

Priorities Committee Meeting_Oct23_2018

STRATEGIC INITIATIVE AND UPDATE**Range Road 231 CN Railway Overpass****Report Purpose**

To provide Priorities Committee an update on Range Road 231 and CN railway overpass design status.

Our Prioritized Strategic Goals

Goal 2 - Manage, invest and plan for sustainable municipal infrastructure

Goal 5 - Foster collaboration through regional, community and governmental partnerships

Goal 8 - Foster an environment for safe communities

Report

In August 2012, Strathcona County hired Stantec Consulting for the North of Yellowhead Design and Land for Roads and Utilities. From August 2012 to June 2016, Strathcona County and Stantec worked with various stakeholders, landowners, developers, utility companies, railway companies and Alberta Transportation to develop 80% complete detailed design drawings to support the first stage of Cambrian Development and preliminary design drawings for the remaining infrastructure within North of Yellowhead area.

The design completed to June 2016 consists of elements that support the first stage of development within Cambrian. This includes detailed design of the first Range Road 231 CN Rail overpass bridge structure; the ultimate long-term requirement is two structures. The first stage overpass design accommodates a three-lane roadway and a pedestrian trail, and includes placement of earthwork for both the first and second stage bridge structures. The design also allows for three rail tracks (two existing, one future) and a rail service/access road. The design incorporates a mechanically stabilized earth (MSE) or retaining wall along the west side of Range Road 231 south of the rail tracks which significantly reduced land impacts to adjacent businesses.

Updated cost estimate of first stage of Range Road 231 CN Rail overpass is \$16.8M:

CN Structure - first stage - 3 lanes + trail	\$8.0M
CN Overpass Earthworks	\$4.5M
CN Detour Road	\$2.2M
CN Overpass Right-of-Way	<u>\$2.1M</u>
Total	\$16.8M

These costs do not include the roadway or stormwater infrastructure adjacent to the overpass, which is currently under review based on ongoing Alberta Transportation Highway 16/Clover Bar Road study. Costs to complete detailed design for Range Road 231 CN Rail overpass is estimated at \$0.5M. It is anticipated that the Road 231 CN Rail overpass construction could potentially be ready for tender by Q3 2020.

The railway overpass structure is one component of the overall infrastructure required to support development in the North of Yellowhead area. In order to complete all design elements a number of other pieces of the puzzle come into play, mainly detailed design of Range Road 231 south of CN rail tracks and impacts to Highway 16/Clover Bar Road interchange.

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In the spring of 2017, Alberta Transportation hired Castleglenn Consulting to proceed with a Functional Planning Study to determine long-term or ultimate interchange configurations at Highway 16/Clover Bar Road, Highway 21/Highway 16 and Highway 21/Township Road 534. Initial draft reports from the study were received on June 11, 2018 followed by an initial multiple accounts evaluation workshop or options review workshop on June 21, 2018. The second workshop was held on October 12, 2018. Currently, the final report is due by end of first quarter of 2019.

Alberta Transportation's recommendation on the ultimate Highway 16/Clover Bar Road interchange configuration will set the basis for interim and long term Range Road 231 roadway and rail overpass design, establish right-of-way requirements, and allow for franchise utility (AltaLink and ATCO Pipeline) re-alignment designs to move forward.

It should also be noted that in conjunction with rail overpass, roadway and stormwater infrastructure as well as water and wastewater infrastructure is required for the development in the North of Yellowhead area to move forward.

Council and Committee History

July 17, 2018 Council approved Motion 2018/305 that Administration commence detailed design of a rail overpass at Range Road 231 and the CN rail crossing in the North of Yellowhead up to \$1,600,000.

Other Impacts

Policy: n/a

Legislative/Legal: n/a

Interdepartmental: Planning and Development Services, Utilities, Corporate Planning, Financial Planning

Master Plan/Framework: Integrated Transportation Master Plan

Enclosures

- 1 Range Road 231 – CN Railway Overpass drawing
- 2 Range Road 231 – Plan View