

# Glendon Drive Roundabout and Coldstream Road Realignment

Detailed Design



## Welcome

Thank you for attending the Public Information Centre (PIC) for the **Glendon Drive Roundabout and Coldstream Road Realignment**

### THE PURPOSE OF TONIGHT'S PIC:

The purpose of the PIC is to provide an overview of the:

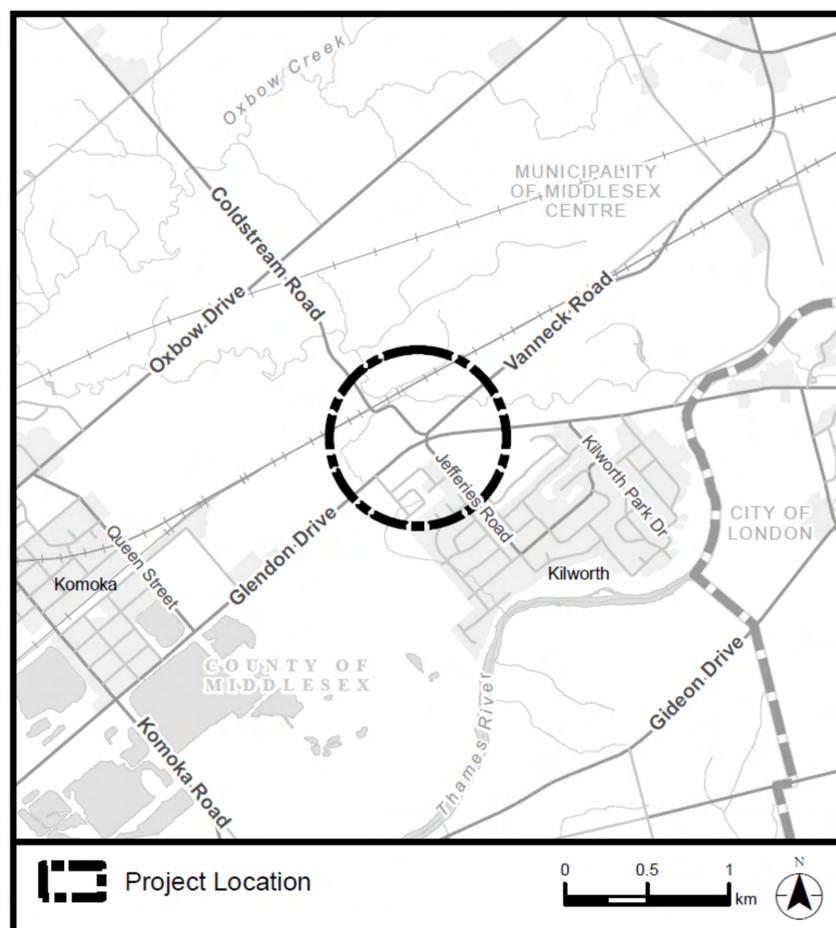
- **Road improvement design details**
- **Construction timing and impacts**
- **Staging and Detours**
- **Environmental considerations**

Comment sheets are available, and we encourage you to fill one out this evening or submit it to the project team by **Thursday, June 2, 2022**.

### Study Area

The detailed design is underway for the construction of a roundabout at the intersection of Glendon Drive, Vanneck Road, Coldstream Road and Jeffries Road, and the realignment of Coldstream Road.

Glendon Road is an east-west arterial road that provides connectivity between the local communities of Komoka and Kilworth.



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## Background

Middlesex County, in partnership with the Municipality of Middlesex Centre, has retained Stantec Consulting Ltd. (Stantec) to undertake the Detailed Design for the construction of a roundabout at the intersection of Glendon Drive, Vanneck Road, Coldstream Road and Jeffries Road, and the realignment of Coldstream Road

- Glendon Drive is an east-west arterial road that provides connectivity between the local communities of Komoka and Kilworth. It serves as a main commuter route to the City of London to the east and to the Highway 402 interchange to the west and serves as a through traffic route for intra-County traffic.
- As the local communities develop, it will be important to make improvements to Glendon Drive that will maintain its arterial road function and provide sufficient road capacity, while safely and efficiently accommodating active transportation modes.

### Improvements Include:

- The new roundabout
- Landscape Design
- New Illumination
- Drainage Improvements
- Utility Relocation
- Entrance Modifications
- Roadside Safety Modifications



## Previous Studies

**The Glendon Drive Streetscape** Municipal Class Environmental Assessment (Class EA) was completed from 2015 – 2018

### During the Preliminary Design Process the study:

- Followed the **Schedule 'C'** Class EA requirements.
- Completed
  - **Phases 1** - Problems and Opportunities
  - **Phase 2** – Existing Conditions/ Alternative Planning Solutions
  - **Phase 3** – Alternative Design Concepts for Preferred Solutions
  - **Phase 4** – Environmental Study Report (ESR)
- The decision-making process was documented in an Environmental Study Report (ESR) that was filed for a **30-calendar day review period**.



### Previous Consultation:

- PIC 1 (Nov. 2015)
- PIC 2 (June 2016)
- PIC 3 (Nov. 2017)
- Notice of Study Commencement (September 2015)
- Notice of Study Completion (June 2018)

### Final Recommendations

- Four leg roundabout with a closure of Coldstream Road at the intersection.
- Coldstream Realignment

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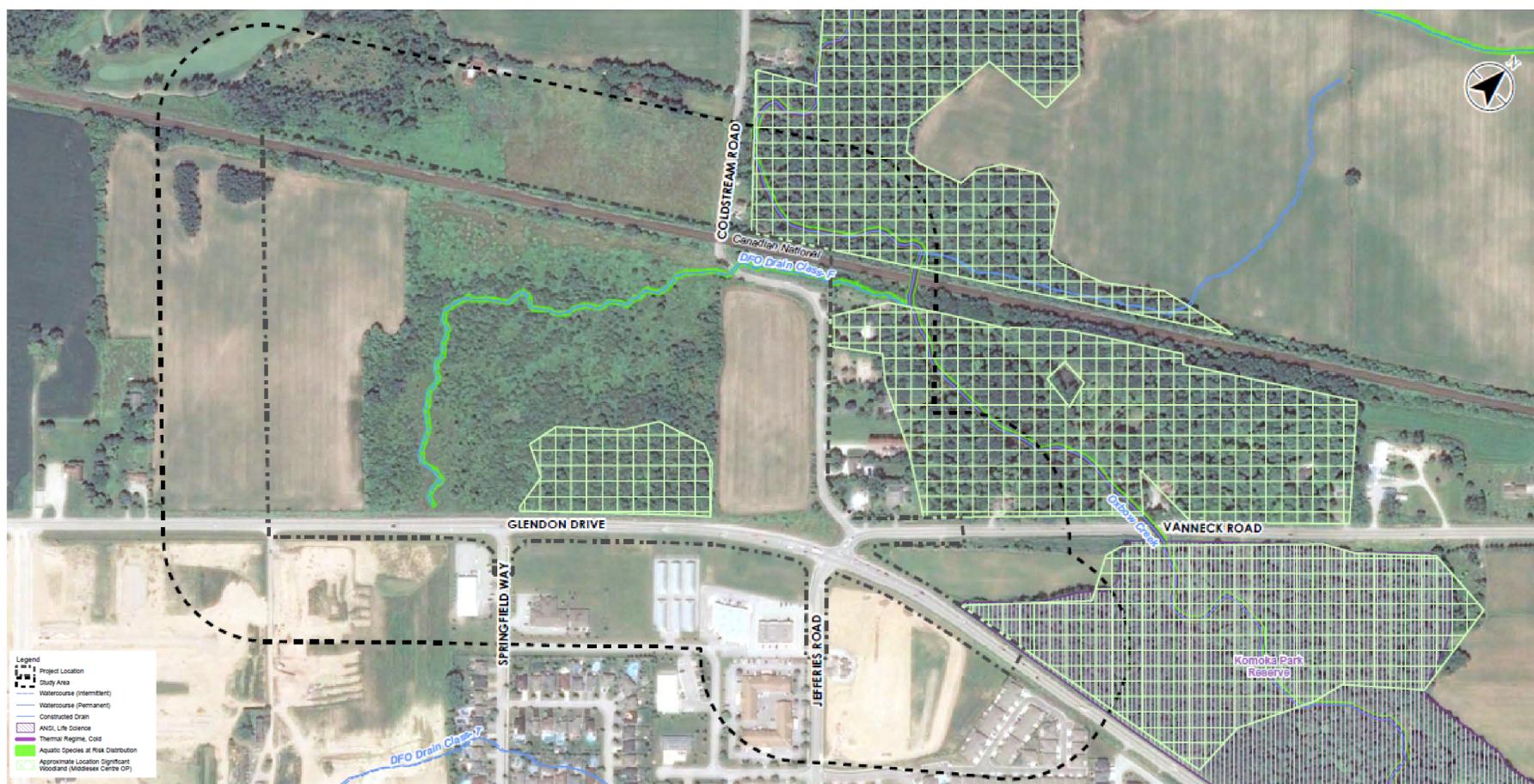


## Environmental Considerations

During the current detailed design phase, a number of field studies were conducted in 2021 to identify potential impacts of the road improvements and to identify mitigation and protection measures.

### Studies Included:

- Archaeology
- Terrestrial Wildlife Assessment
- Habitat Assessment
- Drainage
- Terrestrial Vegetation Assessment
- Tree Inventory



# Roundabout

## What is a **roundabout**?

Roundabouts are unsignalized circular intersections designed to maximize safety and minimize delay.



Traffic circulates counter-clockwise around the central island. Entering vehicles must yield to all traffic already in the roundabout



## Roundabout **benefits**

- Reduce injury accidents by 75% and fatal accidents by 90%
- Increase efficient traffic flow up to 50%
- Reduces emissions, while also decreasing fuel consumption by 30%



# Glendon Drive Roundabout and Coldstream Road Realignment

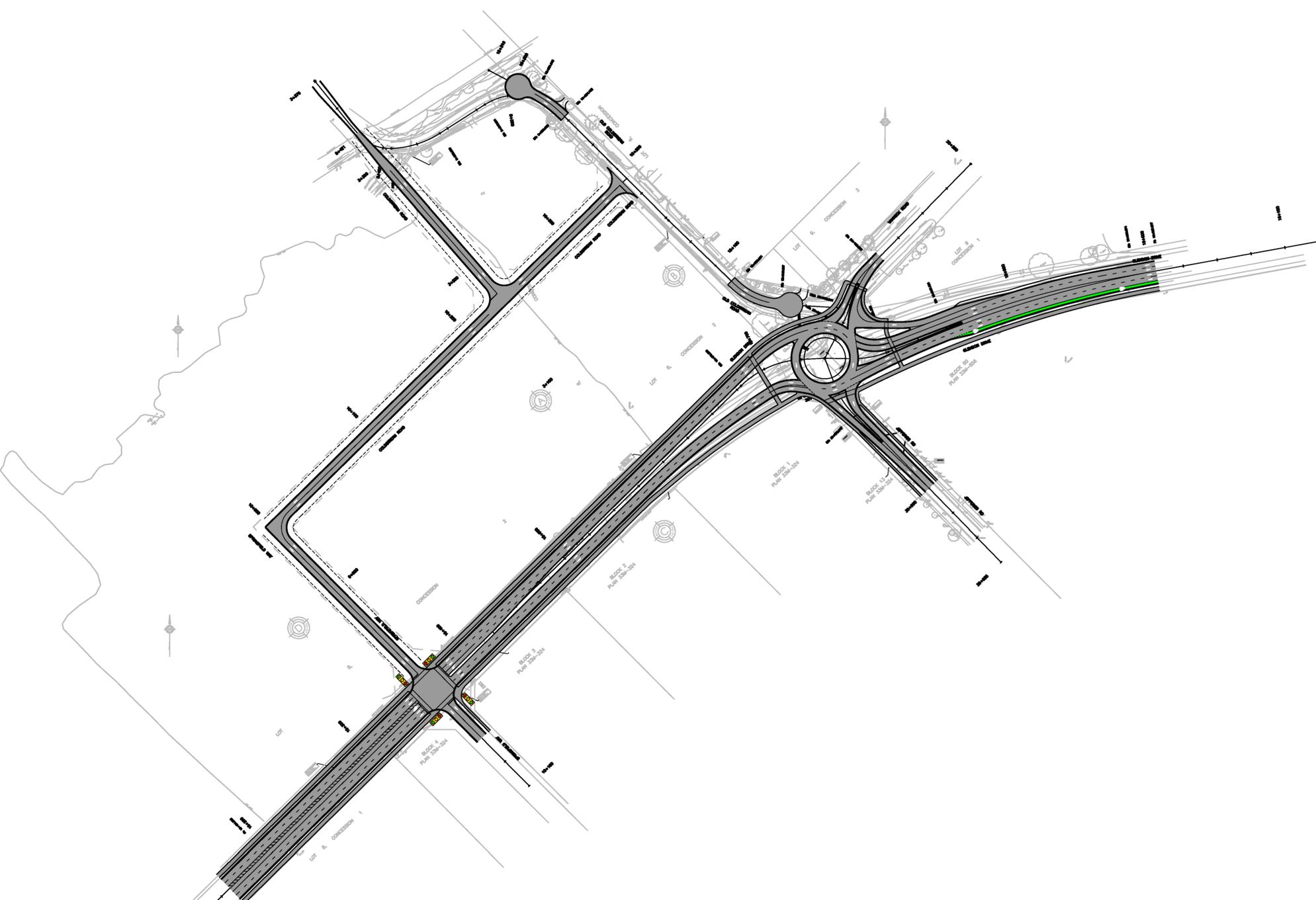
Detailed Design



## Design Details - Ultimate Design

The following shows the ultimate design plan for Glendon Drive Roundabout and Coldstream Realignment

The Ultimate Plan will be constructed when traffic volumes demand the increased capacity. This plan includes additional lanes on Glendon and within the roundabout.



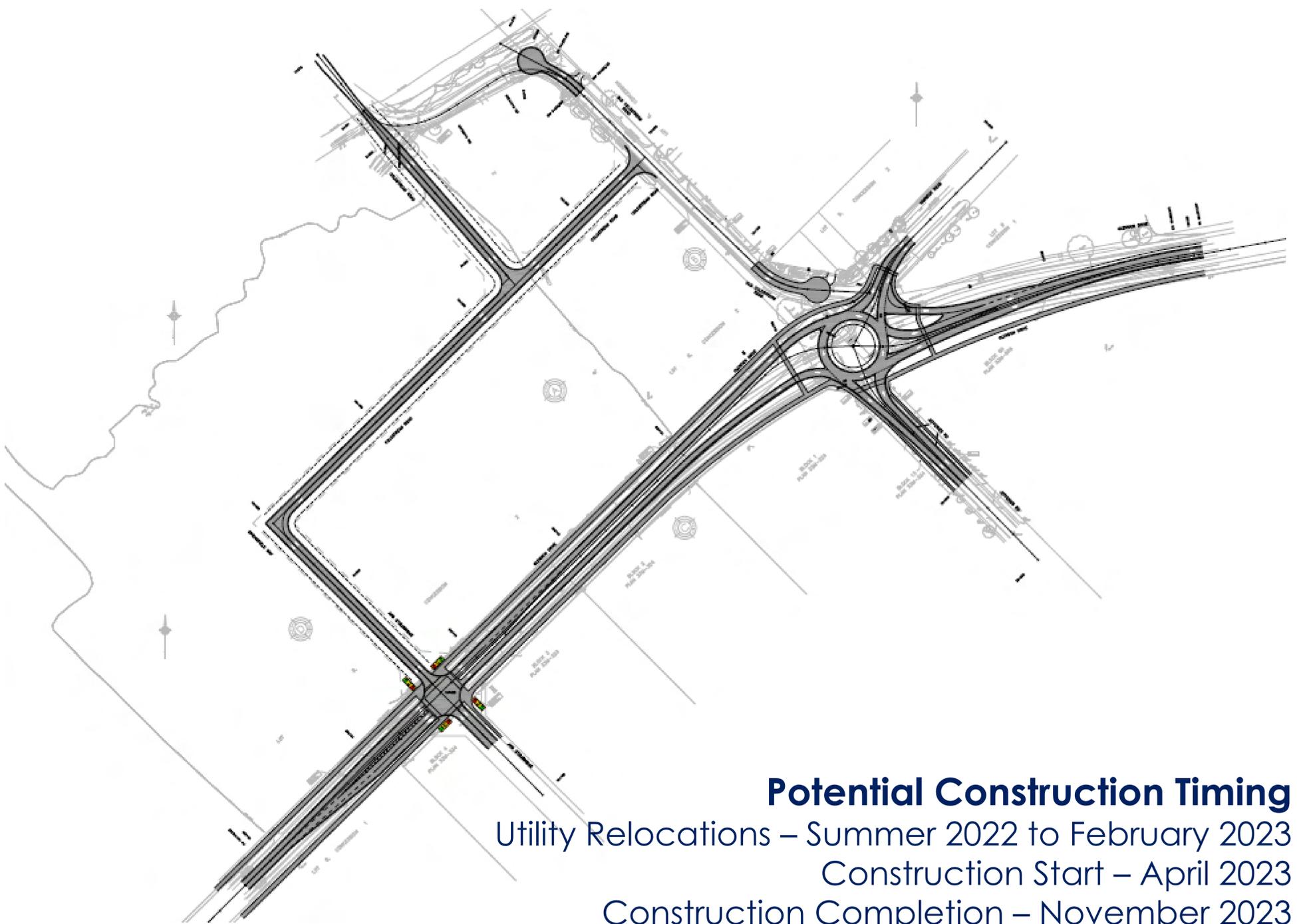
## Design Details - Interim Design

The following shows the interim design plan for Glendon Drive Roundabout and Coldstream Realignment

To accommodate near future traffic volumes, the Ultimate Design will be phased in. An Interim Design will first include a 1-lane roundabout and 1-lane in each direction on Glendon Road

The following utilities are to be relocate ahead of construction. Impacts to services are anticipated to be minor and will be coordinated by the individual utility companies.

Bell Canada	Rogers
Enbridge	Hydro One



### Potential Construction Timing

Utility Relocations – Summer 2022 to February 2023

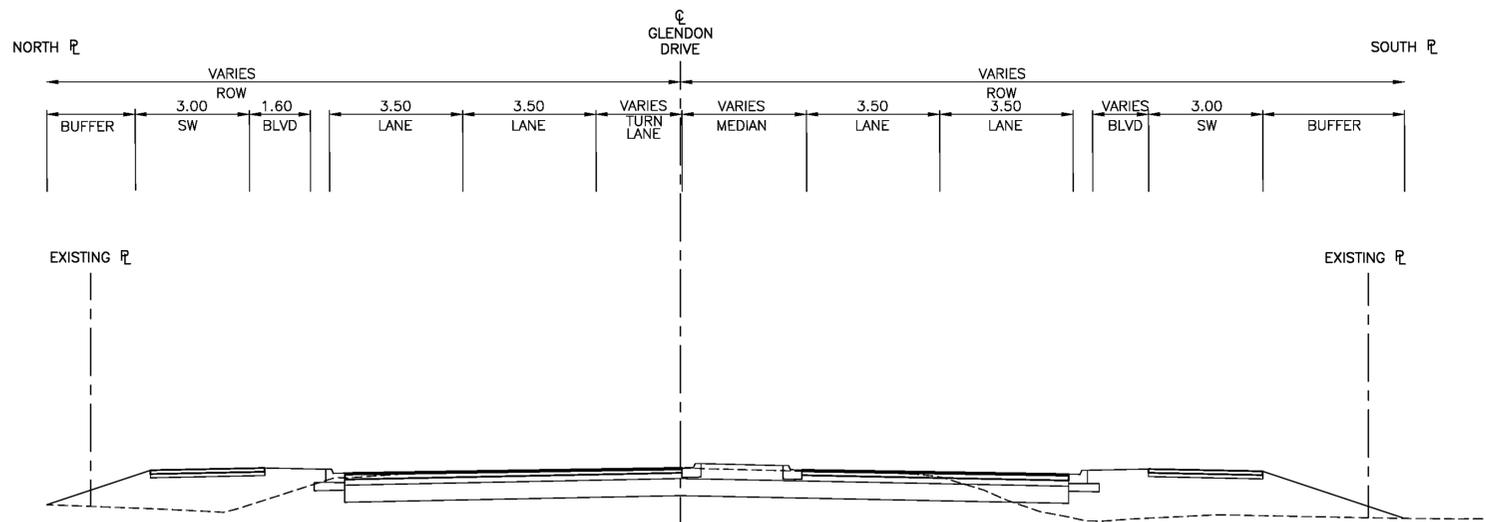
Construction Start – April 2023

Construction Completion – November 2023

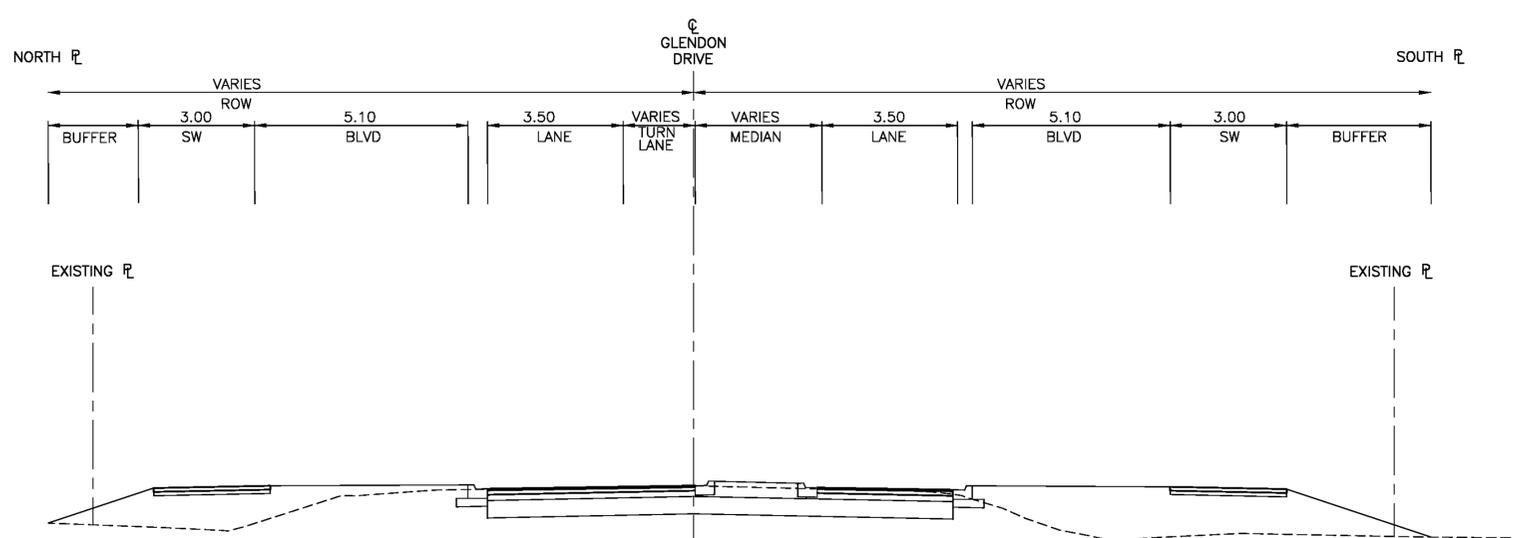


## Design Details – Cross Sections

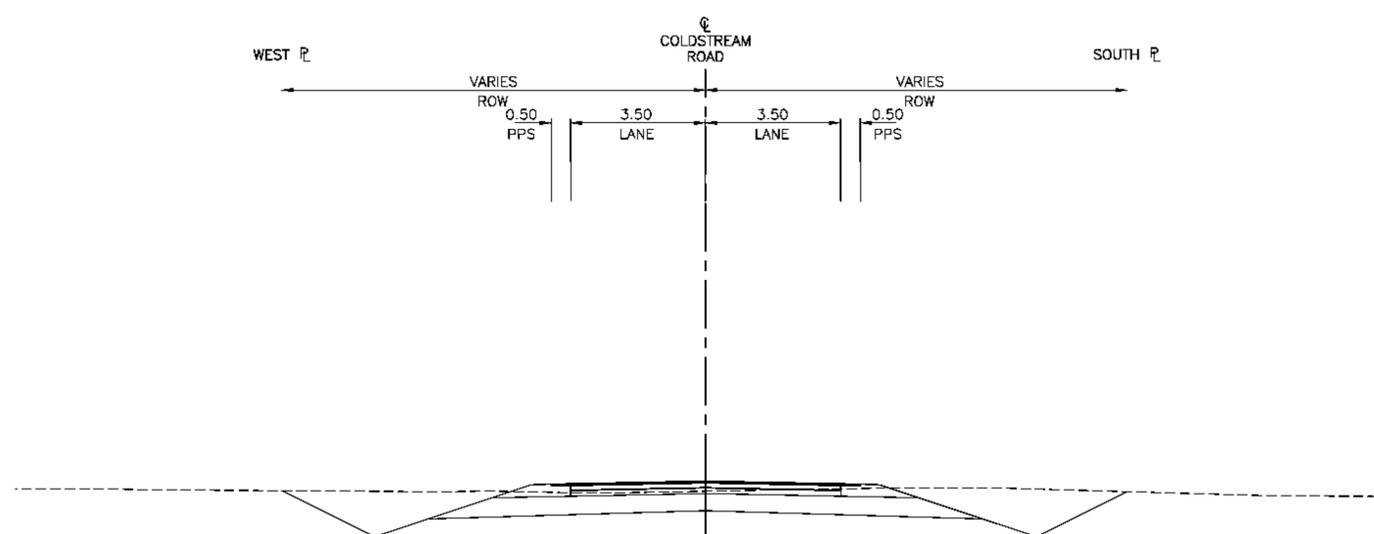
### Ultimate Cross Section Glendon Drive



### Interim Cross Section Glendon Drive

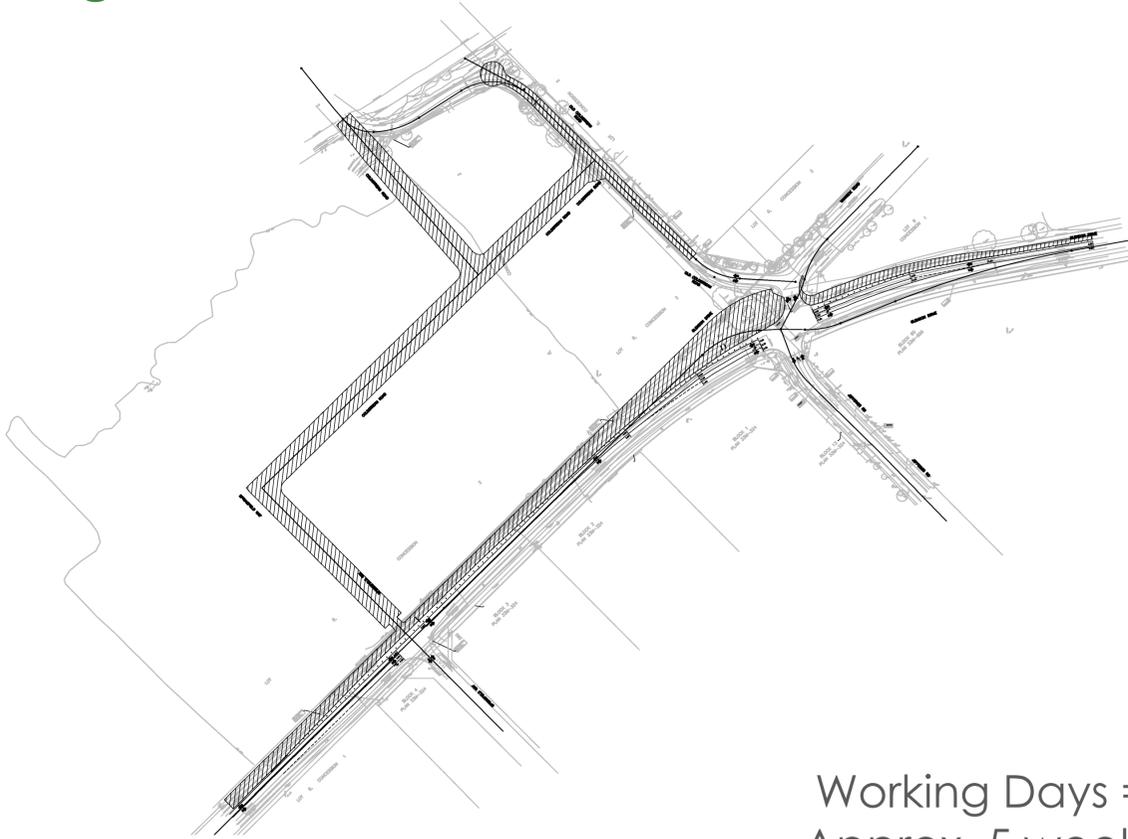


### Coldstream Road Cross Section



## Anticipated Construction Staging

### Stage 1



Working Days =  
Approx. 5 weeks

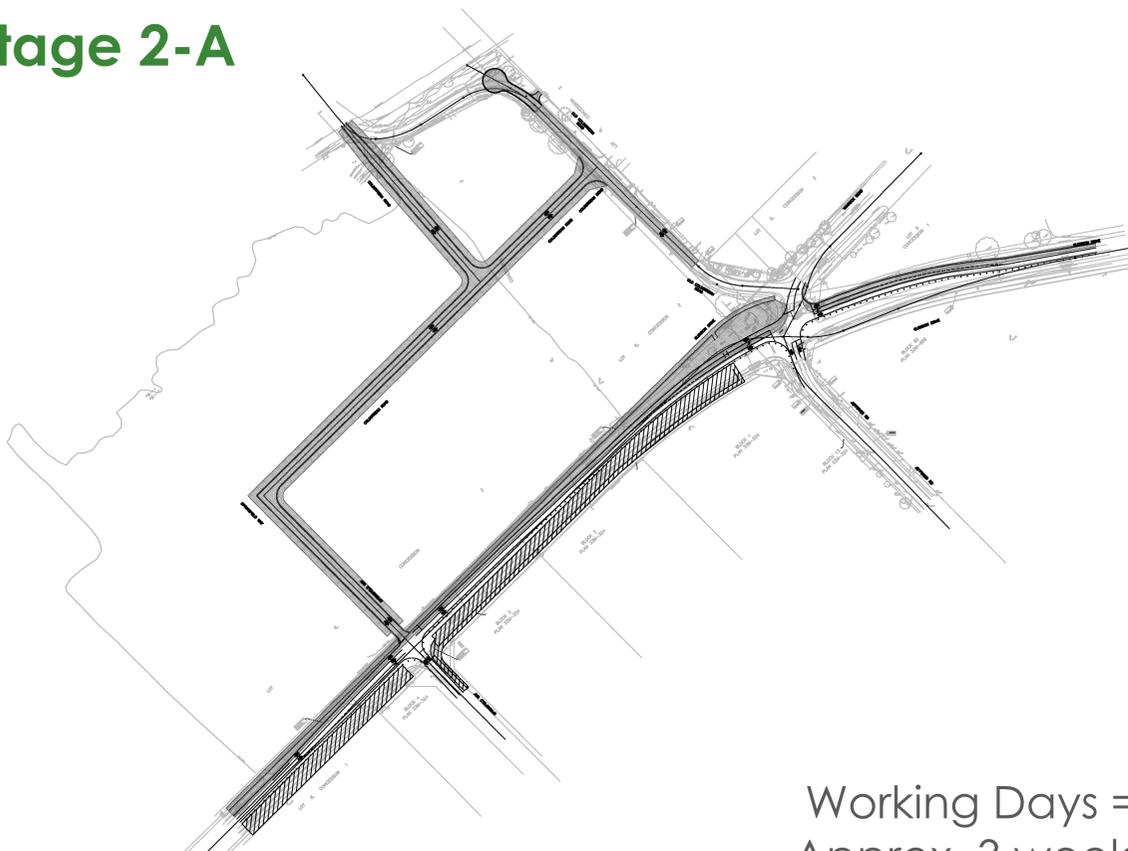
#### Road Construction

- Construct new Coldstream Road alignment in greenfield
- Construct a stop control intersection at Coldstream and Glendon
- Construct the west cul-de-sac near the bend on Old Coldstream Road. Construction will commence following completion of new Coldstream Road alignment
- Construct temporary pavement widening on north side of Glendon Drive
- Construct sidewalk on the north side of Glendon Drive from west limit to roundabout

#### Traffic

- Lane shift to south of Glendon Drive
- Springfield Way (south leg), Jefferies Road and Vanneck Road to remain on existing lanes

### Stage 2-A



Working Days =  
Approx. 3 weeks

#### Road Construction

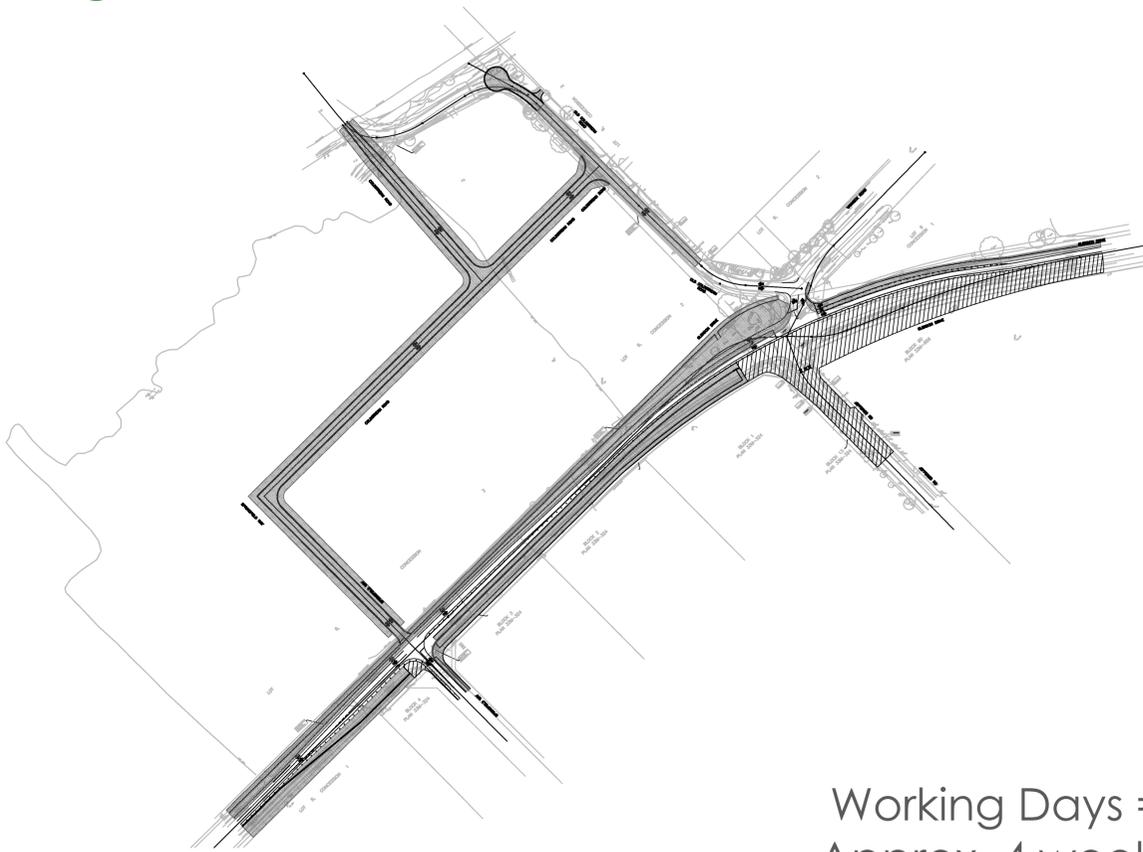
- Construction Glendon Drive eastbound lane from west limit to 20 m west of Jefferies Road
- Construct east side of Springfield Way
- Construct sidewalk southside of Glendon Drive from west limit to west of Roundabout

#### Traffic

- Lane shift to north of Glendon on temporary widening
- Springfield Way (south leg) on reduced lanes
- Springfield Way (north leg) operation on stop condition
- Jefferies Road and Vanneck Road lanes shifted

## Anticipated Construction Staging

### Stage 2-B



Working Days =  
Approx. 4 weeks

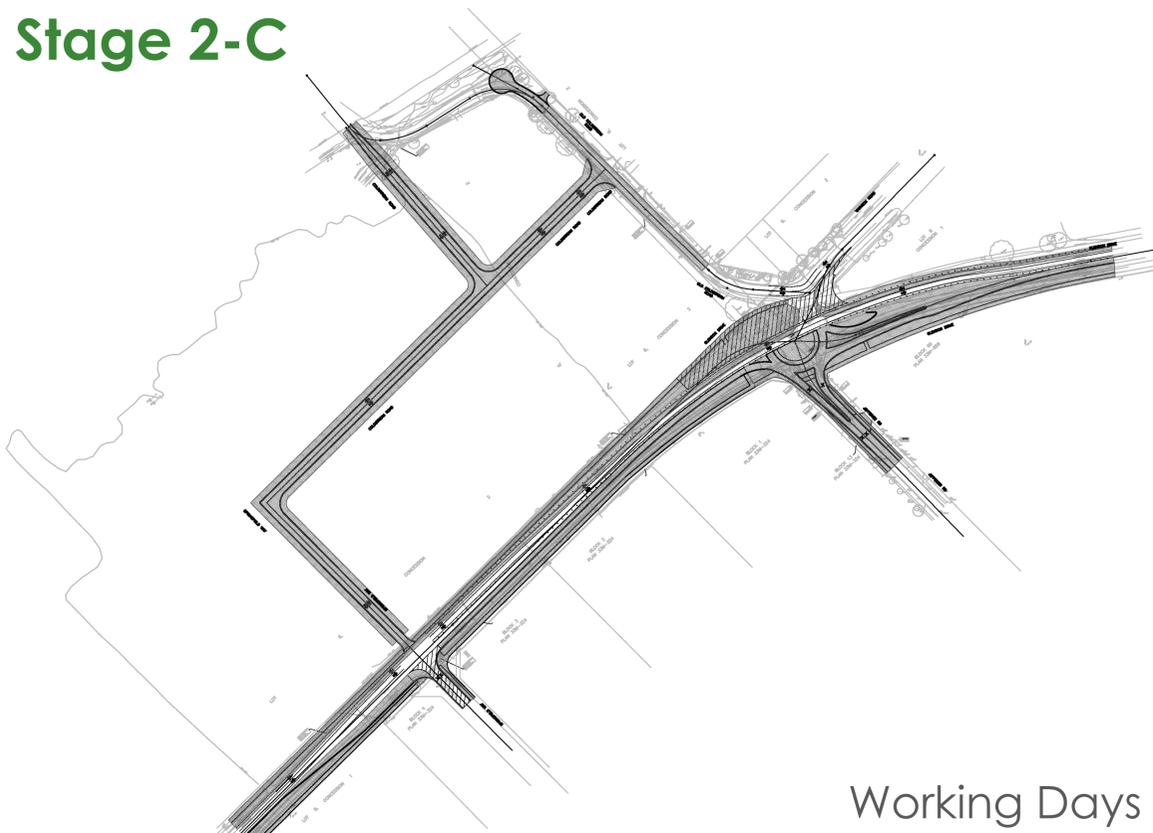
#### Road Construction

- Construction the south side of roundabout
- Construct new curbs and sidewalks on Jefferies Road
- Construct west side of Springfield Way (south leg)

#### Traffic

- Lane shift to north of Glendon Drive on temporary widening
- Springfield Way (south leg) on reduced lanes
- Springfield Way (north leg) operation on stop condition
- Jefferies Road closed, detour to Enterprise Road to Doan Road and to Springfield Way
- Vanneck Road on existing lanes

### Stage 2-C



Working Days =  
Approx. 4 weeks

#### Road Construction

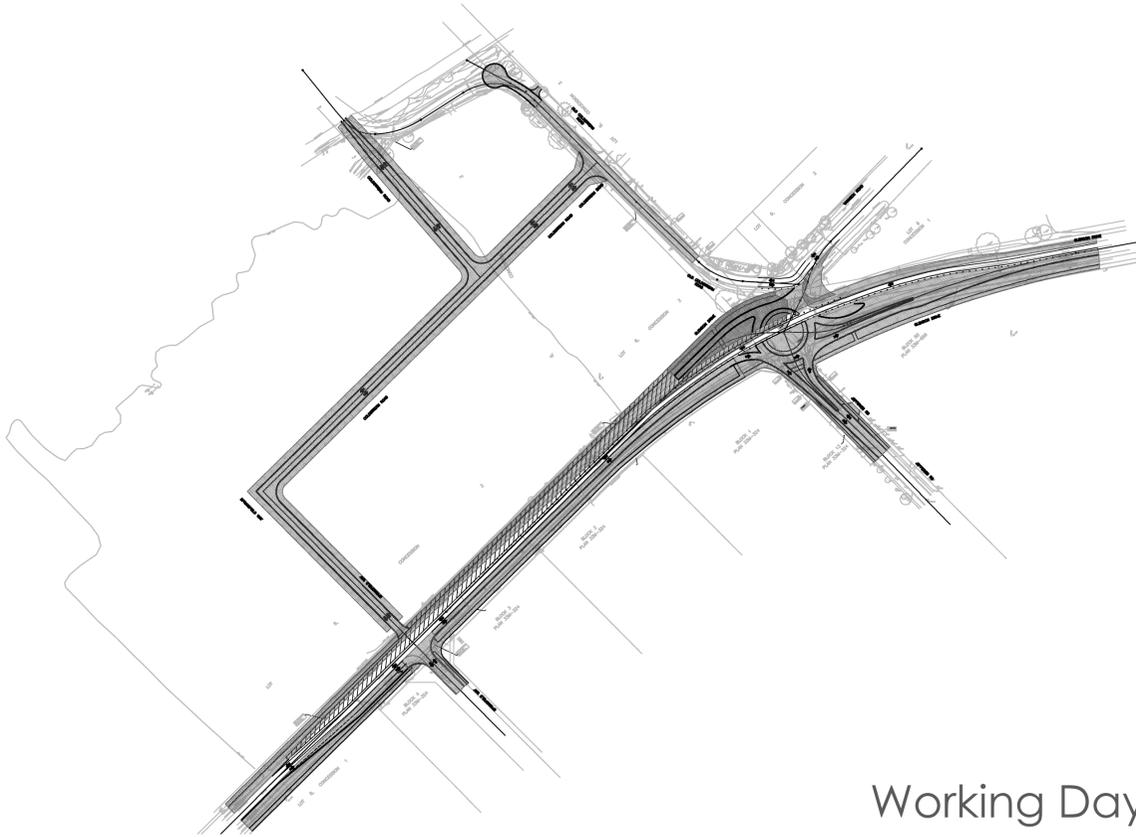
- Construct the north side of the roundabout
- Construct the rest of Springfield Way (south leg) including Glendon Drive westbound lane at the intersection

#### Traffic

- Lane shift to north of Glendon on temporary widening
- Springfield Way (south leg) on existing lanes
- Springfield Way (north leg) operational on stop condition
- Jefferies Road closed, detour to Enterprise Road to Doan Road and to Springfield Way
- Vanneck Road to use old Coldstream Road

## Anticipated Construction Staging

### Stage 3-A



Working Days =  
Approx. 3 weeks

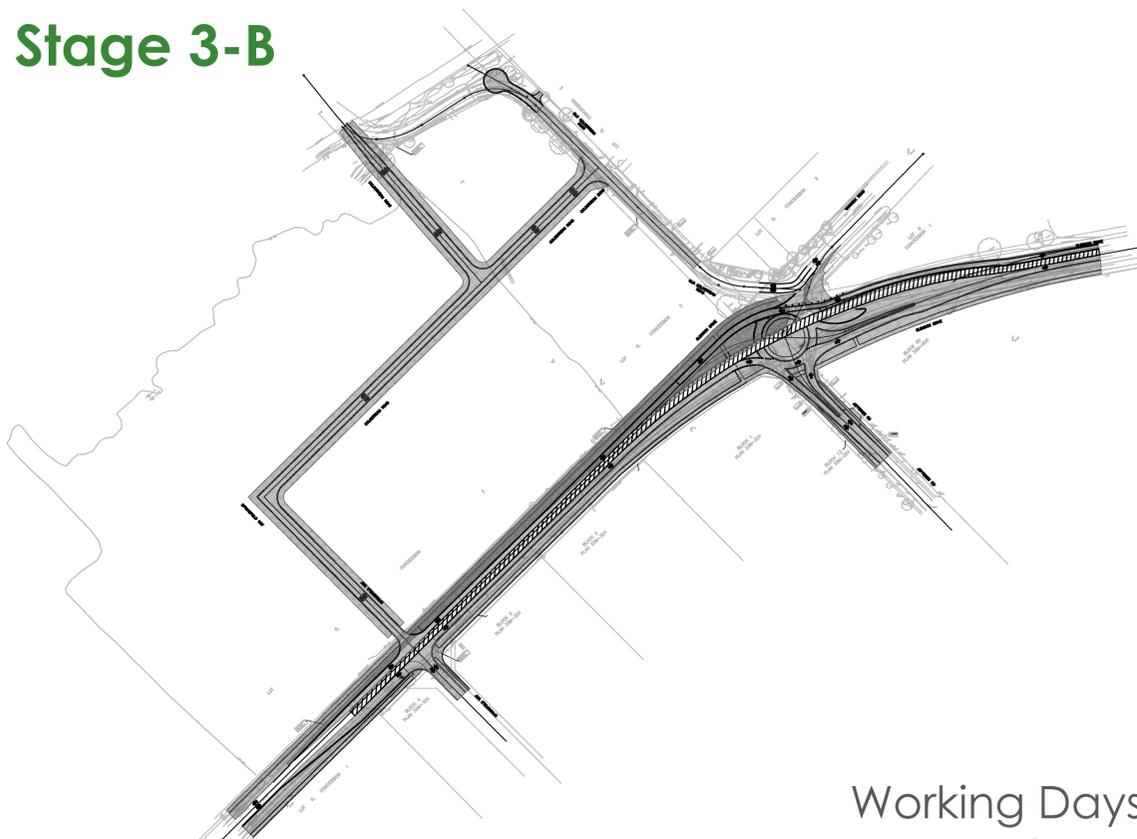
#### Road Construction

- Construct westbound lane from west of roundabout to west limit

#### Traffic

- Traffic shifted to south of Glendon Drive
- Springfield Way (south leg) operational
- Springfield Way (north leg) flagged traffic
- Jefferies Road operation, access only to Glendon Drive
- Vanneck Road traffic to use old Coldstream Road

### Stage 3-B



Working Days =  
Approx. 2 weeks

#### Road Construction

- Construct the remaining work on the roundabout
- Construct median of Glendon Drive from just west of Springfield Way to east limit

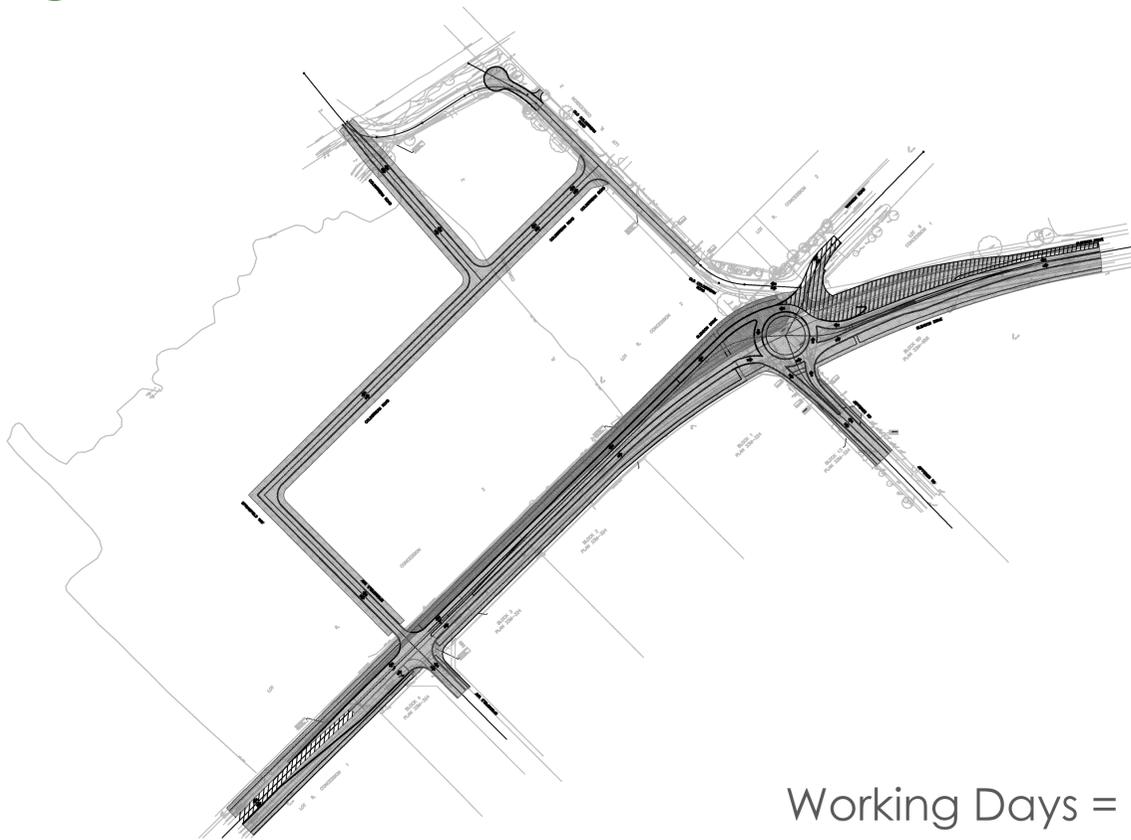
#### Traffic

- Glendon Drive traffic on new lanes
- Springfield Way and Glendon Drive intersection to be flagged during construction
- Jefferies Road is operation. Access only to Glendon Drive (right in and right out only)
- Vanneck Road to use old Coldstream Road



## Anticipated Construction Staging

### Stage 4-A



Working Days =  
Approx. 2 weeks

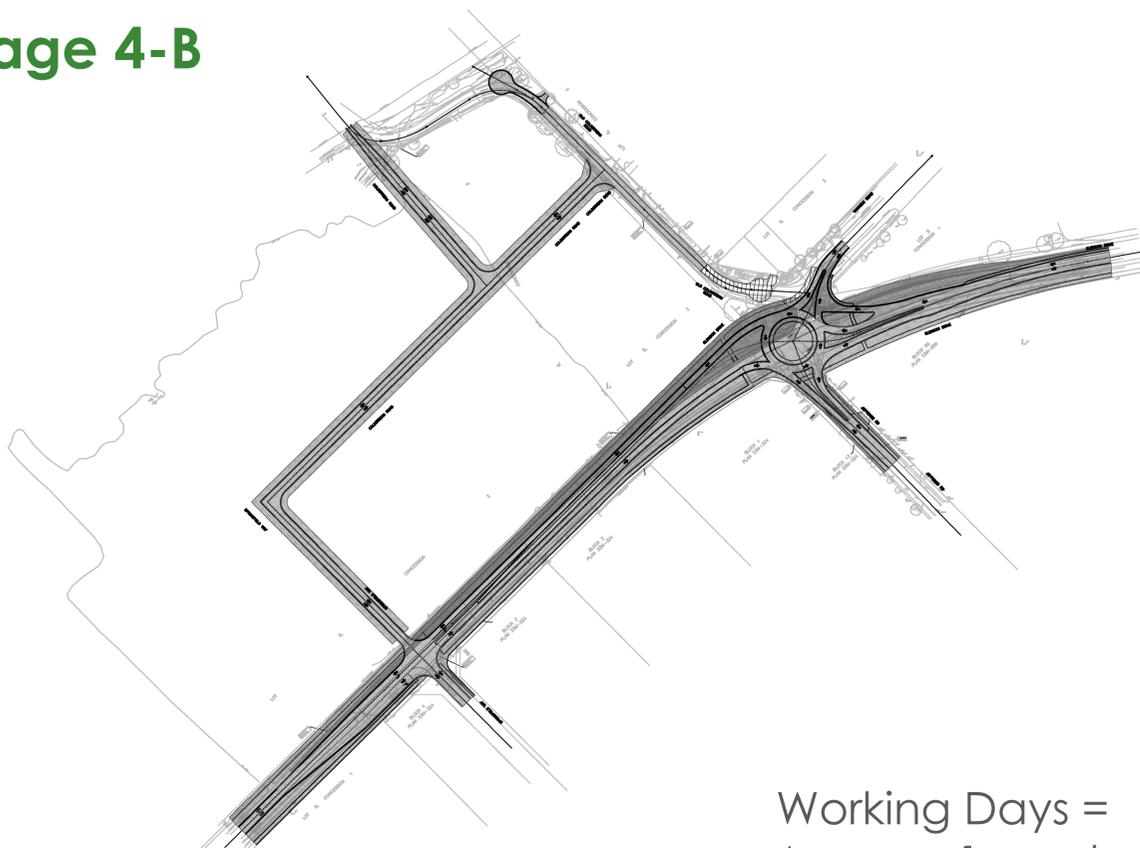
#### Road Construction

- Construct the remaining road work on Glendon Drive west of Springfield Way
- Construct the remaining road work on the north leg of the roundabout

#### Traffic

- Glendon Drive traffic on new lanes
- Springfield Way and Glendon Drive intersection fully operational
- Roundabout fully operational. No access to and from Vanneck Road
- Vanneck Road to be flagged during construction
- Glendon Drive west of Springfield Way to be flagged during construction

### Stage 4-B



Working Days =  
Approx. 1 week

#### Road Construction

- Construct the remaining sidewalk north of Vanneck Road
- Construct south cul-de-sac

#### Traffic

- Glendon Drive traffic on new lanes
- Springfield Way and Glendon Drive intersection fully operational
- Roundabout full operational

## Proposed Detour Routes

Proposed detour routes were developed to maintain access for residents and emergency services during construction stages.



### Stage 2B and 2C

#### Detour – Jefferies Road Closure From Glendon Dr. to 90m south of Glendon Drive

Approximately 630 m  
Duration 2 months

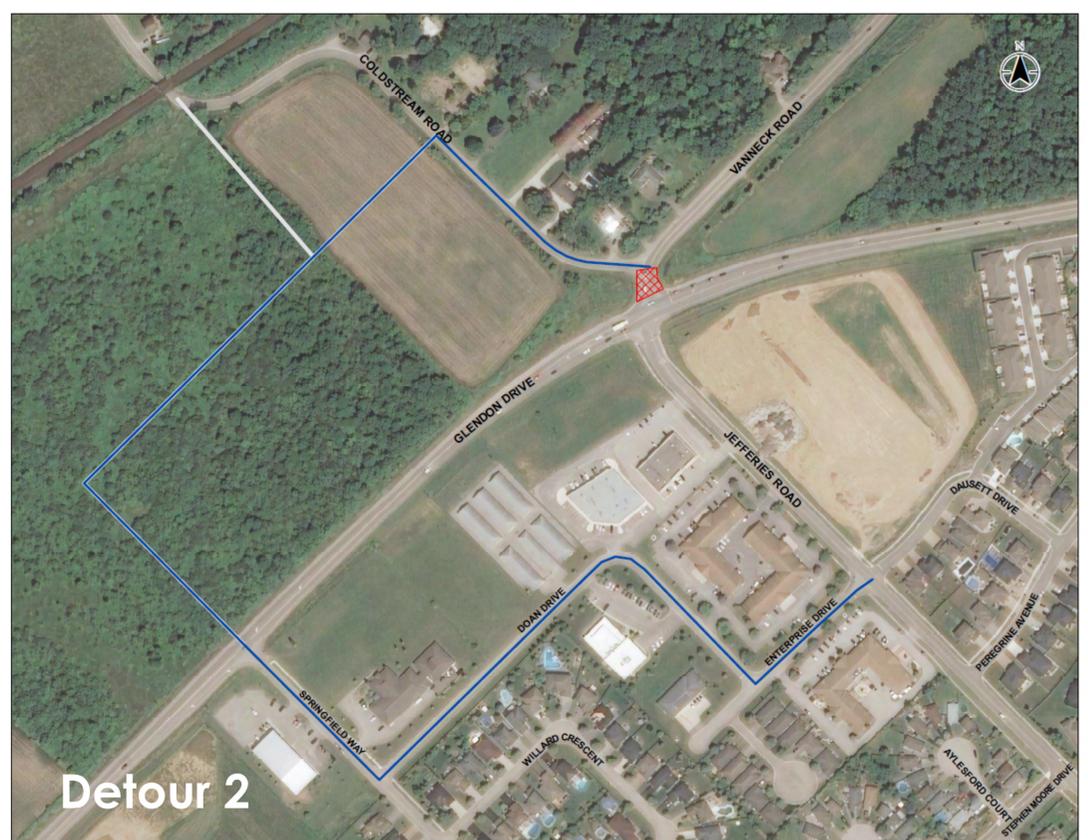
Detour 1

### Stage 2C, 3A, 3B and 4A

#### Detour – Vanneck Road closure at Glendon Drive

Approximately 1,350 m  
Duration 3 months

- LEGEND
- DETOUR ROUTE
  - NEW COLDSTREAM ROAD
  - ROAD CLOSED



Detour 2

# Glendon Drive Roundabout and Coldstream Road Realignment

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## Thank You

**Thank you for attending Public Information Centre.  
Please provide comments by Thursday, June 2<sup>nd</sup>, 2022.**

Comment sheets are available to fill in this evening or you may provide your comments directly to:

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**Please feel free to contact us with any questions or comments.**

### Next Steps

- Complete detailed design 2022
- Commence Utility Relocation 2022
- Construction start 2023

