



City of Richmond

Report to Committee

To: Public Works and Transportation Committee **Date:** April 16, 2008
From: Robert Gonzalez, P.Eng.
General Manager, Engineering and Public Works **File:** 02-0775-50-3181-T/Vol 01
Re: Award of 2008 Paving Contract T.3181

Staff Recommendation

That the report from the Manager, Engineering Design and Construction regarding the award of Contract T.3181 – 2008 Asphaltic Concrete Paving to the lowest bidder, Columbia Bitulithic Limited, be received for information.

Robert Gonzalez, P.Eng.
General Manager, Engineering and Public Works
(4150)

FOR ORIGINATING DIVISION USE ONLY					
ROUTED TO:		CONCURRENCE		CONCURRENCE OF GENERAL MANAGER	
Roads & Dykes		Y <input checked="" type="checkbox"/>	N <input type="checkbox"/>		
REVIEWED BY TAG		YES	NO	REVIEWED BY CAO	
		<input checked="" type="checkbox"/> <i>TR</i>	<input type="checkbox"/>	YES <input checked="" type="checkbox"/> <i>AT</i>	
				NO <input type="checkbox"/>	

Staff Report

Origin

The asphaltic concrete paving program is part of the proposed 2008 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, 2008 and will continue until approximately October 15, 2008, 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 Tuesday, March 11, 2008 and have been reviewed by Engineering Staff. Tenders were as follows:

TENDER	TOTAL TENDER AMOUNTS
Columbia Bitulithic Ltd.	\$2,791,204.30 + GST
Imperial Paving Ltd.	\$2,863,921.60 + GST
Jack Cewe Ltd.	\$2,952,026.00 + GST
Winvan Paving Ltd.	\$2,993,931.50 + GST

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

Analysis

All tenders were checked for legal and mathematical errors. The low bidder for contract T.3181 is Columbia Bitulithic Limited. This contractor has extensive relevant experience and has been the paving contractor for the City in past years including the 2007 paving program.

Financial Impact

Funding Required	\$2,791,204.30
City Operational Funding Available	\$2,230,000.00
Approved Additional Funding Request	\$ 200,000.00
Additional Funding Sources (MRN*)	\$ 500,000.00
Capital Projects	\$ 96,000.00
Total Available Funding	<u>\$3,026,000.00</u>
Sub-Balance	\$ 234,795.70
Additional Paving (See Appendix B)	\$ 215,000.00
Balance	\$ 19,795.70

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

Discussion

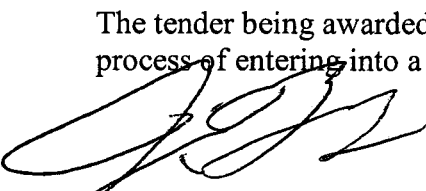
In prioritizing the list of roads to be repaved in 2008, staff based their decisions upon available funding as well as road segments prioritized in the PMS 5-year rehabilitation program. It should be noted that in order to maintain our road network at its current level and minimize deterioration, our PMS shows an annual budget in excess of \$5.0 million would be required. In early summer, staff intend to adjust the 2008 paving program to include highest priorities based on the extent of damage done during the winter and to meet the available funding levels.

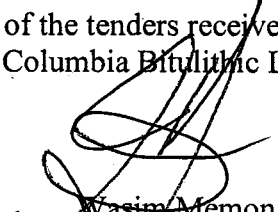
In keeping with the City's stated goal to adopt and implement sustainable practices, staff has introduced the use of the "Warm Mix Asphalt" technology for the year 2008 Paving Program. Energy expenditure involved in implementing this technology reduces the carbon footprint by up to 50% , when compared to regular "Hot Mix Asphalt".

As noted in Appendix A, available operational funding is currently \$2.23 million. Staff took the initiative of adding an "Energy Related Costs" item to the 2008 paving tender, which shares the costs related to oil price fluctuations with the contractor, thereby availing the City to the lowest possible bid prices.

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.


Jim V. Young, P. Eng.
Manager, Engineering D&C
(4610)


Wasim Memon, C.E.T.
Supervisor - Inspections
(4189)

APPENDIX A

Funding sources and costs are as follows:

Funding Source T.3181	Budget Available	Total Package Funding Required	Balance
Maintenance Operating Budget Acct. No. 4115-10-414-41730-0000	\$2,230,000.00	\$2,210,204.30	\$19,795.70
Approved Additional Funding Requests	\$200,000.00	\$200,000.00	\$0.00
2008 MRN (Major Road Network) Acct. No. 4115-10-414-45430-0000	\$500,000.00	\$500,000.00	\$0.00
Capital Paving	\$96,000.00	\$96,000.00	\$0.00
Total	\$3,026,000.00	\$3,006,204.30	\$19,795.70

APPENDIX B

CITY OF RICHMOND PUBLIC WORKS CAPPING PROGRAM

LOCATION	FAULTS
5000 Block Francis Road	- badly cracked surface
8000 Block Railway Avenue	- some low utility cuts - severe transverse cracking - several alligatored areas - severe longitudinal cracking
9000 Block Railway (intersection included)	- severe longitudinal cracking - several alligator cracked areas - some transverse cracking
5000 Block Garden City (south bound lanes)	- utility trench cracking, asphalt fatigue
5000 Block Granville Avenue (4 lanes)	- severe utility cuts, severe longitudinal cracking
5000 Moncton Street	- some transverse cracking, surface fatigue
8000 Block of No.1 Road	- utility cuts - transverse cracking - longitudinal cracking
5000 Block Steveston Highway (including intersection)	- transverse cracking - surface erosion
6000 Block Williams Road	- utility trench reinstatement - transverse cracking
Steveston Highway (130m south of No.3 Rd)	- multiple utility trenches
6000 Block Comstock Road	- vibration Complaints, utility cuts, erosion
9000 Block Pinewell Crescent	- surface erosion, cracking, fatigue
Ainsworth Crescent, Aintree Crescent (intersection included)	- surface erosion, cracking, fatigue
7000 Block Ryan Road	- surface erosion, cracking, fatigue
11000 Block 3 rd Avenue	- surface erosion, cracking, fatigue
11000 Block 4 th Avenue	- surface erosion, cracking, fatigue
Westminster Highway (Garden City to No.4 Rd. – 4 Lanes)	- MRN Treatment
Westminster Highway (No.4 Road to Shell Road – 3 Lanes)	- MRN Treatment
Knight Street & Bridgeport on-ramps	- MRN Treatment
Westminster Highway (No.5 Rd to Overpass)	- MRN Treatment
Additional Paving	
Gilbert & Lucas Intersection	-Vibration Complaints, Trench settlement, cuts
4000 Block Granville Avenue	- surface erosion, cracking, fatigue, cuts