



Date: 2026-02-11

Subject: **Request to Begin Procurement for Hot In-place Recycling Technology Pilot – Ward 3, 7, 8**

From: Peter Pilateris, M. A. Sc., P.Eng., Commissioner, Public Works and Engineering

Report number: Public Works & Engineering-2026-246

Strategic Focus Area: Transit & Connectivity

Recommendations

1. That the report prepared by Sunil Sharma, Director of Capital Works, Public Works and Engineering to the Committee of Council Meeting of April 1, 2026, re: **Request to Begin Procurement for Hot In-place Recycling Technology Pilot – Ward 3, 7, 8**, be received; and
2. That the Purchasing Agent be authorized to begin the procurement for Hot In-place Recycling Technology.

Report Summary

This report outlines the request for Council authorization to Begin Procurement for Hot In-Place Recycling Technology as a pilot project. Hot In-Place Recycling (HIR) repaves asphalt pavement by recycling existing materials directly on-site, reducing the need for new aggregates and asphalt, lowering costs and environmental impacts, and enabling faster completion than traditional mill-and-pave resurfacing.

Background

The City's annual road resurfacing program is guided by detailed pavement condition assessments completed by the Capital Works Division. This program is closely coordinated with Transportation Planning, Traffic Operations, the Region of Peel, and local utility companies.

Road resurfacing ensures that City streets remain in good repair and provides opportunities to introduce improvements such as enhanced walking and cycling facilities and new traffic calming measures. The City also continues to look for innovative technologies that improve efficiency and reduce environmental impacts.

Current Situation

As part of the Council-approved 2026 Capital Budget, the Road Resurfacing Program will allocate funding to pilot a new pavement rehabilitation technology known as Hot In-Place Recycling (HIR). Durham Region recently piloted this technology, and their feedback has been positive, noting that the process is faster and more economical.

About Hot In-Place Recycling (HIR):

HIR is an on-site pavement rehabilitation method that:

- Reclaims the existing asphalt pavement
- Mixes it with rejuvenating binders
- Repaves the material in a single, continuous operation

Benefits of HIR include:

- Reuse of existing pavement materials, reducing the need for new aggregates and asphalt
- Lower environmental footprint
- Lower cost compared to traditional “mill and pave” resurfacing
- Achieves faster turnaround than standard resurfacing techniques

2026 Pilot Project – Proposed Road Segments

The following road segments have been identified as potential candidates for HIR pilot project subject to confirmation of Geotechnical investigation:

Road Name	From	To
Walkers Drive- Ward 8	Clark Boulevard	Torbram Road
Advance Boulevard- Ward 7	Strathearn Avenue	Dixie Road
Orenda Road- Ward 7	Bramalea Road	Dixie Road
Orenda Road- Ward 3	Rutherford Road S	Heart Lake Road S

These selected roadways are commercial/industrial streets currently in poor condition. Choosing this type of roadway helps minimize disruption to residential neighbourhoods during the pilot.

The City will continue to monitor the performance of the repaved pavement to determine whether this technology is suitable for use in future projects.

Potential Adjustments

The street list may be revised following the procurement process. Streets may be removed, replaced, or added based on:

- Bid prices exceeding available budget
- Realized savings that allow for additional resurfacing work

Pending Council approval the HIR pilot, is scheduled to begin in Summer 2026 and be completed by Fall 2026.

Financial Implications

Funding for this initiative is available within the Public Works and Engineering approved 2026 Capital Budget.

Purchasing Comments

A public procurement process will be conducted. Purchase approval shall be obtained in accordance with the Purchasing By-law.

All communication with Bidders involved in the procurement must occur formally through the contact person identified in the appropriate procurement document.

Conclusion

It is recommended that the Purchasing Agent be authorized to commence the procurement for 2026 Hot In-place Recycling Technology in Wards 3, 7, and 8.

Peter Pilateris, M.A.Sc., P.Eng., Commissioner, Public Works and Engineering

Marlon Kallideen, Chief Administrative Officer

Prepared by: Sunil Sharma, Director of Capital Works