



REQUEST FOR DECISION

TO: Council **MEETING DATE:** August 7, 2024

FROM: Kirn Dhillon, Director of Engineering and Operations
Serge Fjetland, Engineering Technologist

SUBJECT: Wakefield Road Culvert Replacement Award and Additional Funding

FILE NO: 5331-132-2021-06

RECOMMENDATIONS

1. That additional funding for the Wakefield Road Culvert Replacement project in the amount of \$300,000 be approved for a total project cost of \$1,182,238.00 with funding to come from the Growing Communities Fund.
 2. That the Wakefield Road Culvert Replacement contract be awarded to NB Contracting LTD. in the amount of \$864,366.88 + GST; and that the Director of Engineering and Operations and the Corporate Officer be authorized to sign the contract.
-

PURPOSE

To present Council with recommendations for the Wakefield Culvert Replacement Project.

DISCUSSION

OPTIONS

1. That staff bring forward options for Council's consideration on projects approved in the 2024 capital budget that could be deferred to future years and those funds be used for the Wakefield Road Culvert Replacement Project.
2. Provide other direction to staff.

Summary

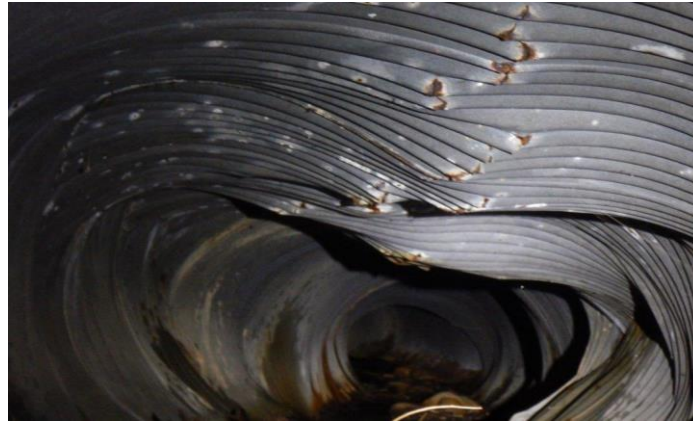
The Wakefield Road Culvert shows early signs of failure, with significant deformation and stones protruding through corrugated steel pipe (CSP). Failure of the culvert would plug the creek, causing total failure of Wakefield Road. To safeguard the road, and ensure the culvert does not collapse, the culvert needs to be replaced.

The District completed the design in-house, and the project was tendered, with the tender closing Wednesday, July 17th. The lowest bid is within the project budget of \$882,328, though the combined cost of all completed works including archaeological, environmental, and geotechnical investigations already exceeds the funding.

Accordingly, staff are requesting additional funds be allocated to the project to re-establish the contingency and the project be awarded to the lowest compliant bidder of NB Contracting LTD. Any funds not used for the Wakefield Road Culvert Replacement Project will be returned to the source fund.

Background

During the Area A06 sewer project in 2019, Wakefield Culvert was identified as nearing failure and prioritized for replacement to ensure public safety. Failure of this CSP culvert could result in the total failure of this section of road.



Condition of Wakefield Culvert in 2019

The District of Sechelt completed a geotechnical assessment of the ground surrounding the culvert, which revealed non-suitable pipe bedding materials. To ensure the lifespan of the new culvert, the existing material needs to be removed, and replaced with Master Municipal Construction Document (MMCD)-compliant pipe bedding. Archaeological and environmental permitting has been completed, with the permits issued. The area was assessed as having a low potential for archaeological impact, and no construction monitoring is anticipated to be required. To reduce project costs and minimize delays, the District procured the Class V headwall and concrete pipes. These have been delivered to the DoS public works yard.



Two truckloads of concrete pipe delivered to the Public Works yard

POLICY AND BYLAW IMPLICATIONS

None.

SUSTAINABILITY PLAN IMPLICATIONS

- 3. Environmental Sustainability
- 5. Planning for Climate Change
- 6. Sustainable Community Growth and Development

STRATEGIC PLAN IMPLICATIONS

- 3. Community Safety and Wellbeing
- 5. Commitment to Climate Change Mitigation, Adaptation, and the Preservation of the Natural Environment

FINANCIAL IMPLICATIONS

Best practice for any project is to ensure that a healthy contingency is maintained over the lifespan of the project to address unforeseen situations. The additional funding for this project will address cost risks.

Wakefield Culvert Replacement	
2024 Budget	\$ 882,328
Lowest Compliant Bid (NB Contracting LTD.)	
	\$ 864,366.88
Costs to date, including material and engineering:	\$ 77,119.82
Expected project total	
	\$ 941,486.70
Requested for 25% contingency	\$ 300,000
Project Total	\$ 1,182,328

COMMUNICATIONS

Notice of Intent to Award has been provided to NB Contracting LTD. Upon Council approval, Notice of Award will be issued in the amount of \$864,366.88 + GST, and the construction will be scheduled. The contractor will issue notice to all nearby residents five (5) business days prior to the start of construction. However, District Communications will provide public notice to the community as soon as possible pending Council's decision.

Respectfully submitted,

Serge Fjetland, ASCT, Engineering Technologist

Kirn S. Dhillon, P.Eng., PgMP
Director of Engineering and Operations