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TO:	CHAIR AND MEMBERS BUILT AND NATURAL ENVIRONMENT COMMITTEE MEETING ON OCTOBER 31, 2011
FROM:	RON STANDISH, P. Eng. DIRECTOR, WASTE WATER AND TREATMENT PLANNING, ENVIRONMENTAL AND ENGINEERING SERVICES
SUBJECT:	CONTRACT AWARD – TENDER NO. T11-62 FOX HOLLOW COMMUNITY SWM SYSTEM (HEARD DRAIN) AND TRUNK SANITARY SEWER(ES3019 / ES5236)

RECOMMENDATION

That, on the recommendation of the Director, Wastewater and Treatment, Planning, Environmental and Engineering Services, the following action **BE TAKEN** with respect to the award of a contract for the Fox Hollow Community SWM System (Heard Drain) & Trunk Sanitary Sewer Construction:

- (a) The bid submitted by Ingerwood Construction Ltd. at its tendered price of \$4,502,006.40 excluding H.S.T., for the Fox Hollow Community SWM System (Heard Drain) & Trunk Sanitary Sewer Construction contract, **BE ACCEPTED**; it being pointed out that the bid submitted by Ingerwood Construction Ltd. was the lowest of Seven (7) bids received and meets the City's specifications and requirements in all areas;
- (b) the engineering fees for Stantec Consulting **BE INCREASED** by \$404,910 to carry out the Inspection and General Construction Administration (\$325,930) and monitoring program (\$78,980) for the Fox Hollow Community SWM System (Heard Drain) and Trunk Sanitary Sewer Construction project, it being noted that this increases the original estimated upset limit to \$1,308,430, excluding HST noting that this firm completed the engineering design, based upon the Fee Guideline for Professional Engineering Services, 2006, recommended by the Ontario Society of Professional Engineers; and in accordance with Section 15.2 (g) of the Procurement of Goods and Services Policy;
- (c) the financing for this work **BE APPROVED** as set out in the Sources of Financing Report attached hereto as Appendix "A";
- (d) 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;
- (e) the Civic Administration **BE AUTHORIZED** to undertake all the administrative acts that are necessary in connection with this work;
- (f) the approvals given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract with the consultant for the work; and
- (g) 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
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BNEC – August 15, 2011 – Fox Hollow Development Area Stormwater Management Facility #2 Depressurization Wells and Groundwater Works

BNEC – May 2, 2011 – Contract Award – Tender No. T11-40, Fox Hollow Development Area Stormwater Management Facility No. 2 Construction Contract (ES3019)

BNEC – Feb 14, 2011 – Contract Award – Tender No. T11-13, Fox Hollow Development Area Stormwater Management Facility No. 2 Site Preparation Contract (ES3019)

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ETC – May 10, 2010 – Appointment of Consulting Engineer for Engineering Services for Functional and Detailed Design of Fox Hollow Community Storm/Drainage, Stormwater Management and Sanitary Trunk Sewer Servicing Works.

ETC – April 12, 2010 – Schedule C Municipal Class Environmental Assessment Addendum for Storm/Drainage, Stormwater Management and Sanitary Servicing for the Fox Hollow Development Area

PC – October 19, 2009 – Storm/drainage, stormwater management and sanitary Trunk Sewer Servicing Works for Fox Hollow Development Area

ETC – June 1, 2009 - the appointment of a consultant for the Functional Design of Fox Hollow Community Storm/Drainage, Stormwater Management (SWM) and Sanitary Trunk Sewer Servicing Works (ES3018 ES5236) Fox Hollow Trunk Sanitary Sewer.

ETC – September 11, 2006 – Municipal Class Environmental Assessment Report Recommendations for Proposed Storm/Drainage and Stormwater Management Servicing Works for Fox Hollow Development Area

ETC – June 13, 2005 – Approval of the Appointment of the Consulting Engineer for the Municipal Class EA, Schedule 'C' Study for Storm/Drainage and SWM servicing works for Fox Hollow Development Area

ETC – March 25, 2002 – Approval of the Completion of the Functional Drainage and SWM Master Plan for Fox Hollow Community Plan

ETC – February 26, 2001 – Approval of the Appointment of the Consulting Engineer for Functional Drainage and SWM Master Plan for Fox Hollow Community Plan

BACKGROUND

Purpose:

The purpose of this report is to award the construction contract for the construction of the Fox Hollow Community Stormwater Management (SWM) System (Heard Drain) and Trunk Sanitary Sewer (ES3019/ES5236) and to recommend that the City's Consultant (Stantec Consulting) carry out the inspection and contract administration necessary to complete and construct the project (location map is shown in Appendix B).

Context:

The Addendum to the Fox Hollow Development Area Municipal Class Environmental Assessment (EA Addendum) for Storm/Drainage, Stormwater management and Sanitary Servicing was completed in April 2010. The EA Addendum recommended that a linear Heard Drain SWM facility be constructed to provide on-line erosion control storage as well as conveying storm/drainage flows from the Fox Hollow Development Area. In conjunction with the SWM facilities in the Fox Hollow Development Area the on-line erosion control storage in the Heard Drain SWM facility mitigates land use change in the Fox Hollow Development Area such that there is no increase in erosion potential in Snake Creek. The EA also recommended that the trunk sanitary sewer be constructed within the Heard Drain corridor to service the Fox Hollow Development Area. Stantec was engaged in May 2010 to commence the functional and detailed design in accordance with the EA Addendum.

The current construction project involves the construction of the east to west section of the Heard Drain linear SWM facility and includes approximately 150,000 cubic metres of cut material to be removed from the site as well as the installation of approximately 1045 metres of sanitary sewers. It is noted that as per the recommendations of the EA Addendum approximately 620 lineal metres of the Heard Drain linear SWM facility will be located up to 100 metres north of its present location in recognition that the relocation of the Heard Drain would provide more efficient and desirable land development planning and a better lot pattern in keeping with the City's planning objectives as well as accommodate the allocation for a school block for the Fox Hollow Development Area.

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Discussion:

In July 2011, the City acquired the land for SWM Facilities No. 2, 3, the Heard Drain SWM facility and the Fox Hollow trunk sanitary sewer. It is noted that a blanket easement over the lands adjacent to the SWM facilities is in effect that allows the City to undertake all works for these project. The work for this contract is anticipated to be completed in July 2012 please refer to Tables 1 and 2 Appendix 'C' that includes reports required in support of the works, anticipated contract awards and construction completion dates.

Tenders for the Fox Hollow Community SWM System (Heard Drain) & Trunk Sanitary Sewer construction were opened on Tuesday, October 4, 2011.

Seven (7) contractors submitted tenders as follows:

CONTRACTOR		TENDER PRICE SUBMITTED (Excluding H.S.T.)
1.	Ingerwood Construction Ltd.	\$4,502,006.40
2.	C.H. Excavating (London) Ltd.	\$4,594,736.13
3.	L82 Construction Ltd.	\$4,737,251.08
4.	291 Construction Ltd.	\$4,934,106.11
5.	Elgin Construction Ltd.	\$5,156,730.11
6.	J-AAR Excavating Ltd.	\$5,278,230.70
7.	Tri-Con Excavating Ltd.	\$5,463,379.40

All tenders have been checked by the Finance Department and Planning, Environmental and Engineering Services Department and the top three tenders were checked by Stantec Consulting. The tender estimate just prior to tender opening was \$4,814,877 (excluding 13% H.S.T.). All tenders include a contingency allowance of \$450,000 (excluding 13% H.S.T.).

Stantec has completed the functional and detailed design for this facility and has demonstrated extensive knowledge of City's storm/drainage and SWM infrastructure requirements within the drainage area. As such, Stantec is recommended to proceed with the inspection, general construction administration and monitoring for the Fox Hollow Community SWM System (Heard Drain) & Trunk Sanitary Sewer project. The engineering fees approved to date for this project associated with the EA Addendum (\$122,900), functional and detailed design for SWM facilities Nos. 1, 2, 3, Heard Drain and Trunk Sanitary Sewer (\$641,000) and contract administration, supervision and monitoring for the construction of SWM Facility No. 2 (\$139,620) total approximately \$903,520. The contract administration, site supervision (\$314,930) and monitoring (\$89,980) fees for the Fox Hollow Community SWM System (Heard Drain) & Trunk Sanitary Sewer project are \$404,910 for a total upset limit of engineering fees of \$1,308,430 excluding HST. It is further anticipated that Stantec will be awarded the contract administration and site inspection of SWM facilities Nos. 1 and 3 and associated drainage works in 2012 given their involvement in the EA Addendum and design of these works to date this being subject to satisfactory completion of the current works.

Conclusions:

It is recommended that Ingerwood Construction Ltd. be awarded the Construction of the Fox Hollow Community SWM System (Heard Drain) & Trunk Sanitary Sewer construction contract and that the City's consultant (Stantec Consulting) be authorized to carry out the inspection, contract administration and monitoring for this project.



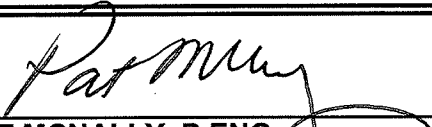
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Acknowledgements:

This report was prepared within the Planning, Environmental Engineering Services Department, Stormwater Management Unit by Billy Haklander, P.Eng., Environmental Services Engineer and Paul Titus, C.E.T., Senior Engineering Technologist.

SUBMITTED BY:	RECOMMENDED BY:
	
BERTA KRICKER, M.Eng., F.E.C., P. Eng. MANAGER OF STORMWATER STORMWATER MANAGEMENT UNIT	RON STANDISH, P.ENG. DIRECTOR, WASTEWATER AND TREATMENT – PLANNING, ENVIRONMENTAL AND ENGINEERING SERVICES
REVIEWED & CONCURRED BY:	
	
PAT MCNALLY, P.ENG. EXECUTIVE DIRECTOR OF PLANNING, ENVIRONMENTAL AND ENGINEERING SERVICES	

October 18, 2011

/PT

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

c.c. Ingerwood Construction (London) Ltd.
Stantec Consulting

Chair and Members
Built and Natural Environment Committee

RE: Fox Hollow Community SWM System (Heard Drain) and Trunk Sanitary Sewer
Capital Project ES3019 - 2010 SWM Ponds & Outlet Structures for Linked Systems
Capital Project ES5236 - Foxhollow Trunk Sanitary Sewer
Capital Project PD2043 - 2010 New Major Open Space
Ingerwood Construction Ltd. - \$4,502,006.40 (excluding H.S.T.)
Stantec Consulting - \$1,308,430 (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 Budgets and that, subject to the adoption of the recommendation of the Director, Wastewater and Treatment, 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>
ES3019-2010 SWM Ponds & Outlet Structures				
Engineering	\$2,258,000	\$1,328,871	\$376,420	\$552,709
Land Purchase	4,727,269	4,724,730		2,539
Construction	8,184,131	3,802,835	4,015,716	365,580
City Related Expenses	15,000	59		14,941
	<u>15,184,400</u>	<u>9,856,495</u>	<u>4,392,136</u>	<u>935,769</u>
ES5236-Foxhollow Trunk Sanitary Sewer				
Engineering	467,668	397,896	35,616	34,156
Construction	1,436,635	703,071	556,143	177,421
City Related Expenses	100,000	2,012		97,988
	<u>2,004,303</u>	<u>1,102,979</u>	<u>591,759</u>	<u>309,565</u>
PD2043-2010 New Major Open Space				
Engineering	27,500	13,419		14,081
Construction	372,500	189,643	9,383	173,474
	<u>400,000</u>	<u>203,062</u>	<u>9,383</u>	<u>187,555</u>
NET ESTIMATED EXPENDITURES	<u>\$17,588,703</u>	<u>\$11,162,536</u>	<u>\$4,993,278</u> ¹⁾	<u>\$1,432,889</u>

SUMMARY OF FINANCING:

ES3019-2010 SWM Ponds & Outlet Structures				
Drawdown from Sewage Works Reserve Fund	\$624,500	\$405,375	\$180,639	\$38,486
Debenture By-law No. W.-5289-233 (Serviced through City Services - Sewer Reserve Fund - Development Charges)	2) 14,559,900	9,451,120	4,211,497	897,283
	<u>15,184,400</u>	<u>9,856,495</u>	<u>4,392,136</u>	<u>935,769</u>
ES5236-Foxhollow Trunk Sanitary Sewer				
Drawdown from Sewage Works Reserve Fund	19,500	10,731	5,757	3,012
Drawdown from City Services - Sewer Reserve Fund (Development Charges)	2) 150,500	150,500		0
Debenture By-law No. W.-5291-291 (Serviced through City Services - Sewer Reserve Fund - Development Charges)	2) 1,834,303	941,748	586,002	306,553
	<u>2,004,303</u>	<u>1,102,979</u>	<u>591,759</u>	<u>309,565</u>
PD2043-2010 New Major Open Space				
Capital Levy	102,300	51,933	2,400	47,967
Drawdown from City Services - Parks & Rec. Reserve Fund (Development Charges)	2) 297,700	151,129	6,983	139,588
	<u>400,000</u>	<u>203,062</u>	<u>9,383</u>	<u>187,555</u>
TOTAL FINANCING	<u>\$17,588,703</u>	<u>\$11,162,536</u>	<u>\$4,993,278</u>	<u>\$1,432,889</u>

1) **FINANCIAL NOTE:**

<u>CONSTRUCTION</u>	<u>ES3019</u>	<u>ES5236</u>	<u>PD2043</u>	<u>Total Construction</u>
Contract Price	\$3,946,262	\$546,524	\$9,220	\$4,502,006
Add: HST @13%	513,014	71,048	1,199	585,261
Total Contract Price Including Taxes	4,459,276	617,572	10,419	5,087,267
Less: HST Rebate	443,560	61,429	1,036	506,025
Net Contract Price	<u>\$4,015,716</u>	<u>\$556,143</u>	<u>\$9,383</u>	<u>\$4,581,242</u>

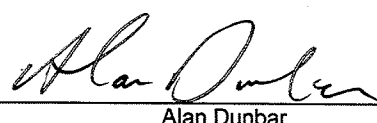
ENGINEERING

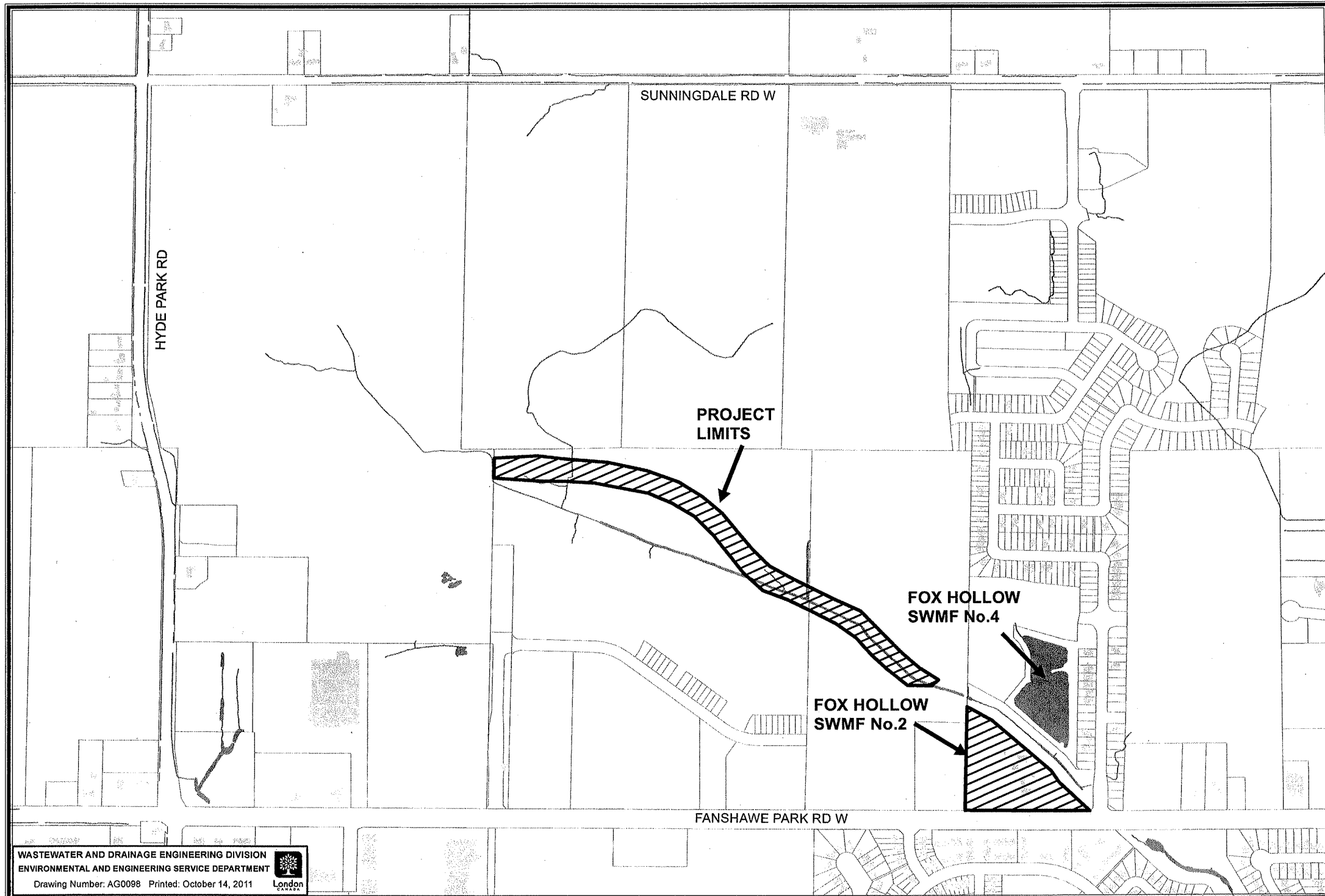
	<u>ES3019</u>	<u>ES5236</u>	<u>Total Engineering</u>
Estimated Expenditure			\$1,308,430
Less: Amount previously approved by Council			903,520
Contract Price	369,910	35,000	404,910
Add: HST @13%	48,088	4,550	52,638
Total Contract Price Including Taxes	417,998	39,550	457,548
Less: HST Rebate	41,578	3,934	45,512
Net Contract Price	<u>\$376,420</u>	<u>\$35,616</u>	<u>\$412,036</u>

TOTAL CONSTRUCTION & ENGINEERING

\$4,993,278

2) Development charges have been utilized in accordance with the underlying legislation and the Development Charges Background Studies completed in 2009.


Alan Dunbar



APPENDIX 'B'

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APPENDIX 'C'**Table 1: Works and Studies Completed to Date**

Fox Hollow SWM Facility No. 4 and approximately 225 m of the Heard Drain channel works was constructed by Auburn in 2006 at the cost of \$2.9M as an Urban Works Reserve Fund Project.	
Reports	Engineering Contract Award
EA Implications Report	May 5, 2009
EA Addendum Report	October 19, 2009
Functional and Detailed Design for SWM Facility No. 1, 2, 3, Heard Drain and trunk sanitary sewer	May 10, 2010

Table 2: Works to be completed

Contract¹	Contract Award	Completion Date
Construction of SWM Facility No. 2	July 25, 2011	December 2, 2011
Construction of Heard Drain SWM Facility and Sanitary Trunk Sewer (current contract)	Fall 2011	Summer 2012
Construction of SWM Facility No. 3 and North/South Channel of Heard Drain	Summer 2012	Fall 2012
Construction of SWM Facility No. 1	Summer 2012	Fall 2012

Notes:

¹ Consultant Contract Administration and Supervision Fees to be awarded in conjunction with the award of the Contract