

Agenda Item # Page #

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TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON DECEMBER 3, 2012
FROM:	EDWARD SOLDO, P.ENG. DIRECTOR ROADS AND TRANSPORTATION ENVIRONMENTAL AND ENGINEERING SERVICES
SUBJECT:	APPOINTMENT OF CONSULTANT FOR POWELL DRAIN REMEDIATION DESIGN (ES3020-UPNB2)

RECOMMENDATION

That, on the recommendation of the Director, Roads and Transportation, the following action **BE TAKEN** with respect to the appointment of a consultant for the Powell Drain Remediation Design:

- (a) DELCAN, 1069 Wellington Road South, Suite 214, London, Ontario, Canada **BE APPOINTED** Consulting Engineers for the Powell Drain Remediation Design in the amount of \$93,247, excluding HST, in accordance with Section 15, Clause 15.2(d) of the Procurement of Goods and Services Policy;
- (b) the financing for this work **BE APPROVED** as set out in the Sources of Financing Report attached hereto as Appendix "A";
- (c) the consulting fees for the project identified in (a) above, **BE IN ACCORDANCE** with the estimate on file, which are based upon the Fee Guideline for Professional Engineering Services, 2006, recommended by the Ontario Society of Professional Engineers;
- (d) the approvals given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract with the consultant for the work; and
- (e) the Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

PREVIOUS REPORTS PERTINENT TO THIS MATTER

Built and Natural Environment Committee, July 18, 2011, Subdivision Agreement – SWM Facility 2047790 Ontario Inc. 530 Sunningdale Road East 39T-05510

Built and Natural Environment Committee, October 3, 2011, Contract Award – Tender No. T11-79 – Uplands North Stormwater Management Facility B2 (ES3018)

BACKGROUND

Purpose:

This report recommends the appointment of a consultant to provide engineering services to undertake the Powell Drain Remediation Design for 260 metres of drain channel. The location of the Powell Drain remediation area is shown in Appendix 'B'.

Context:

The Powell Drain is a tributary to Stoney Creek at the north limit of the City of London within the Stoney Creek Subwatershed. A 260 metre section of drain located immediately downstream of Sunningdale Road East is recommended for remediation, to replace the existing 350 mm tile drain with a natural channel design. This section of Powell Drain was first constructed in 1928 and remains designated as a Municipal Drain under the Drainage Act 1990.

Agenda Item #	Page #

Presently, the Powell Drain tile is in poor condition with several sections susceptible to collapse. A collapse and blockage in the tile system would require the City of London to undertake emergency repairs to alleviate the flow restriction and prevent potential upstream flooding. The drain tile has been repaired twice in 2012 at minimal economic cost, due to concerns of potential blockages of sediment. However, the repairs are considered temporary and a permanent solution is needed.

The increasing progression of development in this area of the City of London requires an adequate outlet for development to continue. The Ministry of Environment (MOE) has confirmed that in order to grant approval for servicing of additional lands to the Powell Drain's upper stretches, the storm outlet must be improved to be fully functional and have adequate capacity to service developing as well as existing lands

In July 2011, Council approved a Subdivision Agreement between the City of London and 2047790 Ontario Inc. for Phase 1 of a residential subdivision (South Half of Lot 14, Concession 6, City of London, and County of Middlesex, municipally referred to as 530 Sunningdale Road East).

Further, in October 2011, Council approved the construction award for the regional Uplands North SWM Facility No. B2, located directly north of Sunningdale Road and west of Canvas Way. The regional SWM Facility is intended to service an area of approximately 115 hectares with quality, quantity and erosion control. The Powell Drain serves as the outlet for these lands via the regional SWM Facility. These projects have received the appropriate servicing approvals from the MOE: Environmental Compliance Approvals, formerly Certificate of Approval.

The remediation is recommended in order to design a natural channel for the Powell Drain, to replace the existing tile drain for a 260 metre reach of drain channel immediately downstream of Sunningdale Road East.

Discussion:

Delcan has submitted a proposal for this project, which included a detailed work program, estimate of fees, and schedule. Based on staff review of the proposals, staff considers Delcan's proposal to provide the best value to the City based on their understanding of the City's requirements.

Delcan completed the Municipal Class Environmental Assessment (EA) Study, Schedule 'B' for Storm/Drainage and Stormwater Management (SWM) Servicing Works for Stoney Creek Undeveloped Lands, and has extensive knowledge and is intimately familiar with modeling of the Stoney Creek Subwatershed Study Drainage area. Also, Delcan completed the functional, detailed and contract administration of the Stoney Creek main channel and Powell Drain remediation/reclamation works of approximately 1800 meters as well as creation of the Stoney Creek SWM Erosion Control Wetland. This Wetland represents the first Green Infrastructure in London and Ontario.

The total estimated consulting fee for the proposed Powell Drain Remediation works' design is \$93,247. This estimated fee includes a contingency allowance and the provisional items for a hydrogeological evaluation and Permit to Take Water (PTTW) in the amount of \$11,793. The use of the contingency funds would be considered only upon additional work required beyond the current scope and work plan proposal.

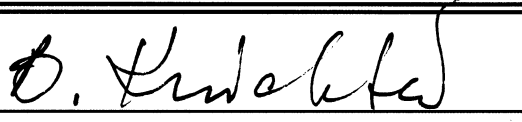

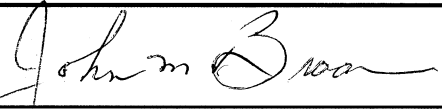
Conclusions:

It is recommended that Delcan be retained as the consultant for the Powell Drain Remediation Design. The estimated total cost associated with completing these works is \$93,247 excluding HST and includes a contingency allowance and provisional items for a Hydrogeological Evaluation and PTTW.

Agenda Item #	Page #

Acknowledgements:

This report was prepared within the Environmental and Engineering Services Department, Stormwater Management Unit.

SUBMITTED BY:	RECOMMENDED BY:
	
BERTA KRICKER, M.Eng., F.E.C., P. Eng. MANAGER OF STORMWATER STORMWATER MANAGEMENT UNIT	EDWARD SOLDO, P.ENG. DIRECTOR, ROADS AND TRANSPORTATION
REVIEWED & CONCURRED BY:	
	
JOHN BRAAM, P.ENG. MANAGING DIRECTOR ENVIRONMENTAL AND ENGINEERING SERVICES & CITY ENGINEER	

November 23, 2012

Attach: Appendix "A" – Sources of Financing
Appendix "B" – Location Map

c.c. John Freeman – Manager, Purchasing and Supply
Pat Shack – Budget Analyst

Chair and Members
Civic Works Committee

November 23, 2012
(Appoint Consulting Engineers)

RE: Powell Drain Remediation Design
Capital Project ES3020-UPNB2 - Upland North B2 Swim Pond
DELCAN - \$93,247 (excluding H.S.T.)

FINANCE DEPARTMENT REPORT ON THE SOURCES OF FINANCING:

Finance Department confirms that the cost of this project can be accommodated within the financing available for it in the Capital Works Budget and that, subject to the adoption of the recommendations of the Director, Roads and Transportation, the detailed source of financing for this project is:

<u>ESTIMATED EXPENDITURES</u>	<u>Approved Budget</u>	<u>Committed to Date</u>	<u>This Submission</u>	<u>Balance for Future Work</u>
Engineering	\$417,100	\$289,530	\$94,888	\$32,682
Construction	1,780,200	1,640,667		139,533
City Related Expenses	319,400			319,400
NET ESTIMATED EXPENDITURES	<u>\$2,516,700</u>	<u>\$1,930,197</u>	<u>\$94,888</u> 1)	<u>\$491,615</u>

SOURCE OF FINANCING:

Debenture Quota	\$374,559	\$287,599	\$14,138	\$72,821
Debenture Quota (Serviced through City-Services- 2) Mjr SWM Reserve Fund - Development Charges)	2,142,141	1,642,598	80,750	418,794
TOTAL FINANCING	<u>\$2,516,700</u>	<u>\$1,930,197</u>	<u>\$94,888</u>	<u>\$491,615</u>

Financial Note:

- 1) Contract Price \$93,247
Add: HST @13% 12,122
Total Contract Price Including Taxes 105,369
Less: HST Rebate 10,481
Net Contract Price \$94,888
- 2) Development charges have been utilized in accordance with the underlying legislation and the Development Charges Background Studies completed in 2009.

NOTE TO CITY CLERK:

- 3) Administration hereby certifies that the estimated amounts payable in respect of this project does not exceed the annual financial debt and obligation limit for the Municipality of Municipal Affairs in accordance with the provisions of Ontario Regulation 403/02 made under the Municipal Act, and accordingly the City Clerk is hereby requested to prepare and introduce the necessary authorizing by-laws.

An authorizing by-law should be drafted to secure debenture financing for Project ES3020-UPNB2 - SWM Pond-Uplands North B2 for the net amount to be debentured of \$2,516,700.

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Alan Dunbar
Manager of Financial Planning & Policy

APPENDIX 'B'

