

REGION OF OTTAWA CARLETON
 RÉGION D'OTTAWA CARLETON

REPORT
 RAPPORT

Our File/N/Réf. **50 18-98-0006-U**
 Your File/V/Réf.

DATE 12 April 1999

TO/DEST. Co-ordinator
 Corporate Services and Economic Development Committee

FROM/EXP. Environment and Transportation Commissioner

SUBJECT/OBJET **GLOUCESTER STREET WATERMAIN REHABILITATION
 1998 URBAN WATERMAIN UPGRADES & EXTENSIONS,
 PHASE II, CONTRACT NUMBER CA 9482**

DEPARTMENTAL RECOMMENDATION

That the Corporate Services and Economic Development Committee and Council approve Phase II of Contract CA9482 with Robinson Consultants Inc. Consulting Engineers, Kanata, for contract administration services for the Gloucester Street Watermain Rehabilitation, in the amount of \$193,975, bringing the total contract provision to \$461,366.

BACKGROUND

On 22 April 1998, Council approved the award of an engineering services assignment to Robinson Consultants Inc. for Phase I, that being the detailed design for the rehabilitation of the 914 mm watermain in Gloucester Street from Bronson Avenue to Elgin Street in the City of Ottawa as part of our proposed 1998 Urban Watermain Programme. This watermain, constructed in 1914-1915 is in poor structural condition and has a high priority for rehabilitation.

The rehabilitation of the watermain on Gloucester Street will be done using a unique process known as "sliplining" which involves the insertion of a new flexible High Density Polyethylene pipe of slightly smaller diameter into the existing host pipe. The advantage of this technology is reduced excavation as compared to traditional trench replacement and resulting lower costs for roadway repairs. In addition, there is much less potential for damage to other utilities and there will be significantly less disruption of traffic and inconvenience to businesses and residents in the area.

It is anticipated that the new process will save approximately 35% of the traditional cost of open-cut construction.

To our knowledge, this is only the second project of this nature in Canada using larger diameter pipe and the first to be done in an urban environment.

In February, Contract No. 99-300 was awarded to Dufferin Construction Company, Carp, to undertake the rehabilitation of the existing 914 mm watermain in Gloucester Street for a total contract provision of \$1,711,376.

Now that the design phase for these works are completed, the next phase is contract administration and advisory services. The scope of work for this assignment includes the following:

- Attendance at regularly scheduled site meetings;
- Preparation and distribution of site meeting minutes;
- Attendance at public meetings;
- Review and approval of contractor's schedule, methodology, equipment and personnel;
- Review and approval of shop drawings;
- Technical and contractual advice;
- Preparation and issuance of progress payment certificates, and providing recommendations with respect to schedule and contract extras;
- Consideration of alternative construction methods proposed by the contractor;
- Modification of designs for unforeseen conditions;
- Coordination of monitoring work with the National Research Centre;
- Site visits to monitor contract progress;
- Preparation of deficiency reports and claims assessment;
- Co-ordination of CCTV inspections;
- Preparation of record drawings.

The amount requested includes a contract amount of \$165,790, a contingency of \$16,580 and G.S.T. in the amount of \$11,605 for a provision of \$193,975, bringing the total contract provision to \$461,366.

RATIONALE

Three consultant firms were invited to present proposals for this project when it was initiated in 1998 and Robinson Consultants were recommended based on their qualifications and expertise with this alternate technology.

This assignment is for Phase II services, contract administration services and advisory during construction. Robinson Consultants have provided the Phase I services and based on their performance are recommended for continuation on this assignment.

EXPENDITURE JUSTIFICATION

Approximate age of the existing infrastructure is 84 years old. The watermain has reached the end of its structural design life and already experienced two major failures with extreme disruption to the public.

CONSULTATION

This project is a Schedule 'A' activity under the Class Environmental Assessment and is therefore approved. Residents/businesses in the area of the work have been notified prior to the commencement of construction by flyers, letters and an open house.

FINANCIAL STATEMENT

	\$
Approved Budget to Date	18,210,000
Total Paid and Committed	<u>(5,090,951)</u>
Balance Available	13,119,049
THIS REQUEST	<u>(193,975)</u>
Balance Remaining	<u>12,925,074</u>

Funds have been provided in the 1998 Capital Budget, Account 922-41927-3603, Urban Watermain Upgrades/Extensions (Reference page 328).

*Approved by
M.J.E. Sheflin, P.Eng.*

MJW/jw

FINANCE DEPARTMENT COMMENT

Funds are available as indicated.

*Approved by T. Fedec
on behalf of the Finance Commissioner*