

CITY OF RICHMOND INVITATION TO TENDER

Contract T.3550

Contract: **Blundell Road Sanitary Forcemain No.1 Road to Frobisher Drive**

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

- supply & installation of approximately 250 lineal metres of 500mm dia. sanitary forcemain;
- complete live forcemain connections
- supply & install pigging chamber (Optional);
- CCTV (Optional).

The *Contract Documents* are available on or after April 23, 2009 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 14, 2009 and will be opened publicly immediately thereafter at Richmond City Hall.

Tender Submission Address: Manager – Purchasing & Risk
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 & Risk



May 11, 2009

City of Richmond
Business & Financial Services Department
Telephone: 604-276-4219
Fax: 604-276-4222

To Those Parties Receiving Contract T.3550

Re: Tender T.3550
Blundell Road Sanitary Forcemain No. 1 Road to Frobisher Drive - Addendum No. 1

Dear Sir or Madame,

This addendum forms part of the Contract Documents and shall be read, interpreted and coordinated with all other parts.

Please be advised that the Tender Closing Date has been extended to:

Thursday, May 21, 2009

Yours truly,

Sumita Dosanjh
Buyer II - Contracting Specialist



City of Richmond

6911 No.3 Road, Richmond, BC V6Y 2C1
Telephone (604) 276-4000
www.city.richmond.bc.ca

May 19, 2009
File: 10-6340-20-P.08607/Vol 01

Engineering
Telephone: 604-276-4289
Fax: 604-276-4197

TO THOSE WHO HAVE RECEIVED COPIES OF T.3550

Dear Sir/Madam:

**Re: Contract T.3550
Addendum No. 2
Blundell Road Sanitary Forcemain: No.1 Road to Frobisher Drive**

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

1. Please be advised that the Tender Closing Date has been extended to:

May 27th, 2009 3:00pm P.S.T.

2. **CONTRACT DRAWINGS**

- 2.1. All manhole frame and covers shall be C-22

- 2.2. Drawing GEN-08-86, sheet 1 of 5 "Sanitary Forcemain Notes" note 3 is revised as follows:

- Note 3: All steel fittings and flanges as shown on drawings to be polyurethane lined, coated c/w stainless steel nuts/bolts in accordance with City of Richmond and AWWA standards.

- All ductile and cast fittings to be supplied and installed per City and MMCD specifications.

- 2.3. Drawing GEN-08-86, sheet 1 of 5 "Sanitary Forcemain Notes" note 4 is revised as follows:

- Note 4: Protect all metal surfaces, except polyurethane coated metal, with petroleum primer, mastic and tape: Tec-Tape or denso in accordance with AWWA C217.

- 2.4. Drawing GEN-08-86, the detail on sheet 2 of 5 "Typical Forcemain Trench Section" is revised as follows:

- Replace - 40 (TYP) with 50mm (TYP), Refer to SSP21

2.5. Drawing GEN-08-86, sheet 4 of 5 Step 3 notes is revised as follows:

Replace:

WET TAP 2-300dia GATE VALVES ON TOP FOR AIR PLUG AND...

With:

WET TAP 2-150dia GATE VALVES ON TOP FOR AIR PLUG AND....

3. MEASUREMENT OF AND PAYMENT OF WORK

SECTION C – OPTIONAL ITEMS (page D-35)

Add the following:

Item C-3

Cathodic Protection

This item includes all the *Contractor's* costs for labour, material and equipment associated to supply, install and connect the Cathodic protection.

Should the owner elect to include the *Optional Work*, payment for this item will be at the tendered lump sum price in the *Schedule of Quantities and Prices*.

A revised Schedule of Quantities and Prices form is attached to this addendum

4. FORM OF TENDER

An electronic copy of the Schedule of Quantities and Prices (page B-9 to B-11) can be provided upon request in excel format. Please note that the City is not responsible for formulas or values entered.

Forward requests via email to Mile Racic (mracic@richmond.ca)

5. QUESTIONS RECEIVED FROM CONTRACTORS & SUBSEQUENT ANSWERS

1. Q The chainages on the profile drawings do not correspond with the chainages on the detail drawings for the 450mm tie in near Frobisher Dr..
A: The 450mm tie-in near Frobisher Dr. should be at Sta 3+45.53
2. Q: It is understood that we would only be responsible to mill and overlay 2 lanes and not the full road.
A: Final mill & overlay limits will include any lane affect by works in accordance with bylaw 7869.
3. Q Who is responsible for line painting?
A: The Contractor will be responsible for temporary line taping to ensure safety of the site. Permanent line painting will be the City's responsibility.
4. Q: What does SO mean on the blind flanges for the pigging chambers?
A: SO- Slip on Flange it is the flange on the pipe that the blind flange attaches to.

5. Q: Please clarify the number of anodes required for this project.
A: 3- 14 kg on the pigging detail, 3 -14 kg per each tie-in at the ends (all valves and metal joined together by bonding wires) one 14 kg per metal fitting after that, and one smaller (5kg +/-) per the smaller valves and each set of HDPE flanges. (+/- 12 of the 14 kg and 12-15 of the smaller 5 kg anodes) If the contractor uses more steel fittings instead of HDPE than more anodes are required, the same with HDPE flanges.
6. Q: Is the tapping for the 300mm and 150mm at manhole 4 on 400mm or 450mm FRP?
A: The tapping for the 300mm and 150mm near MH4 is on the 400mm main.
7. Q: The No 1 Road tie in shows the 100mm bleed valve on the increaser. We need to know where to place the valve; on the 400mm side or the 450mm side of the existing FRP.
A: Location depends on spacing required for the plugs. It should be checked in the field when the equipment is known however, we had assumed it would be just on the 450 side. The existing FRP needs to be reinforced for the wet tap and the final pipe OD will depend on the FRP wrapping.
8. Q: Are the 500x500x300 tees typical water fittings(plus coating) or HDPE?
A: Either is fine as long as the pressure rating matches the pressure rating of the pipe.
9. Q: I have been told that fibreglass will not adhere to HDPE, yet there are sleeves that are noted to constructed this way. Is this correct? What are the sleeve sizes for each location?
A: Use fibreglass pipe for details showing pipe to be inserted or fit over existing FRP pipe. Fibreglass around to bond the two sections of pipe. Fibreglass pipe to match pressure rating specified. The sleeve sizes to be confirmed in the field prior to installation.
10. Q: Drawing No. GEN-08-86, sheet 2 of 5, the detail drawing of the pig chambers shows a "Wrapper to AWWA M11" installed around the wye fittings. We require clarification on the "wrapper". Please advise as to the type of material comprising this "wrapper".
A: Steel wyes generally need extra steel reinforcement around the branch based on size and pressure. This extra reinforcement can either be a wrapper or crotch plates based on the pressure and is laid out in the AWWA M11 which is a steel pipe design standard.

Yours truly,



Mile Racic

Engineering & Public Works

City of Richmond Contract T.3550 Blundell Road Sanitary Forcemain – No.1 Road to Frobisher Drive	B-11 R-1
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SCHEDULE OF QUANTITIES AND PRICES					
ITEM NO.	DESCRIPTION	UNIT	EST. QTYS	UNIT PRICE (\$)	TOTAL AMOUNT (\$)
B	ROAD ITEMS				
B-1	Supply & Install Final Asphalt Overlay (Per Bylaw 7869)		Lump Sum		
TOTAL FOR ROAD ITEMS – ITEM B (Carry forward to Tender Summary)					\$

SCHEDULE OF QUANTITIES AND PRICES					
ITEM NO.	DESCRIPTION	UNIT	EST. QTYS	UNIT PRICE (\$)	TOTAL AMOUNT (\$)
C	OPTIONAL ITEMS				
C-1	Supply and install sanitary pigging chamber (including fittings, valves and chambers)		Lump Sum		
C-2	CCTV inspect existing Forcemain		Lump Sum		
C-3	Cathodic Protection		Lump Sum		
TOTAL FOR OPTIONAL ITEMS – ITEM C (Carry forward to Tender Summary)					\$