



The Corporation of Delta
COUNCIL REPORT
Regular Meeting

F.05

To: **Mayor and Council**

File No.: **D15-420**

From: **Engineering Department**

Date: **May 25, 2017**

Tasker Floodbox Replacement Contract Award

The following report has been reviewed and endorsed by the Chief Administrative Officer.

▪ **RECOMMENDATIONS:**

- A. THAT a contract for the replacement of the Tasker Floodbox and the drainage discharge pipes of the 80 Street Pump Station, along River Road at 80 Street be awarded to Bel Contracting a Division of Belpacific Excavating & Shoring LP in the amount of \$2,703,656.55, including GST.
- B. THAT construction administration and inspection services be awarded to ISL Engineering and Land Services Ltd. in accordance with their proposal for \$49,866.60, including GST.
- C. THAT the Director of Finance and the Director of Engineering be authorized to execute the contract.

▪ **PURPOSE:**

The purpose of this report is to obtain Council approval to award a contract to Bel Contracting a Division of Belpacific Excavating & Shoring LP ("Bell Contracting") and to also award a contract for the construction administration and inspection services to ISL Engineering and Land Services Ltd.

▪ **BACKGROUND:**

At the February 28, 2017 Special Meeting, Council approved the 2017 Capital Plan, which included funding for the Tasker Floodbox replacements along River Road at 80 Street, as outlined on Capital Plan detail sheets (Attachment A).

At the May 15, 2017 Regular Meeting, Council approved a Noise Variance for the Tasker Floodbox Replacement Project, granting relief from enforcement of the Delta Noise Control Bylaw No. 1906, 1972 to facilitate works from 7:00 a.m. to 9:00 a.m. and from 5:00 p.m. to 7:00 p.m. on Saturdays, and from 7:00 a.m. to 5:00 p.m. on Sundays and Holidays.

Council Policy:

Contract awards for \$50,000.00 or greater require Council approval.

▪ **DISCUSSION:**

The replacement of the Tasker Floodbox and the drainage discharge pipes will be completed in two phases.

Phase 1: Replacement of Tasker Floodbox along River Road at 80 Street

This work generally consists of the removal of the existing timber floodbox, installation of piles for seismic improvements, twinned concrete box culvert replacements, and installation of flap gates. Seismic upgrades have been incorporated into the design of the Floodbox to meet with the Inspector of Dikes' requirements.

Phase 2: Replacement of the 80 Street Pump Station Discharge Pipes

This work generally consists of the removal and replacement of the discharge piping which has experienced recent collapse. This work spans from the existing pump station, across River Road and to the 80 Street irrigation ditch.

Due to the location of the works, depth of excavation and nearby utilities, a temporary full road closure is required along River Road at 80 Street to facilitate construction in a safe and timely manner. The road closure will be in place from June 19, 2017 until September 8, 2017. Following the installations, the roadway areas will be resurfaced with new asphalt.

Invitation to Tender 17-110, Tasker Floodbox Replacement, was posted on BC Bid. One bid was received.

Bidder	Bid Price (including GST)
Bel Contracting a Division of Belpacific Excavating & Shoring LP	\$2,703,656.55

Bel Contracting's bid meets the requirements of the project.

Implications:

Financial Implications – The Tasker Floodbox replacement along River Road at 80 Street is Council approved work within the 2017 Capital Plan. The project costs are provided below.

PROJECT COSTS:

Tender Value (17-110)	\$	2,703,656.55	For Award
Phase 2 Consulting Services	\$	49,866.60	For Award
Material Testing	\$	7,500.00	Estimated
Project Allowance	\$	<u>240,000.00</u>	Estimated
Total Construction Cost including GST	\$	3,001,023.15	
Less GST Rebate	\$	<u>(142,905.86)</u>	
Net Total Project Cost	\$	2,858,117.29	

PROJECT FUNDING:

2017 ROADS – 7	\$ 1,132,000.00	Attachment A
Ministry Funding for Repair of Discharge Pipe. at 80 Street Pump Station	\$ 500,000.00	Attachment B
Drainage/ Irrigation Reserves	\$ 560,000.00	
TransLink OMR Reserves	\$ 668,000.00	
Total Available Funding	\$ 2,860,000.00	

As noted above, the anticipated total project costs are \$2,858,117.29 net of the GST rebate. Additional funding will be allocated from drainage/irrigation reserves and TransLink reserves to fund this project.

▪ **CONCLUSION:**


It is recommended that Bel Contracting a Division of Belpacific Excavating & Shoring LP be awarded a contract for the Tasker Floodbox replacement in the amount of \$2,703,656.55, including GST. It is also recommended that ISL Engineering and Land Services Ltd. be awarded a contract for the construction administration and inspection services in the amount of \$49,866.60, including GST.



Steven Lan, P.Eng.,
Director of Engineering

Department submission prepared by: Johngir Kianipour, ASCT, Engineering Project Technologist

This report has been prepared in consultation with the following listed departments.

Concurring Departments		
Department	Name	Signature
Finance	Karl Preuss	

▪ **ATTACHMENTS:**

- A. Capital Plan Detail Sheet (2017 ROADS – 7)
- B. Ministry Funding for Repair of Discharge Pipe at 80 Street Pump Station

2017 CAPITAL PLAN

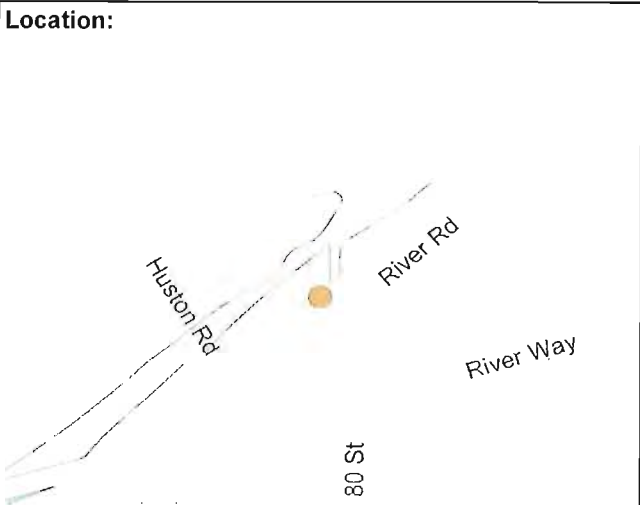
ROADS - 7

- TCA
- non-TCA

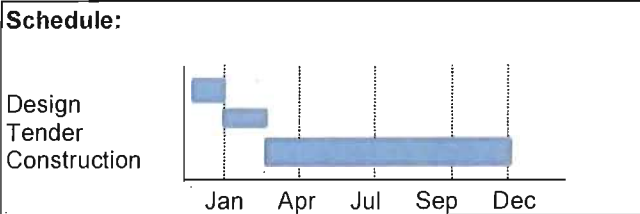
Bridge, Culvert and Retaining Wall Maintenance

Project Scope:
This is an ongoing program for the rehabilitation of Delta's bridge structures (both vehicular and foot bridges, MRN and Non-MRN), major road culverts, retaining walls and wharfs. The work identified for this year is the replacement of the Tasker Floodbox.

Funding Sources:	
2017 Tax Draw (Drainage)	\$610,000
TransLink (Rehabilitation)	\$500,000
DCC (D-107)	\$22,000
Project Total	<u>\$1,132,000</u>



Annual Associated Operating Costs starting in 2018:
\$



Project Costs:

Tasker Floodbox Replacement: \$1,132,000

Total Project Cost: \$1,132,000

2016 Capital Plan: \$150,000

Approvals Required:
Inspector of Dikes

Construction Performed by:
Municipal Crew External Contractor

Project Rationale:
It is necessary to maintain consistent and regular rehabilitation/maintenance schedules of our bridge structures, major culverts and retaining walls for operational and integrity purposes.

Program Overview:
This is an ongoing program for the rehabilitation/maintenance of Delta's bridge structures (both vehicular and foot bridges, MRN and Non-MRN) culverts and retaining walls. Regular assessments of Delta's major structures are necessary to determine rehabilitation/maintenance programs to extend the life of the infrastructure, enhance public safety and avoid the need for more costly future repairs/rehabilitation.



March 30, 2017

Mr. Steven Lan
Director of Engineering
The Corporation of Delta
4500 Clarence Taylor Crescent
Delta, BC V4K 3E2

Dear Mr. Lan:

Reference: Repair of Discharge Pipe at 80th Street Pump Station

As discussed, please consider this letter as confirmation of a Ministry contribution towards the repair of the discharge pipe at the 80th Street Pump Station. The Ministry will provide a contribution in the amount of \$500,000 to the Corporation of Delta for the pipe repair.

The repair will include the replacement of the pipe from the Pump house 30 degree bend with flange fitting to the pipe with a missing coupler just south of the failed pipe. The repair includes the supply and installation of approximately 98m of 1600mm diameter HDPE DR 32.5 Pipe. Assumptions regarding the scope of the work include:

- Excavation of material above and immediately surrounding the pipe. Excavated material to be stockpiled and reused for backfill (Fraser river sand)
- Removal and appropriate disposal of the existing pipe
- Reuse of existing granular bedding and the addition of new granular, as required
- Providing HDPE fittings suitable for adapting 1600 HDPE DR32.5 to the pump house pipe and to the existing 1650 Duromaxx pipe that is under River Road
- Restoration of access road and drainage

Trench shoring and dewatering may also be required for the installation and removal of the pipe. After the pipe has been removed appropriate disposal is required.

Based on our joint past experience and recent discussions, to achieve efficiencies and cost controls, it is recommended that:

- 1m of cover (or as much as is feasible) is removed from the existing elevation of the access road to reduce load on the pipe
- Reuse of existing materials including bedding and backfill as it will help reduce costs
- Prioritize procurement of pipe material as it is essential to controlling costs and schedule
- Prioritize general procurement to take advantage of current market competition

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Mr. Steven Lan
March 30, 2017

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Our cost estimate for the work detailed above is approximately \$500,000. A competitive process, as early as possible in this construction season, will likely result in a lower price for the project.

We have appreciated the collaborative approach to solving this problem and look forward to working with you in the future.

Yours truly,



Geoff Freer
Executive Project Director
George Massey Tunnel Replacement Project
604-660-8283

Copy to: George Harvie, Chief Administrative Officer, The Corporation of Delta
 Ashok Bhatti, Regional Director, South Coast Region
 Hugh Fraser, Deputy Director of Engineering, The Corporation of Delta
 Vern Lange, Senior Project Manager, George Massey Tunnel Replacement Project