



City of Richmond


Report to Committee

To: Public Works and Transportation Committee
From: John Irving, P.Eng. MPA
 Director, Engineering
Re: 2016 Paving Program

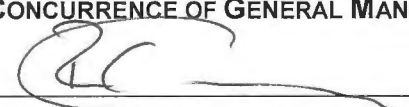

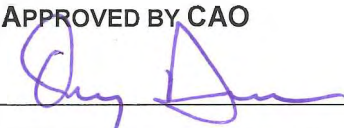
Date: October 28, 2015
File: 10-6340-01/2015-Vol
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Staff Recommendation

That the staff report titled, "2016 Paving Program," dated October 28, 2015, from the Director, Engineering be received for information.


 John Irving, P.Eng. MPA
 Director, Engineering
 (604-276-4140)

Att. 3

REPORT CONCURRENCE		
ROUTED TO: Roads & Construction	CONCURRENCE <input checked="" type="checkbox"/>	CONCURRENCE OF GENERAL MANAGER 
REVIEWED BY STAFF REPORT / AGENDA REVIEW SUBCOMMITTEE	INITIALS: 	APPROVED BY CAO 

Staff Report

Origin

As in previous years, staff are presenting the annual paving program report for information purposes. Staff propose to tender this program early to realize favourable asphalt pricing.

Background

The paving program is required to maintain the City's road network to current operating levels as well as reduce the need for costly repairs. Staff have developed a prioritized list of locations which are included in the 2016 Paving Program.

Analysis

The scope of work includes the milling and paving of roads in priority order as identified by the City's Pavement Management System (PMS) and staff. The PMS software takes into account items such as the age, structure, and current condition of the road. Pavement deflection data was gathered for select roads (arterial roads, the TransLink Major Road Network (MRN), recently resurfaced segments, and sections with substantial surface cracking) and is being used in the current PMS model.

The Aging Infrastructure Planning Report has identified a need for additional funding to maintain the City's roads to the current level of service. The impact of this funding gap has been partially mitigated by low paving contract prices over the last few years. This pricing is a result of early tendering of the annual paving contract and low material costs.

Included in Attachment 1 is a list of the primary paving sites included in the 2016 Paving Program. As with past years, it is possible that identified paving locations cannot be completed due to conflict with development projects that are not known at this time. Should the seasonal paving restrictions permit, any new development related paving locations would be replaced with the secondary paving locations. See Attachment 2 for a list of the secondary paving sites. Two maps (Richmond West and Richmond East) of proposed paving sites are attached in Attachment 3.

The tender for this year's Paving Program is scheduled to be issued to the market in December 2015. The 2016 Paving Program also includes an amendment to the City's standard tendering practices that reflects upon the City's environmental initiatives and allows for the use of recycled asphalt. The successful bidder will be encouraged to employ sustainable methodologies, practices and materials that would assist in reducing harmful emissions, in direct alignment with the City's sustainability goals.

The tender also notes that the contract award is subject to approval of the 2016 Capital Budget by Council.

Financial Impact

Proposed funding for the 2016 Paving Program has been submitted as part of the 2016 Capital Budget as follows:

Proposed Funding	Amount (\$)
2016 Annual Asphalt Re-Paving Program – MRN	\$ 914,000
2016 Annual Asphalt Re-Paving Program – Non-MRN	\$ 2,610,000
Total Proposed Funding	\$ 3,524,000

Award of the 2016 Paving Program will occur once the 2016 Capital Budget is approved by Council.

Conclusion

The procurement process for the 2016 Paving Program is underway. Contract award and commencement of paving will occur once the 2016 Capital Budget is approved by Council.



Milton Chan, P. Eng.
Manager, Engineering Design & Construction
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Supervisor – Inspections
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MC:mc

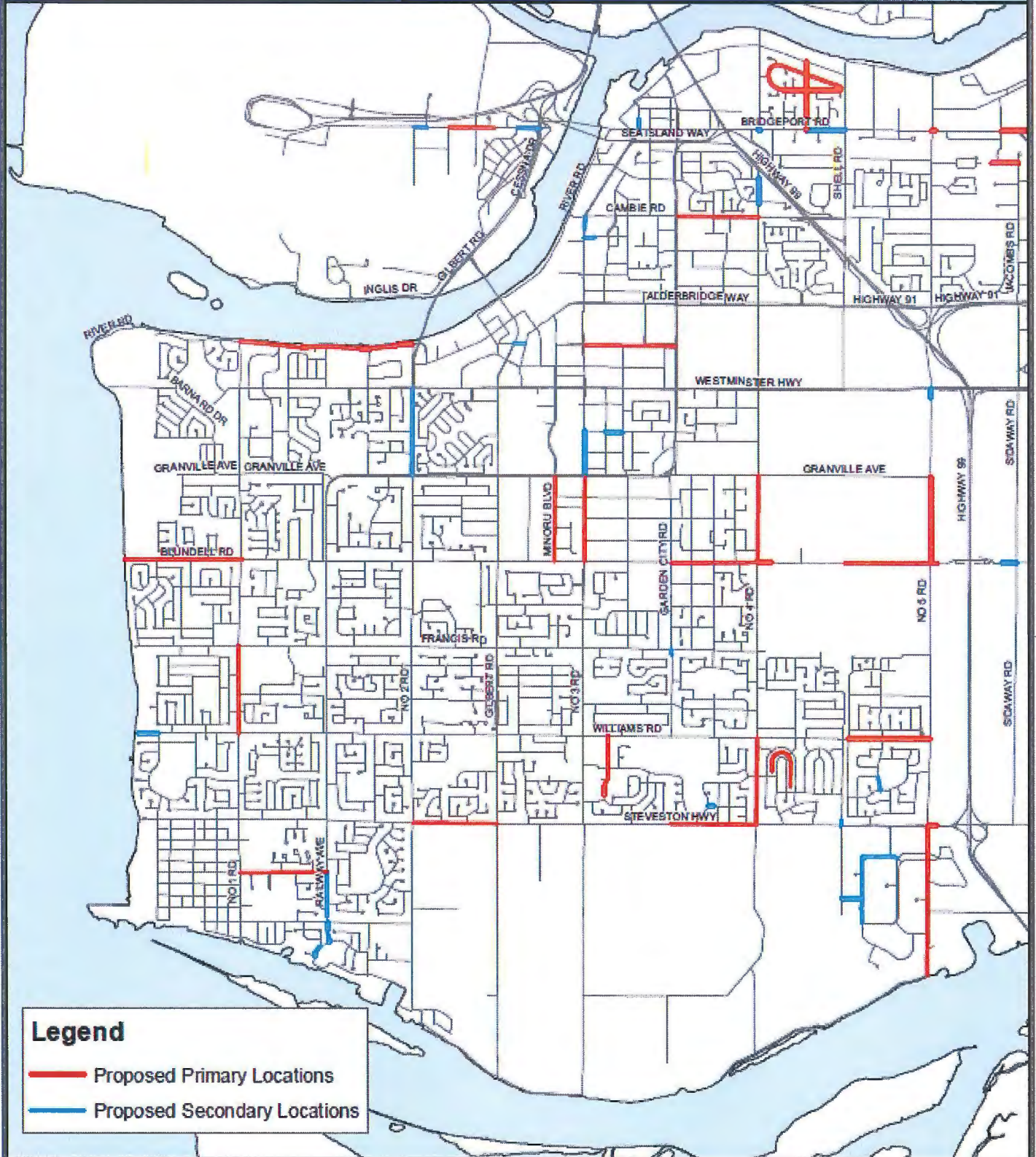
- Att. 1: 2016 Paving Program – Primary Locations
- 2: 2016 Paving Program – Secondary Locations
- 3: 2016 Paving Program Proposed Locations – Richmond West and Richmond East

2016 PAVING PROGRAM – PRIMARY LOCATIONS

LOCATION	FAULTS
No. 1 Road (9000 Block)	- Utility Cuts, Pavement Cracking
No. 3 Road (7000 Block)	- Utility Cuts, Pavement Cracking
No. 4 Road (7000 Block)	- Utility Cuts, Pavement Cracking
No. 4 Road (10000 Block)	- Utility Cuts, Pavement Cracking
No. 5 Road (7000 Block)	- Utility Cuts, Pavement Cracking
No. 5 Road (11000 and 12000 Block)	- Utility Cuts, Pavement Cracking
Blundell Road (3000 Block)	- Utility Cuts, Pavement Cracking
Blundell Road (9000 Block)	- Utility Cuts, Pavement Cracking
Blundell Road (11000 Block)	- Utility Cuts, Pavement Cracking
Cambie Road (9000 Block)	- Utility Cuts, Pavement Cracking
Lansdowne Road (8000 Block)	- Utility Cuts, Pavement Cracking
Miller Road (6000 Block)	- Utility Cuts, Pavement Cracking
City Centre Parking Areas	- Utility Cuts, Pavement Cracking
River Road (4000 and 5000 Block)	- Utility Cuts, Pavement Cracking
Williams Road (11000 Block)	- Utility Cuts, Pavement Cracking
No. 5 Road and Bridgeport Road Intersection	- MRN Treatment
Steveston Highway (6000 Block)	- MRN Treatment
Steveston Highway (9000 Block)	- MRN Treatment
Bridgeport Road (Sweden Way to Bridgeport Road Overpass)	- MRN Treatment
Nelson Road (6000 and 7000 Block)	- MRN Treatment
Blundell Road (18000 Block)	- MRN Treatment
Garry Street (4000 Block)	- Utility Cuts, Pavement Cracking
Leonard Road (10000 Block)	- Utility Cuts, Pavement Cracking
Bathgate Way (12000 Block)	- Utility Cuts, Pavement Cracking
McLennan Avenue	- Utility Cuts, Pavement Cracking
Gilmore Crescent	- Utility Cuts, Pavement Cracking
Finlayson Drive	- Utility Cuts, Pavement Cracking
Dennis Laneway (Maddocks Laneway to Wilkinson Road)	- Utility Cuts, Pavement Cracking
Cambie Road (14000 and 15000 Block)	- Utility Cuts, Pavement Cracking

2016 PAVING PROGRAM – SECONDARY LOCATIONS

LOCATION	FAULTS
No. 2 Road (6000 Block)	- MRN Treatment
Berry Road (Mortfield Road to Southdale Road)	- Mill / Overlay
Blundell Road (Highway 99 Overpass to Sidaway Road)	- Mill / Overlay
Bridgeport Road (McLennan Avenue to Shell Road)	- Mill / Overlay
Browngate Road (No. 3 Road to Hazelbridge Way)	- Mill / Overlay
Cook Road (Buswell Street to Cooney Road)	- Mill / Overlay
Coppersmith Way (Horseshoe Way to Hammersmith Way)	- Utility Cuts, Pavement Cracking
Garden City Road (Francis Road to Glenallan Gate)	- Mill / Overlay
Hammersmith Way (Horseshoe Way to Coppersmith Way)	- Utility Cuts, Pavement Cracking
Hammersmith Gate (Shell Road to Hammersmith Way)	- Utility Cuts, Pavement Cracking
Lansdowne Road (Gilbert Road to Alderbridge Way)	- Mill / Overlay
Miller Road (Jericho Road to Access Road)	- Mill / Overlay
Miller Road (Wellington Crescent to Russ Baker Way)	- Mill / Overlay
No. 3 Road (Cook Road to Granville Avenue)	- Mill / Overlay
No. 3 Road (Cambie Road to Browngate Road)	- Mill / Overlay
No. 3 Road (Bridgeport Road to Beckwith Road)	- Mill / Overlay
No. 4 Road (Kilby Drive to Highway 99)	- Mill / Overlay
No. 4 Road at Bridgeport Road	-
No. 5 Road at Westminster Hwy	- Mill / Overlay
No. 6 Road at 800 metres north of Blundell Road	- Mill / Overlay
Railway Avenue (Westwater Drive to Britannia Drive)	- Mill / Overlay
Railway Avenue (Brunswick Drive to Garry Street)	- Mill / Overlay
River Road (14000 and 15000 Block)	- Utility Cuts, Pavement Cracking
Seacote Road (Sealord Road to Seaham Crescent)	- Mill / Overlay
Shell Road at Steveston Highway	- Mill / Overlay
Westminster Highway North (Fraserwood Place to Muir Drive)	- Mill / Overlay
Williams Road (west leg of Springmont Drive to dyke)	- Mill / Overlay



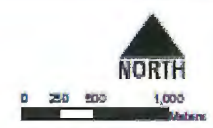
Legend

- Proposed Primary Locations
- Proposed Secondary Locations

Note:
 The information shown on this map is compiled from various sources and the City makes no warranties, expressed or implied, as to the accuracy or completeness of the information.
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PWT - 25

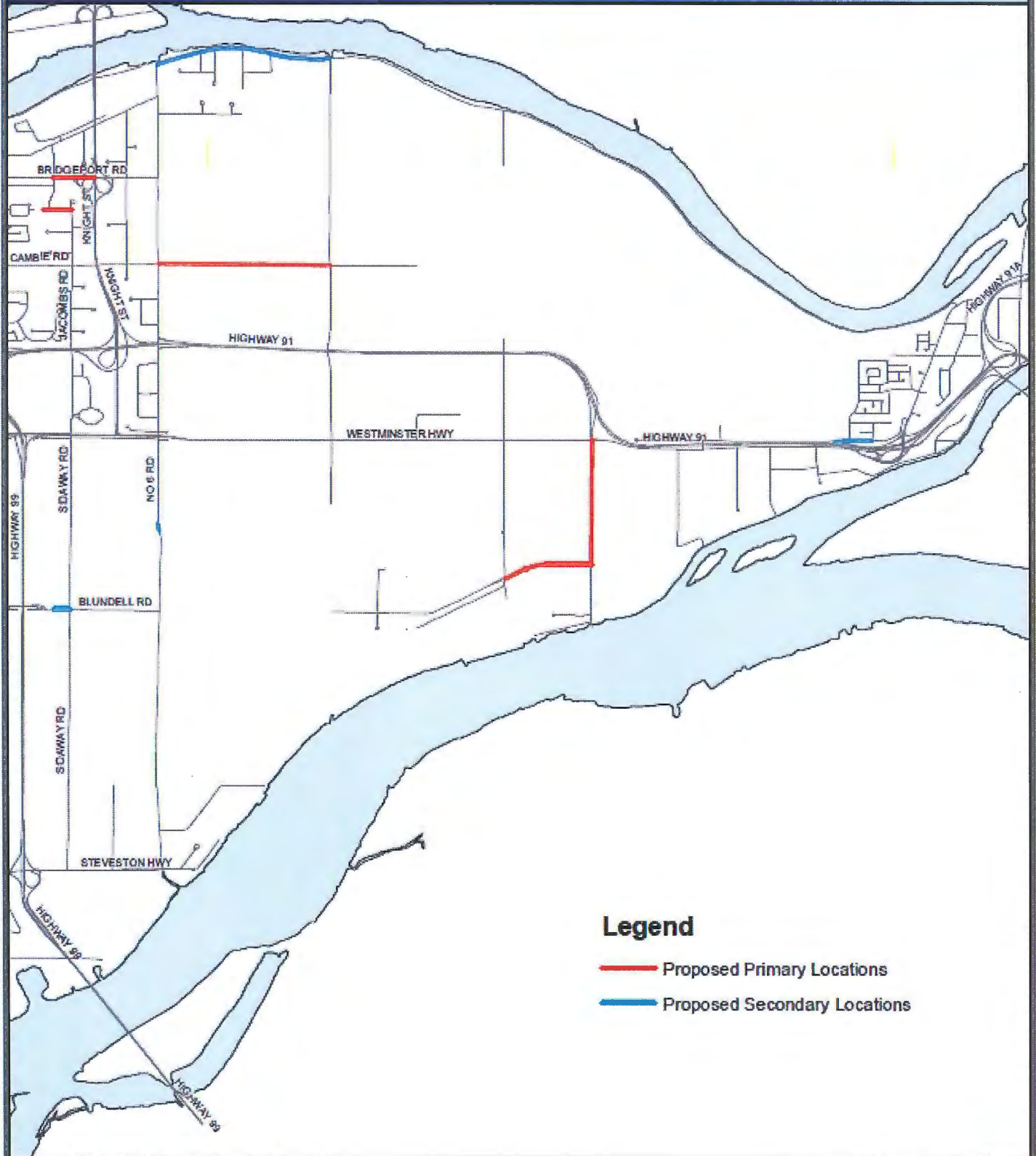
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2016 Paving Program Proposed Locations Richmond East

Attachment 3



Legend

- Proposed Primary Locations
- Proposed Secondary Locations

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PWT - 26

Prepared By: [unreadable]
 Print Date: October 22, 2015

