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DATE 26 July 2000

TO/DEST. The Chair and Members Of Council

FROM/EXP. Director Engineering Division
Environment and Transportation Department

SUBJECT/OBJET **MERIVALE ROAD WATERMAIN - AMBERWOOD CRESCENT
TO BECKSTEAD ROAD
2000 URBAN WATERMAIN UPGRADES/EXTENSIONS
PROGRAM**

BACKGROUND

2000 Urban Watermain Upgrades/Extension Program - Capital Account 900200

This Program was developed in 1998 to improve hydraulic performance of the system's water supply and fire protection capacity in areas where development intensification is identified. Both the Regional Development Strategy and the Regional Water System Master Plan emphasize optimal utilization of existing infrastructure to accommodate development intensification within the existing urban boundaries.

The program components include the 2000 Planned Works listing (attached) and a Program Contingency to address project extensions and addition of projects to the program which may be required. Setting of priorities involves an interactive process, with locations being identified as development needs are prioritized. The scope of work was distributed as "Information Previously Distributed" and accepted by the Corporate Services and Economic Development Committee on 16 May 2000.

DISCUSSION

The South Nepean Technology Park is located south of Fallowfield Road between Highway 16 and Lieken Drive and is serviced with water within the 2W/2C pressure zone. The park contains several hi-tech firms including the largest being the JDS Uniphase complex located on Merivale Road at

Information Previously Distributed

To be listed on Planning and Environment
Committee Agenda of 08 August 2000

Beckstead Road. This complex requires a constant and reliable water supply to maintain its production. The area is presently serviced from a single 406 mm feedermain along Liekin Drive. Although the watermain is sufficient to supply the water demands required in the park, the existing watermain network in the area does not provide sufficient redundancy to maintain water supply should the watermain break or if maintenance work is required. This did occur on at least two occasions.

In order to improve reliability in the system, staff has recommended that a new 406 mm watermain be constructed immediately along Merivale Road from the existing 406 mm Watermain at Amberwood Crescent to Beckstead Road.

In order to expedite the design and construction of this watermain, the Region has proceeded with the design of the watermain which will be constructed in two stages. The first stage will be constructed from Fallowfield Road to Beckstead Road and will be co-ordinated with the intersection modifications road contract to be tendered by the City of Nepean. The second stage will be constructed from Fallowfield Road to Amberwood Crescent and will be tendered separately by the Region following the completion of the first stage. It is anticipated the watermain will be in service by November 2000. The City of Nepean has agreed to extend their engineering consultant assignment for the intersection modifications road design and contract administration to include the proposed watermain design.

Funding for this project can be provided within the 2000 Planned Works of the Urban Watermain Upgrades/Extension Program - Capital Account 900200. Sufficient funds are available due to changes in several of the planned projects. Revisions to the 2000 Planned Works are as follows:

Terry Fox Drive from Winchester to Michael Cowpland Dr. - This project has been deferred by the City of Kanata due to several unresolved property issues which need to be addressed prior to proceeding to construction.	\$ 820,000
A & B Line Study - This project was consolidated with a more comprehensive study to be completed under the Condition Assessment of Critical Systems project, Capital Account 900202.	\$ 200,000
Total Funds Available	\$1,020,000
Estimated Budget Required for the Merivale Road Watermain	\$ 980,000

CONSULTATION

The Merivale Road Watermain project falls under the Schedule 'A' category of the Class Environmental Assessment process as defined through the *Environmental Assessment Act*. Consultations and co-ordination of this work with the City of Nepean has taken place.

EXPENDITURE IMPLICATIONS

The 2000 Urban Watermain Upgrades/Extension Program can accommodate the additional watermain need. The co-ordination with the City of Nepean, as outlined, has provided cost savings due to tendering of a joint contract and in the sharing of reinstatement works.

*Approved by
J. Miller, P.Eng.*

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