
Sid Buckwold Bridge and Ramps Rehabilitation Update

Recommendation

That the report of the General Manager, Transportation & Construction Department dated April 1, 2019, be received as information.

Topic and Purpose

The purpose of this report is to provide information on the rehabilitation of the Sid Buckwold Bridge and Idylwyld Drive/1st Avenue South ramp structures during the 2019 and 2020 construction seasons.

Report Highlights

1. The Sid Buckwold Bridge and Idylwyld Drive/1st Avenue South ramps rehabilitation project is planned for the 2019 and 2020 construction seasons.
2. Allan Construction has been awarded the contract which allows extended work hours and includes a site rental to ensure the project is delivered in the most efficient and effective manner.
3. The Sid Buckwold Bridge will maintain two-way traffic for the duration of construction, with three lanes open to traffic during each phase of construction.
4. The preliminary traffic assessment identified high-level congestion points and impacts along the route and mitigation strategies to signal timings and traffic movements will be implemented to minimize the project impacts.
5. A communications plan has been developed to educate citizens about the necessity of the rehabilitation, project details, and traffic impacts.

Strategic Goal

This report supports the Strategic Goal of Asset and Financial Sustainability as measures are being taken to ensure City bridge assets are well-managed and well-maintained.

Background

The Sid Buckwold Bridge is a post-tensioned concrete girder bridge originally constructed in 1965. Rehabilitation of the structure was planned based on findings and recommendations from the City of Saskatoon (City) inspection and deck testing program.

The Idylwyld Drive/1st Avenue South ramps were recommended for rehabilitation within five-to-ten years. Due to the proximity in timing, the City included the ramp rehabilitation with the Sid Buckwold Bridge rehabilitation for economies of scale and to reduce future traffic impact to residents. Combining the projects ensures three major rehabilitations on the same route do not occur separately over multiple years.

At its meeting held on November 28, 2016, City Council approved the Award of Engineering Services to Stantec Consulting Ltd. for completion of design and construction services for the rehabilitation of the Sid Buckwold Bridge and Idylwyld Drive/1st Avenue South ramps.

Report

The Administration tendered the Sid Buckwold Bridge and Idylwyld Drive/1st Avenue South ramps rehabilitation project publicly on SaskTenders in December 2018. The project was awarded to the lowest qualified bidder, Allan Construction. Rehabilitation work will occur on the three structures during the 2019 and 2020 construction seasons.

The main components of the work for this project include:

- Bridge deck rehabilitation, including concrete repairs, new waterproofing membranes and new deck surfaces;
- Upgrades to all traffic barriers;
- Surface drainage improvements to reduce hydroplaning and splashing; and
- Widening of the Sid Buckwold Bridge walkway.

The rehabilitation work will be performed in two phases in order to maintain two-way traffic for the duration of the project, with three lanes open to traffic during each phase of construction.

- Phase 1 will include two northbound lanes and one southbound lane of traffic.
- Phase 2 will include two southbound lanes and one northbound lane of traffic.

Traffic flow and phasing diagrams are shown in Attachments 1 and 2. Additional information on scope breakdown and phasing is provided in Attachment 3.

A preliminary traffic assessment was completed to evaluate the impacts of the traffic restrictions. The preliminary traffic assessment identified congestion points and impacts along the route, primarily at the 20th street intersections. The City's Transportation division will be finalizing the model and implementing mitigation strategies to signal timings and traffic movements to minimize the identified impacts. A communications plan is being implemented that will help educate commuters about the traffic impacts and mitigation strategies they can implement to help reduce any potential traffic congestion.

Public and/or Stakeholder Involvement

The Administration has been working with internal stakeholders during the planning stages and will continue to do so throughout the project. External stakeholder and public information sessions were coordinated prior to construction to allow stakeholders to learn more about the project, ask questions, and discuss potential concerns.

Communication Plan

A detailed communications plan has been developed for the Sid Buckwold Bridge and Idylwyld Drive/1st Avenue South ramps rehabilitation project. The communications plan is being implemented in stages to educate the public and stakeholders about the

necessity of the rehabilitations, project details, and the traffic impacts. Communications will occur prior to the project commencing, throughout construction, and once the project is complete. Communication tools include a marketing campaign, news releases, social media messaging, advertisements, information on the City website, and signage along traffic routes. Communications for this project will also integrate into the overall Building Better Roads initiative.

Financial Implications

The budgets were approved in the 2019 Capital Budget and have sufficient funding designated for construction supervision, and construction required for the Sid Buckwold Bridge and ramps rehabilitation.

Environmental Implications

The recommendations will result in consumption of resources and associated generation of greenhouse gas emissions, once construction proceeds. The overall impact on greenhouse gas emissions is not known at this time.

Other Considerations/Implications

There are no public and/or stakeholder involvement, policy, privacy, or CPTED implications or considerations.

Due Date for Follow-up and/or Project Completion

In addition to the communications plan, the Administration will provide further reports for information after Phase 1 and prior to the 2020 construction season work.

Public Notice

Public Notice pursuant to Section 3 of Policy No. C01-021, Public Notice Policy, is not required.

Attachments

1. Sid Buckwold Bridge Rehabilitation – Phase 1 (2019) & Phase 2 (2020)
2. Sid Buckwold Bridge Rehabilitation – Construction Sequence
3. Scope of Work

Report Approval

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