

COUNTY ROAD 49 MAJOR STRUCTURAL REHABILITATION



Public Information Centre (PIC)

June 10, 2026

5:00pm – 7:00pm

@ Prince Edward Community Centre (Picton Arena)

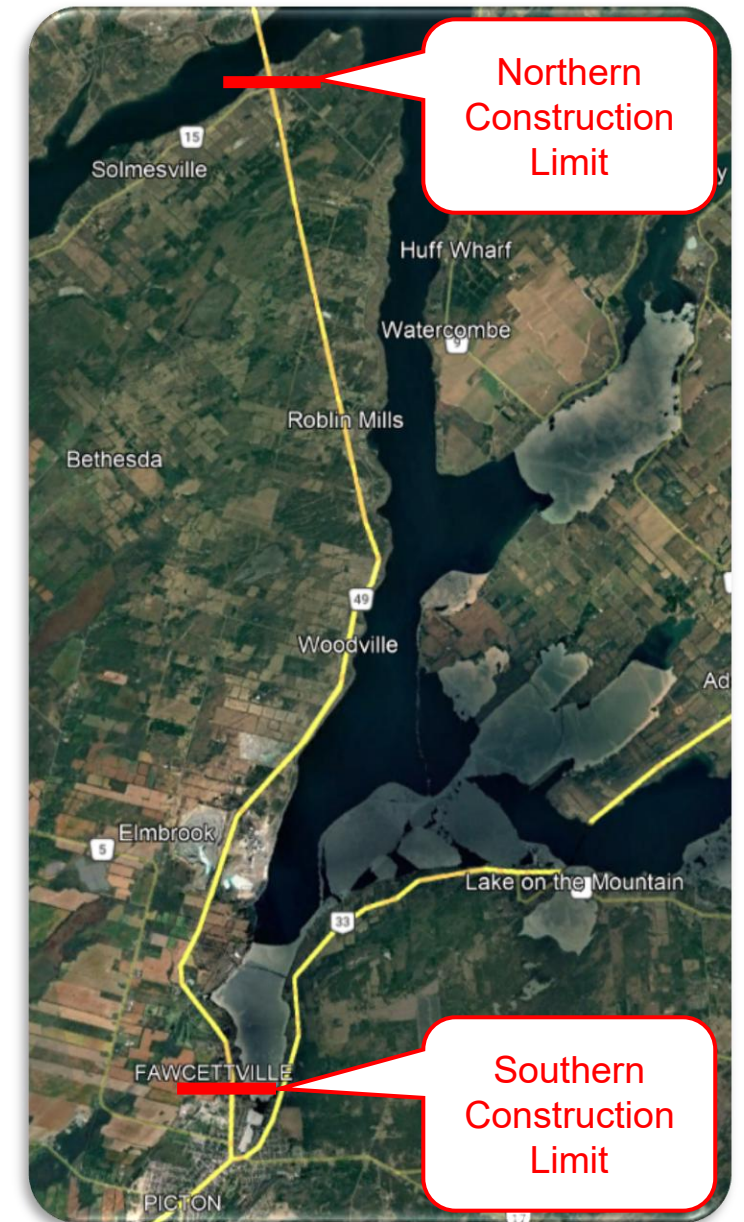
WELCOME!

- The purpose of this event is to provide residents, businesses, property owners, and road users with information regarding the upcoming rehabilitation of County Road 49 between the Bay of Quinte Skyway Bridge and Picton.
- Over the past several years, the project has undergone extensive investigation, engineering design, environmental review, and Council consideration. The design has been completed, the project has been tendered through a competitive procurement process, and a construction contract has been awarded.
- As a result, the purpose of this Public Information Centre is to **share information and answer questions about the project and construction activities**, rather than to seek input on the project design or scope of work.
- We recognize that construction will cause temporary inconveniences and traffic delays. Our goal is to provide clear and timely information so that residents, businesses, and visitors can plan accordingly and remain informed throughout the construction period.

PROJECT BACKGROUND

- Project funding provided by the Province in the amount of up to \$44.5M
- Funding contingent on the municipality contributing \$7.8M
- Provincial funding for urban section (Main St Phase 3) and rural concrete section for total distance 18.4 km
- For rural section, project limits from just north of Folkard Lane (southern project limit) to just south of County Road 15 (northern project limit) for total distance of 17.3 km
- Rural section scope of work to include:
 - underground road and driveway culvert replacements
 - in-place concrete rubblization
 - surface granular
 - new asphalt roadway (3 lifts) and asphalt shoulders
 - existing ditch clean out
 - guide rail replacement and update
 - pavement markings
- Construction planned to begin in June of 2026 with completion scheduled for spring of 2028.

Construction contract awarded to: **TOMLINSON**
FOUNDED ON **STRENGTH** GUIDED BY **VISION**



CONSTRUCTION SCHEDULE

- Construction to commence at County Road 15 (northern limit) and progress south towards Picton.

2026

- Subdrain & culverts
- Rubblization
- Granular base
- Asphalt (base & middle lift and shoulders)
- Guiderail

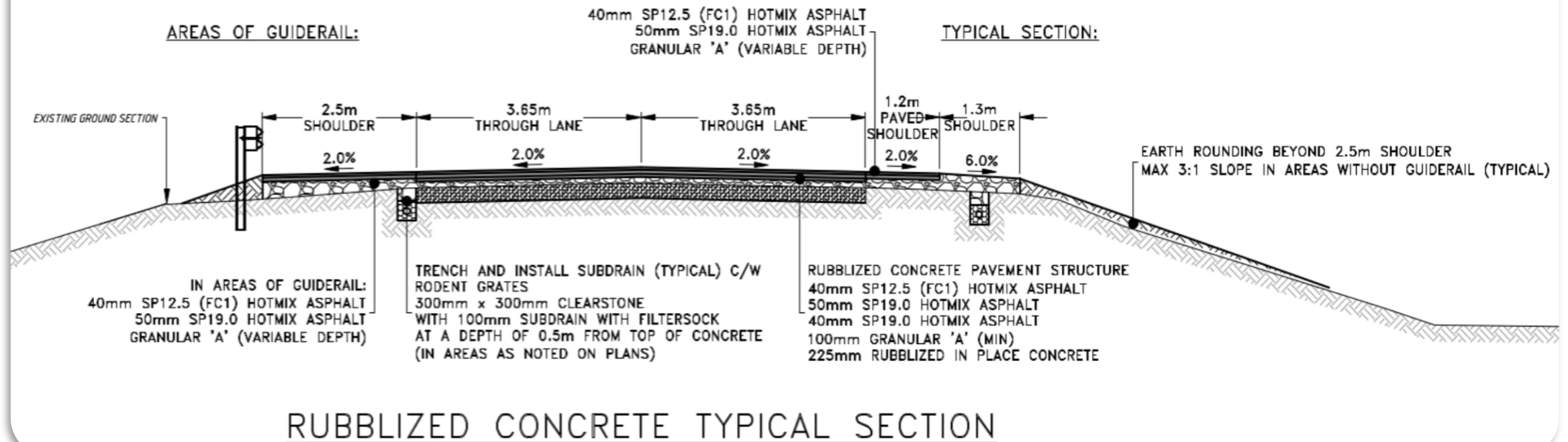
2027

- Asphalt (top lift and shoulders)
- Topsoil & hydroseed
- Pavement markings

2028

- Final pavement markings

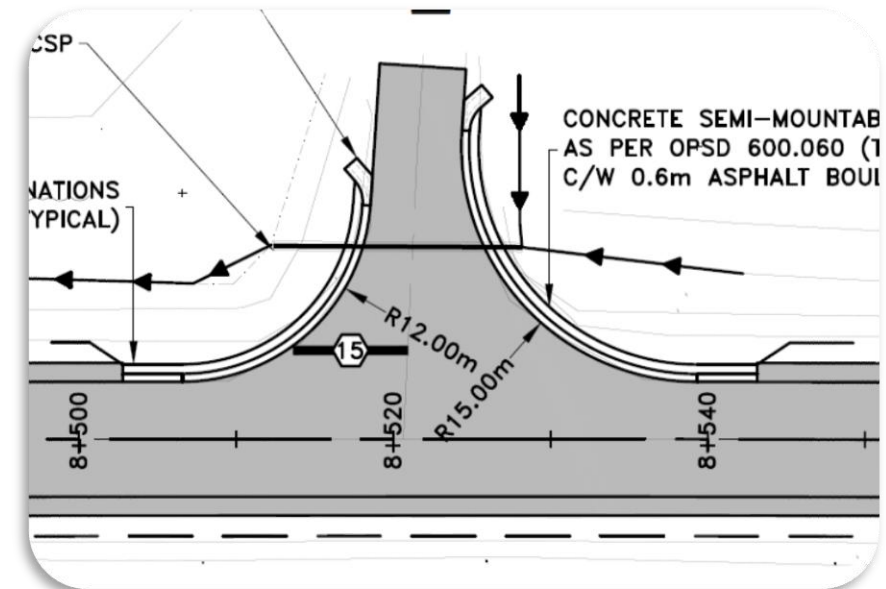
TYPICAL ROADWAY CROSS-SECTION



Roadway Alignment

- No changes to existing road horizontal alignment
- No changes to existing driving lane widths
- No changes to existing auxiliary lanes (Cty Rd 6, cement plant and hill climb lane)

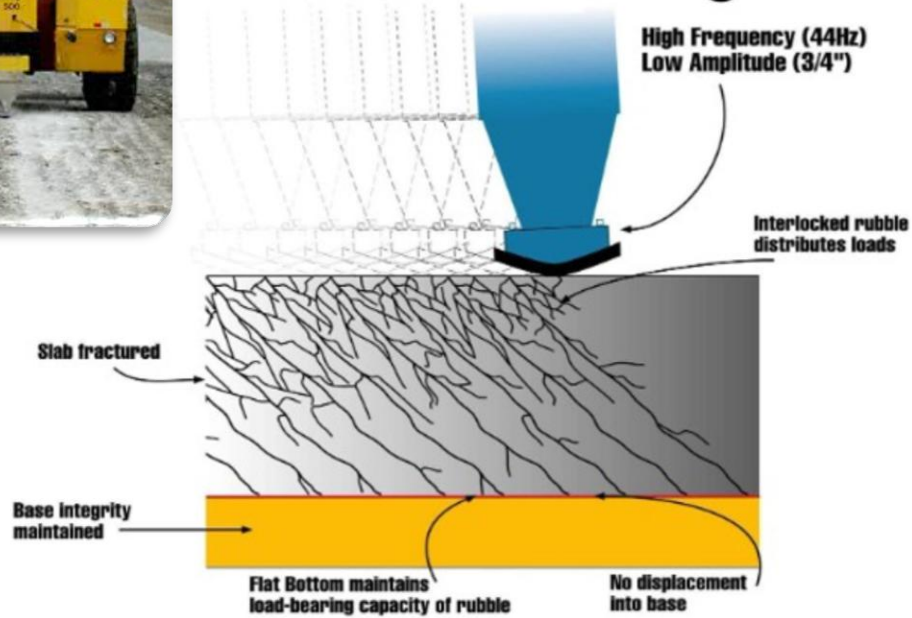
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- Road vertical alignment (grade raise) increase by 230 mm (9 in)
 - New 1.2 m (4 ft) paved shoulders
 - New curb and gutter at main road intersections



RESONANT FREQUENCY BREAKER



Resonant Rubblizing



How the Technology Works

Concrete (Portland Cement Concrete, or PCC) is a brittle material with a specific natural frequency. When specialized pavement breakers strike the surface, they deliver high-frequency, low-amplitude energy.

- **The Process:** A heavy steel beam vibrates at precisely tuned frequencies, typically striking the concrete 44 times per second.
- **The Physics:** This resonant vibration causes rapid crack propagation, fracturing the slab at a 40° to 45° angle while cleanly debonding embedded steel reinforcement.
- **The Result:** The fractured pieces interlock to create a high-modulus granular base. This process is known as **rubblization**.

BENEFITS OF RUBBLIZATION



Green Technology Benefits

Using resonant frequency breakers is widely considered a major step forward for sustainable infrastructure:

- **100% In-Place Recycling:** The existing concrete roadway is never sent to a landfill. It remains in place to become the new roadbed, reducing the demand for virgin quarried aggregate.
- **Reduced Carbon Footprint:** Because the concrete is recycled directly on-site, it eliminates the heavy greenhouse gas emissions, fuel consumption, and traffic congestion associated with hauling rubble to disposal sites and trucking in new stone.
- **Zero Reflective Cracking:** When a new hot-mix asphalt (HMA) overlay is placed directly over a rubblized base, the interlocking angular concrete fragments prevent the old cracks from reflecting through to the new surface.

Alternate Route(s)

- Cty Rd 15 to Cty Rd 5 (through Demorestville) to be identified and signed as alternate route
- Alternate route to be closely monitored throughout construction
- No mandatory detour as one lane will always remain open on Cty Rd 49.
- Possibility of warning signage on Hwy 401 currently being investigated
- *In Ontario road construction, a **detour** is a mandatory, official, and temporarily signed path that actively forces drivers to leave their regular route and guides them around a closure. In contrast, an **alternate route** is an unmanaged, voluntary suggestion provided so that drivers can proactively avoid construction delays on their own.*



EXPECTED IMPACTS TO RESIDENTS & BUSINESSES



Hours of Work

- Work will take place Monday to Friday from 7am to 7pm.
- All construction related noise must comply with PEC Noise By-Law 143-2022.

Schedule

- Tender documents stipulate substantial completion by **November 1, 2028**.

Driveway Access

- The Contractor will notify and coordinate with Residents/Businesses of any temporary restrictions to driveway access in advance of any disruptions.

Vibration and Dust

- Vibrations may be experienced during construction.
- The Contractor will take the necessary steps to reduce dust caused by the construction, ie: concrete wetting and watering of temporary gravel roadways.

Traffic

- Traffic delays and single lane closures required to facilitate operations.

MUNICIPAL SERVICES



Emergency Services

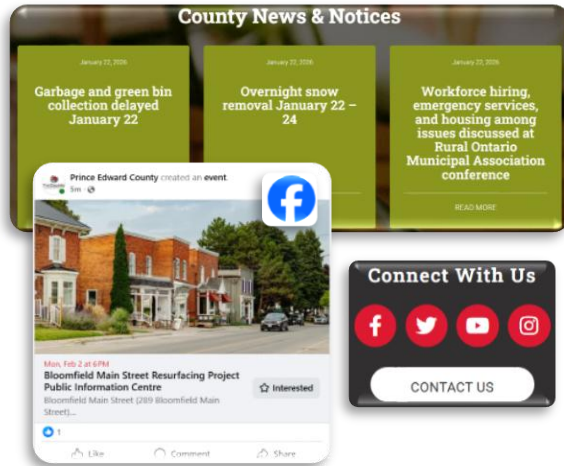
- Emergency access for Paramedics, Police and Fire Services, shall be accommodated at all times.

Garbage and Recycling Collection

- PEC (contracted to Environmental 360 Solutions) will continue to collect garbage, compost and recycling on the usual day of the week.
- Where necessary, the contractor will bring waste bins to a designated location for collection and return the empty bins to the appropriate address each week.
- It is advised to label your bins with your address to ensure proper return.



COMMUNICATIONS



- The County is planning to issue Public Service Announcements (PSAs) to provide project updates weekly (every Friday)
- PSAs are posted on the County website and social media channels
- Please sign up to receive PSA notices and news directly from the County to your email, by visiting www.thecounty.ca/special-capital-proj/county-road-49-rehabilitation/#email-updates



- The consulting firm (Jewell) assisting the County with this project will have a full-time Site Inspector present on site for the duration of construction. The County Project Manager shall also be on site part-time.
- Notices with contact details for all project team members involved with the project will be hand delivered to each resident within the construction zone.
- Residents/Businesses with questions may:
 1. Contact a project team member from the hand delivered notice
 2. Contact the municipality general phone/email

FEEDBACK & COMMENTS

- You may contact either of the project team members listed below at any time should you have any additional questions or would like to provide feedback.
- **Please provide your feedback to help us deliver this project in the least disruptive way possible:**

-  1. Complete a comment sheet (leave it with us or email it to us)
-  2. Email your comments directly to either of the staff members listed below



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