



**CITY OF RICHMOND**

REPORT TO COMMITTEE

**TO:** Public Works and Transportation Committee

*To PW + T - Nov. 8/00*  
**DATE:** October 23, 2000


**FROM:** Jeff Day, P. Eng.  
Director, Engineering

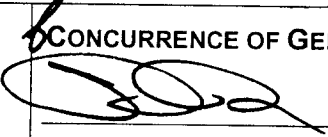
**FILE:** 6340-20 01

**RE:** Miscellaneous Drainage System Improvements

STAFF RECOMMENDATION

That \$110,000.00 of excess storm sewer funding from the Ferndale Roadway and Utility project be allocated to construct four new drainage system improvements this year.

  
Jeff Day, P. Eng.  
Director, Engineering

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<b>ROUTED TO:</b>	<b>CONCURRENCE</b>	<b>CONCURRENCE OF GENERAL MANAGER</b>
Public Works - Drainage .....	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
Finance .....	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

## STAFF REPORT

### ORIGIN

The 2000 Minor Capital program allowed for \$50,000.00 in unspecified existing laneway drainage improvements. These funds have been appropriated to drainage improvements in the laneway between Minoru and No. 3 Road from Firbridge Way to Lansdowne Road which will commence construction in late October.

The City Public Works department have identified four new drainage improvement projects where it is anticipated that City forces will be frequently required during winter months for maintenance purposes and potentially to address road reinstatement due to continued ditch erosion or flooding problems due to a lack of drainage. Preventative measures have been identified to mitigate these potential problems.

### ANALYSIS

The four new drainage improvement projects are:

1. Cedarbridge Way – Drainage water ponds in a lane joining to Cedarbridge Way posing a flooding problem to adjacent businesses. The cost to install a storm sewer and drains is estimated at \$25,000.00.
2. Forsythe Road south of Westminster Highway at bend. The road is deteriorating quickly due to ditch bank deterioration. The cost to infill the ditch at the bend is estimated to be \$14,000.00.
3. Triangle Road opposite the entrance to the Ice Arena. The road is deteriorating due to ditch bank erosion. The estimated cost to infill the ditch at the bend is \$50,000.00.
4. East side of No. 8 Road at Westminster Highway. The northeast corner of the intersection of No. 8 Road and Westminster Highway is deteriorating due to ditch erosion. The cost to infill this section of ditch is estimated to be \$21,000.00.

Each of these projects could be addressed in the future through capital funding. However, there are sufficient excess storm sewer funds from the 2000 Capital Program to construct the four drainage improvement projects in a timely manner, minimizing future costs. In addition, addressing these four problem areas will allow maintenance staff to concentrate their efforts elsewhere during the maintenance intensive winter months for road repair and flooding claims.

A map showing approximate locations of each of the four projects is included in Appendix A.

**FINANCIAL IMPACT**


The Ferndale Roadway and Utility Construction capital project has sufficient excess storm sewer DCC funding to undertake the four new drainage improvement projects as shown in the following funding summary.

Ferndale Road Remaining Storm Sewer DCC Funding	\$ 584,650.00
<b>Storm Sewer DCC Funding Required for Four New Projects</b>	<b><u>(\$ 110,000.00)</u></b>
Remaining Balance of Storm Sewer DCC Funding Available	\$ 474,650.00

Detailed funding information is included in Appendix B.

**CONCLUSION**

Four new drainage system improvement projects have been identified. It is anticipated that each of these projects will be maintenance intensive during the winter months. Preventative road stabilization and drainage improvements will mitigate potential road failures or flooding in these areas this winter. As excess storm sewer funding is available from current capital projects, we recommend that \$110,000.00 be appropriated to complete these projects this year.



Robert Gonzalez, P.Eng.  
Project Engineer

RG:rg

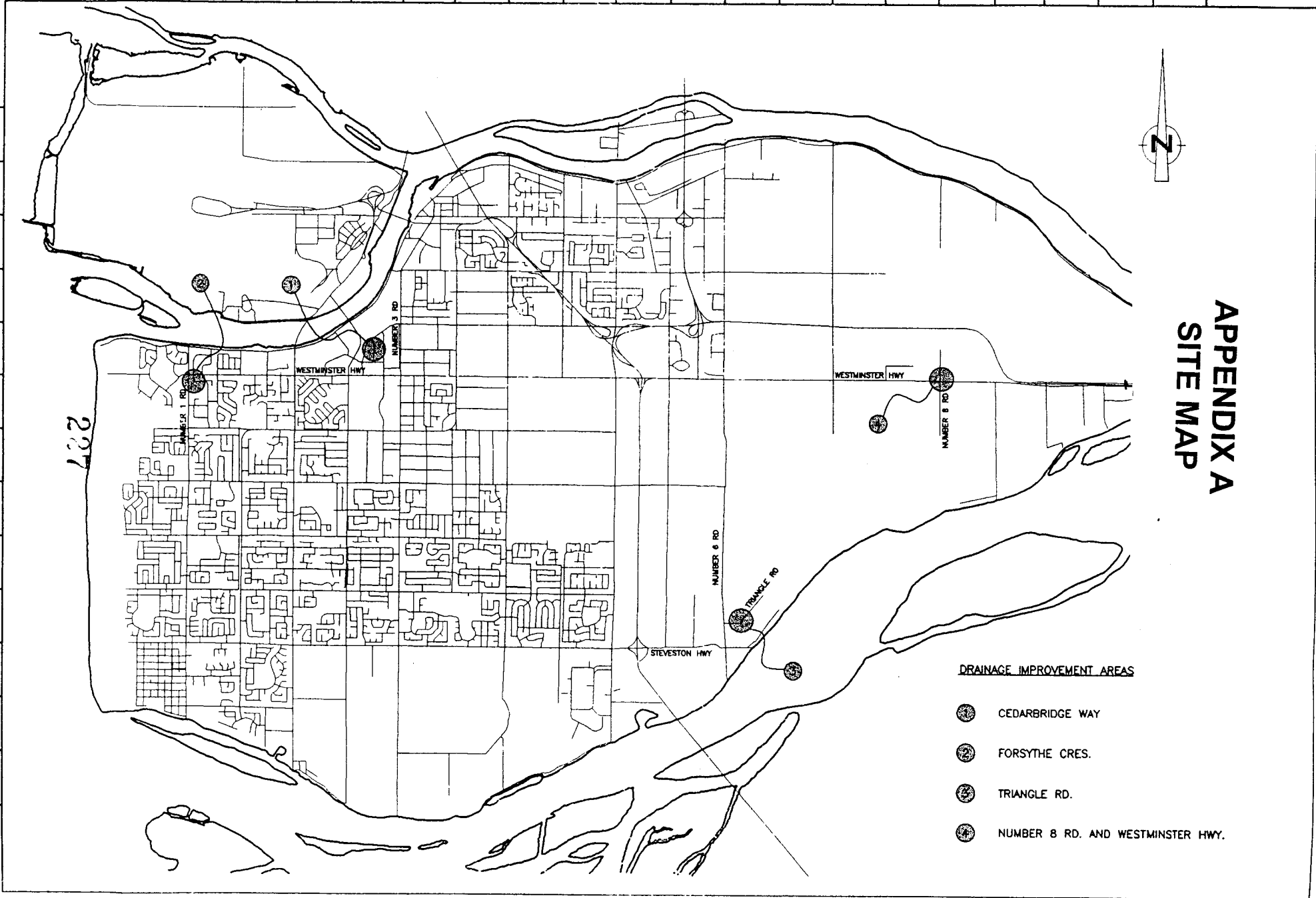
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# APPENDIX A SITE MAP

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DRAINAGE IMPROVEMENT AREAS

-  CEDARBRIDGE WAY
-  FORSYTHE CRES.
-  TRIANGLE RD.
-  NUMBER 8 RD. AND WESTMINSTER HWY.

## APPENDIX B FUNDING DETAILS

Funding sources are as follows:

<b>Funding Source:</b>	<b>Project</b>	<b>Unallocated Drainage Funding</b>	<b>Funding Required</b>	<b>Remaining Unallocated Drainage Funding</b>
2000 DCC Drain. BL #7080	Ferndale Road	\$ 584,650.00	\$ 110,000.00	\$ 474,650.00
<b>TOTAL</b>		<b>\$ 584,650.00</b>	<b>\$ 110,000.00</b>	<b>\$ 474,650.00</b>