



City of Richmond

Report to Committee

To: Public Works and Transportation Committee
From: John Irving, P.Eng, MPA
 Director, Engineering
Re: **Proposed 2019 Paving Program**

Date: September 14, 2018
File:

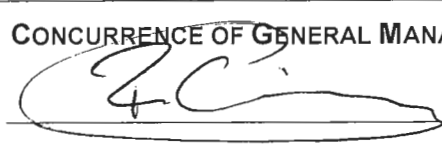

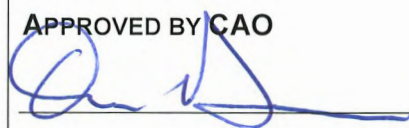
Staff Recommendation

That the staff report titled, "Proposed 2019 Paving Program," dated September 14, 2018, from the Director, Engineering be received for information.



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

Att. 3

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

Staff Report

Origin

This report supports Council's 2014-2018 Term Goal #6 Quality Infrastructure Networks:

Continue diligence towards the development of infrastructure networks that are safe, sustainable, and address the challenges associated with aging systems, population growth, and environmental impact.

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 that will be included in the 2019 Paving Program.

Analysis

The scope of work includes the milling and paving of roads and asphalt surfaces in priority order as identified by the City's Pavement Management System and staff. This also includes preparatory work such as curb and gutter repairs. The Pavement Management System software takes into account items such as the age, structure and current condition of the road. Updated pavement deflection data has been gathered on an assortment of road types (arterial roads, the TransLink Major Road Network, recently resurfaced segments, and sections with substantial surface cracking) to ensure that the Pavement Management System model results are accurate. The data is currently being analyzed, and the model being updated.

Included in Attachment 1 is a list of the primary paving sites included in the 2019 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 deferred primary paving locations would be replaced with the secondary paving locations. These secondary locations are listed in Attachment 2. Two maps of the proposed paving sites (Richmond West and Richmond East) are included in Attachment 3.

In 2018, the primary locations at Alderbridge Way (9000 Block) and Horseshoe Way (No. 5 Road to Coppersmith Way) were deferred to 2019 so that they could be co-ordinated with paving on adjacent locations. These were replaced with the secondary location Bridgeport Way (Shell Road to Simpson Road). All other 2018 primary locations will be completed with funding from the previous paving program.

In most years, some paving work is required to address unforeseen road condition issues that arise during the year, such as settling utility trenches. These are added to the paving program throughout the course of the year. Since the specific locations are not known at this time, they are not shown on the attached location maps.

Prior to 2018 achieving contractor completion of the paving program within the dates specified in the contract had been an ongoing issue. The 2018 Paving Program included a provision for schedule based liquidated damages, resulting in improved responsiveness from the paving contractor. This clause will be included in the 2019 paving tender to help ensure timely completion of the paving program.

The tender for the 2019 Paving Program is scheduled to be issued to the market in November 2018.

The 2019 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 will also note that the contract award is subject to approval of the 2019 Capital Budget by Council.

Financial Impact

Proposed funding for the 2019 Paving Program has been submitted as part of the 2019 Capital Budget as follows:

Proposed Funding	Amount (\$)
2019 Annual Asphalt Re-Paving Program – MRN	\$ 1,150,560
2019 Annual Asphalt Re-Paving Program – Non-MRN	\$ 3,131,100
Total Proposed Funding	\$ 4,281,660

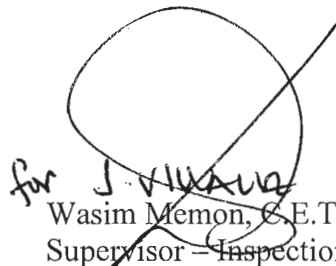
Award of the 2019 Paving Program will occur once the 2019 Capital Budget is approved by Council.

Conclusion

The procurement process for the 2019 Paving Program is underway. Contract award and commencement of paving will occur once the 2019 Capital Budget is approved by Council.



Eric Sparolin, P. Eng.
Acting Manager,
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Wasim Memon, S.E.T.
Supervisor – Inspections
(604-247-4189)

MC:mc

- Att. 1: 2019 Paving Program – Primary Locations
- 2: 2019 Paving Program – Secondary Locations
- 3: 2019 Paving Program Proposed Locations – Richmond West and Richmond East

2019 PAVING PROGRAM – PRIMARY LOCATIONS

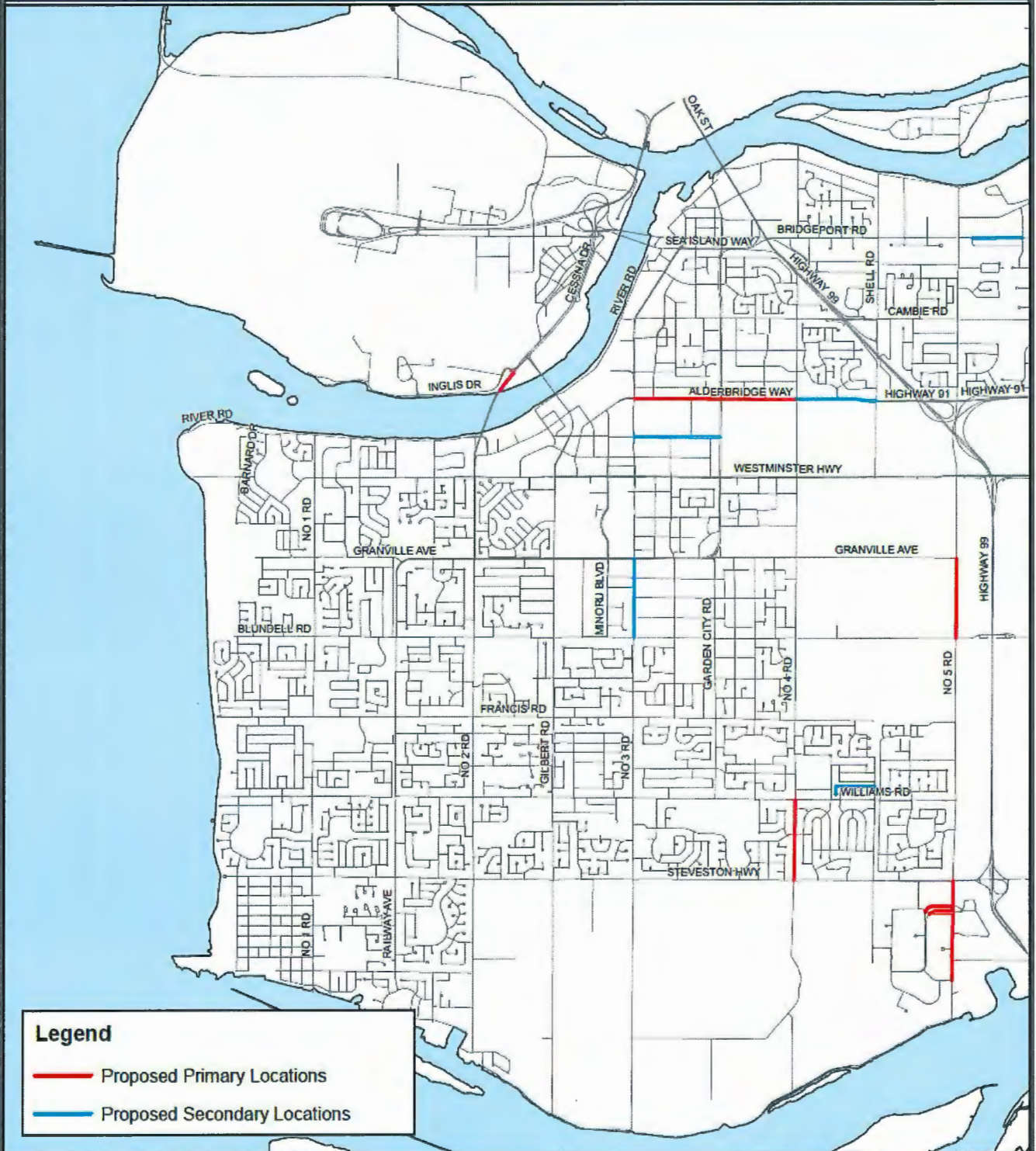
Location	Road Type
Alderbridge Way (8000 Block)	MRN
Alderbridge Way (9000 Block)	MRN
Bridgeport Road (Viking Way to No.6 Road)	Non-MRN
Horseshoe Way (No. 5 Road to Coppersmith Way)	Non-MRN
No.4 Road (10000 Block)	Non-MRN
No.5 Road (7000 Block)	Non-MRN
No.5 Road (11000 Block)	Non-MRN
No.5 Road (12000 Block)	Non-MRN
Russ Baker Way (No.2 Road Bridge to Inglis Drive)	MRN
Westminster Highway (Smith Crescent to Boundary Road)	MRN

2019 PAVING PROGRAM – SECONDARY LOCATIONS

Location	Road Type
Alderbridge Way (10000 Block)	MRN
Anahim Lane (Aragon Lane to Shell Road)	Non-MRN
Blundell Road (17000 Block)	Non-MRN
Blundell Road (18000 Block)	Non-MRN
Bridgeport Road (Vickers Way to Sweden Way)	MRN
Fraserwood Way (Fraserwood Place to Dyke Road)	Non-MRN
Lansdowne Road (8000 Block)	Non-MRN
No. 3 Road (7000 Block)	Non-MRN
No. 6 Road (Westminster Highway to Francis Road Corridor)	Non-MRN
No. 6 Road (Bridgeport Road to River Road)	Non-MRN



2019 Paving Program Proposed Locations Richmond West



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.
Users are reminded that lot sizes and legal description must be confirmed at the Land Title office in New Westminster.
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Print By: Y.Jared-Clouston
Print Date: September 2019

