



City of Richmond

Report to Committee

To: Public Works and Transportation Committee **Date:** February 23, 2005
From: Robert Gonzalez, P.Eng.
 Director, Engineering **File:** 10-6050-01/2005-Vol 01
Re: **Award of 2005 Paving Contract T.1574**

Staff Recommendation

That the report from the Director, Engineering regarding the award of Contract T.1574 – 2005 Asphaltic Concrete Paving to the lowest bidder, Columbia Bitulithic Limited, be received for information.

Robert Gonzalez, P.Eng.
Director, Engineering
(4150)

FOR ORIGINATING DIVISION USE ONLY		
CONCURRENCE OF GENERAL MANAGER		
REVIEWED BY TAG	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
REVIEWED BY CAO	YES <input type="checkbox"/>	NO <input type="checkbox"/>

Staff Report

Origin

The asphaltic concrete paving program is part of the proposed 2005 operating budget. This is seasonal work and therefore it is important to expedite this program in order to have it commence at the earliest possible time. The typical paving season is between April and October.

Background

The scope of work includes milling and the paving of roads in priority order as identified by the City's Pavement Management System (PMS) and staff.

Paving is tentatively scheduled to commence on April 15, 2005 and will continue until October 15, 2005, subject to weather or uncontrollable delays. A detailed construction schedule will be forwarded to Mayor and Councillors as soon as it is available. In addition, residents and businesses impacted by construction will receive hand delivered letters in advance of construction and road advisories will be advertised in local newspapers.

Included in Appendix B is a list of the proposed paving sites and the respective justification.

Tender Results

The following four tenders were opened on January 20, 2005, and have been reviewed by Engineering Staff. Tenders were as follows:

TENDER	TOTAL TENDER AMOUNTS
Columbia Bitulithic Ltd.	\$1,925,067.00 + GST
Imperial Paving Ltd.	\$1,985,552.50 +GST
Winvan Paving Ltd.	\$2,031,240.00 +GST
J.Cewe Ltd	\$2,051,680.00 +GST

Note that the public tenders are accessible through the City's web site and results are posted on the BC Bid web site.

Analysis

All tenders were checked for legal or mathematical errors. The low bidder for contract T.1574 is Columbia Bitulithic Limited. This contractor has extensive relevant experience and has been the paving contractor for the City in past years.

Financial Impact

Funding Required	\$ 2,181,067
City Operational Funding Available	\$ 1,806,500
Additional Funding Sources (MRN*)	\$ 400,000
Capital Projects	<u>\$ 116,000</u>
Total Available Funding	<u>\$ 2,322,500</u>
Balance	\$ 141,433

* Represents funding from the Greater Vancouver Transportation Authority for the City's Major Road Network.

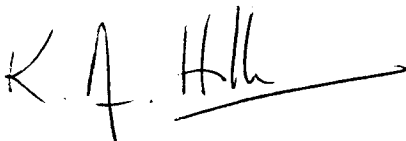
Discussion

In prioritizing the list of roads to be repaved in 2005, staff based their decisions upon available funding as well as road segments prioritized in the PMS 5-year rehabilitation program. It should be noted that in order to maintain our road network at its current level and minimize deterioration, our PMS shows an annual budget in excess of \$3.0 million would be required. However given present funding levels this is not possible. In early summer staff intend to add to the 2005 paving program additional roads from our PMS list once we have re-assessed the highest priorities based on the extent of damage done during the winter to the road network. The remaining \$141,433 balance will be used to fund the paving of these additional roads. This will ensure the best use of available funds.

As noted in Appendix A, available operational funding is currently \$1.81 million. Asphalt prices are directly related to petroleum costs and have risen over 40% since 2000. Furthermore, prices will most likely continue to increase over the next few years.

Conclusion

The tender being awarded is the lowest of the tenders received. Therefore the City is in the process of entering into a contract with Columbia Bitulithic Limited.



Tony Hillan
Manager, Roads & Construction Services
(L.1207)



Tom Maxwell
Supervisor – Inspections
(L.4189)

RG:tm

APPENDIX A

COST BREAKDOWN: CONTRACT T.1574	
Tender	\$ 1,925,067
City Works Required	\$ 156,000
Contingency (5%)	\$ 100,000
Estimated Total Project Cost	\$ 2,181,067

Funding Sources are as follows:

Funding Source T.1574	Budget Available	Total Package Funding Required	Remaining Unallocated Funds
Maintenance Operating Budget Acct. No. 4992-10-411-41730-0000	\$1,806,500	\$1,665,067	\$141,433*
2005 MRN (Major Road Network) Acct. No. 4994-10-414-41310-0000	\$400,000	\$400,000	
Capital Paving	\$116,000	\$116,000	
Total	\$2,322,500	\$2,181,067	\$141,433

*Remaining funds will be used to fund the next priority road repaving project.

APPENDIX B

CITY OF RICHMOND PUBLIC WORKS CAPPING PROGRAM

LOCATION	FAULTS
St. Edwards Drive - Cambie Road west to the Moth PL	- badly cracked surface
Cambie Road. - No. 5 Rd. to Jacombs Road	- some low utility cuts - severe transverse cracking - several alligatored areas - severe longitudinal cracking
No. 6 Road - Blundell Road to Westminster Hwy.	- severe longitudinal cracking - several alligator cracked areas - some transverse cracking
Cambie Road - Shell Road to No. 5 Road	- utility trench cracking - asphalt fatigue
Gilbert Road – Westminster Hwy to Granville Avenue (southbound lanes only)	- severe utility cuts - severe longitudinal cracking - minor transverse cracking
Sidaway Road – Blundell Road to Westminster Hwy.	- some transverse cracking - surface fatigue
Lansdowne Road – No. 3 Road to Garden City Road	- utility cuts - transverse cracking - longitudinal cracking
Garden City Road – Patterson Road to Cambie Road (southbound lanes only)	- transverse cracking - surface erosion
Granville Avenue – No. 3 Road to St. Albans Road	- utility trench reinstatement - transverse cracking
Lamond Avenue – Desmond Road to Chapmond Crescent	- multiple utility trenches
Williams Rd. No. 1 Rd. to Railway Ave.	- vibration Complaints - utility cuts - surface erosion
Jesmond Avenue – Florimond road to Gormond Road	- multiple utility trenches
Florimond Road – Jesmond Avenue to Sedgemond Place	- multiple utility trenches
Alexandra Road – Garden City Road to No. 4 Road	- alligatored asphalt - fatigued surface
Westminster Hwy. – Cooney Road to Garden City Road	- utility trenching - alligatored asphalt

LOCATION	FAULTS
Lockhart Road – Marrington Road to No. 1 Road	- base failure - asphalt fatigue
No. 2 Road – Williams Road to Steveston Hwy	- utility trenches - mrn road treatment
No. 5 Road – Westminster Hwy to Hwy 99 Overpass	- asphalt cracking
No. 5 Road – Bridgeport Road to Cambie Road	- multiple utility cuts - frost damage
Odlinwood Subdivision – Blair Drive – Sheppard Drive and laneways	- second lift asphalt
Knight St – Westminster Hwy to Alderbridge Way	- MRN treatment