



**CITY OF RICHMOND**

**REPORT TO COMMITTEE**

**TO:** Public Works and Transportation Committee

**DATE:** April 13, 2000

**FROM:** Jeff Day, P. Eng.  
Director, Engineering

**FILE:** 6340-20-P.22004

**RE: Roadway and Utilities Construction – Tender T.1518  
Ferndale Road from Garden City to No. 4 Road**

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**STAFF RECOMMENDATION**

That the City of Richmond enter into a contract with E. Mathers Bulldozing Co. Limited in accordance with Tender T. 1518 for the construction of the Ferndale Roadway and Utilities Construction Project in the total tendered amount of \$ 1,208,057.81 plus GST.

Jeff Day, P. Eng.  
Director, Engineering

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<b>ROUTED TO:</b>	<b>CONCURRENCE</b>	<b>CONCURRENCE OF GENERAL MANAGER</b>
Budget .....	Y <input type="checkbox"/> N <input type="checkbox"/>	_____

STAFF REPORTORIGIN

This project was included in the 2000 Capital Works Program.

Scope of Work

This project will provide sanitary sewer service to the residents of Ferndale Road who are currently using septic systems. In addition, the ditches will be infilled, and a new storm sewer and watermain will be installed in Ferndale Road.

Construction is expected to start by May 15, 2000 and be completed by December 15, 2000, subject to weather and other uncontrollable delays.

A sketch of the finished Ferndale Road project is attached.

Tender Results

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

<b>TENDERER</b>	<b>TOTAL TENDERED AMOUNTS</b>
City Staff Pre-Tender Estimate	\$1,998,805.00
Imperial Paving Limited	\$1,897,805.00
Delta Aggregates Ltd.	\$1,438,543.00
Progressive Contracting (Delta) Ltd.	\$1,367,506.00
E. Mathers Bulldozing Co. Limited	\$1,208,057.81

ANALYSIS

All tenders were checked for legal or mathematical errors. The low bidder for contract T.1518 is E. Mathers Bulldozing Co. Limited. This contractor does not have experience working for the City of Richmond on a servicing project of this size. As a result, the City will have resident inspection services for this project.

FINANCIAL IMPACT

Funding details are shown in APPENDIX A.

Current Funding Available	\$ 2,814,000.00
Funding Required	<u>\$ 1,811,757.81</u>
Remaining Balance	<u>\$ 1,002,242.19</u>

## DISCUSSION

The funding surplus of \$1,002,242.19 is attributable to efficiencies realized during the detailed design and favourable market conditions. During the detailed design stage we evaluated the elevation of the road in relation to adjacent properties and undertook an analysis of peat soil excavation needs in Ferndale Road.

The new road elevation was lowered by 0.6 metres on average from the existing road providing better access to adjacent properties, which are currently lower than the road. Lowering the road required significantly less import sand resulting in savings of \$100,000 from the original budget.

The original quantity of peat excavation estimated for Ferndale Road was based upon historical information from other projects in the area. The soils analysis completed during the detailed design indicates we should encounter significantly less peat in Ferndale road than other adjacent roadways. The reduced volume of peat results in savings of approximately \$600,000.

The remaining savings of \$300,000 are attributable to favourable market conditions realized through a tender early into the year.

## CONCLUSION

The tender being recommended for award is the lowest of the tenders received. The tender from E. Mathers Bulldozing Co. Limited has been reviewed and is in order. It is therefore recommended that the project be awarded to E. Mathers Bulldozing Co. Limited.

Robert Gonzalez, P.Eng.  
Project Engineer

RG:rg

## APPENDIX A

<b>COST BREAKDOWN: TENDER NO. T. 1518</b>	
Tender	\$ 1,208,057.81
GST (3%)	\$ 36,242.00
Overhead on Tender (6%)	\$ 74,658.00
Utility Amount	\$ 255,000.00
City Amount	\$ 117,000.00
SubTotal	\$ 1,690,957.81
Contingency (10% of tender)	\$ 120,800.00
<b>Estimated Total Project Cost</b>	<b>\$ 1,811,757.81</b>

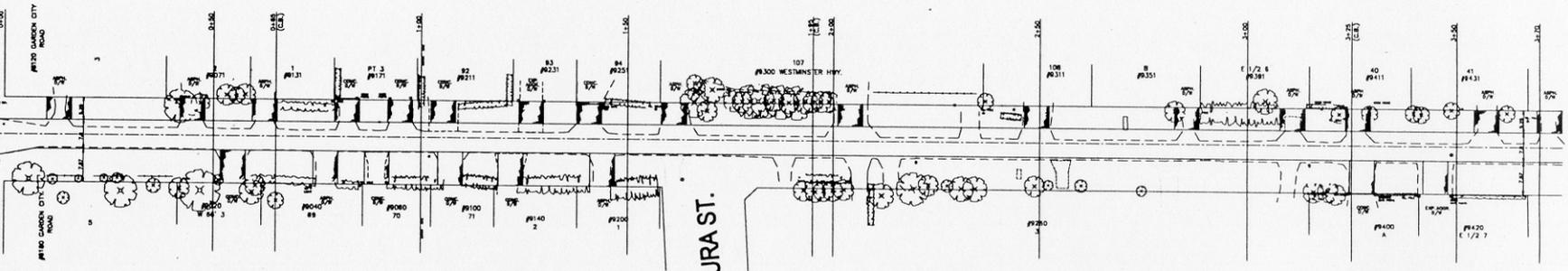
Funding sources are as follows:

<b>Funding Source: Tender T.1488</b>	<b>Project</b>	<b>Funding Approval to Date</b>	<b>Total Package Funding Required</b>	<b>Additional Funding Required (Unallocated)</b>
2000 Capital Reserve BL 7079	Ferndale Road	\$ 96,770.00	-----	(\$ 96,770.00)
2000 DCC Drain. BL 7080	Ferndale Road	\$ 975,650.00	\$ 391,000.00	(\$ 584,650.00)
2000 Sewer Lat Utility BL 7082-1495	Ferndale Road	\$ 1,030,000.00	\$ 1,030,000.00	-----
2000 DCC Water BL 7080	Ferndale Road	\$ 711,580.00	\$ 390,757.81	(\$ 320,822.19)
<b>TOTAL</b>		<b>\$ 2,814,000.00</b>	<b>\$ 1,811,757.81</b>	(\$1,002,242.19)

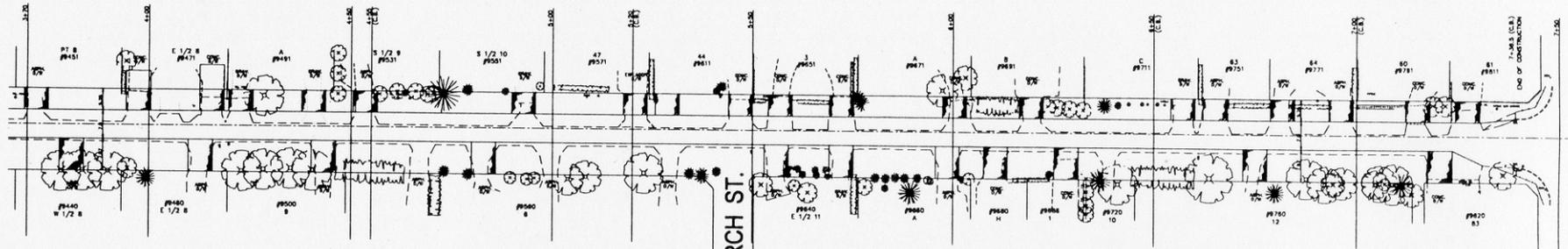
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GARDEN CITY ROAD



KATSURA ST.



BIRCH ST.

No. 4 ROAD

ROAD CONSTRUCTION  
FERNDAL ROAD  
FROM GARDEN CITY ROAD TO No. 4 ROAD