



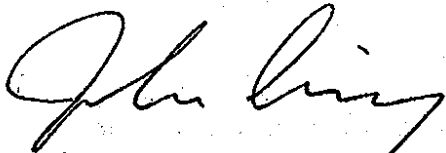
City of Richmond

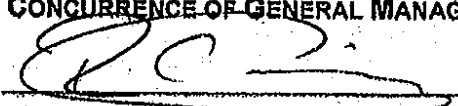
Report to Committee

To: Public Works and Transportation Committee Date: September 8, 2009
 From: John Irving, P.Eng., MPA File: 10-6340-20-P.09303/Vol 01
 Director of Engineering
 Re: No. 4 Road Box Culvert -- Transfer of Funds

Staff Recommendation

That the transfer of \$150,000 from project 40344, "Steveston Drainage Area -- Assessment and Rehabilitation/Replacement" to project 40341, "Gilbert North Drainage Area -- Assessment and Upgrade" be approved in order to commence repairs to the box culvert on No.4 Road between Westminster Highway and Alderbridge Way.


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

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|-------------------------------------|---------------------------------------|----------------------------|--|
| ROUTED TO: | | CONCURRENCE | CONCURRENCE OF GENERAL MANAGER |
| Budgets | Y <input checked="" type="checkbox"/> | N <input type="checkbox"/> |  |
| Sewerage & Drainage | Y <input checked="" type="checkbox"/> | N <input type="checkbox"/> | |
| REVIEWED BY TAG | YES | NO | REVIEWED BY CAO |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> |

Staff Report

Origin

Through the City's proactive inspection program, staff have observed sinkholes developing above the box culvert on No. 4 Road between Westminster Highway and Alderbridge Way. Staff have completed a cursory inspection and have found that the ageing box culvert is deteriorating. Sinkholes are potential safety hazards to motorists that can result in local flooding of the roadway. Surface repairs have been completed and staff are in the process of completing a detailed assessment.

The purpose of this report is to obtain Council authorization to transfer \$150,000 funding from an existing capital project, which will allow staff to commence the rehabilitation of this box culvert on No.4 Road.

Analysis

The purpose of large drainage box culverts is to collect drainage flow from local residential neighbourhoods and convey the flow to the nearest drainage pump station. Box culverts are critical component to protect residents and businesses from the risk of flooding. Given the location of this box culvert it is necessary to complete repairs on an urgent basis.

\$150,000 in capital funding was approved to complete a detailed assessment of a box culvert in the Steveston Drainage Area. In order to complete the assessment, it is necessary to clean this infrastructure. As new technology is currently being used by City crews for box culvert cleaning, the assessment can now be completed at significantly reduced costs.

Given the development of sinkholes on No. 4 Road, it is necessary to transfer funds to commence repairs. Completing these repairs will extend the life of the box culvert. The No. 4 Road box culvert is located in the Gilbert North Drainage Area. Staff will review priorities and possibly re-submit the Steveston Drainage Area project as part of a future capital program.

Staff are currently completing a detailed assessment of this section of box culvert. The assessment report will define the rehabilitation required. Once the full extent of the box culvert deterioration has been identified, additional funding could be required. If so, staff will submit a 2010 Capital Project for Council's consideration.

Staff are recommending the transfer of \$150,000 from the "Steveston Drainage Area - Assessment and Rehabilitation/Replacement" project to the "Gilbert North Drainage Area - Assessment and Upgrade" project be approved in order to commence repairs to the box culvert on No.4 Road between Westminster Highway and Alderbridge Way.

Financial Impact

The financial impact to the City is a \$150,000 funding transfer from Capital Project 40344 to 40341. No additional funds are required at this time. Once the full extent of the box culvert

deterioration is known and additional funding is required, a future capital project will be submitted for Council's consideration.

Conclusion

A section of box culvert along No.4 Road between Westminster Highway and Alderbridge Way has been identified as requiring immediate repairs in order to prevent further road damage from occurring. Staff request Council's authorization to transfer \$150,000 from project 40344, "Steveston Drainage Area - Assessment and Rehabilitation/Replacement" to project 40341, "Gilbert North Drainage Area - Assessment and Upgrade" in order to commence repairs to the box culvert on No.4 Road between Westminster Highway and Alderbridge Way.



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