

Presented To:	City Council
Presented:	Tuesday, Jan 26, 2021
Report Date	Tuesday, Jan 12, 2021
Type:	Managers' Reports

## Request for Decision

### Tender Proposal for Hot In-Place Recycled Asphalt Pilot Project

#### Resolution

THAT the City of Greater Sudbury authorizes staff to proceed with the tendering of the Hot In-Place Recycled Asphalt Pilot Project as outlined in the report entitled "Tender Proposal for Hot In-Place Recycled Asphalt Pilot Project", from the General Manager of Growth & Infrastructure, presented at the City Council meeting on January 26, 2021.

#### Relationship to the Strategic Plan / Health Impact Assessment

The work indicated in this report is supported by "Demonstrate Innovation and Cost-Effective Service Delivery" within "Asset Management and Service Excellence".

#### Report Summary

Further to Council Resolution CC2020-225 carried in the meeting dated September 8, 2020 staff has prepared a revised tender for the Hot In-place Asphalt Recycling (HIR) pilot project. This report describes the tender, including HIR work extents on MR35, the Kingsway and Radar Road.

#### Financial Implications

Funding provided for the HIR Pilot Project includes \$700,000 from additional Federal Gas Tax (Council Resolution CC2019-189 from June 11, 2019) and \$811,000 funding from the 2020 budget deliberations (Finance and Administration Committee Resolution FA2019-120). There is approximately \$1.39 million of funding remaining for this tender. The reduced scope outlined within the report will be funded from the remaining budget.

#### Signed By

**Report Prepared By**

Stephen Holmes  
Roads Engineer  
*Digitally Signed Jan 12, 21*

**Division Review**

David Shelsted  
Director of Infrastructure Capital  
Planning Services  
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**Financial Implications**

Steve Facey  
Manager of Financial Planning &  
Budgeting  
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**Recommended by the Department**

Tony Cecutti  
General Manager of Growth and  
Infrastructure  
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**Recommended by the C.A.O.**

Ed Archer  
Chief Administrative Officer  
*Digitally Signed Jan 13, 21*

# Tender Proposal for Hot In-Place Recycling Pilot Project

## Background

At the Council meeting of September 8, 2020, Council passed a resolution to issue a new tender for the Hot In-Place Asphalt Recycling (HIR) Pilot Project in 2021. The reasons that the 2020 HIR Pilot Project was cancelled included concerns with the amount of ancillary work included (culvert and curb replacements, structure adjustments), the tight schedule provided to complete the work, and that the contract was over budget. The revised tender will reduce the amount of ancillary work to approximately 1% of the estimated total contract value, reduce the overall scope of the work, and be tendered earlier in the year. Staff has reviewed the previously proposed road sections in preparing the revised tender.

In 2019, through a Council resolution, a total of \$1,511,000 was designated to be used for a Hot In-Place Recycling Project. Staff used project funds to retain a Geotechnical Consultant with experience in HIR to assist in determining suitable road sections, perform asphalt material testing, and provide recommendations for roads to be treated and provide specifications for tender documents. The remaining budget available for construction is approximately \$1,390,000.

## Analysis

The pilot project tender document issued in July 2020 included requirements for ancillary work including culvert replacement, curb replacements and structure adjustments as typically included in contracts. The proposed road sections indicated in the 2020 tender document are indicated in the following table. HIR work limits within the road sections were dependent on HIR unit prices.

Road	From	To
MR 35	Clarabelle Road	Big Nickel Road (MR 34)
Kingsway	Falconbridge Road	800m East of Third Avenue
Radar Road (MR 85)	Skead Road	Pine Ridge Street
Bancroft Drive	Kingsway	Bellevue Avenue

Staff reviewed these road sections to determine where ancillary work items could be removed from the contract while minimizing risk.

MR35: The limits proposed for this section of road will require only rumble strip ancillary work. This road section is recommended for the 2021 tender.

Kingsway: The curb within this road section is generally in acceptable condition. Ancillary work will be limited to structure adjustments. This road section is recommended for the 2021 tender.

Radar Road: Ancillary work on this section of road included a culvert replacement, which can be excluded from this tender and the culvert replaced following HIR. This road section is recommended for the 2021 tender.

Bancroft Drive: The curb is generally in poor condition and structure adjustments will be required to reset some structures for the new road surface on this section of road. Inclusion of this section in the tender could place the HIR schedule at risk due to the reliance of completion of a separate curb and structure contract, and require some duplication of work. This may prevent completion of the HIR work during the most desirable months. This road section is not recommended to be included in the 2021 tender.

The road sections recommended to be included in the 2021 tender are indicated in the following table.

Road	From	To
MR 35	Clarabelle Road	Big Nickel Road (MR 34)
Kingsway	Falconbridge Road	800m East of Third Avenue
Radar Road (MR 85)	Skead Road	Pine Ridge Street

The final extents of the HIR work within the limits noted above will be determined by staff based upon the receipt of tendered unit prices. The amount of ancillary work has been reduced to approximately 1% of the estimated contract cost.

## Conclusion

The proposed road sections in the 2021 revised tender for the Hot In-Place Recycling Pilot Project include the Kingsway, MR35 and Radar within the limits indicated in the table above. When the tender is awarded, the limits of the HIR within the proposed road sections will be identified to maximize the use of the remaining project budget of approximately \$1,390,000.

## Resources Cited

City Council Meeting, July 7, 2020, Hot in Place Asphalt Recycling Pilot Project, Accessed online:

<https://agendasonline.greatersudbury.ca/index.cfm?pg=feed&action=file&agenda=report&itemid=13&id=1473>

City Council Meeting, July 7, 2020, Hot in Place Asphalt Recycling Pilot Project Presentation, Accessed online:

<https://agendasonline.greatersudbury.ca/index.cfm?pg=feed&action=file&attachment=30687.pdf>

Operations Committee Meeting, October 21, 2019, Hot In-Place Recycling Asphalt Pilot Project, Accessed online:

<https://agendasonline.greatersudbury.ca/index.cfm?pg=feed&action=file&agenda=report&itemid=2&id=1346>

Operations Committee Meeting, October 21, 2019, Hot In-Place Recycling Asphalt Pilot Project Presentation, Accessed online:

<https://agendasonline.greatersudbury.ca/index.cfm?pg=feed&action=file&attachment=27808.pdf>

City Council Meeting, June 11, 2019, Federal Gas Tax Additional Funding, Accessed online:

<https://agendasonline.greatersudbury.ca/index.cfm?pg=agenda&action=navigator&id=1324&itemid=17075&lang=en>