



CITY OF RICHMOND

REPORT TO COMMITTEE

TO: Public Works and Transportation Committee **DATE:** March 7, 2001
FROM: Jeff Day, P. Eng. **FILE:** 0775-20
Director, Engineering
RE: Tender T.1525 Sanitary Sewer Forcemain Construction
Shell Road West from 120 metres south of Hammersmith Way to Williams
Road

STAFF RECOMMENDATIONS

It is recommended that:

1. The Shell Road sanitary forcemain project which is included in the proposed 2001 Capital Program at a budgeted cost of \$1,300,000 be approved for construction in advance of approval of the 2001 Capital Program.
2. That the City of Richmond enter into a contract with Pedre Contractors Limited in accordance with Tender T.1525 - Sanitary Sewer Forcemain Construction on Shell Road West from 120 metres south of Hammersmith Way to Williams Road in the total tendered amount of \$833,865 plus GST.

Jeff Day, P. Eng.
Director, Engineering

FOR ORIGINATING DIVISION USE ONLY		
ROUTED TO:	CONCURRENCE	CONCURRENCE OF GENERAL MANAGER
Budget.....	Y <input type="checkbox"/> N <input type="checkbox"/>	

STAFF REPORT

ORIGIN

This project is part of the proposed 2001 Capital Works Program. This is a major project with procurement of some key materials requiring several weeks delivery time. Therefore it is important to expedite this project if it is to be completed during the 2001 construction season.

BACKGROUND

The existing Shell Road sanitary sewer forcemain has reached capacity and as a result can not service new development in the area. Therefore there is an immediate need to provide additional sanitary sewer forcemain capacity.

Greater Vancouver Sewerage and Drainage District (GVS & DD) staff provided the City with the required forcemain pipe sizes based upon the GVS & DD computer model for trunk sewer mainlines in Richmond. The day before tender close, GVS & DD staff recommended that a portion of the proposed mainline be increased further to provide some reserve capacity and improve pumping efficiency. Based upon the rationale provided by GVS & DD staff, City staff support the additional increase in mainline size. Financial implications are summarized in the Financial Impact section of this report as well as Appendix A.

In order to expedite the project, the Ling Yen Mountain Temple contributed \$400,000 towards the sanitary sewer forcemain upgrades, with the expectation that potential cost savings realized from the tender bids would be prorated between the City and the Temple.

Scope of Work

This project will replace the existing sanitary sewer forcemain with a larger forcemain in Shell Road between Williams Road and the Greater Vancouver Sewerage and Drainage District (GVS & DD) sanitary mainline located south of Hammersmith Way.

Construction is expected to start by April 16, 2001, and be completed by July 31, 2001, subject to weather and other uncontrollable delays. A sketch of the limits of work on Shell Road is attached.

Tender Results

The City received seven tenders for this project, and these were reviewed by the City's Engineering staff. Tenders were as follows:

TENDERER	TOTAL TENDERED AMOUNTS
Pedre Contractors Limited	\$ 813,865.00
MCI Construction Limited	\$ 826,442.38
City Staff Pre-Tender Estimate	\$ 844,300.00
Hexcel Construction Limited	\$ 875,891.00
Sandpiper Contracting Limited	\$ 922,095.00
Progressive Contracting (Delta) Limited	\$ 966,222.00
J.Cote & Son Contracting Limited	\$1,060,275.00
TAG Construction Limited	\$1,116,800.00

ANALYSIS

All tenders were checked for legal or mathematical errors. The low bidder for contract T.1525 is Pedre Contractors Limited. This contractor has recent experience on City of Richmond Capital Projects.

The tender submission by Pedre Contractors Limited includes an alternate price for a different type of sewer forcemain valve from that specified on the contract drawings. City staff accept the alternate valves as equivalent and the resultant tender credit. The tender credit is summarized in Appendix A. The tender by Pedre Contractors Limited was the lowest bid before the credit for the alternate valves was deducted.

FINANCIAL IMPACT

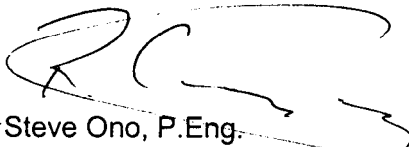
The total project budget of \$1,300,000 was jointly funded by the City and the Ling Yen Mountain Temple. As a result, a prorated portion of the remaining balance, \$78,885.00, will be credited back to the Ling Yen Mountain Temple as shown below:

Current Funding Available from City	\$ 900,000.00
Current Funding Available from Temple	\$ 400,000.00
Total Funding Available	\$ 1,300,000.00
Funding Required	\$ 1,043,626.00
Balance	\$ 256,374.00
Prorated Credit to Temple	\$ 78,885.00
Remaining Balance	\$ 177,489.00

Funding details are shown in APPENDIX A.

CONCLUSION

The tender being recommended for award is the lowest of the tenders received. The tender from Pedre Contractors Limited has been reviewed and is in order. It is therefore recommended that the project be awarded to Pedre Contractors Limited in advance of approval of the 2001 Capital Program.


For Steve Ono, P.Eng.
Manager, Engineering Design & Construction

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APPENDIX A

COST BREAKDOWN: TENDER NO. T. 1525	
Tender	\$ 813,865.00
Extra cost to increase sewer mainline size	\$ 80,000.00
Credit for acceptance of alternate valves	(\$ 60,000.00)
Revised Total Tender	\$ 833,865.00
GST (3%)	\$ 25,016.00
Overhead on Tender (5%)	\$ 42,945.00
Utility Amount	\$ 63,600.00
City Amount	\$ 28,500.00
SubTotal	\$ 993,926.00
Contingency (5%)	\$ 49,700.00
Estimated Total Project Cost	\$1,043,626.00

Funding sources are as follows:

Funding Source: Tender T.1525	Project	Proposed Funding*	Total Package Funding Required	Additional Funding Required (Unallocated)
Sanitary Sewer Utility	Shell Road	\$ 900,000.00	\$ 722,511.00	(\$ 177,489.00)
Developers Contribution	Shell Road	\$ 400,000.00	\$ 321,115.00	(\$ 78,885.00)
TOTAL		\$ 1,300,000.00	\$ 1,043,626.00	(\$ 256,374.00)

* Note: Proposed funding as 2001 Capital Program has not yet been approved by Council



SHELL RD WEST

C.N.R. R.O.W.

HAMMERSMITH
GATE

RICHMOND INCENTIVE SCHOOL

STEVESTON
HIGHWAY

SHELL RD WEST

C.N.R. R.O.W.

41 THOMAS KIDD SCHOOL

MADDOCKS
ROAD

SHELL RD WEST

C.N.R. R.O.W.

AINTREE
PLACE

WILLIAMS
ROAD

SHELL RD WEST

C.N.R. R.O.W.

CONSTRUCTION OF SANITARY FORCEMAIN
SHELL ROAD WEST
FROM ±120m SOUTH OF HAMMERSMITH GATE
TO WILLIAMS ROAD