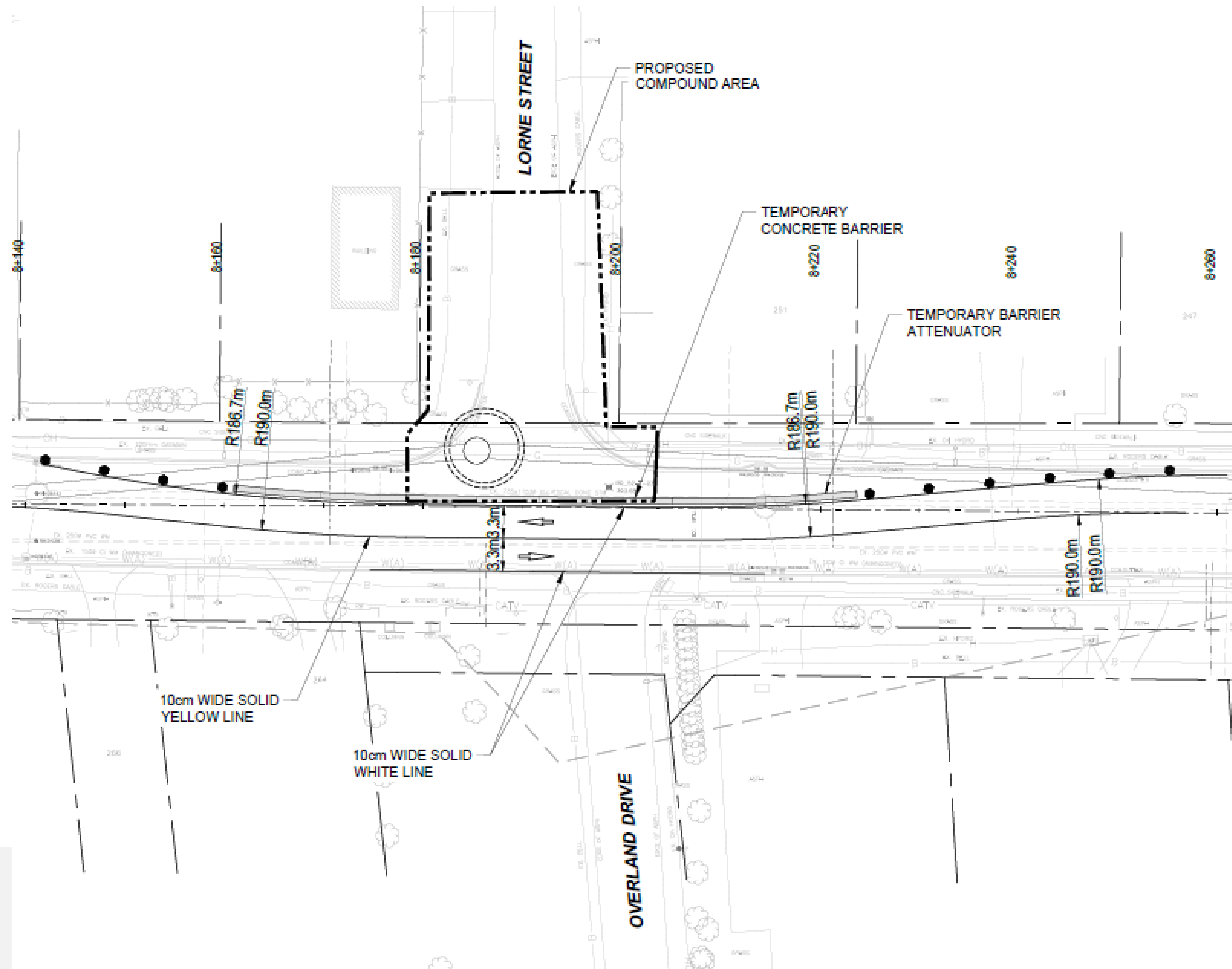
Micro -tunneling Method – Typical Compound



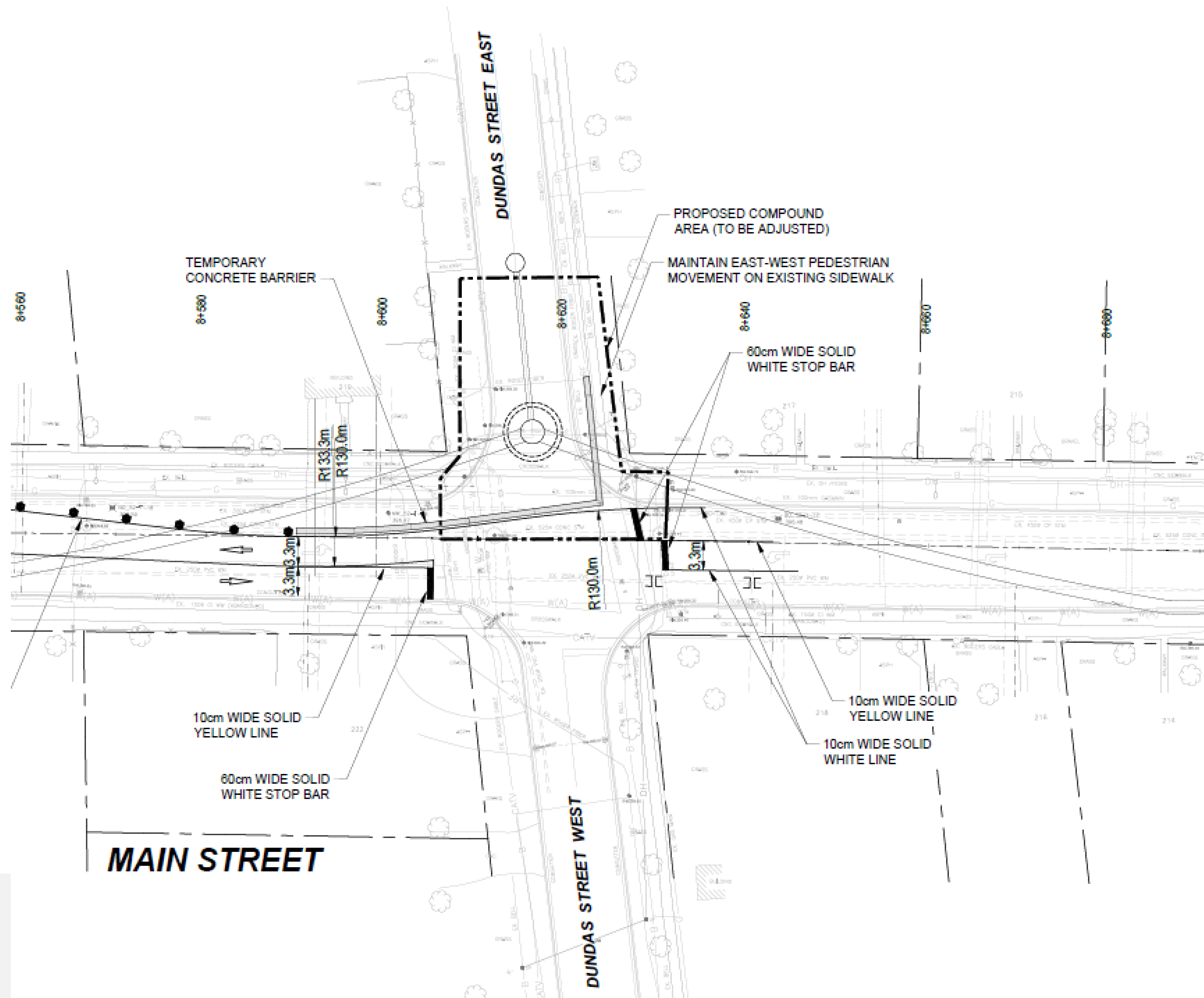
Micro -tunneling Compound No. 1



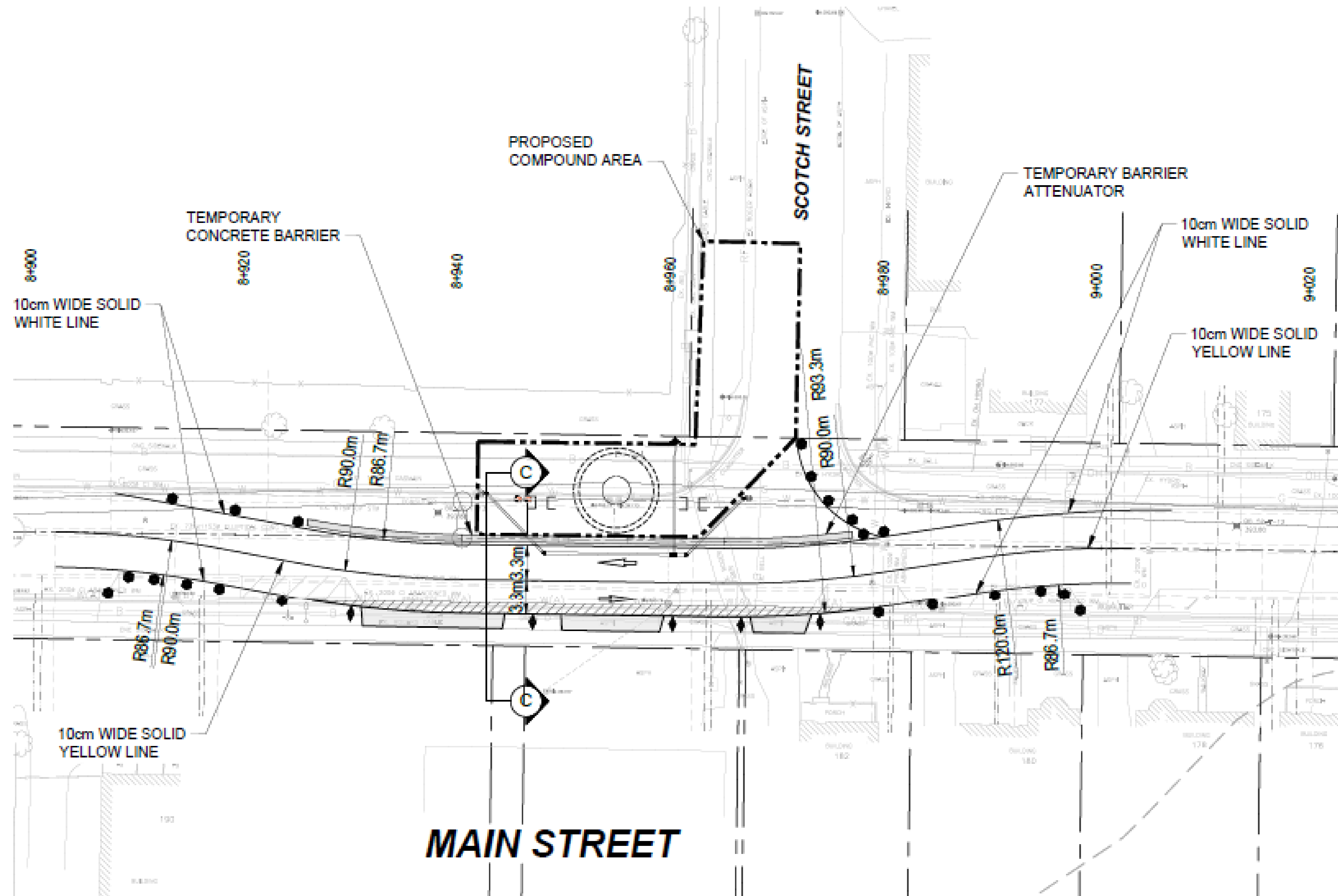
Micro -tunneling Compound No. 2



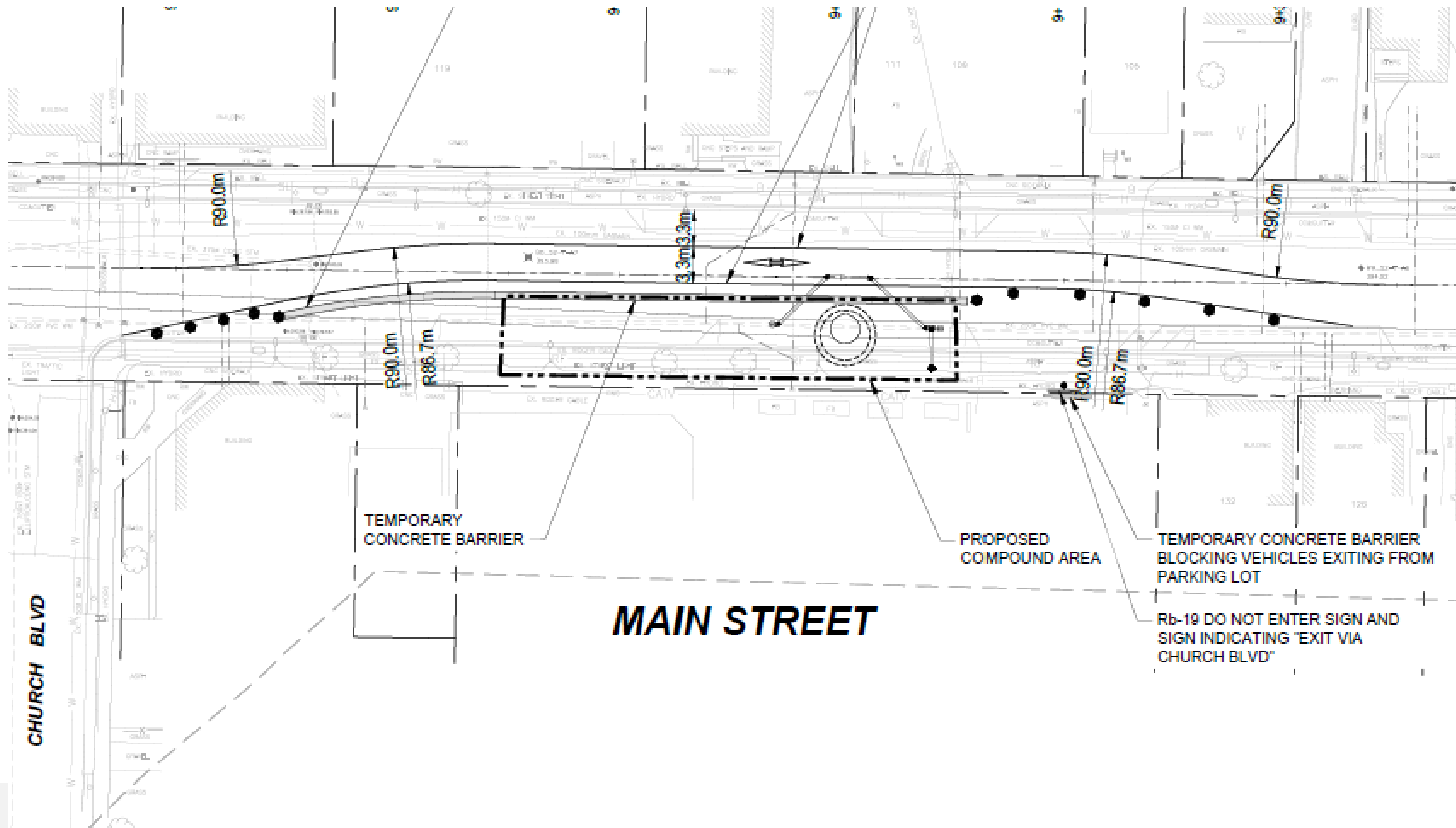
Micro -tunneling Compound No. 3



Micro -tunneling Compound No. 4



Micro -tunneling Compound No. 5

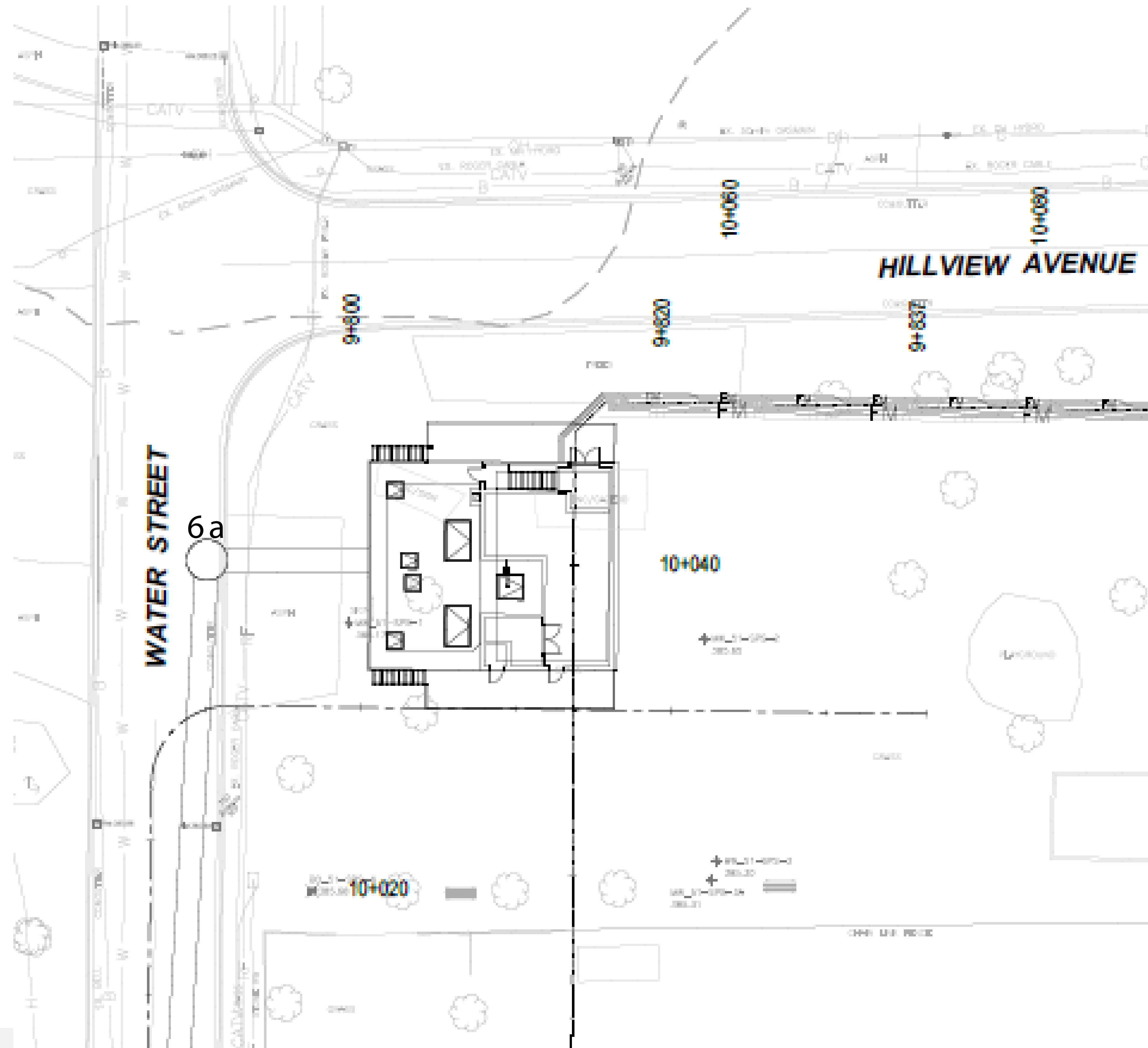


Micro -tunneling Compound No. 6

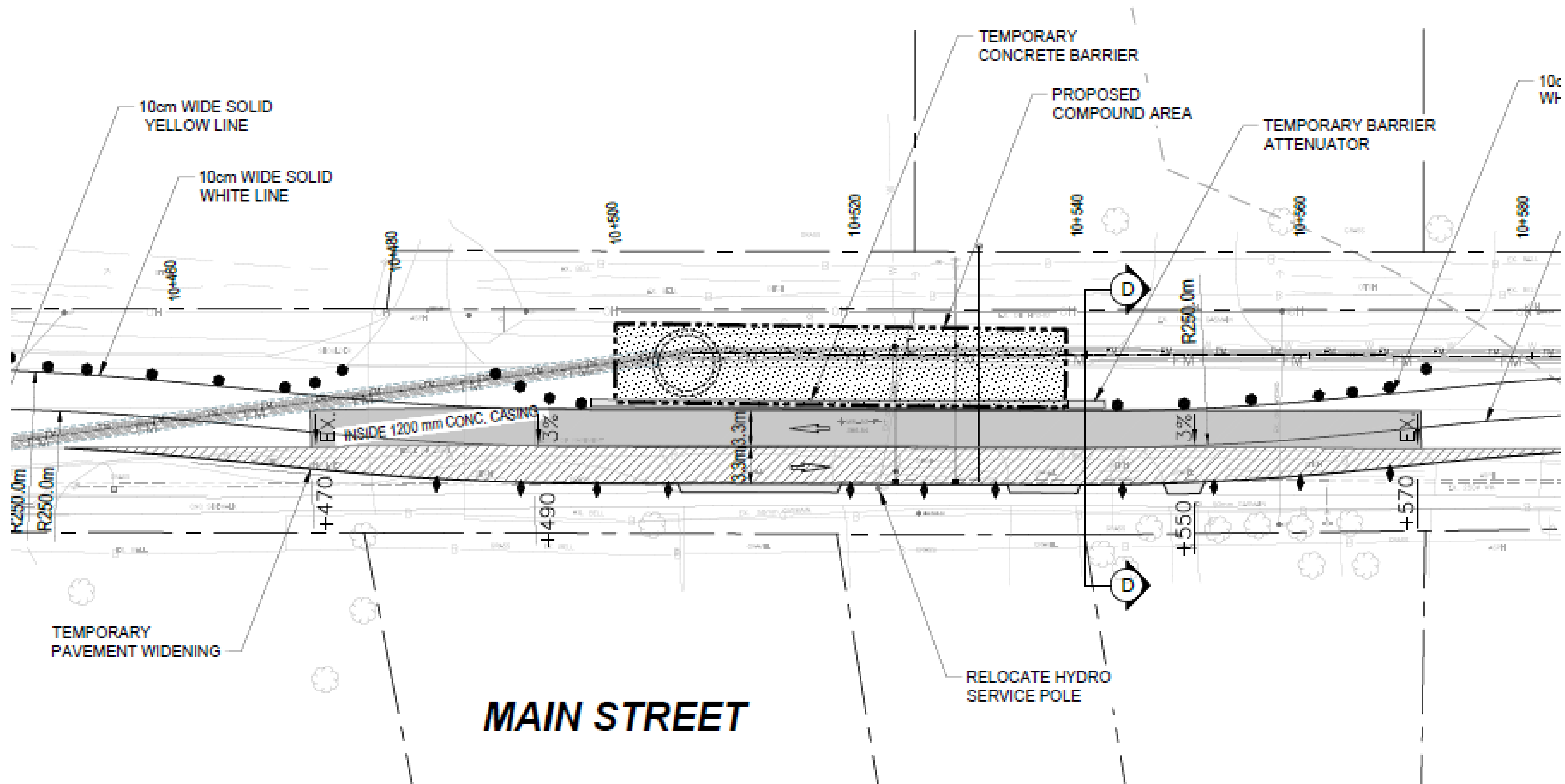


Water Street

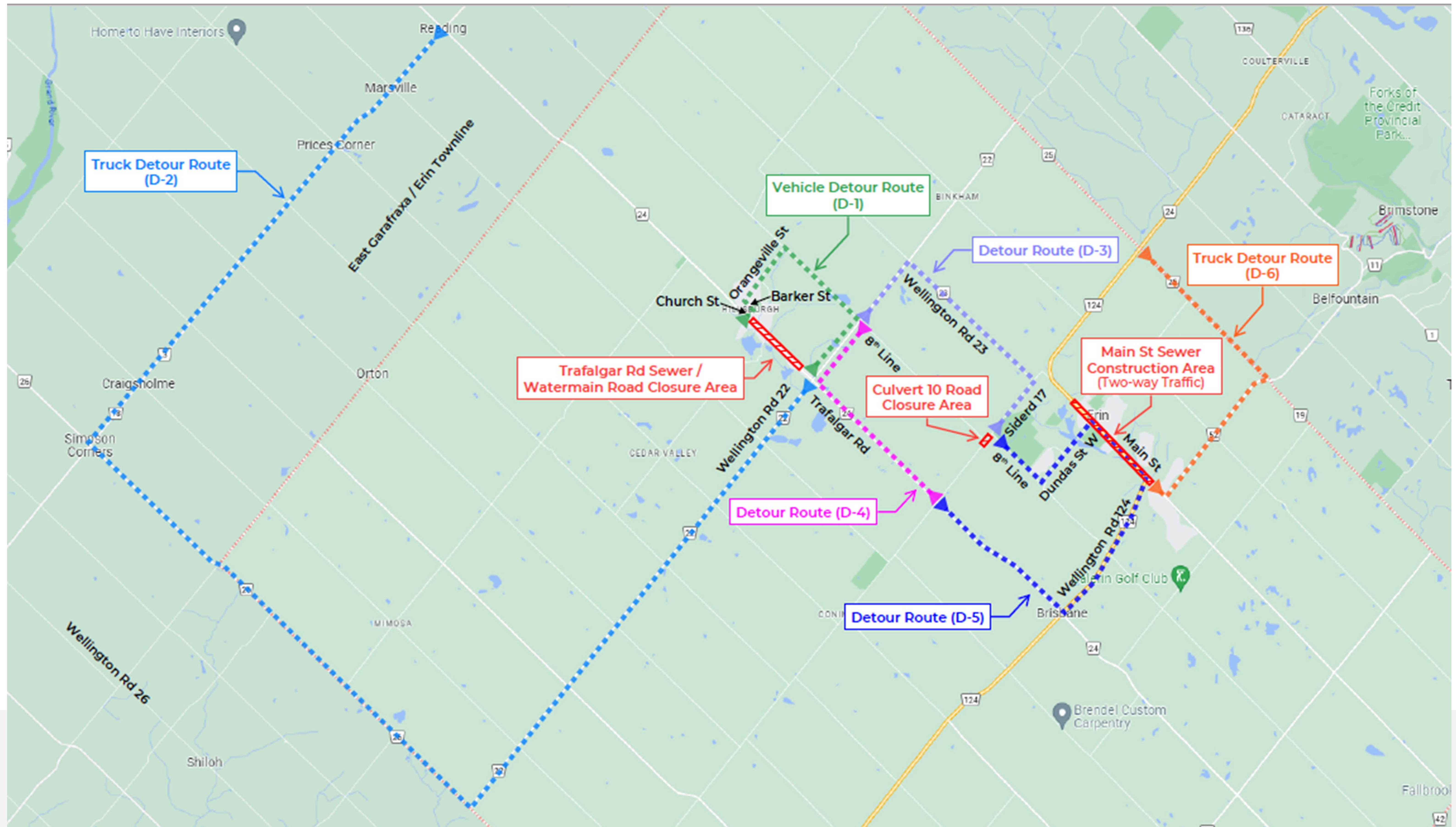
Micro -tunneling Compound No. 6a



Micro -tunneling Compound No. 8

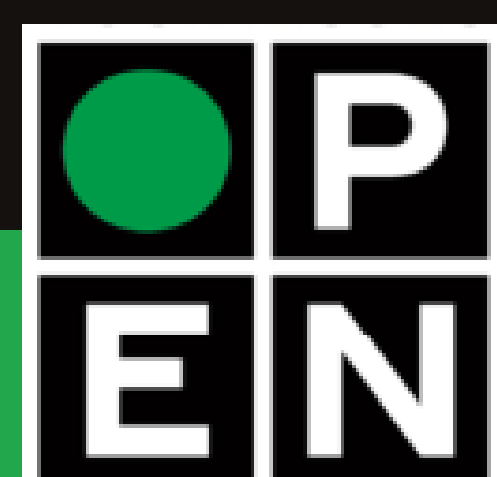
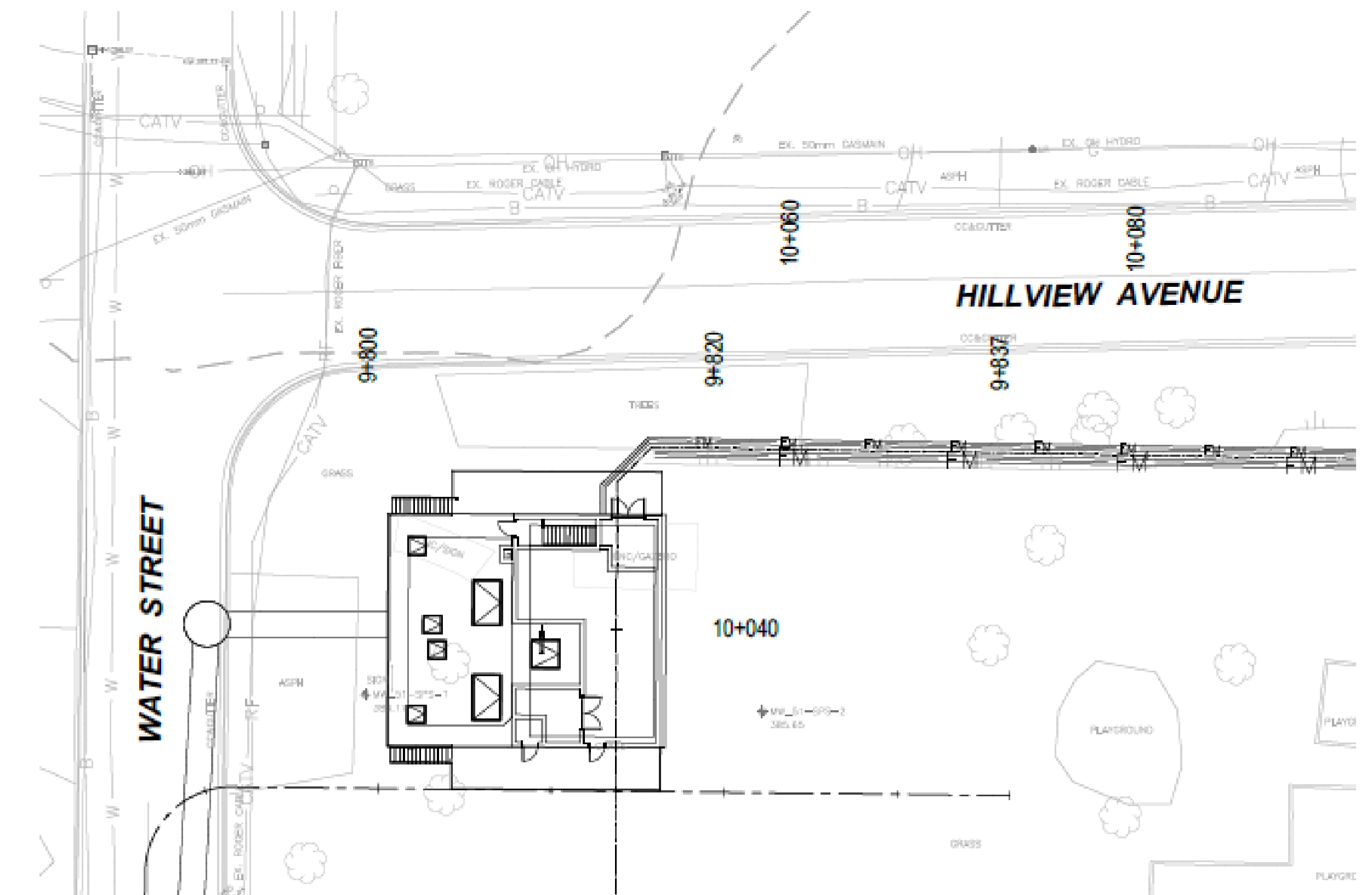
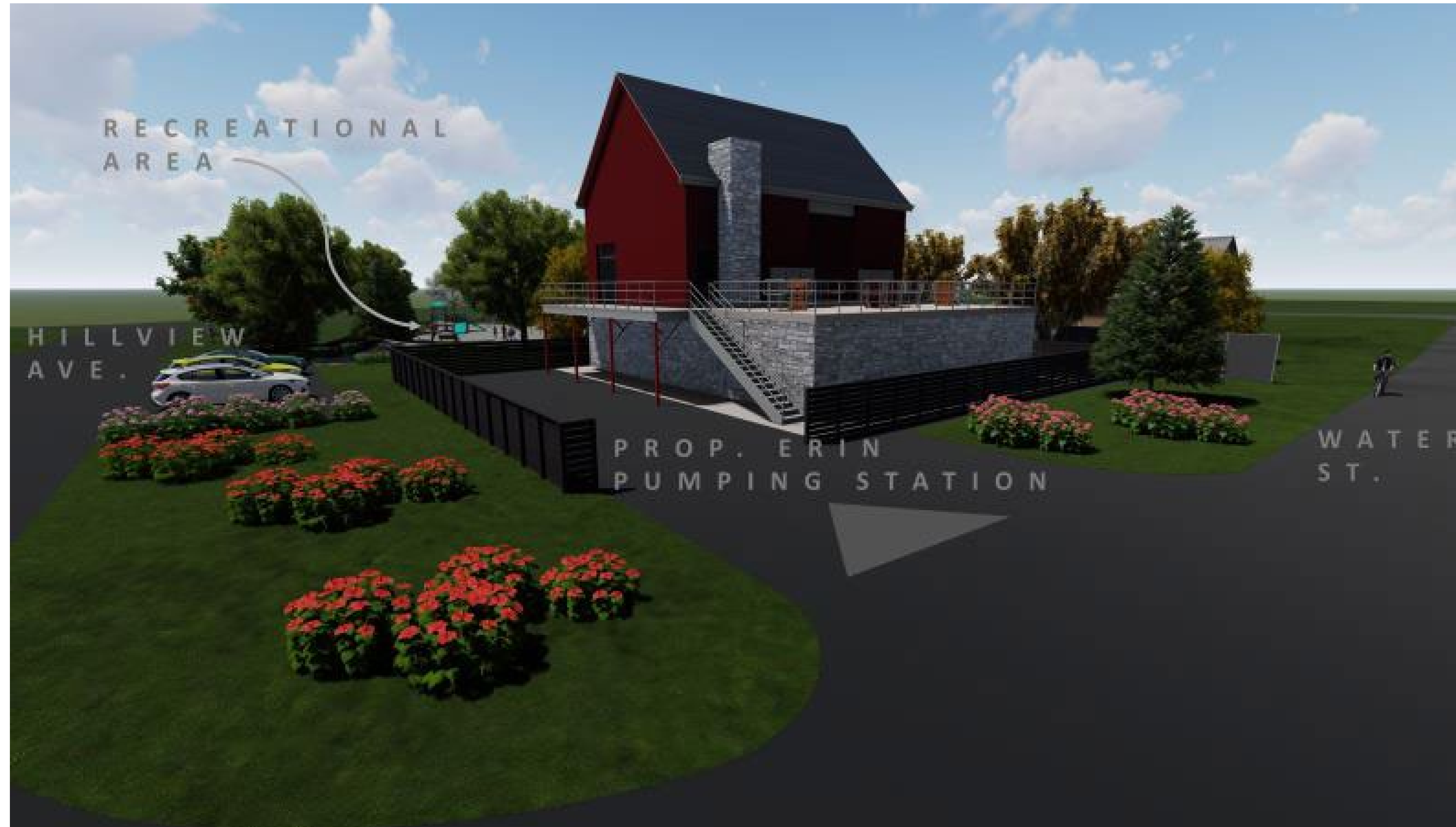


Combined Detour Routes



Erin Village Sewage Pumping Station

MECP / CVC approvals received



www.erin.ca



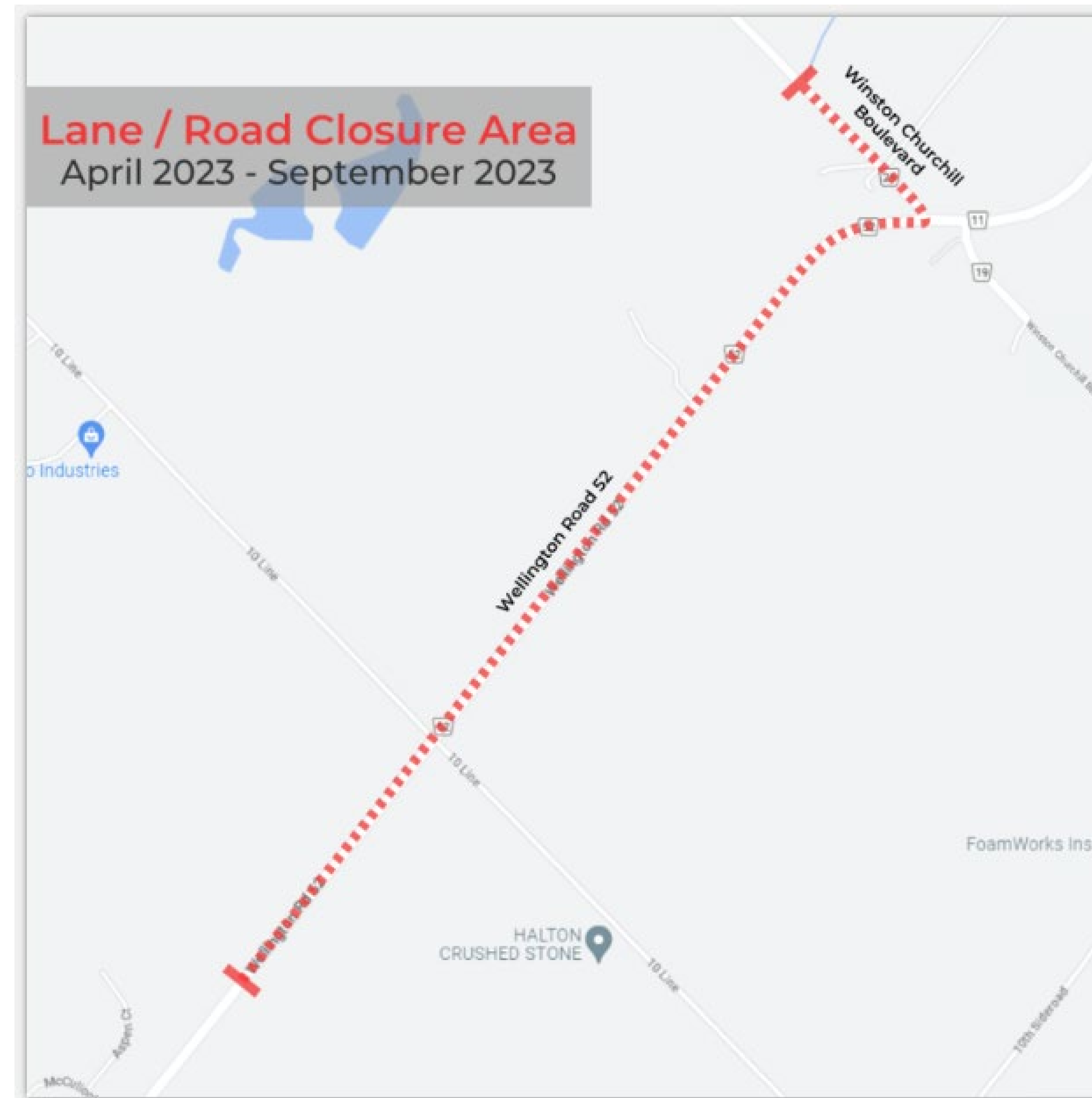
Erin Village Twin Forcemain

Construction complete to Shaft 8 location

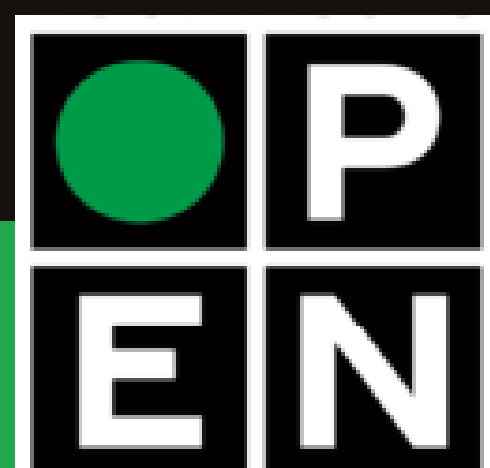


Erin W R R F Effluent Sewer

Construction complete to outfall manhole



www.erin.ca



Erin W R R F Outfall

Construction expected spring 2024



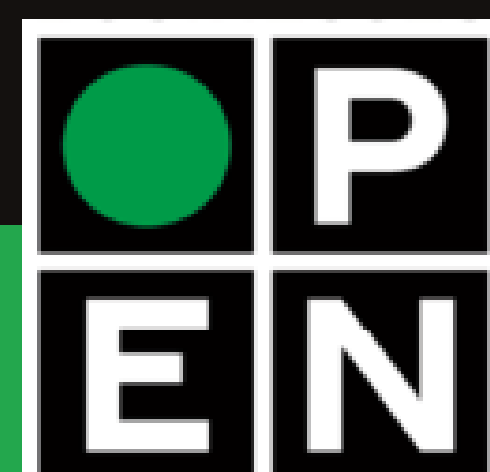
Erin Wastewater System Effluent Cooling System

As per Environmental Compliance Approval #7877-CALRZU, *Condition 11.1*:

“Temperature in the final effluent (measured at the outfall in manhole #10) shall always be maintained at or below the objective of 19°C (4-day moving average) to ensure end of pipe lethal ammonia toxicity. If the 4-day moving average temperature exceeds 19°C, effluent cooling system shall be turned on to bring the effluent temperature to the objective of 19°C...”

MECP Regional Technical Support Suggestion (Email February 23, 2022):

“...when effluent temperature exceeds 19°C for 3 hours at the effluent quality monitoring station, an effluent temperature mitigation procedure (running the cooling system) shall be triggered to effectively return effluent temperature to 19°C within the following 3 hours. Therefore, the maximum design flow should be based on actual peak flow...”



www.erin.ca



Erin Wastewater System

Cooling System – The cooling system design brief has been reviewed by the MECF and a detailed design is being completed.

Cooling Alternatives Recommendations



Covers and Shades

Secondary clarifiers should be covered to reduce the potential of solar gain.



Chillers

Vapour compression mechanical water-cooled chillers should be designed and implemented.



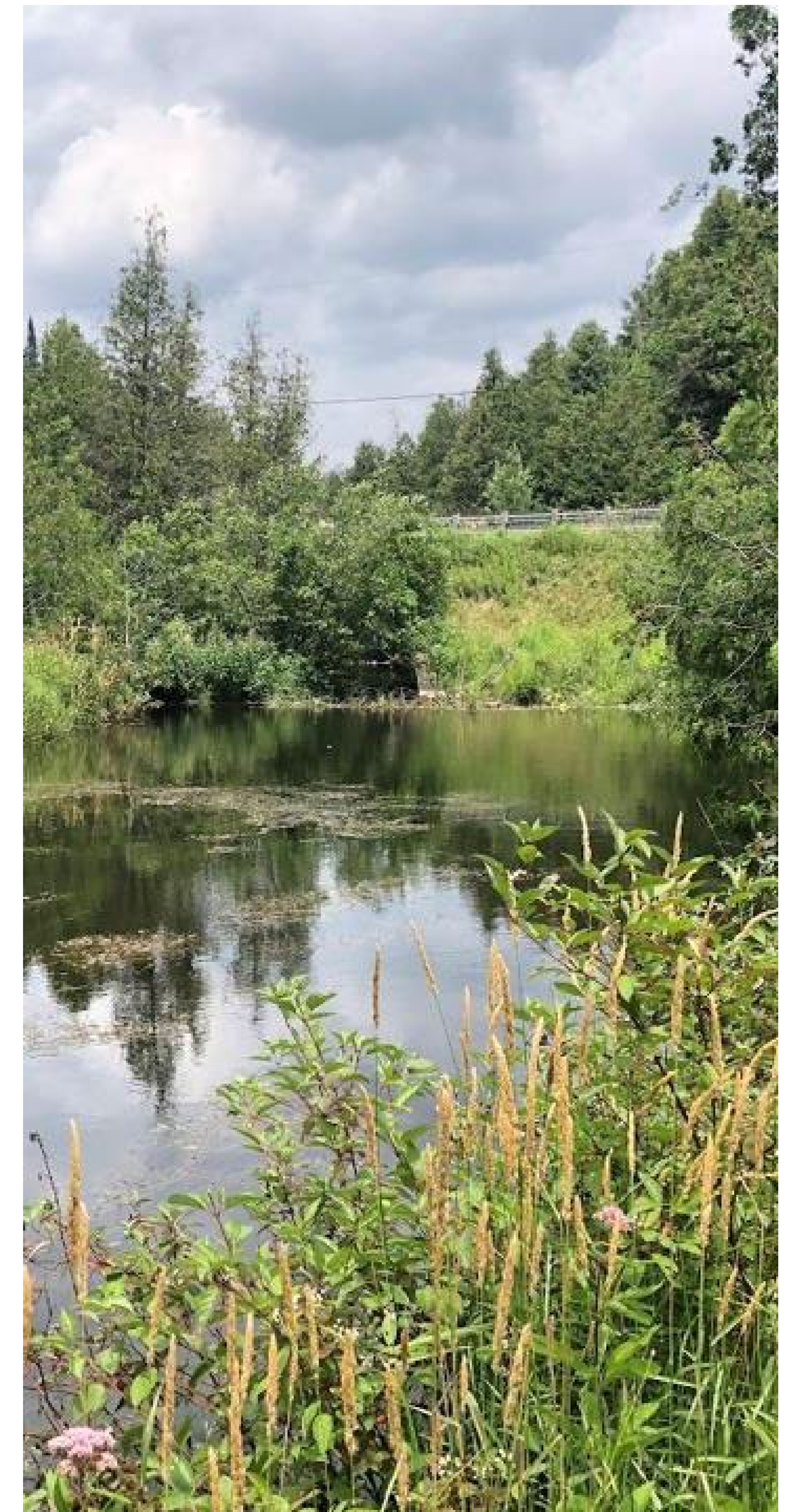
Pre-Treatment of Heat Loads in Influent Flow

The Town of Erin's bylaws should be amended to restrict the temperature of commercial/industrial discharges to the municipal sewer.

Erin Wastewater System Receiver Monitoring Plan

RECEIVER MONITORING AND MITIGATION PLAN

ERIN WATER RESOURCE RECOVERY FACILITY



Community Engagement

Facebook 1362 Reach – 12 Reactions
Instagram 671 Reach – 30 Engaged
Twitter – 73 Impressions – 19 Engaged

Facebook 664 Reach – 23 Reactions
Instagram 671 Reach – 30 Engaged
Twitter – 155 Impressions – 27 Engaged



Town of Erin
3d · 🌐

Starting July 10th, we're kicking off the sanitary gravity sewer construction in Erin Village! This project will enhance our infrastructure and improve sanitation services for the community. See the map of the work area.

📍 The construction work will take place along Main Street, from the Elora-Cataract Trail to Dianne Road, and along Water Street from Main Street to Hillview Avenue.

We want to assure you that access to local homes, businesses, and emergency services will be maintained throughout the construction process.

Thank you for your patience and cooperation! For more information, visit <https://www.erin.ca/.../wastewater.../wastewater-updates>

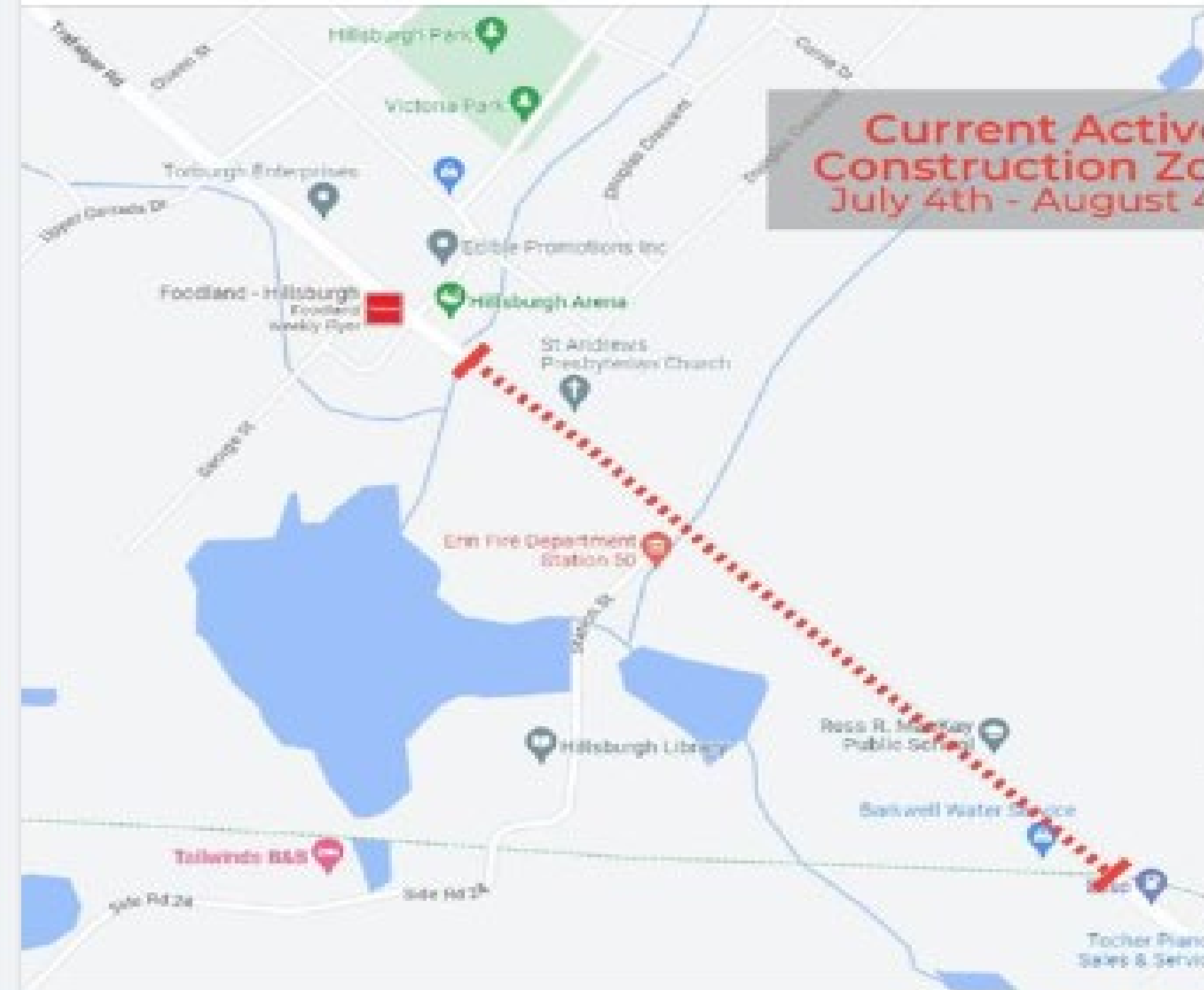

4 👍 1 comment 9 shares

Like Comment Share

Town of Erin
June 28 at 10:01 AM · 🌐

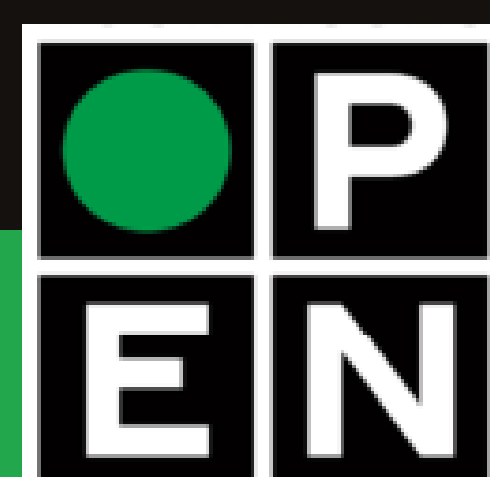
From July 4 to August 4, the active construction zone, as shown in the map below, will be closed to through traffic 24/7. Access will be maintained to homes, businesses and emergency vehicles within the construction zone. All other vehicular traffic must take the detour route and maintain speed limits as posted.

Get your construction updates here: <https://www.erin.ca/town-hall/corporate-initiatives/wastewater-treatment-plant/wastewater-updates>.

5 👍 7 comments 9 shares

Like Comment Share



www.erin.ca

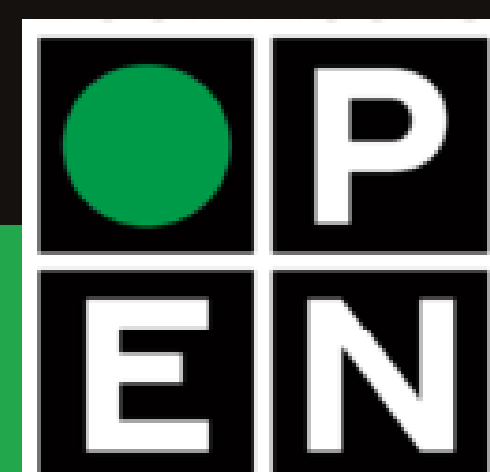


Community Engagement

Drop In Sessions held bi-weekly

Attendance

Date	Hillsburgh	Erin
May 17	6	2
May 31	7	0
June 14	1	0
June 28	2	3
July 12	4	0
Total	20	5



www.erin.ca



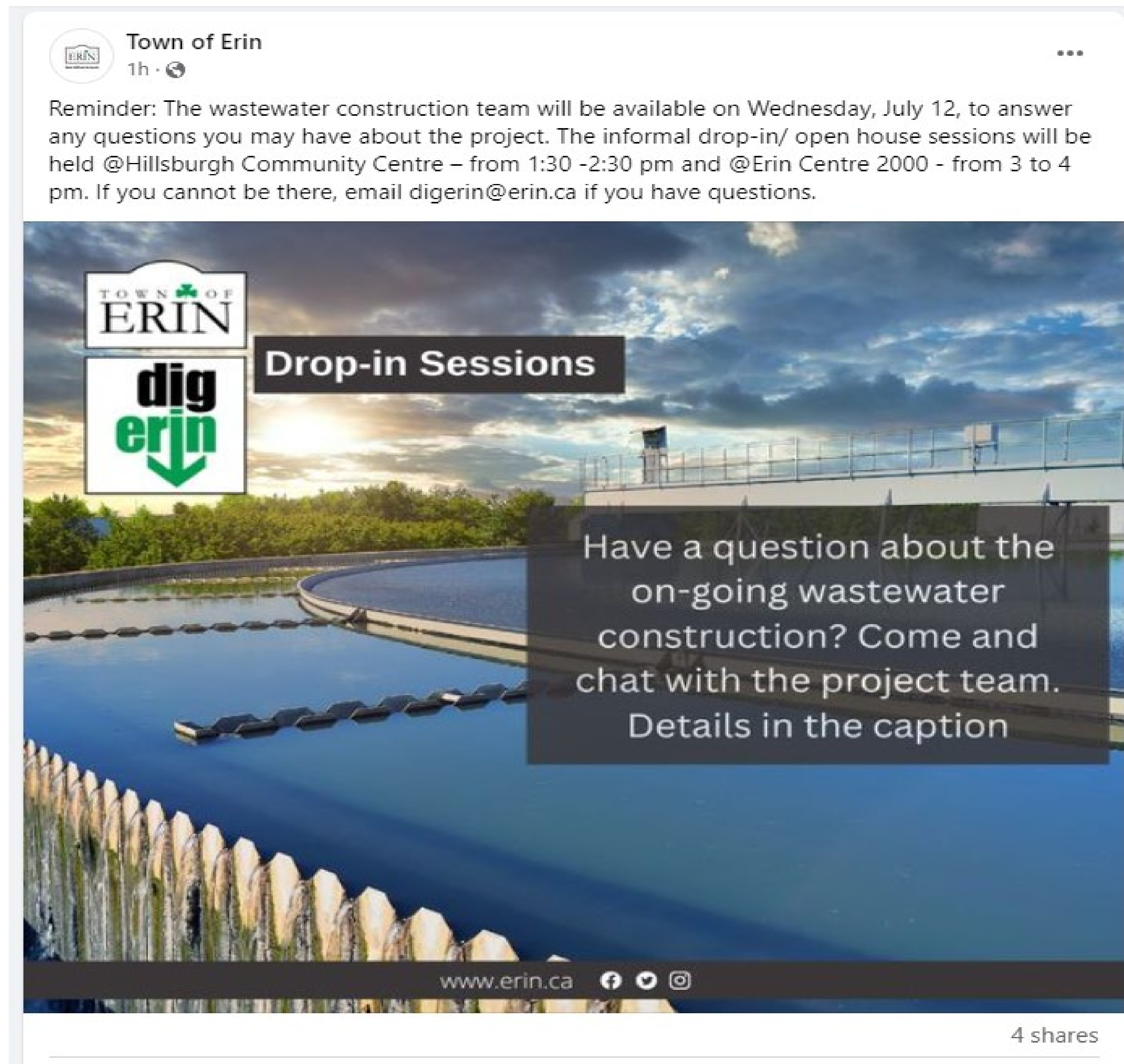
Community Engagement

Drop In Sessions

Facebook 620 Reach – 6 Reactions

Instagram 190 Reach – 5 Engaged

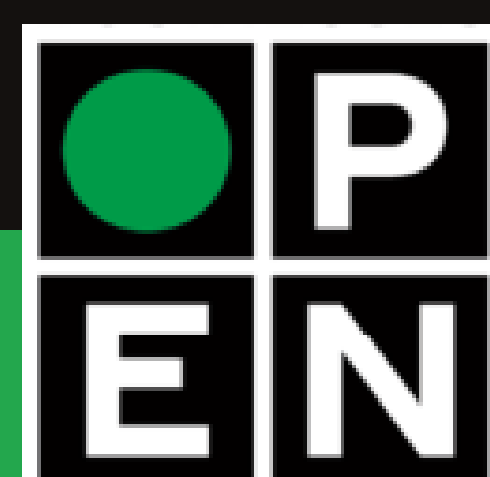
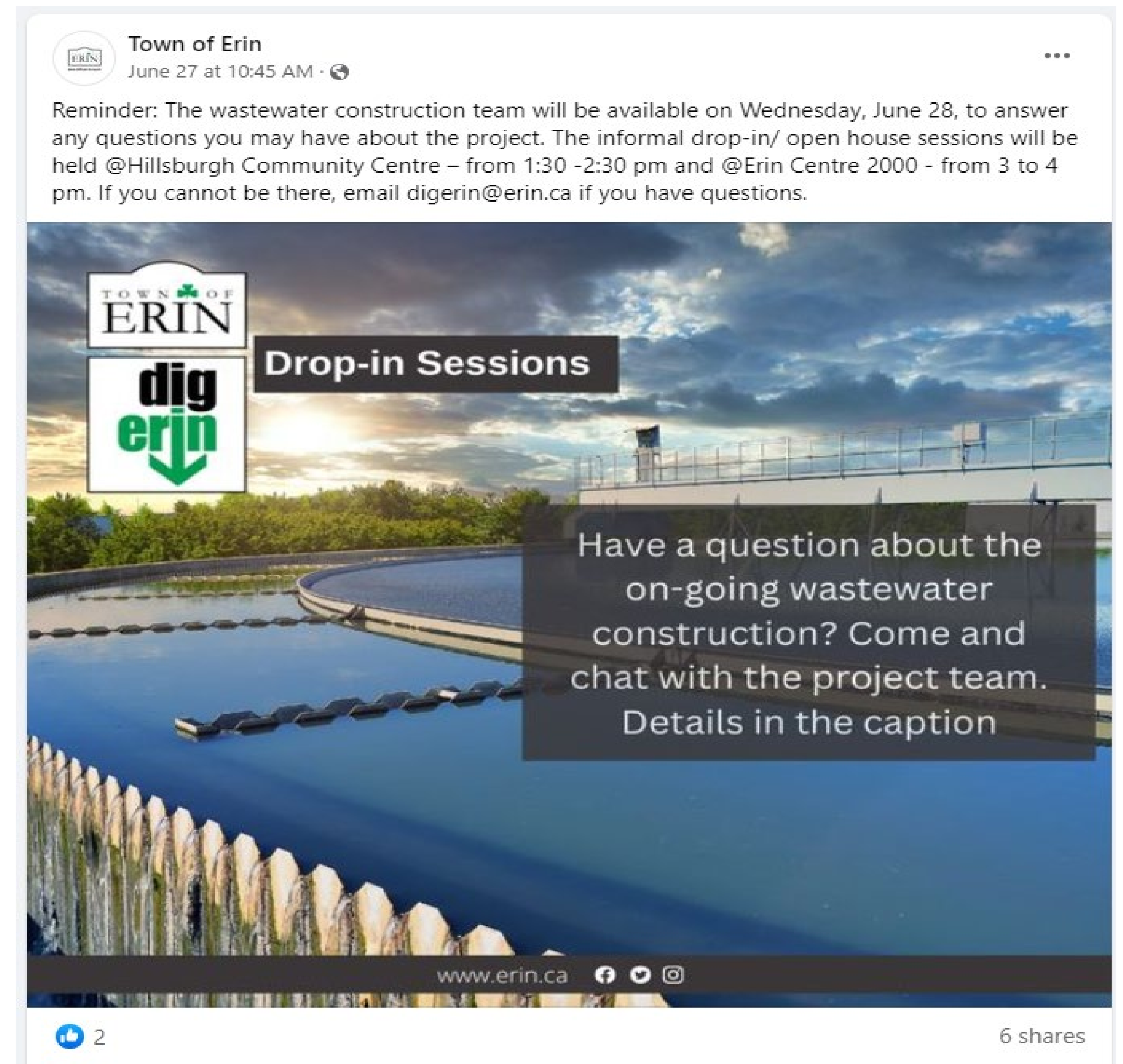
Twitter – 69 Impressions



Facebook 316 Reach – 7 Reactions

Instagram 313 Reach – 7 Engaged

Twitter – 148 Impressions – 5 Engaged



www.erin.ca



Community Engagement

Drop In Session Newspaper Ads

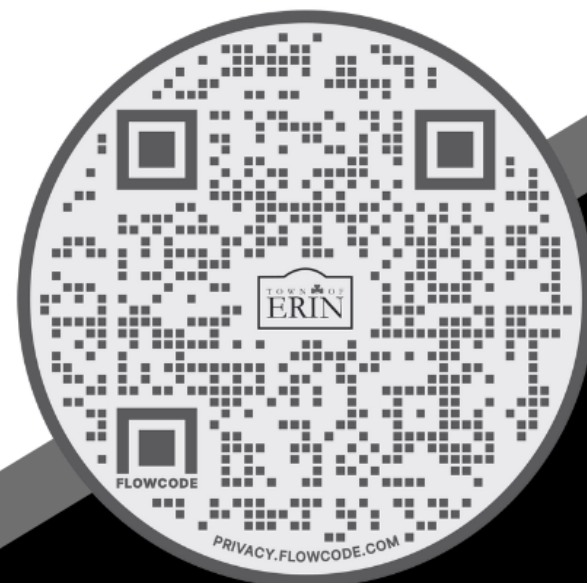
¼ page ad starting July 20 for 4 weeks



As an ongoing commitment to keeping residents informed, the wastewater construction team is available to answer any questions you may have about the project. The drop-in sessions are held at Hillsburgh Community Centre from 1:30 to 2:30 pm and at Erin Centre 2000 from 3 to 4 pm.

Upcoming Dates:
July 26, 2023
August 9, 2023
August 23, 2023
September 6, 2023

For construction updates, road closures and detour maps, please visit www.erin.ca



www.erin.ca   

½ page ad in Erin Advocate



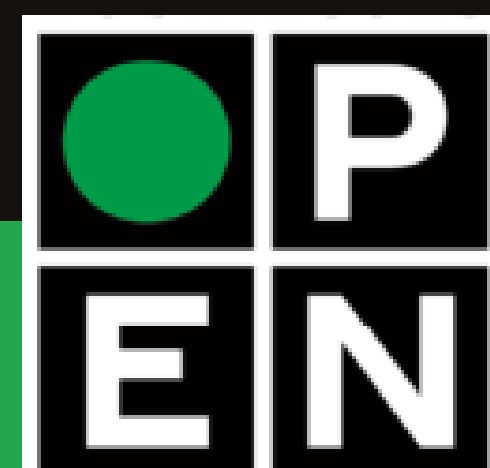
As an ongoing commitment to keeping residents informed, the wastewater construction team is available to answer any questions you may have about the project. The drop-in sessions are held at Hillsburgh Community Centre from 1:30 to 2:30 pm and at Erin Centre 2000 from 3 to 4 pm.

Upcoming Dates:
July 26, 2023
August 9, 2023
August 23, 2023
September 6, 2023

For construction updates, road closures and detour maps, please visit www.erin.ca



www.erin.ca   

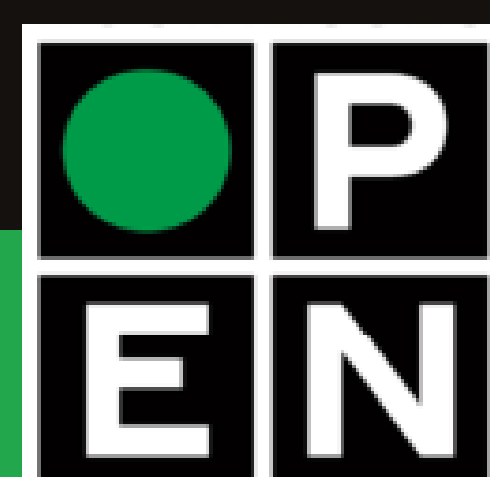
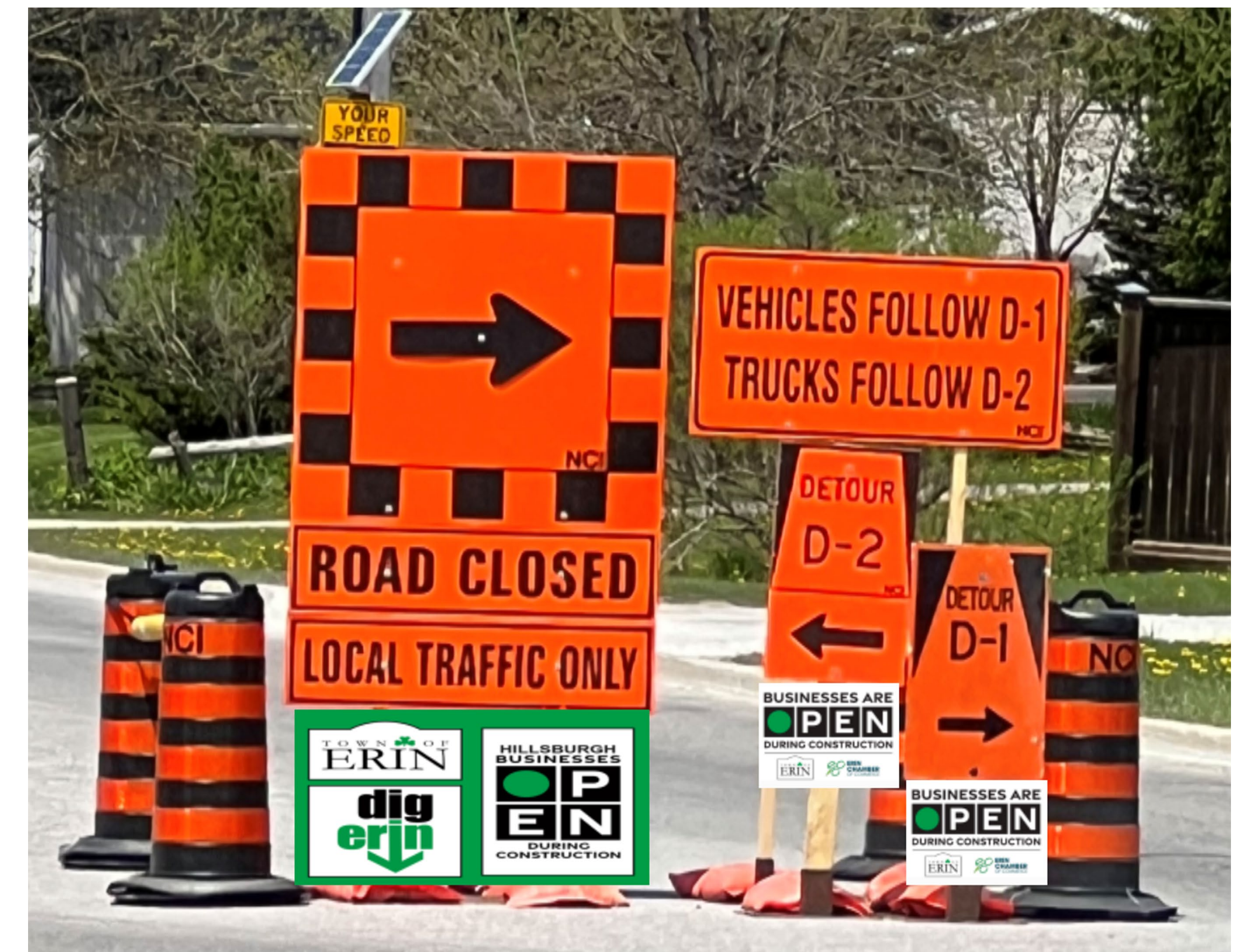


www.erin.ca



Project Construction Communication

Construction Signage



www.erin.ca



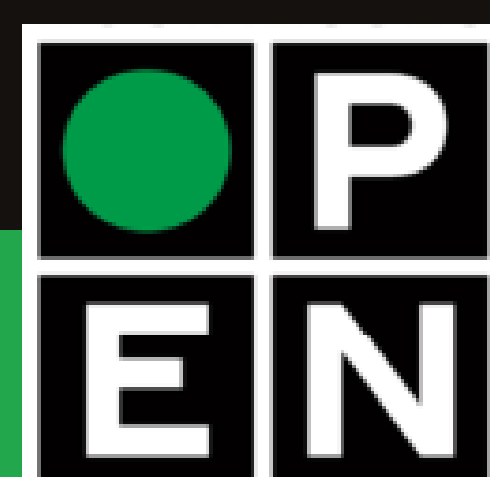
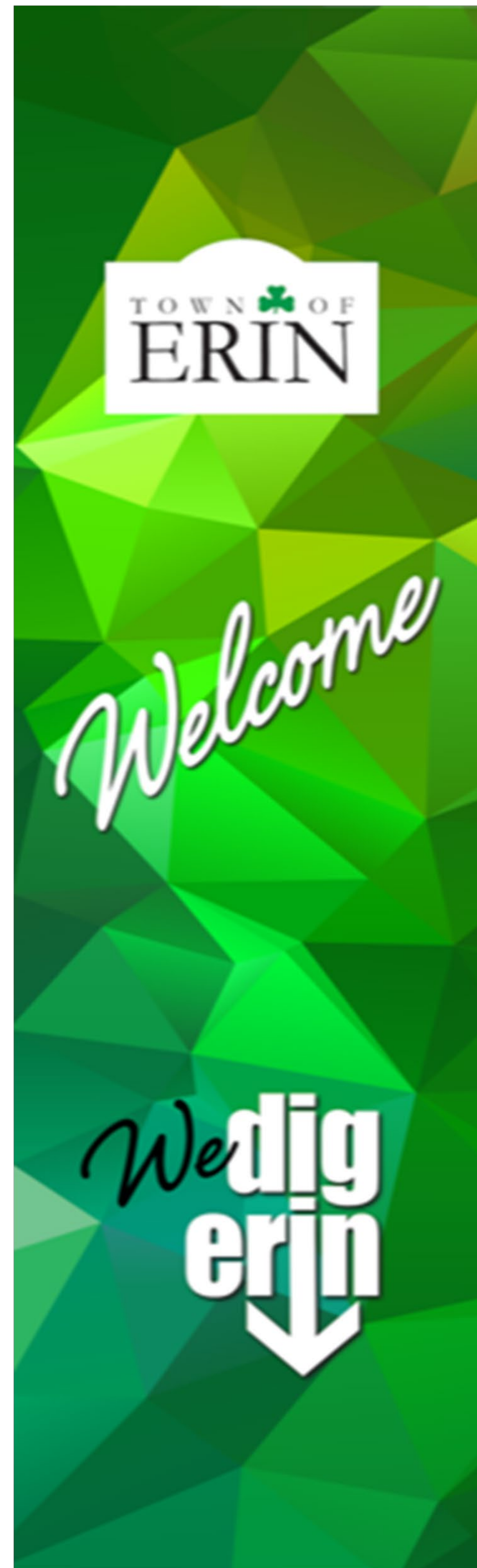
Project Construction Communication

Project Signage



Project Construction Communication


Downtown Banners




www.erin.ca



Project Dashboard



[HOME](#) | [ABOUT THE PROJECT](#) | [WORK AREAS](#) | [CONTACT US](#) | [TOWN'S WASTEWATER UPDATES](#)



ERIN WASTEWATER PROJECT: CONSTRUCTION DASHBOARD

The Town of Erin is undertaking a project to build a wastewater treatment plant to the Village of Erin and Hillsburgh. Working with the Credit Valley Conservation authority (CVC) and the Ministry of the Environment, Conservation and Parks (MECP) it was determined that a new system is the best path forward to keep the community thriving now, and for generations to come. The new system will carry all wastewater flows to a single wastewater treatment plant. It will support the needs of the community by removing the reliance on the existing septic systems. After conducting various studies, including an Environmental Assessment (EA) and an Environmental Study Report (ESR), a series of recommendations and guidelines were identified to ensure we are protecting our water resources and that the project remains compliant with the MECP.

Interactive System Map

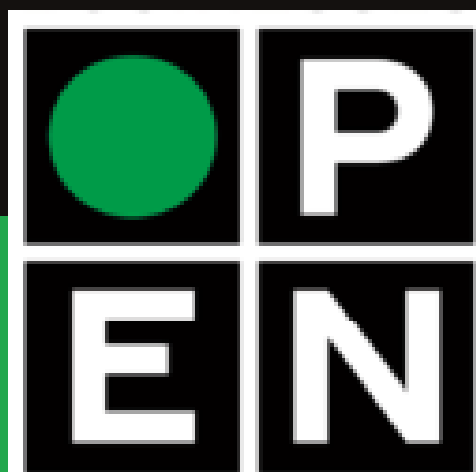
Click on any Work Area to get more information.



Live Camera Access

- Water Resource Recovery Facility
- Erin Village Sewage Pumping Station
- Coming Soon

Contact Us

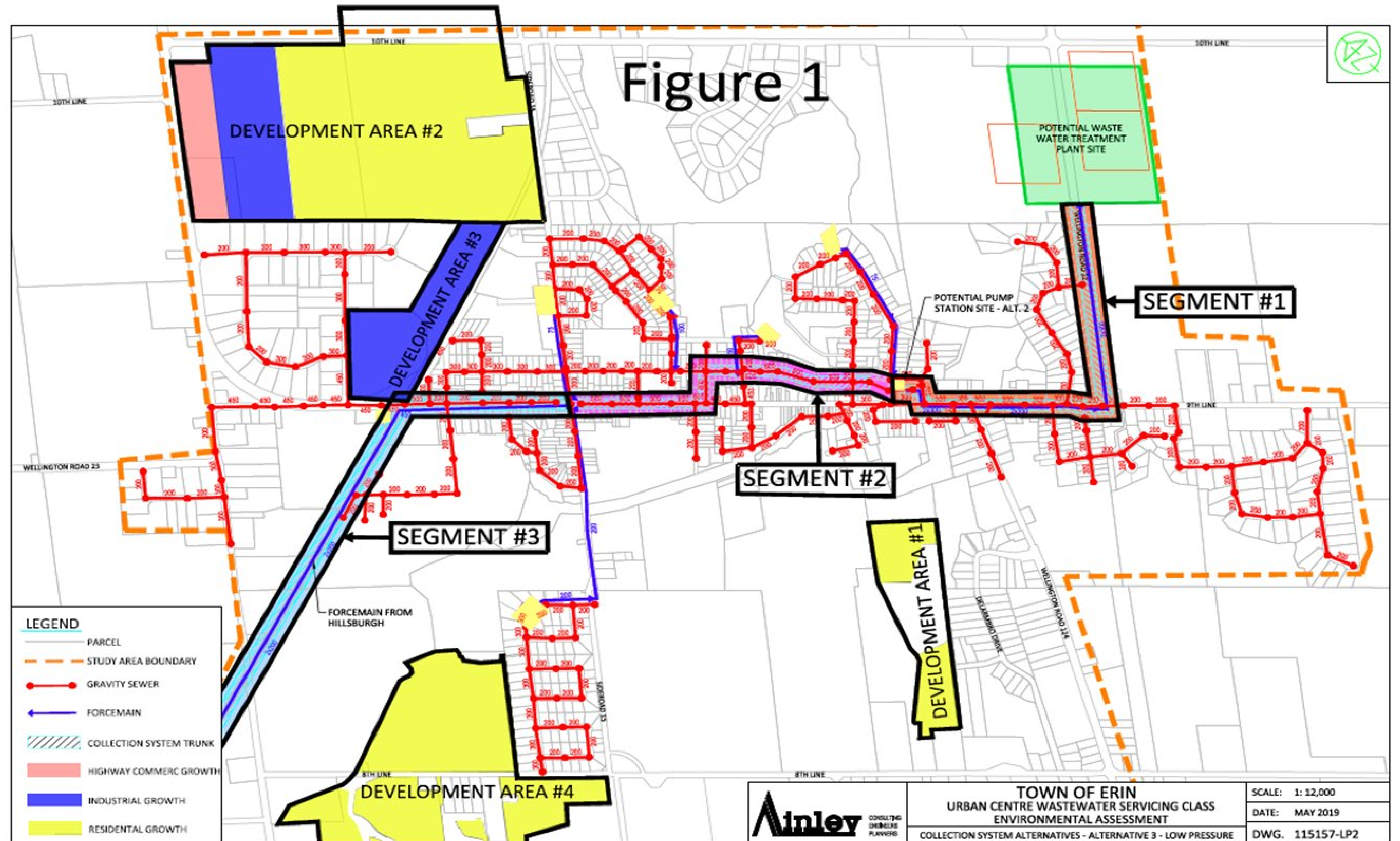


www.erin.ca

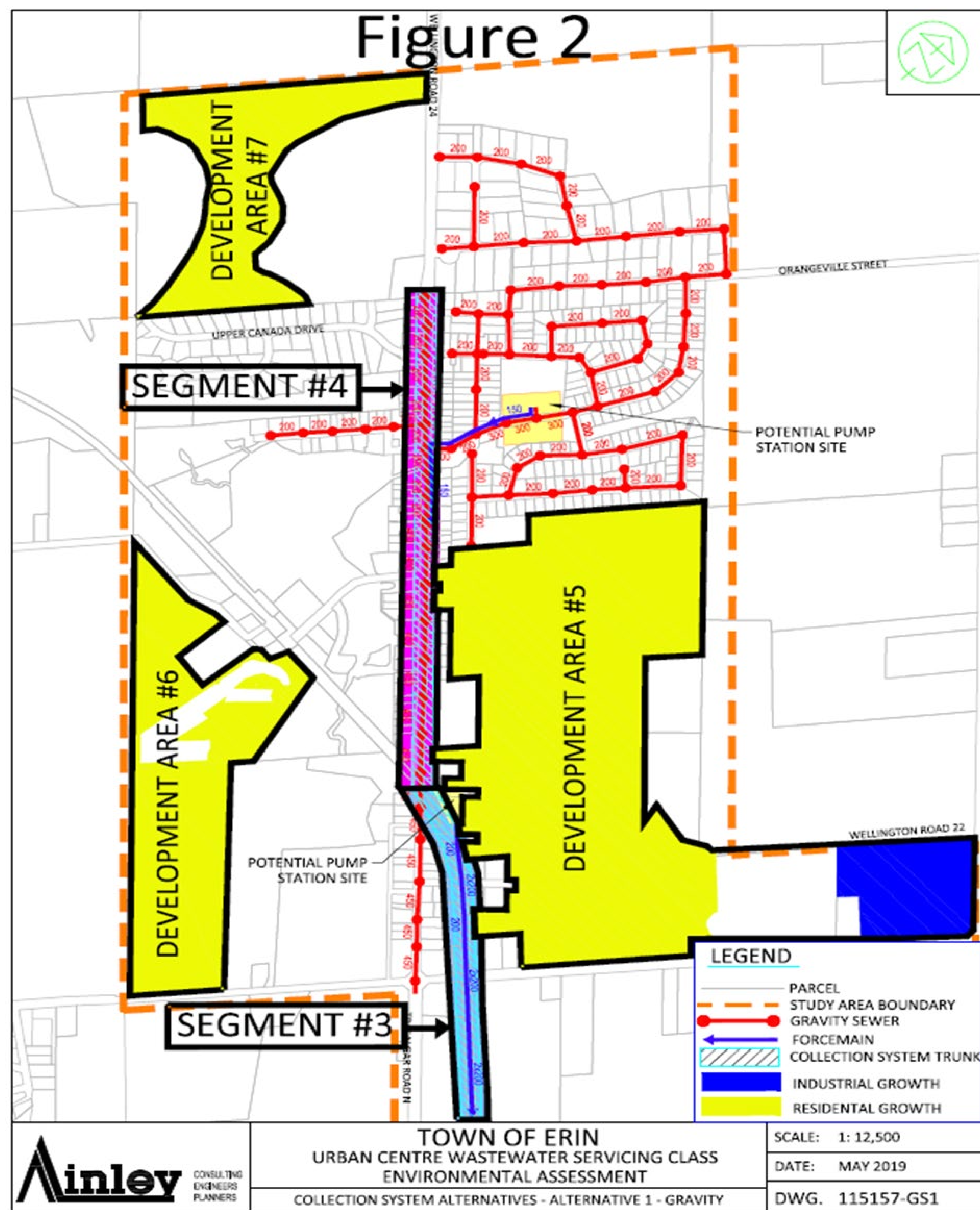


Future Work

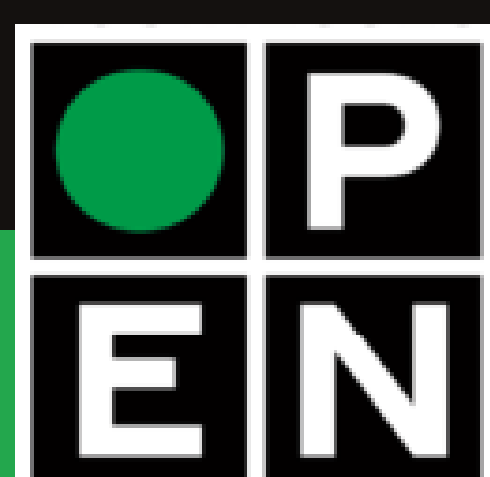
Erin



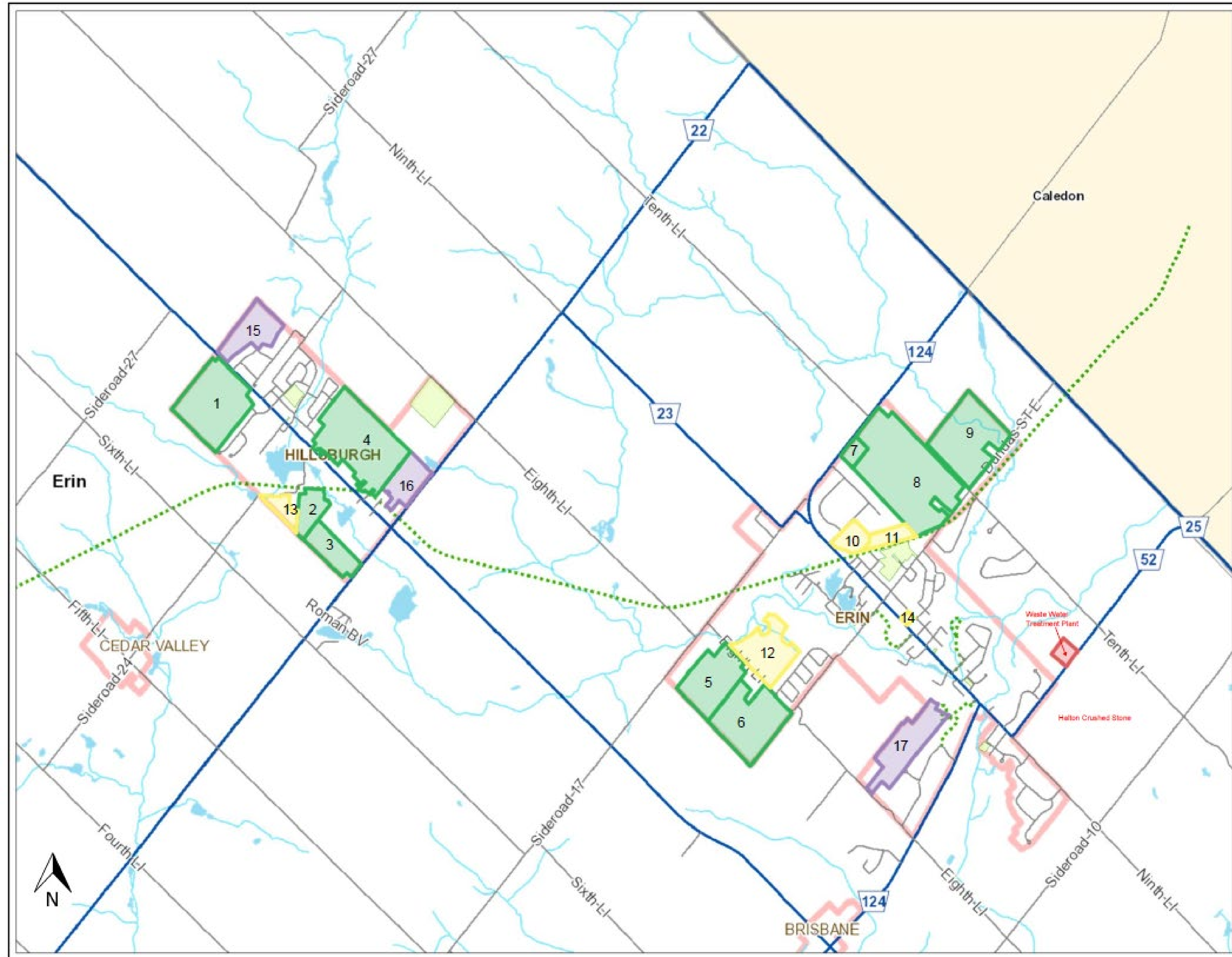
Future Work Hillsburgh



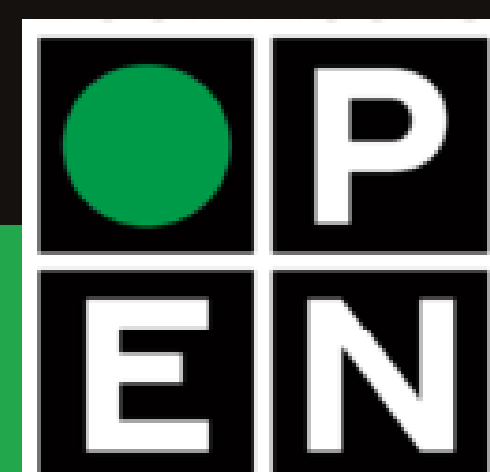
www.erin.ca



Future Work Development



www.erin.ca



Thank you!

Questions?

www.erin.ca

