

MINISTRY OF TRANSPORTATION

Highway 148 Detail Design and Class Environmental Assessment Study (GWP 214-00-00)



Public Information Centre

November 3, 2022

WELCOME

The Ontario Ministry of Transportation (MTO) is undertaking the Detail Design and Class Environmental Assessment (EA) Study for Highway 148 from approximately 200m west of Angus Campbell Drive in the City of Pembroke to approximately 300m east of the Greenwood Road intersection.

The Study includes:

- Pavement rehabilitation to address poor pavement performance;
- Intersection and operational improvements;
- Pedestrian and cycling safety improvements;
- Highway drainage improvements;
- Access improvements through consultation with property owners; and
- Improvements to municipal infrastructure.

Additional information can be found on the project website at www.hwy148.ca.

We look forward to your input and feedback. To provide comments, or if you wish to be added to the Study mailing list, please complete a **Comment Sheet**, visit the Study website at www.hwy148.ca or contact any of the Study team members. Please contact any of the project team members if you have any accessibility needs to review the Public Information Centre materials or would like to review the information in French.

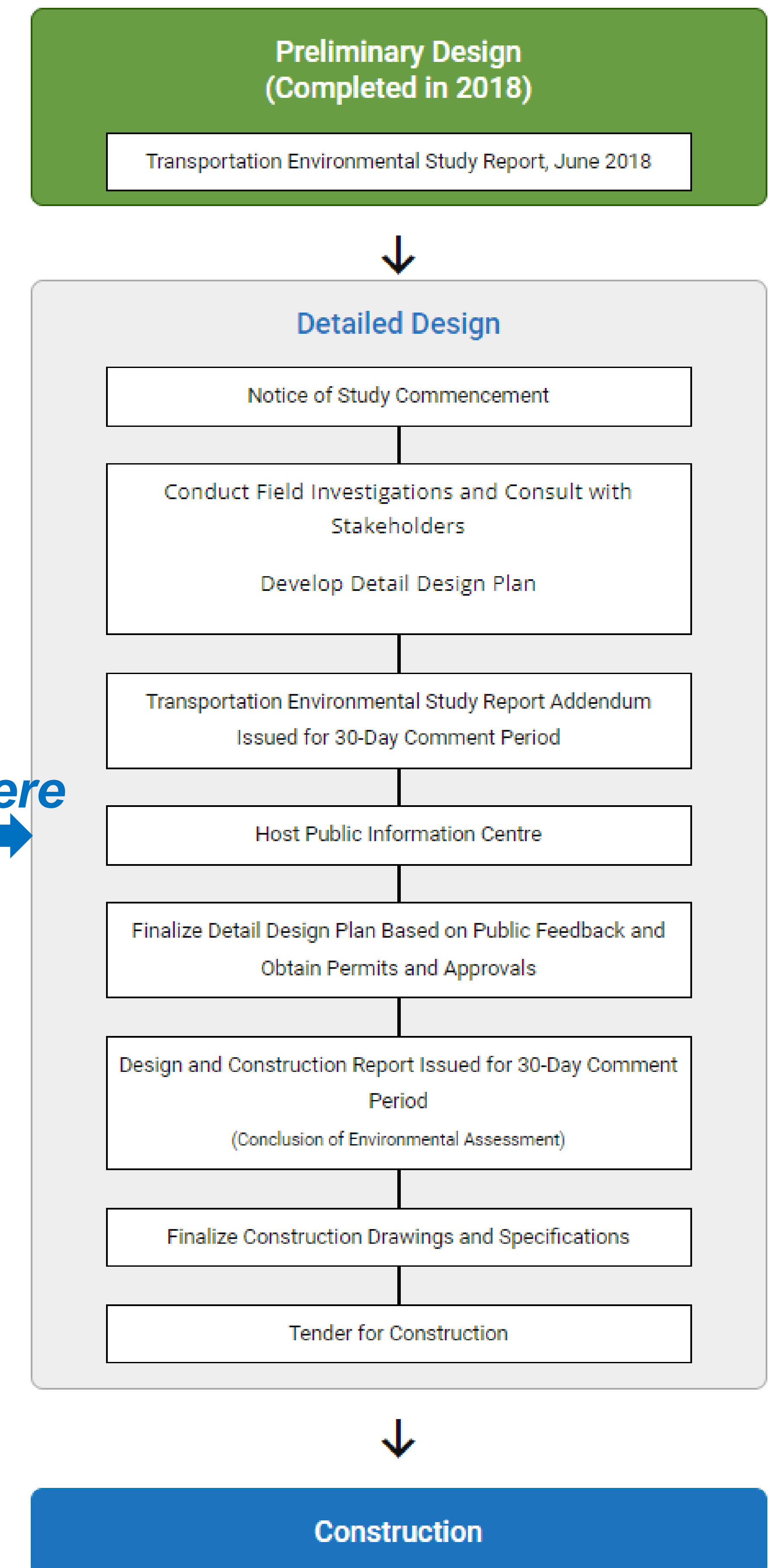
Study Area Map



ENVIRONMENTAL ASSESSMENT AND CONSULTATION PROCESS

The Class EA process for this detail design study is being undertaken as a **Group 'B'** project under the MTO Class EA for Provincial Transportation Facilities (2000), which represents major improvements to existing provincial transportation facilities.

- As required for “Group B” projects, a Transportation Environmental Study Report (TESR) was published in June 2018 to document the preliminary design phase of the project.
- An addendum to the TESR was prepared in October 2022 to document changes to the Preliminary Design such as additional property requirements and limited night work. The TESR Addendum can be viewed on the project website at www.hwy148.ca.
- This Public Information Centre presents final plans for construction, associated impacts and mitigation measures and provides an overview of related impacts. The purpose of this meeting is to allow the public to review the design plans and provide comments on the information provided.
- Following this Public Information Centre, MTO will finalize the Detail Design plan based on feedback received and prepare the Design and Construction Report (DCR) for a 30-day comment period. An Environmental Clearance will then be issued to proceed to construction.

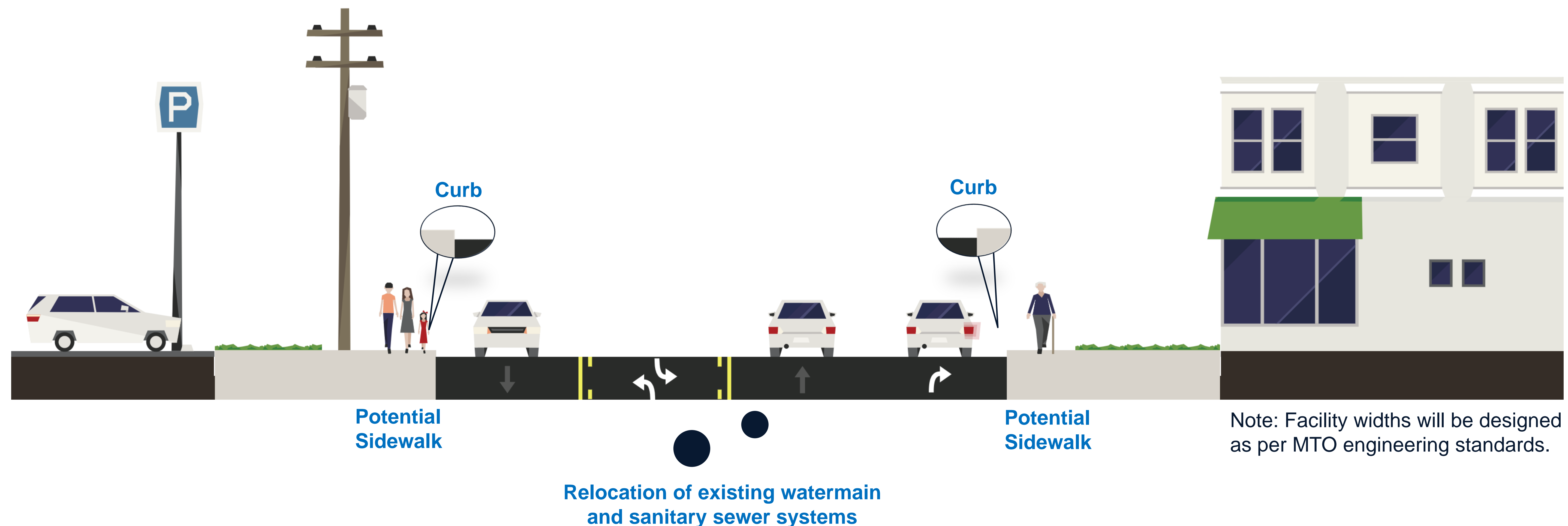


RECOMMENDED PLAN

HIGHWAY 148 FROM ANGUS CAMPBELL DRIVE TO DRIVE-IN ROAD

- New curbs will be constructed and minor road widening will occur to accommodate a continuous two-way left-turn lane.
- A curb will be installed with drainage and storm sewer upgrades to capture the roadway surface water run-off.
- New traffic signals will be installed at the intersection of Highway 148 and Drive-In Road.
- Existing watermain and sanitary sewer systems will be re-located.
- Access improvements through consultation with property owners.

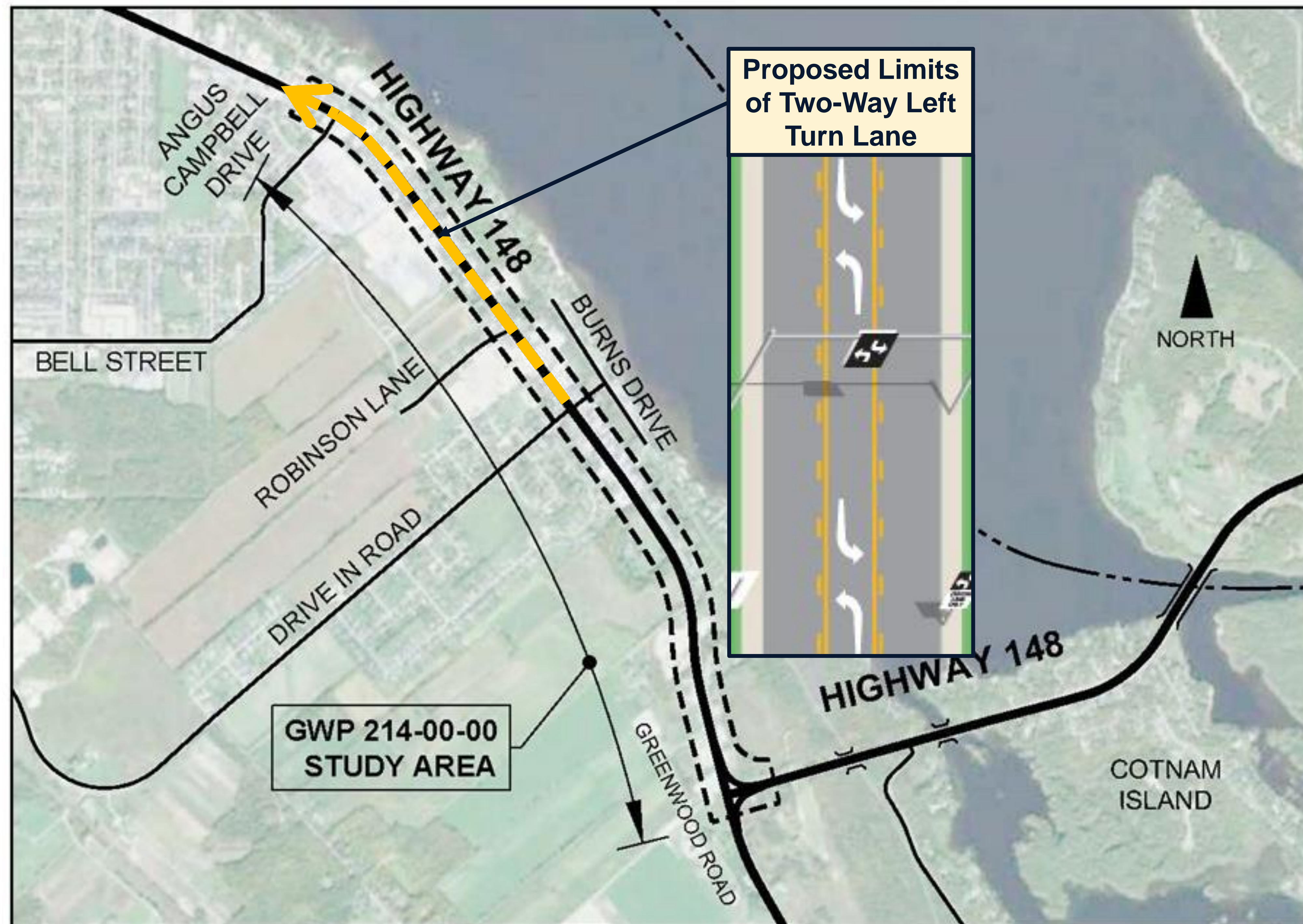
Typical Cross-Section – Angus Campbell Drive to Drive In Road



RECOMMENDED PLAN

HIGHWAY 148 FROM ANGUS CAMPBELL DRIVE TO DRIVE-IN ROAD

- From west of Angus Campbell Drive to Drive-In Road, a new continuous two-way left-turn lane will improve left-turn access to adjacent side streets and properties along Highway 148.



Example of Existing Two Way Left Turn Lane
West of Angus Campbell Drive

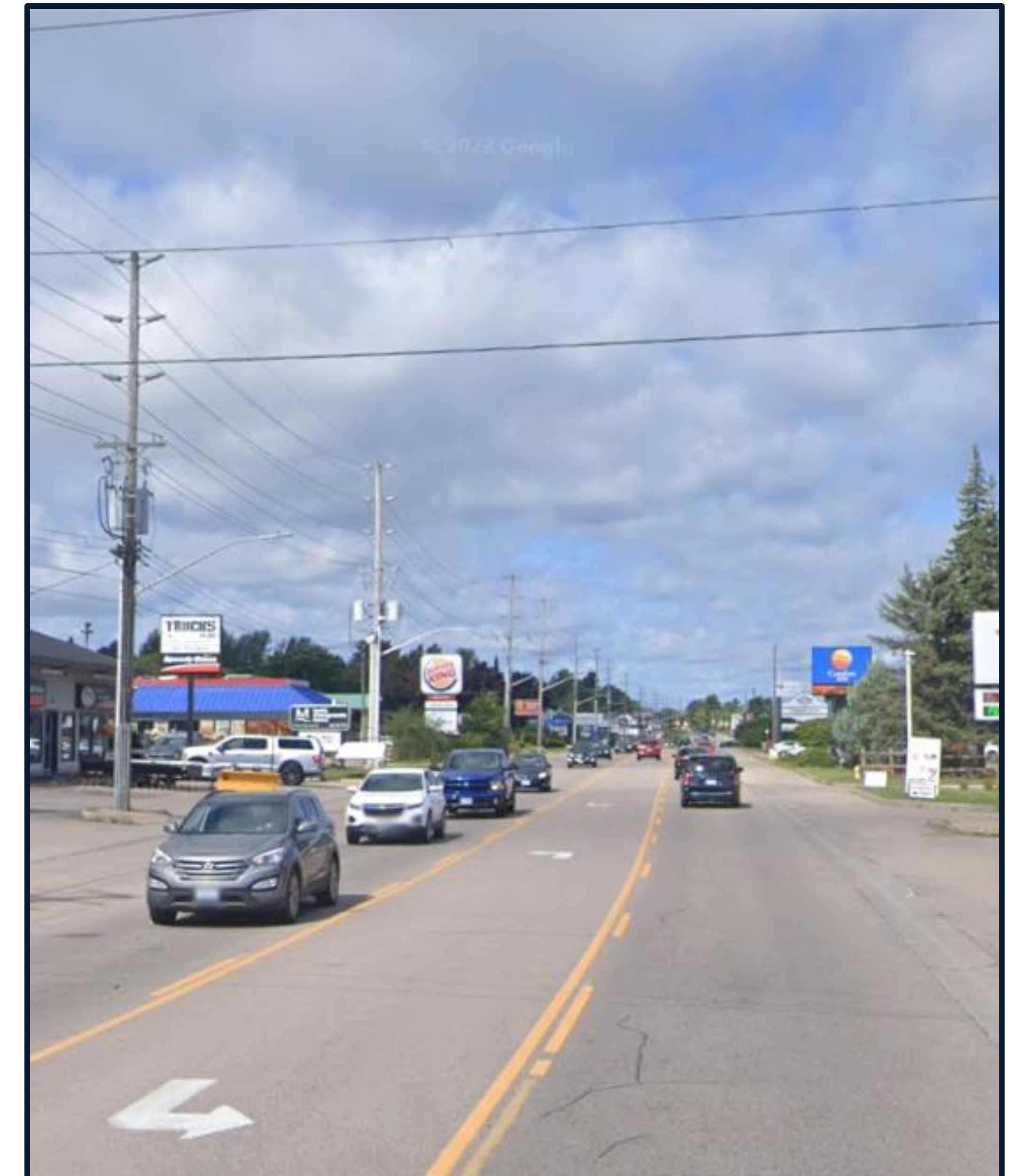


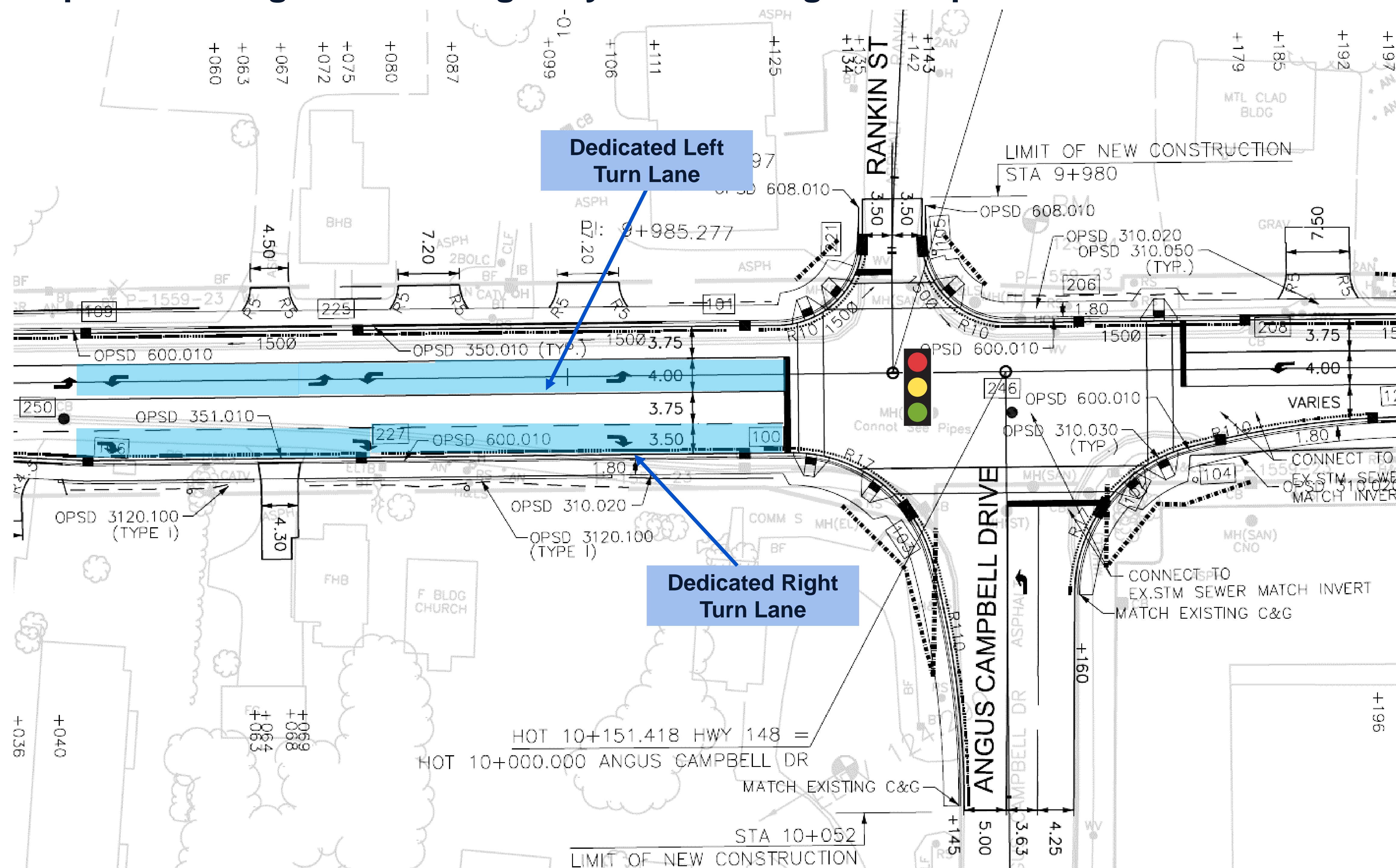
Image Source: Google

RECOMMENDED PLAN

ANGUS CAMPBELL DRIVE / RANKIN STREET INTERSECTION

- The existing signals will be replaced with new signals. The intersection will be upgraded to meet current design standards and the Accessibility for Ontarians with Disabilities Act, 2005.
- Dedicated southbound left and right turn lanes will be added.

Proposed Configuration at Highway 148 and Angus Campbell Drive / Rankin Street

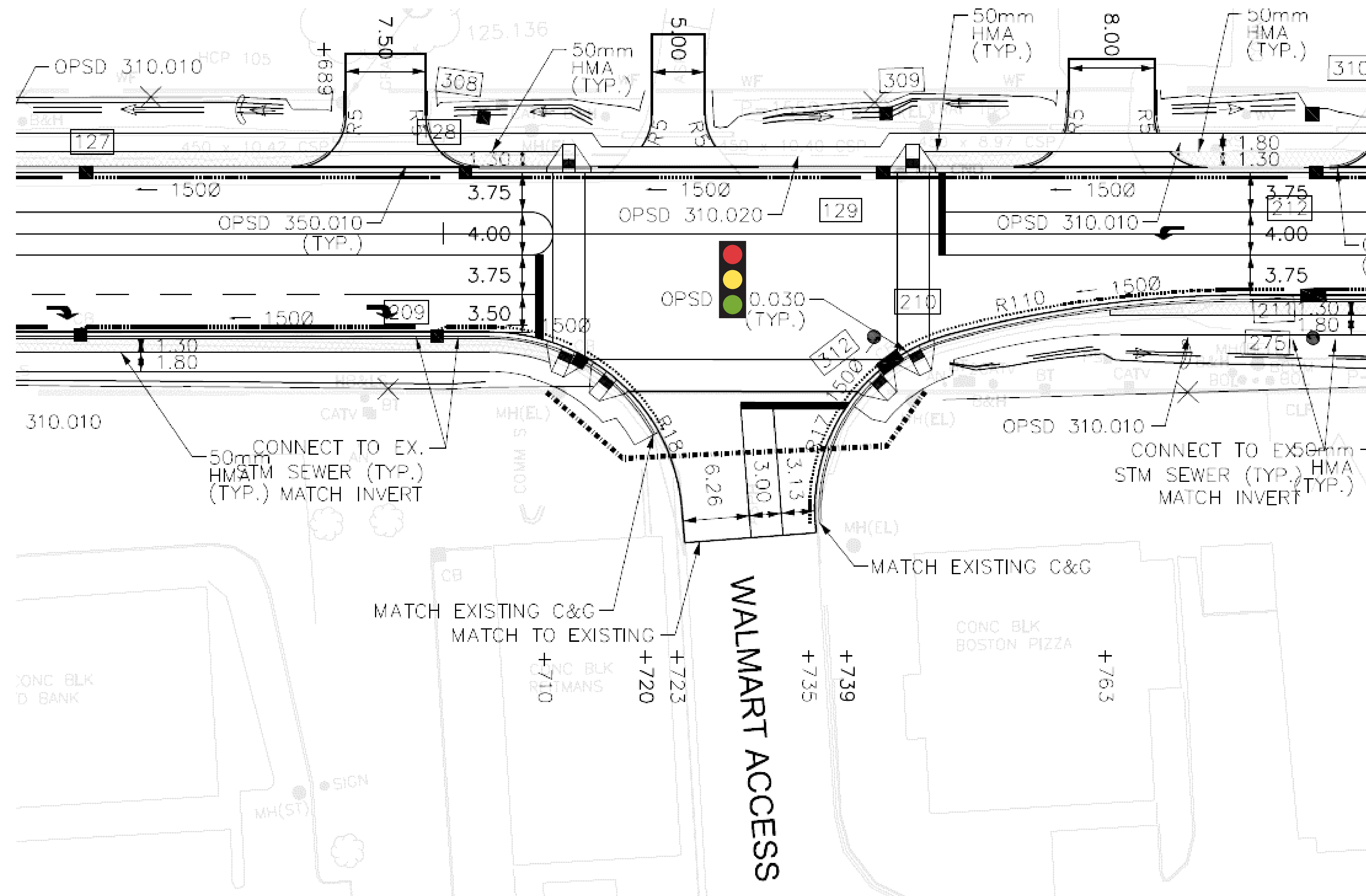


RECOMMENDED PLAN

WALMART ACCESS (NO CHANGE)

- The existing signals will be replaced with new signals. The intersection will be upgraded to meet current design standards and the Accessibility for Ontarians with Disabilities Act, 2005.

Proposed Configuration at Highway 148 and Walmart Access

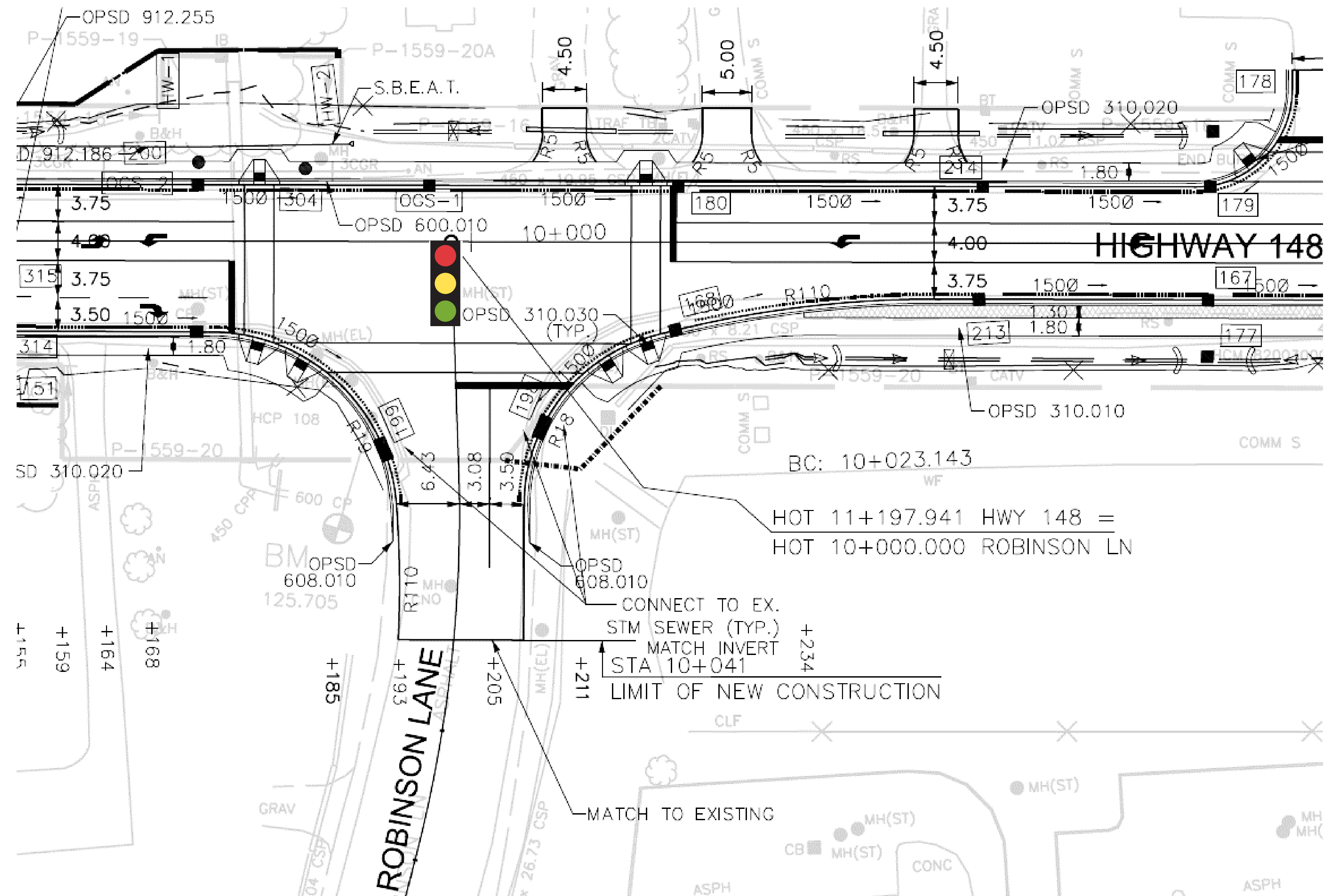


RECOMMENDED PLAN

ROBINSON LANE INTERSECTION (NO CHANGE)

- The existing signals will be replaced with new signals. The intersection will be upgraded to meet current design standards and the Accessibility for Ontarians with Disabilities Act, 2005.

Proposed Configuration at Highway 148 and Robinson Lane

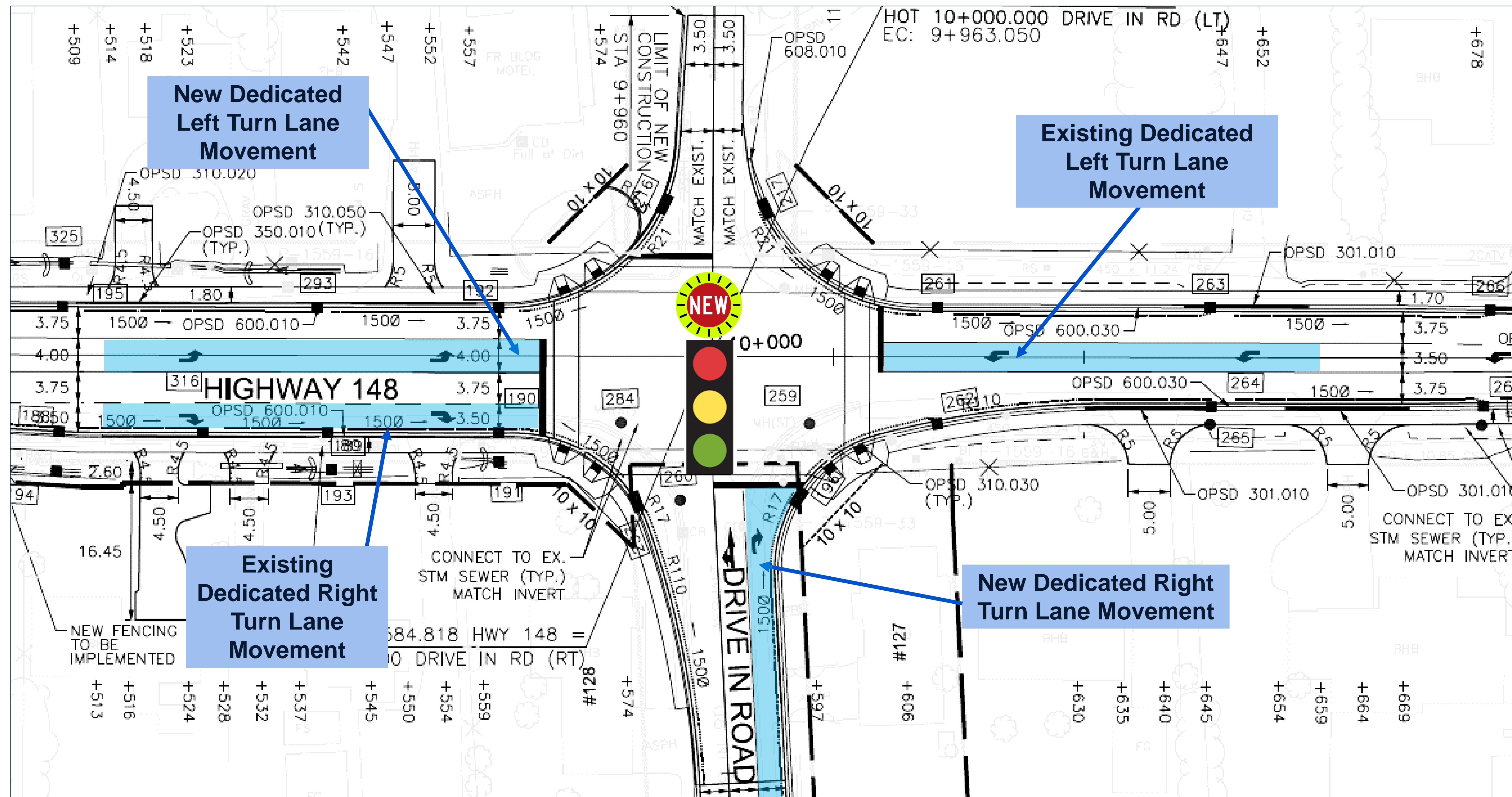


RECOMMENDED PLAN

DRIVE-IN ROAD INTERSECTION

- The intersection of Highway 148 and Drive-In Road is currently unsignalized with stop signs on the Drive-In Road approaches.
- Traffic signals are required at the intersection based on current MTO standards.
- **Therefore, traffic signals will be installed and dedicated turn lanes will be added as part of this Study.**
- The Ministry is reviewing timing to explore implementing the signals at Drive-In Road as soon as possible in construction. The timing of this work is subject to the timing of tending, property acquisition, utility relocations and construction requirements.

Proposed Signalized Intersection at Highway 148 and Drive In Road

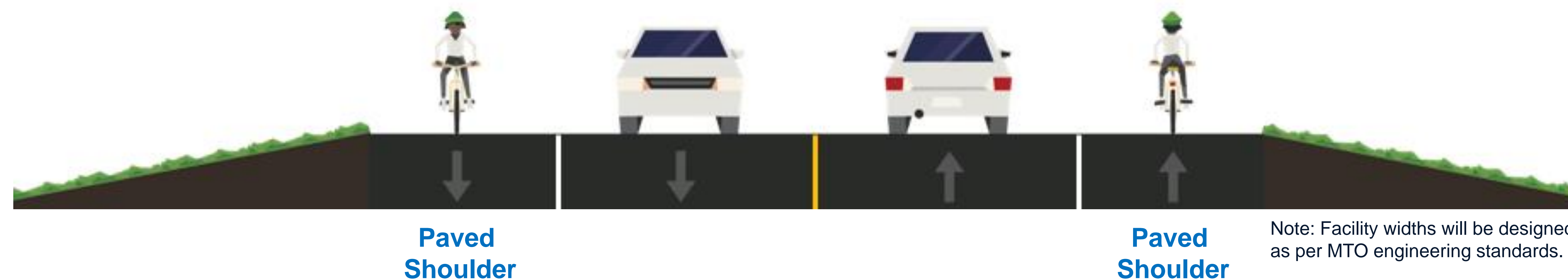


RECOMMENDED PLAN

HIGHWAY 148 FROM DRIVE-IN ROAD TO TRAXTON WAY

- Maintain a two-lane rural cross-section.
- Rehabilitate the existing pavement and provide 2.5 m wide paved shoulders.
- Revise the Greenwood Road intersection by modifying the westbound right-turn channel and extending the merge lane.
- Add an additional southbound lane to bypass left turning vehicles onto Old Mill Road.
- Access improvements through consultation with property owners.

Typical Cross-Section Drive In Road to Greenwood Road

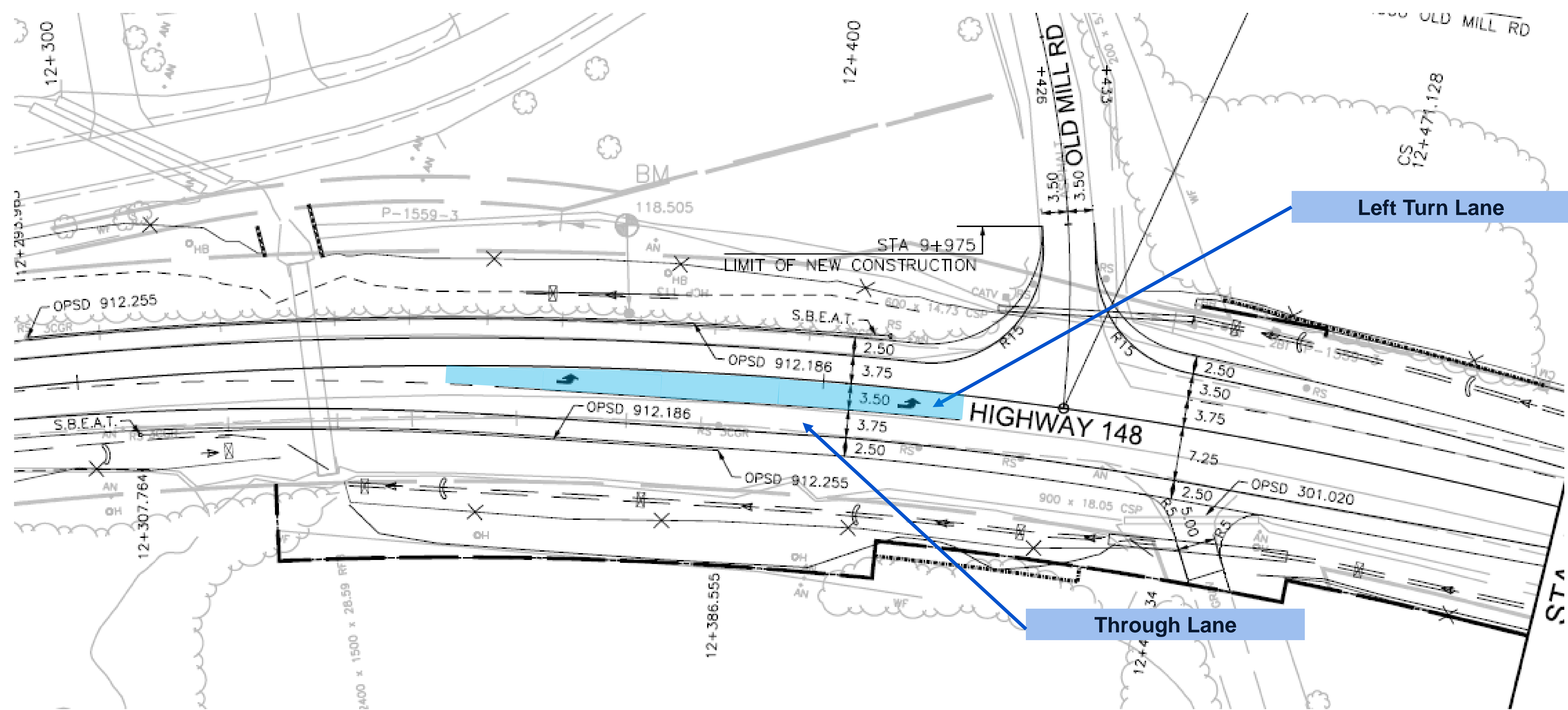


RECOMMENDED PLAN

HIGHWAY 148 FROM DRIVE-IN ROAD TO TRAXTON WAY

- A southbound lane to accommodate left turning vehicles onto Old Mill Road will be installed, as shown on the Design Roll Plan.

Left Turn Lane at Old Mill Road

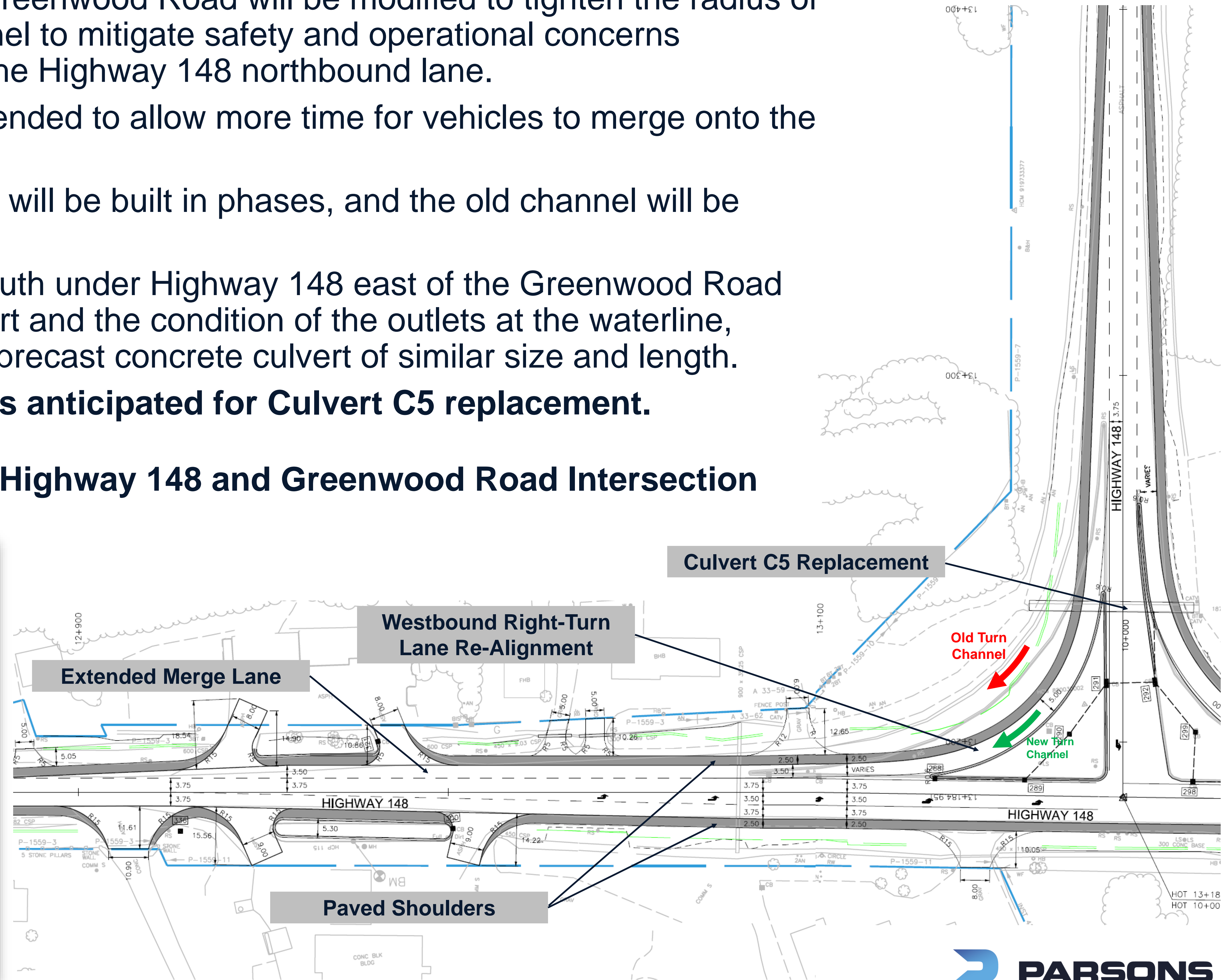


RECOMMENDED PLAN

GREENWOOD ROAD INTERSECTION

- The Intersection of Highway 148 and Greenwood Road will be modified to tighten the radius of the west-bound right intersection channel to mitigate safety and operational concerns associated with vehicles merging into the Highway 148 northbound lane.
- The northbound merge lane will be extended to allow more time for vehicles to merge onto the Highway.
- During construction, the new alignment will be built in phases, and the old channel will be abandoned and landscaped.
- Culvert C5 directs flow from north to south under Highway 148 east of the Greenwood Road intersection. Given the age of the culvert and the condition of the outlets at the waterline, Culvert C5 will be replaced with a new precast concrete culvert of similar size and length.
- **Limited weekend and/or night work is anticipated for Culvert C5 replacement.**

Re-Alignment of Highway 148 and Greenwood Road Intersection

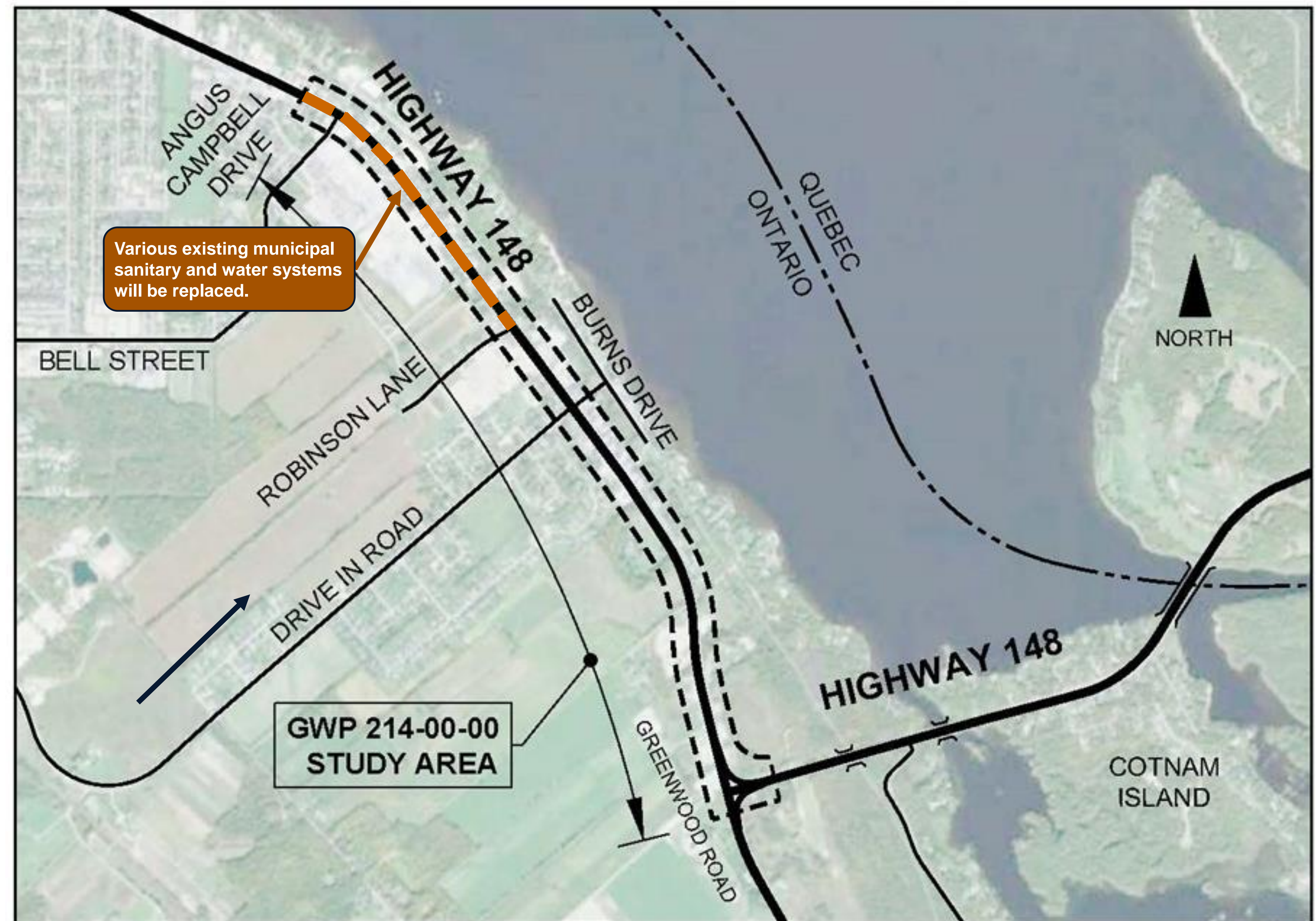


MUNICIPAL UTILITIES IMPACTED BY HIGHWAY WIDENING

The Ministry is impacting Municipal infrastructure within the Highway 148 corridor. The impacted municipal infrastructure will be replaced as part of this project.

- The infrastructure includes various existing watermain and related equipment as well as sanitary sewer from the City of Pembroke to Robinson Lane.
- There will be minor disruptions to Municipal water and sanitary services during construction.
- The project team is taking steps to ensure that during construction, services will be maintained as much as possible, allowing homeowners and businesses to continue as normal.
- The contractor will be required to provide a minimum of one-week written notice for these types of service interruptions.

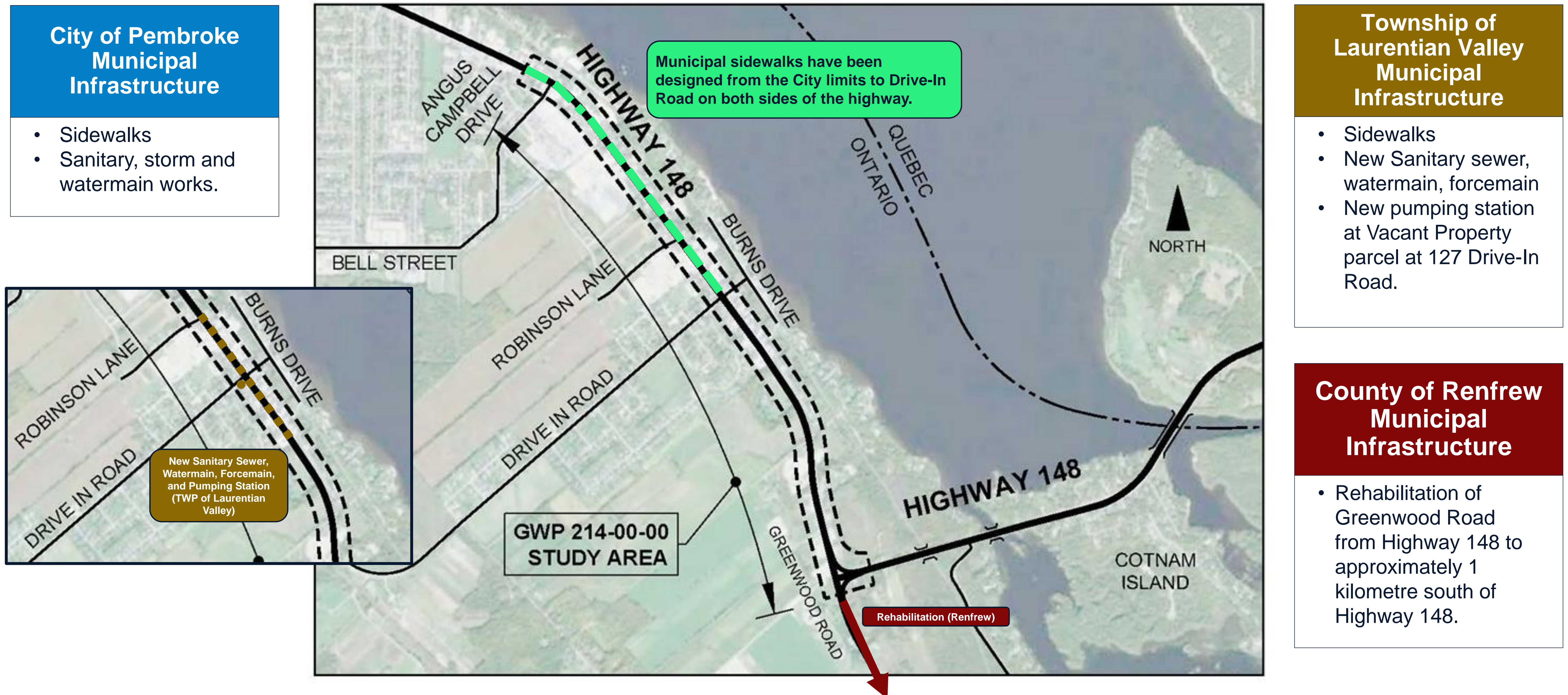
Overview of Impacted Municipal Utilities



MUNICIPAL INFRASTRUCTURE

- The Ministry is working with the Township of Laurentian Valley, the City of Pembroke, and the County of Renfrew to collaborate on the installation of watermain, sanitary sewer, sidewalks, and additional pavement rehabilitation at various locations along the corridor.
- These works are being coordinated with the municipalities and are currently under review by the municipalities. The work is subject to the municipalities deciding to proceed with their work.

Overview of Municipal Infrastructure Works

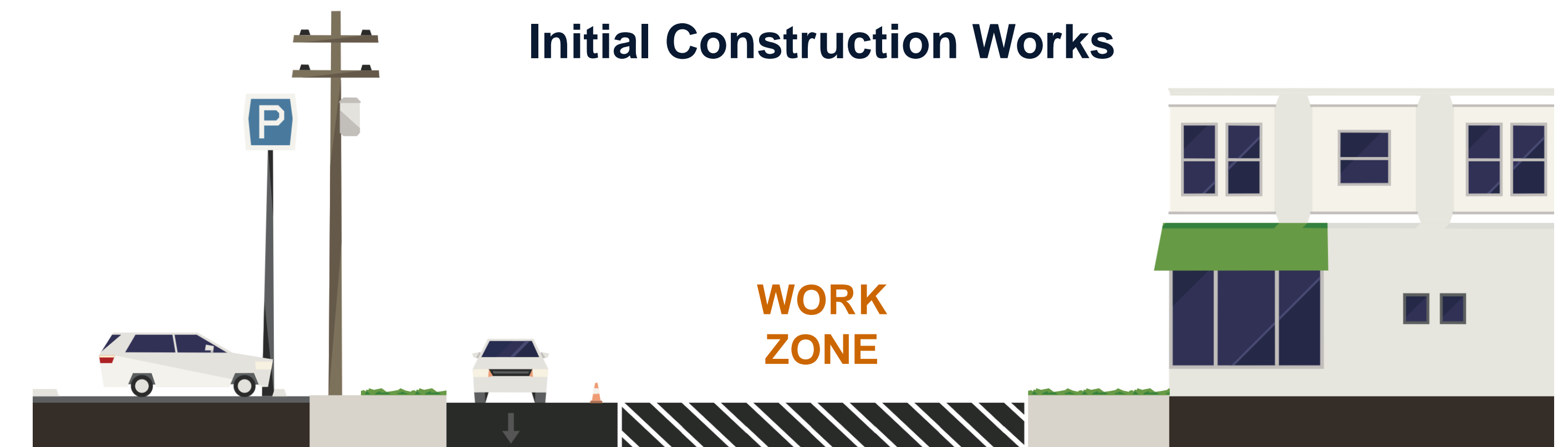


CONSTRUCTION IMPACTS AND STAGING

Construction of improvements to Highway 148 will result in impacts such as traffic delays, noise and dust, which will be mitigated to the extent possible. The general approach for construction of improvements to Highway 148 will be to divide the work into various sub-stages described as follows.

Initial Construction Works

- Adjustments of the existing roadway grade.
- Temporary lane reductions (single lane of traffic within the work area).
- Existing lane configuration of two lanes in each direction will be re-opened at the end of each working day.
- **Estimated Duration: 3 Months.**

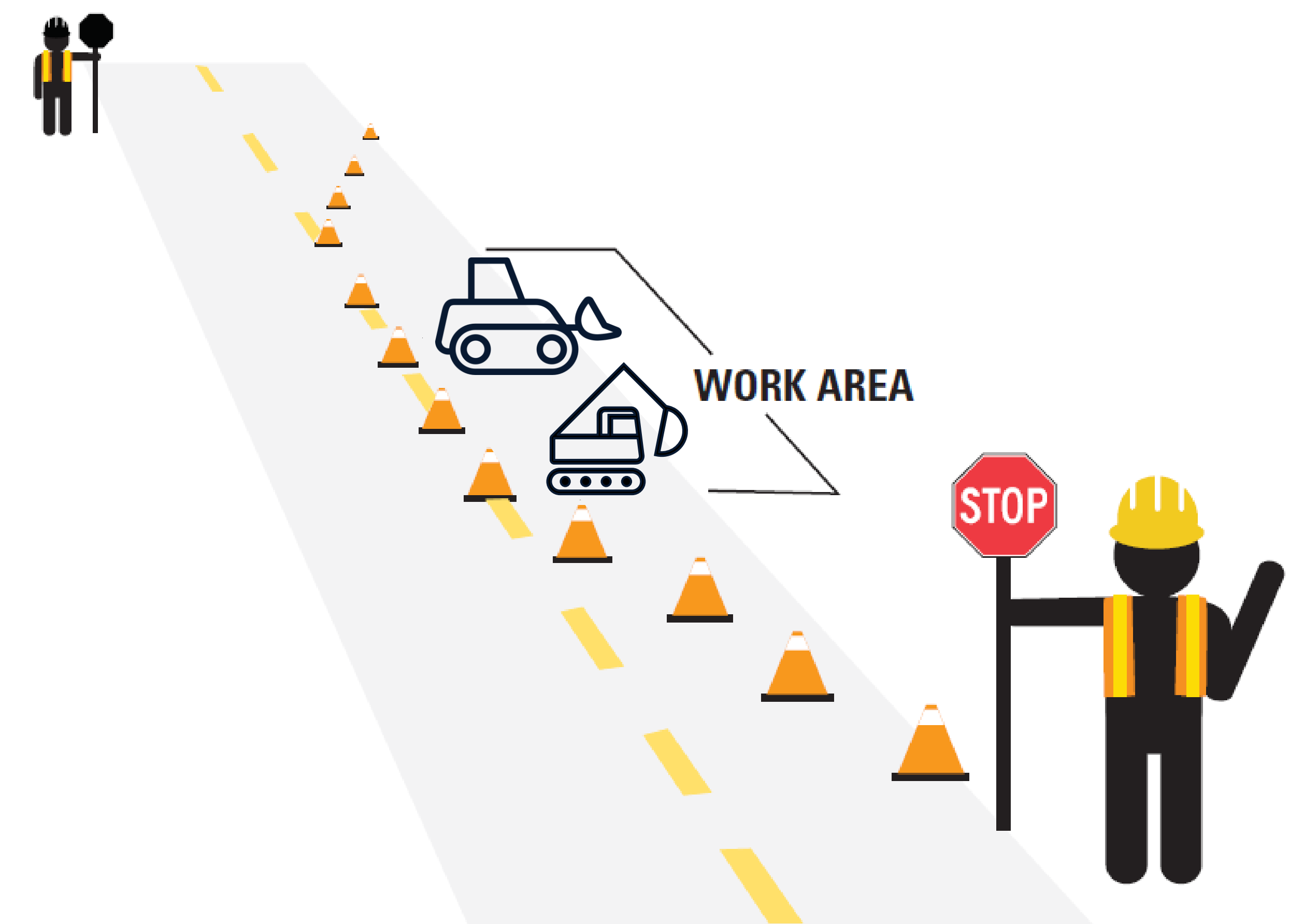


Construction Impacts:

- Traffic delays during the daytime hours.
- Property access disruptions during the day.
- Noise, dust and vibration.

Mitigation Measures:

- Lanes will be reopened to traffic at the end of each working day.
- Contractor will coordinate with the property owner for alternative access arrangements and to schedule the work. **Written notices will be provided.**
- Adherence to best management practices to limit noise, dust and vibration impacts.



CONSTRUCTION IMPACTS AND STAGING

Main Construction Stages 1 and 2

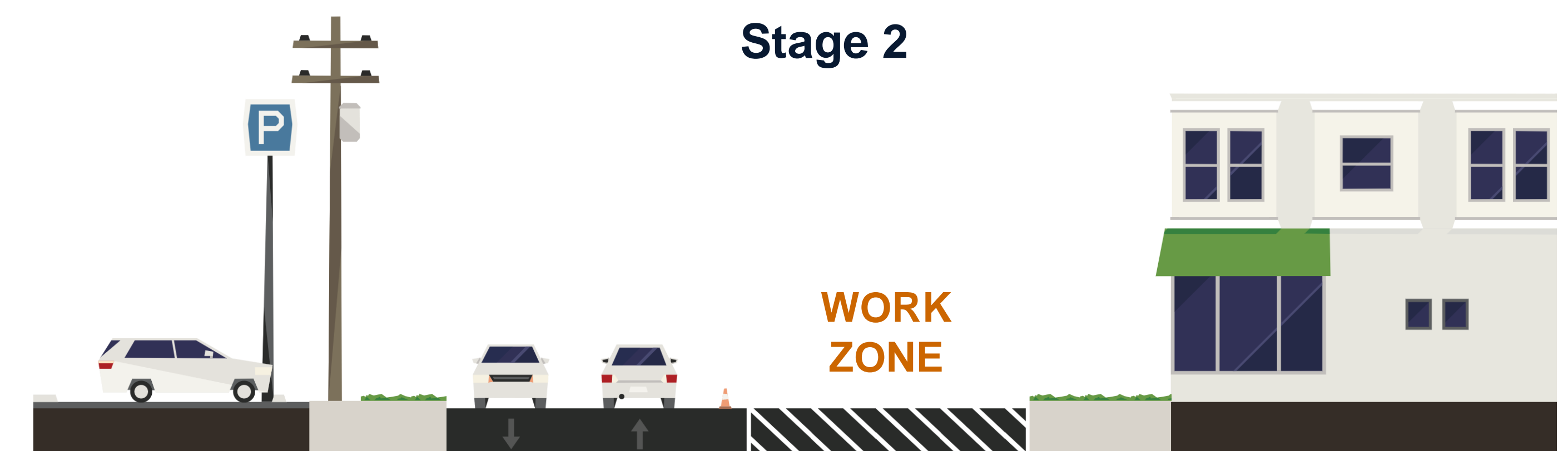
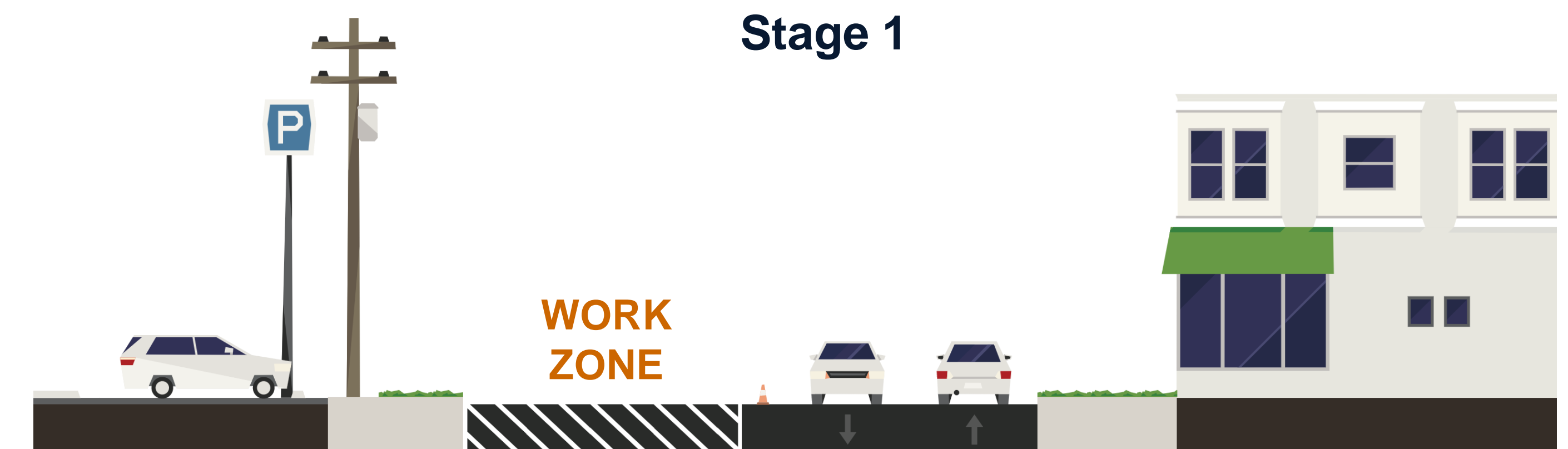
- Relocate / construct new municipal watermain and sanitary/storm sewer systems.
- Widen the highway to accommodate traffic staging and two-way-left-turn-lane.
- Maintain two lanes of traffic with temporary “flagging” of traffic to accommodate construction equipment such as excavators.
- Left turns restricted across the work zone.
- **Estimated Duration of Impact: One (1) Construction Season Per Stage, for a total of two (2) construction seasons.**

Construction Impacts:

- Traffic impacts during daytime hours.
- Noise, dust and vibration.
- Entrances closures are required during certain operations. Examples include pouring of a curb or sidewalk, paving and sewer work.
- Temporary disruption of municipal water and sanitary services when disconnecting and re-connecting municipal services.

Mitigation Measures:

- Adherence to best management practices to limit noise, dust and vibration impacts.
- Contractor will coordinate with the property owner for alternative access arrangements and to schedule the work. **Written notices will be provided.**
- Contractor will coordinate with the property owner for disruptions to municipal services. **Written notification will be provided.**



Example of Typical Construction Work



Image Source: Google



Image Source: Brennan

CONSTRUCTION IMPACTS AND STAGING

Rural Section

Between Drive-In Road and Greenwood Road, work in the rural section of Highway 148 will include:

- Pavement rehabilitation and re-construction.
- Shoulder paving.
- Temporary lane reductions (single lane of traffic within the work area).
- Existing two-lane configuration will be re-opened at the end of each working day.
- **Estimated Duration of Impact: Two Months.**

Construction Impacts:

- Traffic delays during the daytime hours.
- Property access disruptions during the day.
- Noise, dust and vibration.

Mitigation Measures:

- Lanes will be reopened to traffic at the end of each working day.
- Contractor will coordinate with the property owner for alternative access arrangements and to schedule the work. **Written notices will be provided.**
- Adherence to best management practices to limit noise, dust and vibration impacts.

Rural Section (Side 1)



Rural Section (Side 2)



CONSTRUCTION IMPACTS AND STAGING

Intersection Re-Configuration

Intersections will be constructed to align with Stage 1 and 2. The work will include:

- Construction of new municipal watermain, sanitary sewer and force main.
- Construction of new storm sewers.
- Highway widening to accommodate the intersection features such as crosswalks and turn lanes.
- The project team is recommending that work at intersections be a continuous operation (24 hours a day) to expedite the work which would otherwise need to be completed during the day with significant disruptions to traffic and a longer duration.
- **Estimated Duration of Impact: Each half of the intersection will be constructed over non-holiday weekends (approx. 8 weekends) and will be a continuous operation from Friday night (sunset) to Monday morning (sunrise).**

Construction Impacts:

- Traffic configuration will be controlled by the Ontario Provincial Police (OPP) and supported by the Contractor's flag-person at each leg.
- Access for local traffic will be maintained.
- Overnight construction noise during continuous weekend work.

Mitigation Measures

- Overnight construction will be limited as much as possible.
- Contractor will provide advanced notification.
- Idling of construction equipment will be kept to a minimum and equipment will be kept in good working order to reduce noise from construction activities.

Possible Night Work at Highway 148 Intersections:

- **Angus Campbell Drive / Rankin Street**
- **Walmart Entrance**
- **Robinson Lane**
- **Drive-In Road**
- **County Road 40 (Greenwood Road)**

Example of Full Intersection Reconstruction



Image Source: City of Lake Oswego

CONSTRUCTION IMPACTS AND STAGING

Replacement of Culvert C5

For replacement of Culvert C5 at the Highway 148 and Greenwood Road intersection, the portion of Highway 148 towards Quebec will be subject to the following work:

- Single lane traffic controlled by the Contractor's flag-person.
- Work will be constructed over a non-holiday weekend and will be a 24-hr continuous operation.
- The project team is recommending that work at Culvert C5 be a continuous (24 hours a day) operation over a weekend to expedite the work which would otherwise need to be completed during the day with significant disruptions to traffic operations along Highway 148 to and from Quebec.
- **Estimated Duration of Impact: One weekend of lane restrictions with flagging and continuous operation from Friday night (sunset) to Monday morning (sunrise).**

Construction Impacts:

- Traffic delays during the weekend period.
- Overnight construction noise from Friday night to Monday morning.
- Noise, dust and vibration.
- Erosion and sediment resulting from the work site and disturbance to natural habitat.

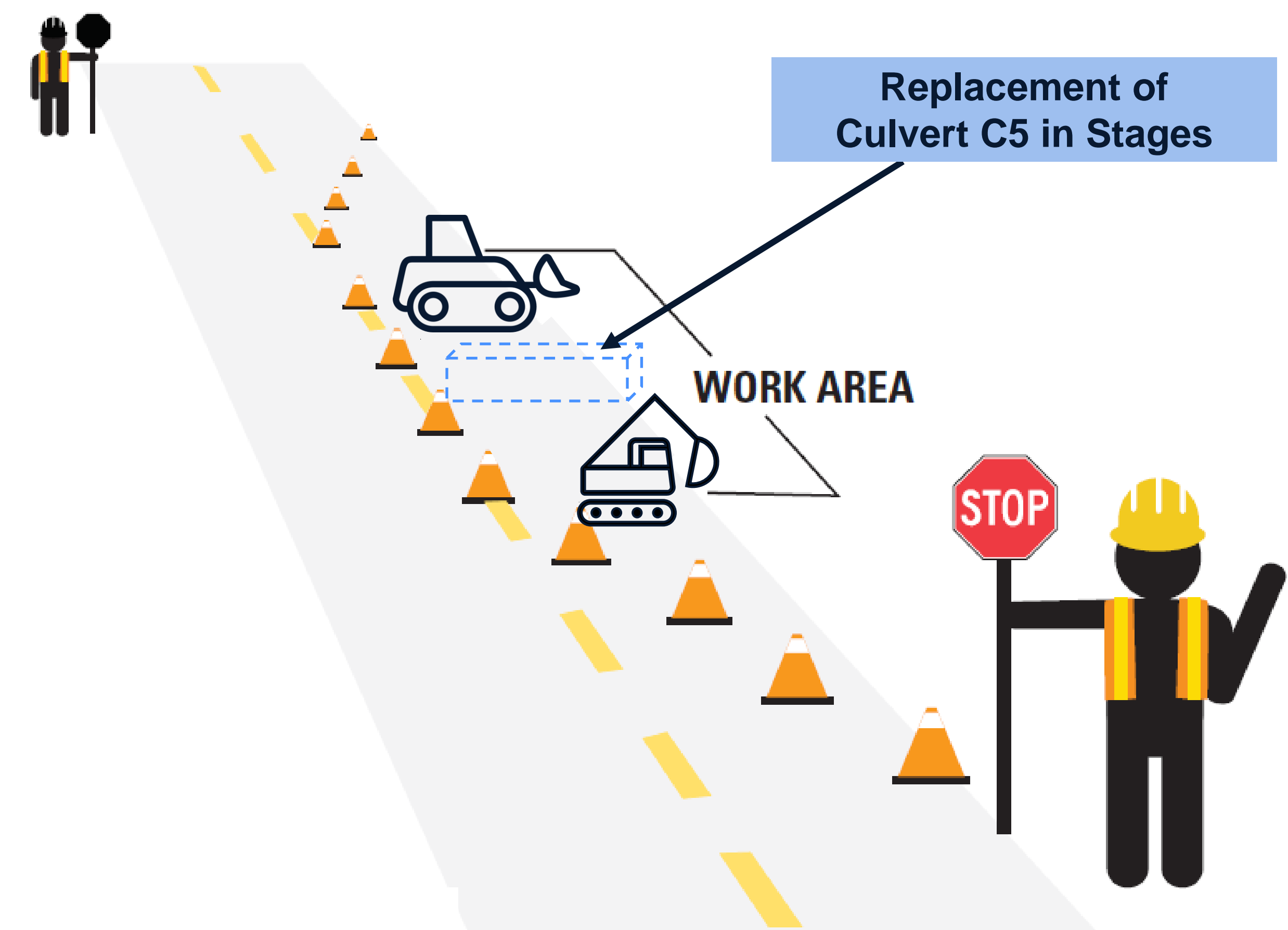
Mitigation Measures:

- Limiting the amount of necessary night and weekend work to the extent possible.
- Adherence to best management practices and appropriate timing windows for vegetation removal and in-water works, including Erosion and Sediment control measures.
- Installation of exclusionary measures for Blanding's Turtle at Culvert C5 to prevent nesting and entry.
- Adherence to best management practices to limit noise, dust and vibration impacts.

Example of Culvert Replacement



Image Source: South Burlington Stormwater Services



CONSTRUCTION NOTIFICATIONS

- High level construction updates will be provided through a project website and construction signs will display advanced notification regarding lane closures and intersection work.
- The public may see construction signing start to appear on the highway about one week prior to the start of construction.
- There will be times when entrances to residences and businesses will be closed for a period of time. Examples include paving, new curb installations and sewer and watermain work. The contractor will be required to provide a minimum of one-week written notice for these types of operations.
- If night work is required during construction, the Contractor will provide advance notice of the night work and its expected duration.
- For temporary disruption of municipal water and sanitary services, The contractor will be required to provide written notices to impacted residents and businesses.

Example of Night Work Operations



Image Source: Aspen Times



Image Source: C.W. Roberts Contracting

Example of Construction Signage



Image Source: OTM

SUMMARY OF IMPACTS AND MITIGATION MEASURES

A summary the anticipated construction impacts and proposed measures to limit impacts to the surrounding community and environment during construction are provided below.

Anticipated Impacts	Mitigation Measures
Traffic Management and Property Use	
Delays to the flow of traffic during construction activities, limited property access and municipal service disruptions	<ul style="list-style-type: none"> ✓ Limiting lane closures to off-peak times where possible. ✓ Re-opening lanes to traffic at the end of each working day. ✓ Contractor will coordinate with the property owner for alternative access arrangements and to schedule the work. Written notices will be provided, including for any disruptions to water or sanitary services.
Noise and Dust	
Noise and dust generated from construction activities including overnight construction noise.	<ul style="list-style-type: none"> ✓ Keeping idling of construction equipment to a minimum and to maintain equipment in good working order to reduce noise from construction activities. ✓ Using standard techniques for the suppression of dust such as water. ✓ Providing advanced notification and limiting the amount of night work to the extent possible.
Surface and Groundwater	
Surface run-off resulting from construction activities and the storage of materials in the work site.	<ul style="list-style-type: none"> ✓ On-site hazardous materials are properly stored and located at least 30m away from watercourses and other sensitive natural features, such as wetlands, including all handling and refueling activities. ✓ Implementing an emergency response management and monitoring plan that includes measures for preventing and addressing potential spills and monitoring activities.
Natural Environment	
Erosion and sediment resulting from the work site and disturbance to natural habitat.	<ul style="list-style-type: none"> ✓ Adherence to best management practices and appropriate timing windows for vegetation removal and in-water works, including erosion and sediment control measures. ✓ Installation of exclusionary measures for Blanding's Turtle at Culvert C5 to prevent nesting and entry. ✓ Completion of daily visual inspections for wildlife.

NEXT STEPS

Following this Public Information Centre, the Study Team will review and address public comments received and consider them in the final design. Additional consultation will occur with affected property owners prior to and during construction activities.

A Design and Construction Report (DCR) will be published for a 30-day public comment period at the conclusion of the detail design.

It is anticipated that construction will commence by Summer 2023, however, the timing of construction is subject to change based on funding, planning, design, environmental approval, property acquisition, utility coordination, agreements with municipalities and construction requirements.

We value your input and encourage you to stay connected throughout this detail design study. You may request to be added to the Study contact list to receive updates and future public notices by contacting the Study team members at the address below.

Please provide your comments by **November 23, 2022** by completing a **Comment Sheet** or the sending them to either of the following project team members:

Mr. Chris Belanger
MTO Project Manager
Ministry of Transportation
1355 John Counter Boulevard
Kingston, Ontario, K7L 5A3
Tel: 613-583-4573
Email: Chris.Belanger@Ontario.ca

Ms. Sonia Ahluwalia
Consultant Project Manager
Parsons Inc.
100-1223 Michael Street North
Ottawa, ON, K1J 7T2
Tel: 519-340-7401
Email: Sonia.Ahluwalia@Parsons.com



FREQUENTLY ASKED QUESTIONS

Safety and Accessibility

1. Will there be speed reductions in place during construction?

- Yes, Speed reductions will be in place during construction to protect both workers and the travelling public.

2. Will Hwy 148 remain open at all times?

- Yes, residents will have access to their homes. Emergency vehicles will always have access to Hwy 148 and other local roads.

Active Transportation

3. Are new sidewalks going to be installed as part of this project?

- Yes, the project includes sidewalks at each of the intersection from the City to Drive In Road. In addition, the project is working with the municipalities on an agreement to install sidewalk from the City to Drive In Road (on both sides of the Highway). These works are subject to the municipalities deciding to proceed with their work.

4. Will Active transportation be impacted by construction activities?

- Yes, While the infrastructure is under construction it will not be available for use. We are asking the public to find alternative routes during this period.

Communication

5. Will residents and businesses receive updates during construction?

- High level Construction updates will be provided through a project website.
- The contactor will be required to provide notice to impacted residents and businesses.
- Construction signs will display advanced notification about construction such as lane closures and intersection work.

6. Will residents and businesses be able to contact their local municipality if they have questions or concerns?

- Yes. The local municipalities are working with MTO to coordinate work on this project.

FREQUENTLY ASKED QUESTIONS

Project Timelines

7. When will construction start?

- The start of construction is anticipated to be summer 2023. However, the timing of this construction project is subject to change based on funding, planning, design, environmental approval, property acquisition, utility coordination, agreements with municipalities and construction requirements.

8. How long will construction last?

- The construction project will take a minimum of two and a half construction seasons to complete.

9. How much notice will the public get before the beginning of construction?

- The public may see construction signing start to appear on the highway about one week prior to the start of construction.

Local Entrance Access

10. What will happen to entrances along Hwy 148?

- The project is taking steps to ensure that during the works access is maintained as much as possible allowing entrances to remain open and allow access to properties. That being said, there will be times when accesses will be closed for a period of Time. Examples include paving, new curb installations and sewer and watermain work. The contractor will be required to provide a minimum of one-week written notice for these types of operations.

11. What will happen to businesses along Hwy 148 within the project limits?

- The project team is taking steps to ensure that during the works access is maintained as much as possible allowing businesses to remain open and continue serving customers. That being said, there will be times when accesses will be closed for a period. Examples include paving, new curb installations and under sewer and watermain work. The contractor will be required to provide a minimum of one-week written notice for these types of operations.

12. When driveway access is restricted, will there be a designated areas to park?

- On street parking is not to be permitted on Hwy 148. There will be no designated parking areas planned for this project.

FREQUENTLY ASKED QUESTIONS

Utility Relocations

13. Will utilities need to be moved along Hwy 148?

- Prior to the start of construction, some of the utilities will be relocated to accommodate the wider roadway platform and drainage features. The utilities include poles and boxes on each side of the Highway. These relocations are expected to start any time now and be completed prior to the start of construction.

14. Is the Ministry working with the three local Municipalities to improve Municipal infrastructure in the area?

- The Ministry is working with the Township of Laurentian Valley, the City of Pembroke, and the County of Renfrew to collaborate on the installation of watermain, sanitary and storm sewer, sidewalks, and additional pavement rehabilitation at various locations along the corridor. These works are currently under review by the individual municipalities and are subject to the municipalities deciding to proceed with their work. The location of this infrastructure is shown in the PIC materials.

15. Is the Ministry impacting Municipal infrastructure within the Hwy 148 corridor?

- Yes, the Ministry is impacting existing sidewalks, watermain, sanitary and storm sewers within the Hwy 148 corridor.
- The location of this infrastructure is shown in the PIC materials.
- The Ministry will be replacing the existing sidewalks (at intersections), watermain and sanitary sewers between Robinson Lane and the City of Pembroke at various locations.

16. Will the Municipal water and sanitary services have disruptions during construction?

- The project team is taking steps to ensure that during construction, services will be maintained as much as possible, allowing homeowners and businesses to continue as normal.

17. Will there be notifications when services are interrupted?

- Yes, the contractor will be required to provide a minimum of one-week written notice for these types of service interruptions.

FREQUENTLY ASKED QUESTIONS

Intersection Work (Angus Campbell Dr., Walmart Entrance, Robinson Lane, and Drive In Road)

18. Is the project team recommending that work take place on weekends?

- Yes, The project team is recommending that work at intersections be a continuous operation (24 hours a day) to expedite the work which would otherwise need to be completed during the day with significant disruptions to traffic and a longer duration.

19. When the intersections are reconstructed, will the contractor be working at night?

- Yes, the contractor will be working continuously until half of the intersection is reconstructed.

20. How long will the intersection work last?

- Each half of the intersection will be constructed over non-holiday weekends (approx. 8 weekends) and will be a continuous operation from Friday night (sunset) to Monday morning (sunrise).

21. When will the new traffic signals at Drive-In Road be constructed?

- The construction timing for the new infrastructure at Drive-In Road will be completed as soon as possible during construction.
- The timing of this work is subject to the timing of tending, property acquisition, utility relocations and construction requirements.