

Hamlet of Furdale

Reginald Avenue Road Reconstruction Pilot Project

Update #1 (April 25, 2024)



Project Scope: Reginald Avenue Road Reconstruction (1,390m)

Cost Estimate: \$253,500.00

Partners: Hamlet of Furdale, RM of Corman Park and City of Saskatoon

Consultant: WSP Canada Inc.

Material: Recycled Asphalt Pavement (RAP)

- RAP is asphalt concrete that is produced when the asphalt surface of a paved road is milled.
- RAP consists of aggregate mixed with asphalt that is broken up, which can provide a strong base for a road.

Schedule: Mid-summer 2024 (dates to be determined)

- Haul RAP (~2 weeks) – during night
- Road construction (~2 weeks)
- Match approaches to new road height (~2 weeks)
 - RAP for gravel approaches (11)
 - Asphalt for asphalt approaches (5)
- Clean-up ditches and stockpile locations

Roles and Responsibilities:

- Project Management: RM of Corman Park
- Engineering: WSP Canada Inc.
- Project Communication/feedback: Furdale Board

Contact Information:

If you have any questions or concerns, contact the Furdale Board:

- Eric Quail (cell 306-280-9083)
- Tennille Knezacek (cell 306-370-4792)
- Dane Kostenuk (cell 306-850-6528)

Updates:

- The Furdale website will be updated regularly with project information. <https://www.furdale.net>
- Project updates will be put in Reginald Ave mailboxes & emailed furdalehamlet@protonmail.com

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Project Overview: Utilizing up to 5,500 tonnes of RAP the following activities will be completed:

- Mobilization
- Delivery of RAP to stockpiles SP#1 & SP#2.
 - 220 - 250 small & large dump trucks
- Topsoil removal and replacement.
 - Road ditch and RAP stockpiles
- Rotomix existing road to a depth of 150 mm (6")
 - Grade and compact
 - Widen road from 5.75m to 6.5m
 - Minimum 4% cross slope for drainage
- Place and compact RAP in three 75mm (3") lifts with rejuvenator for a total thickness of 225mm (9")
- Apply seal coat to road surface.
- Match approaches to new road height.
 - RAP for gravel approaches (11)
 - Asphalt for asphalt approaches (5)
- Clean up & demobilize.

Project Justification:

- A field investigation was completed on Reginald Avenue. There were numerous examples of alligator cracking which is indicative of the subgrade failing.
- Significant organic contamination of the subgrade was also found. Organic material has low bearing capacity compared to suitable borrow or granular type material.
- Overlaying the existing seal coat structure is not considered a viable option because it would not meet the R.M.'s design standard based on weak in-situ material.
- The estimated cost for rebuilding the structure using traditional road construction is \$1.4M which does not include moving of utilities and replacement of culverts.
- The City of Saskatoon is providing approximately 5,500 tonnes of RAP at no cost to the Hamlet of Furdale.

