

# CITY OF RICHMOND INVITATION TO TENDER

## **Contract T.1576**

### **Contract: Horseshoe Slough Drainage Upgrade and Watermain Replacement**

The City of Richmond invites tenders for construction work at the above-mentioned locations. Work under the Contract generally comprises:

3036 lineal metres of 525-1050 mm diameter storm sewers, and 4277 lineal metres of 150-200 mm diameter watermain.

The *Contract Documents* are available on or after May 6, 2005 during normal business hours at Front of House of the Richmond City Hall at:

6911 No. 3 Road, Richmond, BC, V6Y 2C1

on payment of a **non-refundable** amount of \$50.00 including GST payable to:

#### **City of Richmond**

The *Contract Documents* are available for viewing at:

Front of House, Richmond City Hall, 6911 No. 3 Road, Richmond and Vancouver Regional Construction Association, 3636 East 4th Avenue, Vancouver.

#### **Tenders are scheduled to close at:**

**Tender Closing Time:** 3:00 PM local time

**Tender Closing Date:** Thursday, May 26, 2005 and will be opened publicly immediately thereafter in the Council Chamber of Richmond City Hall

**Tender Submission Address:** Manager – Purchasing & Insurance  
Front of House, Richmond City Hall  
6911 No. 3 Road, Richmond, BC, V6Y 2C1

A valid tender consists of a submission delivered on time complete with the required Bid Bond, Undertaking of Surety and Undertaking of Liability Insurance.

The lowest or any tender will not necessarily be accepted.

Manager – Purchasing & Insurance

May 20, 2005  
File: 10-6340-20-P.04301/Vol 01

**Engineering**  
Telephone: (604) 276-4289  
Fax: (604) 276-4197

TO THOSE WHO HAVE RECEIVED COPIES OF T.1576

Dear Sir/Madam:

**Re: Contract T.1576  
Addendum No. 1  
Horseshoe Slough Drainage Upgrade and Watermain Replacement**

This addendum forms part of the Contract Documents and shall be read, interpreted and coordinated with all other parts. The costs of all work contained herein shall be included in the Contract Price. The following revisions supersede the information contained in the original Contract Document to the extent referenced and shall become part thereof.

Tenderers shall acknowledge receipt of this addendum by:

1. Inserting its number and date where provided for on the Form of Tender.

**2. CONTRACT DOCUMENTS**

2.1 The Contract is hereby extended.

Under **INSTRUCTIONS TO TENDERERS (IT) – PART I** section 3.1 (Page A-5), replace “Tender Closing Date: Thursday, May 26, 2005” with “**Tender Closing Date: Thursday, June 2, 2005**”

**3. FORM OF TENDER**

3.1 Section B – Appendix 1, Schedule of Quantities and Prices (Page B-11, B-12, B-13)

Replace the existing tables with the following tables:

#### 4. TENDER DRAWINGS

4.3 Add Drawing **Wc-1071 REVISION C “Storm Sewer Construction Sealord Road From Shell Road (East) to Seabrook Crescent (sheet 2 of 3)”**

#### 5. SUPPLEMENTARY GENERAL CONDITIONS

5.1 Supplementary General Conditions (SGC), Partial Award SGC 12 (Page D-6)  
Delete this paragraph, Watermain and Storm Sewer will be awarded together.

#### 6. MEASUREMENT OF AND PAYMENT FOR WORK

6.1 Section C – STORM SEWER ITEMS (Page D-15) Supply and Install storm sewer mains complete (either reinforced concrete pipe; non-reinforced concrete pipe; or PVC pipe) **Optional** alignment from STA. 4+72.50 to 8+32.97 Sealord Road, Lc-1071 Revision C (sheet 2 of 3) – Item C-17

Payment for this item will be made at the Lump Sum price tendered for reduction or increase to the total price paid. This lump sum price shall include all additional or reduced effort for removals, surface restoration, sawcutting, manhole tie-ins, service connection tie-ins, material supply and labour. Any added or subtracted manholes, storm sewer mains, storm sewer laterals, inspection chambers or other items that can be paid under separate unit prices shall be adjusted to the actual quantity installed under their own items and paid separately.

This optional item will be awarded if the Contract Administrator feels that the City and its residents in a combination of cost, disturbance, tree removal, and other factors are less impacted by this option.

6.2 Section G – **MISCELLANEOUS ITEMS** (Page D-18) Supply and Install Topsoil and Seeded Surface – Item G-6

Replace the existing paragraph with the following paragraph:

**Supply and Install Topsoil and Seeded Surface and Remove and Dispose of Existing Asphalt and Base Material– Item G-6**

Payment for this item will be made at the unit price tendered per square metre, for installation directly related to removal of illegal boulevard treatments as well as illegal driveway widths as directed by the Contract Administrator and Site Inspectors. The unit price tendered shall include the removal and disposal of asphalt and base material and the supply and installation of 200mm native backfill and 150mm seeded topsoil in its place. For more details with respect to boulevard treatments and driveway widths, refer to Boulevard Maintenance - Bylaw 7174 (2001) and Residential Lot (Vehicular) Access

Regulation - Bylaw 7222 (2001). These bylaws can be viewed on the City website at <http://www.richmond.ca/cityhall/bylaws/chapter.htm>

Measurement will be length times width of area actually constructed and of pavement removed and approved as determined by the Contract Administrator. Measurement will be after the impact (i.e. width) of the trenching through that area for new installation is completed (or otherwise agreed to by the Contract Administrator).

Yours truly,

Scott Groves, P.Eng.  
Project Engineer

SG:cjr

<b>T.1576 – Storm Sewer Construction - Horseshoe Slough</b>					
<b>SCHEDULE OF QUANTITIES AND PRICES</b>					
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>EST. QTYS.</b>	<b>UNIT PRICE (\$)</b>	<b>TOTAL AMT. (\$)</b>
C.	<b>STORM SEWER ITEMS</b>				
C-1	Supply and install storm sewer mains complete (either reinforced concrete pipe; non-reinforced concrete pipe; or PVC pipe):				
	(a) 525 mm dia. pipe	Lin. m	89		
	(b) 600 mm dia. pipe	Lin. m	357		
	(c) 675 mm dia. pipe	Lin. m	388		
	(d) 750 mm dia. pipe	Lin. m	692		
	(e) 900 mm dia. pipe	Lin. m	813		
	(f) 1050 mm dia. pipe	Lin. m	525		
	(g) 1050 mm dia. pipe railway crossing	Lin. m	20		
	(h) 675 mm dia. pipe ( <i>optional from STA. 9+21.51 to 10+92.24 Williams Road, Lc-1079</i> )	Lin. m	171		
C-2	Supply and install PVC storm sewer lateral pipe complete:				
	(a) 150 mm dia. pipe	Lin. m	242		
	(b) 150 mm dia. pipe ( <i>optional from STA. 9+21.51 to 10+92.24 Williams Road, Lc-1079</i> )	Lin. m	28		
C-3	Supply and install manholes:				
	(a) 1500 mm dia. sump manhole.	Each	20		
	(b) 1500 mm dia. manhole.	Each	4		
	(c) 1350 mm dia. sump manhole.	Each	16		
	(d) 1350 mm dia. manhole.	Each	5		
	(e) 1200 mm dia. sump manhole.	Each	6		
	(f) 1200 mm dia. manhole.	Each	6		
	(g) 2.4 m x 1.5 m cast-in-situ box with 600 sump.	Each	1		
	(h) 1350 mm dia. sump manhole ( <i>optional from STA. 9+21.51 to 10+92.24 Williams Road, Lc-1079</i> )	Each	3		
C-4	Supply and install inspection chambers and catch basins as per specifications, including all stubs and pipe connections:				
	(a) Type IA inspection chamber.	Each	15		
	(g) Prefabricated pan catch basin.	Each	2		
C-5	Connections of new storm sewer lateral to existing storm sewer system:				
	(a) New laterals to existing catch basins or inspection chambers.	Each	89		
	(b) New laterals to existing laterals.	Each	31		
C-6	Connect existing storm sewer pipe to new manhole.	Each	48		
C-10	Break into existing box culvert and connect new pipe as per Lc - 1073	Each	2		

<b>T.1576 – Storm Sewer Construction - Horseshoe Slough</b>					
<b>SCHEDULE OF QUANTITIES AND PRICES</b>					
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>EST. QTYS.</b>	<b>UNIT PRICE (\$)</b>	<b>TOTAL AMT. (\$)</b>
C-12	Supply and install concrete block headwall for  (a) 750 mm dia. storm main Type II (b) 675 mm dia. storm main S-15	Each Each	1 1		
C-16	Remove and dispose of existing manholes.  (a) <i>Remove and dispose of existing manholes (optional from STA. 9+21.51 to 10+15.26 Williams Road, Lc-1079)</i>	Each  Each	51  3		
C-17	Supply and install storm sewer mains complete (either reinforced concrete pipe; non-reinforced concrete pipe; or PVC pipe) (optional work):  <i>Optional alignment from STA. 4+72.50 to 8+32.97 Sealord Road, Lc-1071 (sheet 2 of 3 Revision C) (increase or reduction)</i>	LUMP SUM			
<b>TOTAL FOR STORM SEWER ITEMS – ITEM C</b> <b>(Carry forward to Tender Summary)</b>					\$

<b>T.1576 – Watermain Construction - Edgemere Subdivision Phase I &amp; Phase II</b>					
<b>SCHEDULE OF QUANTITIES AND PRICES</b>					
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>EST. QTYS.</b>	<b>UNIT PRICE (\$)</b>	<b>TOTAL AMT. (\$)</b>
F.	<b>WATERMAIN ITEMS</b>				
F-1	Supply and install PVC watermain including fittings complete.				
	a) 150mm dia. (phase I)	Lin. m	1787		
	b) 150mm dia. (phase II)	Lin. m	1717		
	c) 200mm dia. (phase I)	Lin. m	747		
	d) 200mm dia. (phase II)	Lin. m	174		
	<i>(e) 150 mm dia. (optional from STA. 0+85.00 to 2+74.85 Wilkinson Road, Wc-870 (sheet 2 of 3))</i>	<i>Lin. m</i>	<i>190</i>		
	<i>(f) 150 mm dia. (optional from STA. 1+00.00 to 5+30.00 Dennis Crescent, Wc-873 (sheet 2 of 3))</i>	<i>Lin. m</i>	<i>430</i>		
	<i>(g) 150 mm dia. (optional from STA. 0+86.50 to 2+39.78 Dennis Place, Wc-874 (sheet 2 of 3))</i>	<i>Lin. m</i>	<i>153</i>		
F-3	Supply and install complete 150 mm dia. fire hydrants (phase I).	Each	18		
	Supply and install complete 150 mm dia. fire hydrants (phase II).	Each	13		
	<i>Optional Supply and install complete 150 mm dia. fire hydrants (within optional zone in Item F-1).</i>	<i>Each</i>	<i>5</i>		
F-4	Supply and install complete service connections as per drawings complete with fittings and valves:				
	(a) To property line (phase I)	Each	181		
	(b) To property line (phase II)	Each	131		
	<i>(c) Optional To property line (within optional zone in Item F-1).</i>	<i>Each</i>	<i>48</i>		
F-5	Pressure testing, cleaning, flushing, and disinfecting watermain system.	LUMP SUM			

May 31, 2005  
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TO THOSE WHO HAVE RECEIVED COPIES OF T.1576

Dear Sir/Madam:

**Re: Contract T.1576  
Addendum No. 2  
Horseshoe Slough Drainage Upgrade and Watermain Replacement**

This addendum forms part of the Contract Documents and shall be read, interpreted and coordinated with all other parts. The costs of all work contained herein shall be included in the Contract Price. The following revisions supersede the information contained in the original Contract Document to the extent referenced and shall become part thereof.

Tenderers shall acknowledge receipt of this addendum by:

1. Inserting its number and date where provided for on the Form of Tender.
2. **FORM OF TENDER**
  - 2.1 Section B – Appendix 1, Schedule of Quantities and Prices (Page B-10)  
Add the following “Estimated Quantity” to Item No. B-13: **90**
  - 2.2 Section B – Appendix 1, Schedule of Quantities and Prices (Page B-13)  
Add to the bottom of section “F” a line for **“Total for Watermain Items – Item F (carry forward to Tender Summary)”**



**3. MEASUREMENT OF AND PAYMENT FOR WORK**

- 3.1 Section C – **STORM SEWER ITEMS** (Page D-15) Supply and Install storm sewer mains complete (either reinforced concrete pipe; non-reinforced concrete pipe; or PVC pipe) Item C-1 (g) Add the following paragraph:

For the section of 1050mm diameter pipe installed under the railway, the Contractor shall be responsible for all effort to install the pipe using the open cut method. The contractor is also responsible for coordination with the rail company for any necessary inspection and notice. The Contractor will not be responsible for any direct charges levied by the rail company for inspection, rail traffic control, etc. related to the permit issued by the rail company. The Contractor will not be responsible for any costs for removal of the ties or rails, or the final installation of the ballast, ties or rails as those functions will be done by the rail company and charged directly to the City.

- 3.2 Section G – **MISCELLANEOUS ITEMS** (Page D-19) Supply and Plant Trees – Item G-9 (b) Pruning and removals

Add the following paragraph:

The Contractor shall be responsible for all pruning and removals of trees, shrubs and plants that are in direct conflict with the construction. The Contractor shall hire a licensed arborist to ensure that all removals and pruning are done in such a way as to protect the remaining trees from subsequent damage. The Contractor's arborist, the Contractor, the Contract Administrator and a representative from the City Parks section shall review all plans prior to any removals or pruning.

Any trees, shrubs or plants that are not City street trees that can be salvaged shall be deposited in the homeowners yard if they request, given to the City if requested or disposed offsite. Any City street tree that is salvageable will be removed by City forces prior to construction. Any pruning or removal material shall be disposed of offsite if the above does not apply.

Payment for this work shall be at the Lump Sum price quoted.

Yours truly,

Scott Groves, P.Eng.  
Project Engineer

SG:cjr