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TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON MARCH 18, 2013
FROM:	EDWARD SOLDI, P.ENG. DIRECTOR, ROADS AND TRANSPORTATION
SUBJECT:	CONTRACT AWARD: TENDER NO. T12-106 2013 GROWTH MANAGEMENT IMPLEMENTATION STRATEGY (GMIS) OXFORD STREET WEST WIDENING AND HYDE PARK TRUNK SANITARY SEWER (PHASE 1A)

RECOMMENDATION

That on the recommendation of the Director, Roads and Transportation, the following actions be taken with respect to awarding the Oxford Street West Widening and Hyde Park Trunk Sanitary Sewer (Phase 1A) Contract from Sanatorium Road To Hyde Park Road (TS1493, ES2493, EW3685):

- (a) the bid submitted by J-AAR Excavating Limited, 200 King Street, Ilderton, N0M 2A0, at its submitted tendered price of \$7,932,359.34 (excluding H.S.T.) for the 2013 Oxford Street West Widening Contract **BE ACCEPTED**, it being noted that the bid submitted by J-AAR Excavating Limited was the lowest of six (6) bids received and meets the City's specifications and requirements in all areas;
- (b) Delcan Corporation, 1069 Wellington Road South, Suite 214, London, Ontario, N6E 1H6 **BE APPOINTED** Consulting Engineers for the contract administration and resident supervision of the said project in the amount of \$673,651.00, excluding HST, in accordance with Section 15.2 (g) of the Procurement of Goods and Services Policy and based upon the fee Guideline for Professional Engineering Services, recommended by the Ontario Society of Professional Engineers;
- (c) future additional annual operating costs of \$13,600.00 **BE APPROVED** as a first priority commitment from available assessment growth in 2014 subject to final budget approval;
- (d) the financing for this project **BE APPROVED** as set out in the Source of Financing Report attached hereto as Appendix 'A';
- (e) the Civic Administration **BE AUTHORIZED** to undertake all the administrative acts that are necessary in connection with this project;
- (f) the approval given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract or issuing a purchase order for the material to be supplied and the work to be done relating to this project (Tender 12-106); 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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- Civic Works Committee, Jan 21, 2013 – 2013 Major Infrastructure Construction Program
- Built and Natural Environment Committee, May 2, 2011 – Oxford Street West Widening Hyde Park Trunk Sanitary Sewer Appointment of Consulting Engineer
- Built and Natural Environment Committee, April 20, 2011 – Hyde Park Trunk Sanitary Sewer Municipal Class Environmental Assessment Amendment ES 3081,
- Board of Control, April 13, 2005 – Oxford Street Widening, First Phase

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- Environment and Transportation Committee, February 24, 2003 – Appointment of Consulting Engineering Firm Capital Works Budget, Project TS1488, TS1493 Detailed Design for the Oxford Street West Widening Sanatorium Road To Wonderland Road North.
- Environment and Transportation Committee, June 10, 2002- Environmental Study Report Oxford Street West Widening Sanatorium Road to Wonderland Road North

BACKGROUND

Purpose:

This report provides an evaluation of bids received and provides recommendations on the award of a construction contract and continuation of engineering consulting services for the widening of Oxford Street West from Sanatorium Road to Hyde Park Road from two to five lanes. This will enhance its function as a major arterial road, improve traffic capacity and enhance the level of safety. Phase 1A of the Hyde Park Trunk Sanitary Sewer has also been coordinated with this project for restoration cost savings and efficiency.

Context:

Oxford Street West Widening

The Transportation Plan Review identified the Oxford Street corridor as an existing deficiency in the City's arterial road network based upon 1991 traffic volumes and this was reaffirmed in the Smart Moves 2030 Transportation Master Plan. The continued development growth in the Oakridge, Hyde Park, River Bend, and Byron areas has further increased travel demands further. With the completion of the Oxford Street extension, the corridor is now linked directly to development in Komoka and to the Highway 402 corridor. This corridor is a key transportation connection and gateway into the City.

The Environmental Assessment (EA) for Oxford Street West capacity improvements between Wonderland Road and Sanatorium Road was completed in May 2002. The Environmental Study Report recommended the construction of five lanes (two in each direction and one for left turns) with bicycle accommodation and sidewalks. The EA recommended dividing this project into two phases east and west of Wonderland Road. The first phase of the project from Wonderland Road to Hyde Park Road was completed in 2005. Noise walls were installed for the second phase in 2009 and this current tender will complete the capital construction of the second phase in 2013.

Hyde Park Trunk Sanitary Sewer

The Sanitary Servicing Development Charges 2008 Update (AECOM, April 2009) and associated Growth Management Implementation Strategy (GMIS) identified the future Hyde Park Trunk Sanitary Sewer construction in two phases:

- | | | |
|-----------------------|---------------------------------------|---|
| HP7B, Phase 1 (2013): | Oxford Street West
Royal York Road | Sanatorium Road to Royal York Road
Oxford Street to Hyde Park Road |
| HP7A, Phase 2 (2014): | Hyde Park Road | Royal York Road to south of CP Rail |

Due to the number of construction days required to complete Phase 1, it was further phased into Phase 1A & 1B, to enable completion in one year via simultaneous construction by two contractors in 2013. Phase 1A extends the 925 mm diameter sewer on Oxford Street, from Sanatorium Road to Royal York Road, as part of the Oxford Street Widening project. Phase 1B will start at the same time as the Oxford Street project, starting with the construction of the 600-925 mm diameter trunk sanitary sewer on Royal York Road, from Oxford Street to Hyde Park Road as shown in Appendix B.

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The Royal York Road project is a separate tender which will be included in the agenda of this Civic Works Committee. Completing Phase 1 in 2013 allows for continuation of the Phase 2 trunk sanitary sewer in coordination with the Hyde Park Road Widening, scheduled for 2014.

DISCUSSION

Contract Design and Preparation:

Oxford Street West between Sanatorium Road and Hyde Park Road is a major arterial road that is predominantly two lanes wide and represents a vital link in the City of London’s arterial road network.

The recommended improvements for this corridor include:

- Widening of the existing roadway to four lanes with a centre turn lane to accommodate the existing and future travel demands, improve traffic safety and maintain access to properties;
- Provision of sidewalks along both sides of the corridor to improve the safety and accessibility for pedestrians;
- Provisions of bicycle lanes to better accommodate commuter cyclists as recommended by London’s Bicycle Master Plan;
- Upgrades to underground servicing including watermain and sewer installations;
- Most warranted noise mitigation walls were installed previously; and,
- Tree plantings will be carried out under a subsequent landscaping contract.

Utility Relocations

The road widening necessitated numerous utility relocations involving London Hydro, Union Gas, Bell Canada and Rogers. Utility relocations have been underway along the corridor since the summer of 2012. Utility companies were advised to complete their relocations by March 2013. These were undertaken separately and partially funded by the City as necessary based on standard utility cost-sharing agreements.

Tree Clearing

Tree removal and trimming was undertaken in September of 2012. These removals were done in advance of the utility work to facilitate the London Hydro relocations.

Construction Considerations:

Traffic Staging

Construction is anticipated to begin in late March and be completed at the end of November 2013. The final surface course paving and some surface restoration will carry over into 2014.

This project requires involved construction staging due to the depth of the sewers on Oxford Street. It will be necessary to close Oxford Street to eastbound traffic for 45 to 60 days (single lane westbound), commencing after May 15th, 2013. The contract has been structured to minimize this interruption as much as possible. Access to homes and an elementary school (until June 30th) will be maintained.

This one-way traffic lane condition was communicated at the October 2012 public meeting, a January stakeholder meeting with emergency service providers, LTC and Canada Post and via a report to the January 21, 2013 Civic Works Committee.

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The May 15th start of the one-way condition has been coordinated with other 2013 traffic impacts from construction projects in west London. The one way condition on Oxford Street is scheduled to occur after the developer-led closure of Springbank Drive and Commissioners Road and before the widening of Sarnia Road, east of Aldersbrook Road. The public will be notified of lane closures through the media, website, and advanced road signage. Some work at intersections or at service crossing points may require weekend work, night work, consecutive shifts and the use of police services to control traffic.

Dewatering Requirements

Substantial temporary dewatering is anticipated for construction of the deep trunk sanitary sewer in saturated soil conditions. The excavations for the trunk sanitary sewer extend as much 11 m below grade and up to 3.3 m below the groundwater level. Existing soil conditions are highly variable throughout the construction corridor. It is anticipated that the use of trench boxes/liners, double trench boxes, slide rail systems, shoring or other trench supports will be required for sewer and manhole placement to minimize the impact on road users.

A hydrogeological study was completed to identify mitigation measures to prevent inflow and infiltration and to ensure no adverse impacts to the groundwater table during construction. As part of this project, a Category 3 Permit to Take Water is being obtained in accordance with the Ontario Water Resources Act (OWRA).

Sifton Bog

The Sifton Bog is a designated Environmentally Significant Area in the City of London as well as a Provincial Significant Wetland. This Area of Natural and Scientific Interest will be protected accordingly during construction activities through erosion and sediment controls. This project will improve the long-term water quality of the bog by directing salt-contaminated flows from Oxford Street away from the bog. The hydrogeological study determined that the Sifton Bog should not be affected by the temporary dewatering proposed as part of this project; however, groundwater monitoring is planned.

Tender Process:

Prequalification process

Contractors were pre-qualified to ensure that the Contract is awarded to a Contractor with the necessary experience and qualifications to construct the deep sewer several meters below the water table while protecting traffic and existing utilities.

On December 12th, 2012, ten (10) Contractors submitted their qualifications for consideration. The evaluation of these submissions was based on weighted scoring of eight mandatory submission requirements. Where possible, the submitted references were contacted and their comments recorded. Upon review of all information provided, recommendations were made for the six (6) contractors listed below to be invited to prepare a quote for the tender of the Oxford Street Widening Project. This process has been used on previous City of London construction contracts.

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Tender Summary

Tenders for the Oxford Street West Widening project were opened on February 13th, 2013. Six (6) contractors submitted tenders prices as listed below (exclusive of H.S.T.):

CONTRACTOR		TENDER PRICE SUBMITTED	CORRECTED TENDER PRICE
1.	J-AAR Excavating Ltd.	7,932,359.34	-
2.	Bre-Ex Limited	8,042,588.82	8,042,338.82
3.	Coco Paving Inc	8,418,000.00	-
4.	L82 Construction Ltd	8,962,778.68	-
5.	Blue Con Construction	9,851,145.04	-
6.	Drainstar Contracting Ltd.	12,933,869.00	13,616,509.80

All tenders have been checked by the Engineering Services Department, and Delcan Corporation. Two (2) of the tender bids contained mathematical errors as noted above, which when corrected did not alter the bid ranking.

The consultant's estimate prior to tender opening was \$11,178,434.40 (excluding H.S.T.). The low tender is well below the internal estimate indicating a very competitive tendering process and environment. The tender amount is within the available funds in the City's Transportation, Wastewater and Water project budgets. All tenders include a contingency allowance of \$900,000.00 (excluding H.S.T.).

Consulting Services:

Delcan Corporation was appointed for the design of both stages of this project in 2003 using a competitive process that considered three consultants. Approximately fifty percent of the detailed design and contract preparation for Stage 2 was completed by Delcan in 2003. This included preparation of preliminary design plans and profiles for road widening, storm sewers, sanitary sewers and watermain. Delcan also provided the City's Realty Services Division with property acquisition plans and consulted with London Hydro, Bell, Union Gas and Rogers on utility relocation requirements. In 2009, Delcan designed and administered a contract for advance construction of the Stage 2 noise walls. More recently, Delcan has completed the detailed design and has been coordinating utility relocations.

In accordance with Section 15.2(g) of the Procurement of Goods and Services Policy, Civic Administration is recommending that Delcan Corporation be authorized to carry out the remainder of engineering services to complete this project for a fee estimate of \$673,651.00 (excluding H.S.T.). The value of this assignment is in the range of similar comparable projects and represents good value for the City. The continued use of Delcan on this project is of financial advantage to the City due to the fact that the firm has specific knowledge of the project and has undertaken work for which duplication would be required if another firm were to be selected.

CONCLUSION

Delcan Corporation and Civic Administration has reviewed the tender bids and recommend that J-AAR Excavating Limited be awarded the contract in the amount of \$7,932,359.34 (excluding H.S.T.) for the Oxford Street West Widening and Hyde Park Trunk Sanitary Sewer (Phase 1A). Award of this contract will allow the project objectives to be met within the available budget and schedule.




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Delcan Corporation has demonstrated an understanding of the City requirements for this project and it is recommended that this firm continue as the consulting engineer for the purpose of contract administration as it is to the best financial and technical interests of the City.

Anticipated additional annual operating costs to the Environmental and Engineering Services budget in 2014 and subsequent years associated with the additional road infrastructure is \$10,700 and new sewer infrastructure is \$2,900.

Acknowledgements:

This report was prepared with assistance from Max Kireev, Technologist II in the Transportation Planning and Design Division in consultation with Shawna Milanovic, P.Eng., Environmental Services Engineer.

PREPARED BY:	RECOMMENDED BY:
	
DOUG MACRAE, P. ENG. DIVISION MANAGER TRANSPORTATION PLANNING & DESIGN	EDWARD SOLDO, P. ENG. DIRECTOR, ROADS AND TRANSPORTATION
REVIEWED & CONCURRED BY:	
	
JOHN BRAAM, P. ENG. MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER	

- c: Pat Shack
 Marta Semeniuk
 John Lucas
 Delcan Corporation Ltd.
 J-AAR Excavating Limited, Bre-Ex Ltd., Coco Paving Inc, L82 Construction Ltd,
 Blue Con Construction, Drainstar Contracting Ltd.

Attachments: Appendix 'A' – Source of Financing
 Appendix 'B' – Project Map

APPENDIX 'A'

#13021

Chair and Members
Civic Works Committee

March 1, 2013
(Award Contract)

RE: 2013 Growth Management Implementation Strategy (GMIS)
Oxford Street West Widening and Hyde Park Trunk Sanitary Sewer (Phase 1A)
Capital Project TS1493 - Oxford Street Widening - Hyde Park to Sanitorium Rd
Capital Project ES2493 - Hyde Park Trunk Sanitary Sewer
Capital Project EW3685 - Oxford Street W. Feeder Watermain
J-AAR Excavating Limited - \$7,932,359.34 (excuding H.S.T.)
Delcan Corporation - \$673,651.00 (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>Approved Budget</u>	<u>Committed to Date</u>	<u>This Submission</u>	<u>Balance for Future Work</u>
ESTIMATED EXPENDITURES				
<u>TS1493-Oxford Street Widening</u>				
Engineering	\$1,310,501	\$505,476	\$412,803	\$392,222
Land Acquisition	1,000,000	873,098		126,902
Construction	9,700,000	1,325,181	5,574,731	2,800,088
Relocate Utilities	760,000	338,436		421,564
City Related Expenses	220,000	39,293		180,707
	<u>\$12,990,501</u>	<u>\$3,081,484</u>	<u>\$5,987,534</u>	<u>\$3,921,483</u>
<u>ES2493-Hyde Park Trunk Sanitary Sewer</u>				
Engineering	421,000	280,012	140,423	565
Construction	4,852,000		1,557,636	3,294,364
City Related Expenses	77,000			77,000
	<u>5,350,000</u>	<u>280,012</u>	<u>1,698,059</u>	<u>3,371,929</u>
<u>EW3685-Oxford St. W Feeder Watermain</u>				
Engineering	362,000		132,281	229,719
Construction	2,000,000		939,602	1,060,398
	<u>2,362,000</u>	<u>0</u>	<u>1,071,883</u>	<u>1,290,117</u>
NET ESTIMATED EXPENDITURES	<u>\$20,702,501</u>	<u>\$3,361,496</u>	<u>\$8,757,476</u> 1)	<u>\$8,583,529</u>
SOURCE OF FINANCING:				
<u>TS1493-Oxford Street Widening</u>				
Debenture By-Law No. W.-1841-85	2) \$3,483,001	\$826,205	\$1,605,372	\$1,051,424
Drawdown from City Services-Roads R.F. (Development Charges)	3) 9,507,500	2,255,279	4,382,162	2,870,058
	<u>12,990,501</u>	<u>3,081,484</u>	<u>5,987,534</u>	<u>3,921,483</u>
<u>ES2493-Hyde Park Trunk Sanitary Sewer</u>				
Drawdown fr. Industrial Oversizing Reserve Fund	46,000	2,408	14,600	28,992
Drawdown from Sewage Works Reserve Fund	749,000	39,202	237,728	472,070
Drawdown from City Services-Sewer R.F. (Development Charges)	3) 4,555,000	238,403	1,445,730	2,870,867
	<u>5,350,000</u>	<u>280,012</u>	<u>1,698,059</u>	<u>3,371,929</u>
<u>EW3685-Oxford St. W Feeder Watermain</u>				
Drawdown fr Water Reserve Fund	651,200		295,517	355,683
Drawdown from City Services-Water R.F. (Development Charges)	3) 1,710,800		776,367	934,433
	<u>2,362,000</u>	<u>0</u>	<u>1,071,883</u>	<u>1,290,117</u>
TOTAL FINANCING	<u>\$20,702,501</u>	<u>\$3,361,496</u>	<u>\$8,757,476</u>	<u>\$8,583,529</u>
Financial Note:				
	<u>TS1493</u>	<u>ES2493</u>	<u>EW3685</u>	<u>Total</u>
1) Contract Price - Construction	\$5,478,312	\$1,530,696	\$923,351	\$7,932,359
Add: HST @13%	712,181	198,990	120,036	1,031,207
Total Contract Price Including Taxes	6,190,493	1,729,686	1,043,387	8,963,566
Less: HST Rebate	615,762	172,050	103,785	891,597
Net Contract Price	<u>\$5,574,731</u>	<u>\$1,557,636</u>	<u>\$939,602</u>	<u>\$8,071,969</u>
Financial Note:				
	<u>TS1493</u>	<u>ES2493</u>	<u>EW3685</u>	<u>Total</u>
1) Contract Price - Engineering	\$405,664	\$137,994	\$129,993	\$673,651
Add: HST @13%	52,736	17,939	16,899	87,574
Total Contract Price Including Taxes	458,400	155,933	146,892	761,225
Less: HST Rebate	45,597	15,510	14,611	75,718
Net Contract Price	<u>\$412,803</u>	<u>\$140,423</u>	<u>\$132,281</u>	<u>\$685,507</u>
Total Construction & Engineering	<u>\$5,987,534</u>	<u>\$1,698,059</u>	<u>\$1,071,883</u>	<u>\$8,757,476</u>

Chair and Members
Civic Works Committee

March 1, 2013
(Award Contract)

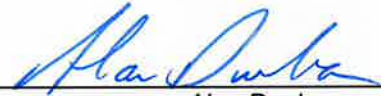
RE: 2013 Growth Management Implementation Strategy (GMIS)
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J-AAR Excavating Limited - \$7,932,359.34 (excluding H.S.T.)
Delcan Corporation - \$673,651.00 (excluding H.S.T.)

2) **NOTE TO CITY CLERK:**

The City be authorized to increase Debenture By-Law No. -1841-85 by \$2,730,701 from \$752,300 to \$3,483,001.

- 3) Development Charges have been utilized in accordance with the underlying legislation and the Development Charges Background Studies completed in 2009.
- 4) Anticipated additional annual operating costs to the Environmental and Engineering Services budget in 2014 and subsequent years associated with the additional road infrastructure is \$10,700 and new sewer infrastructure is \$2,900.

EH

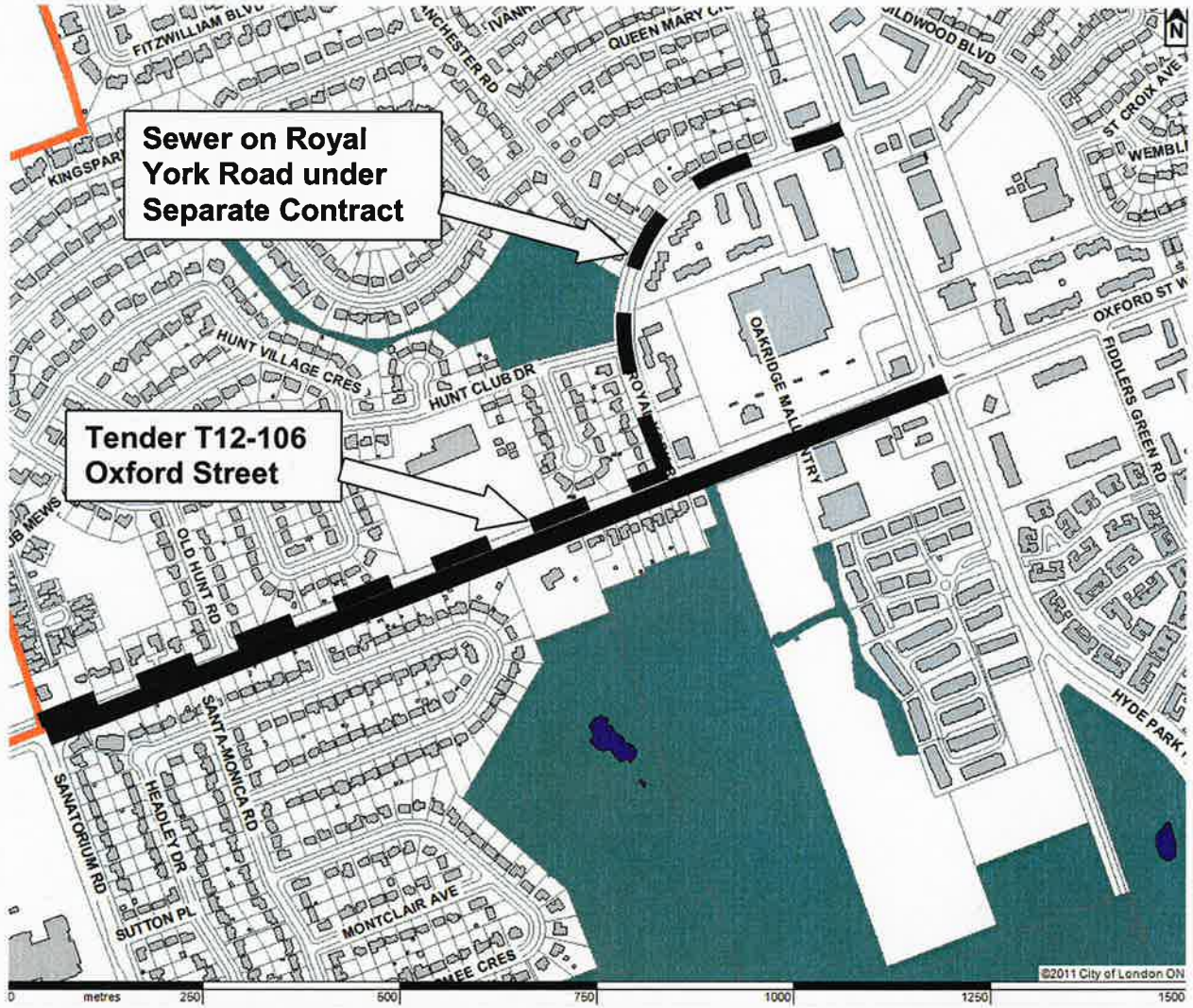


Alan Dunbar

Manager of Financial Planning & Policy

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Appendix 'B' Project Map



- - Road Widening
- - - - -** - Hyde Park Trunk Sanitary Sewer