



CITY OF RICHMOND INVITATION TO TENDER

Contract T.3986

Contract: Bonavista Area Watermain Replacement and Drainage Upgrades

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

Supply and installation of the following:

- 200mm diameter watermain - approximately 3700m
- Fire hydrant - Thirty-One (31)
- Service connections 25mm - 404
- 1050m diameter storm sewer - 87m
- 900m diameter storm sewer - 187m
- Manholes - Five (5)

The *Contract Documents* are available on or after Tuesday, August 17, 2010 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**

Tenderers are responsible for arranging their own Couriers for picking up copies of the documents. All Couriers must come with the required cheque/cash and be prepared to complete the Tender Document form with Company Name, Contact information, Telephone Number, Fax and E-mail address. The *Contract Documents* are available for viewing at:

Front of House, Richmond City Hall, 6911 No. 3 Road, Richmond

Tenders are scheduled to close at:

Tender Closing Time: 3:00 PM local time
Tender Closing Date: Thursday, September 9, 2010 and will be opened publicly immediately thereafter in Richmond City Hall

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

A 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



City of Richmond

August 24, 2010
File: 10-6340-20-P.10401/Vol 01

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

TO THOSE WHO HAVE RECEIVED COPIES OF T.3986

Dear Sir/Madam:

**Re: Contract T.3986
Addendum No. 1
Bonavista Area Watermain Replacement and Drainage Upgrades**

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) QUESTIONS RECEIVED FROM CONTRACTOR & SUBSEQUENT ANSWERS

1. Q: *Is the use of 6" or 8" HDPE DR11 Blue Striped for potable water an acceptable alternative to the PVC?*
A: HDPE pipe is not an acceptable alternative to the specified 6" and 8" pipe.
2. Q: *Can installation be by HDD methods instead of open cut?*
A: Any alternate installation methods to meet the requirements stated in the Instruction to Tenderers – Part II, Section 6 “Qualifications, Modifications, Alternative Tenders”.
3. Q: *What is the type of the watermain pipe and how is it gonna be placed in?*
A: The pipe information is shown on the engineering drawings and in the Contract documents. It is expected that mainline pipe installation is by open cut excavation.
4. Q: *Are the sizes of the storm sewers really 1,050m and 900m?*
A: Storm sewer diameter noted on the Invitation to Tender should read 1,050mm and 900mm.

2) FORM OF TENDER

Page B-12, Appendix 2.

Revise – “Notice of Award will be per section 4.8 in Instruction...” to “Notice of Award will be per section 4.9 in Instruction...”

3) GENERAL INFORMATION

The resident at 4331 Hermitage Dr. is on Dialysis and cannot be without water. Should there be a disruption to their water service the Contractor shall immediately contact the City Water Operations staff.

Sincerely,

A handwritten signature in black ink, appearing to read 'M. Racic', enclosed within a large, loopy circular scribble.

Mile Racic
Engineering & Public Works



City of Richmond

September 3, 2010
File: 10-6340-20-P.10401/Vol 01

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

TO THOSE WHO HAVE RECEIVED COPIES OF T.3986

Dear Sir/Madam:

**Re: Contract T.3986
Addendum No. 2
Bonavista Area Watermain Replacement and Drainage Upgrades**

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) FORM OF TENDER – APPENDIX 1 – SCHEDULE OF QUANTITIES AND PRICES

Delete pages B-9 and B-10 and replace with B-9 Revision 1 and B-10 Revision 1 attached.

2) MEASUREMENT AND PAYMENT OF WORK

Insert new clause on Page D-21 following Item W1:

**Item W1A - Supply and Install Vertical Offsets to Avoid Utilities with Unknown Elevations
(Provisional)**

Payment for this item will be made at the unit prices tendered for the supply and installation of offsets not shown on the drawings that are required to avoid existing utilities with unknown elevations.

Each offset shall include all items required to both deviate from and return to the original profile. No additional payment will be made for length of pipe beyond that measured in Item W1.

3) QUESTIONS RECEIVED FROM CONTRACTOR & SUBSEQUENT ANSWERS

1. Q: In the contract it says we have to provide corrosion protection for the watermain, what exactly do we have to do? Do we provide anodes?
A: *Anodes are not required. Refer to City of Richmond Supplementary Specifications 2.2.4.12.3(ss), 2.2.4.13.1(ss), 3.14.1(ss). Corrosion protection measures consist of the installation of Denso tape on the applicable items.*
2. Q: You have two (2) boxed notes and general note #18 on all pipe drawings – “contractor to expose ex u/g utilities Prior to construction”, “contractor to confirm location of all utilities prior to construction”. Is it the intent that ALL existing utilities be proved out (by excavating and exposing) well in advance of construction?
A: *The intent is to have the Contractor prove out the utilities far enough in advance so that any adjustments to the alignment can be done without having to remove any pipe previously installed. The City recommends that locates be completed a minimum of one full day’s production or 50m (whichever is greater) ahead of the leading edge of the active trench. The City will not consider any extras for re-installation of pipe due to insufficient exposure of existing utilities.*
3. Q: General note #19 – please confirm that all short side water services are to be installed using only trenchless technology
A: *Yes, all short side water services are to be installed using trenchless technology.*
4. Q: General note #24 – “contractor to allow for possible vertical offsets on propose watermain crossing ex utilities” I count 91- 150mm storm sewer elev. unknown only and not including any other utilities. Should there be a separate unit price item in the tender form to cover this?
A: *See Item 1 above.*
5. Q: At the watermain tie-in locations – are all tie-in fittings supplied under this contract.
A: *All fittings are to be provided by the Contractor except those specifically listed on the Drawings as being provided by the City.*
6. Q: Is the contractor responsible for the restoration of City crews at the service tie-in locations and at the hydrant removal and existing w/m abandoned locations
A: *The City will restore areas disturbed by City crews.*
7. Q: Does the existing water service have tracer wire materials.
A: *Tracer wire will be present at services installed within the past 3 years. No tracer wire is expected to be present in the majority of this neighbourhood.*
8. Q: Do all short side service connections also have to be constructed using trenchless technology.
A: *Yes. (See Item 2.3)*
9. Q: Where is the 345m of non-grant funded watermain, item’s B-W1 to B-W6?
A: *Refer to page A-3, Instructions to Tenderers Clause 1.1 – Truro Dr. is non-grant funded.*

10. Q: There are no gate valves in the restraint table, why would we not restrain the hub side of the gate valve but restrain all other fittings?
A: *All gate valves on this project are located adjacent to tees or crosses, which have a minimum restrained length of 11m per the Joint Restraint Table. All valves are to be restrained.*
11. Q: Can you please advise which of the roadways in this tender will require restoration as per Bylaw 7869 (Roadway Restoration Regulation Bylaw)? ie Which roadways are arterial, collector, bus routes?
A: *Roadway Restoration Regulation Bylaw 7869 applies to Steveston Highway and Williams Road, as defined by a straight line from face of curb to face of curb across the intersections with the residential roads. Should the Contractor encroach across this line into Steveston Highway or Williams Road, the requirements of Bylaw 7869 will apply.*

Sincerely,

A handwritten signature in black ink, appearing to be 'Milton Chan', with a large, stylized flourish at the end.

Milton Chan
Engineering & Public Works

T.3986 – Bonavista Area Watermain Replacement and Drainage Upgrades
SCHEDULE OF QUANTITIES AND PRICES

ITEM NO.	DESCRIPTION	UNIT	EST. QTYS.	UNIT PRICE (\$)	TOTAL AMT. (\$)
A	Watermain Grant Funded Roads				
A-W1	Supply and install 200mm dia. AWWA C900 PVC watermain Class 150 (DR18) (including fittings) as follows:	Lin.m	3350		
A-W1A	Supply and install vertical offsets to avoid utilities with unknown elevations . (Provisional)	Each	25		
A-W2	Supply and install complete fire hydrant (including fittings, valves and accessories)	Each	28		
A-W3	Supply and install complete service connections as per drawings (including fittings and valves)				
	a) 25mm dia.	Each	353		
	b) 100mm dia.	Each	1		
A-W4	Supply and install complete blow-off system (including fittings, valves and accessories)	Each	1		
A-W5	Pressure testing, cleaning, flushing, and disinfecting watermain system.	Lump Sum			
A-W6	Supply and install final asphalt overlay.	Lump Sum			
TOTAL FOR WATERMAIN -ITEM A (Excluding HST) (Carry forward to Tender Summary)					



City of Richmond

September 8, 2010
File: 10-6340-20-P.10401/Vol 01

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

TO THOSE WHO HAVE RECEIVED COPIES OF T.3986

Dear Sir/Madam:

**Re: Contract T.3986
Addendum No. 3
Bonavista Area Watermain Replacement and Drainage Upgrades**

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:

Thursday September 16th, 2010 3:00 P.S.T.

2) FORM OF TENDER – APPENDIX 1 – SCHEDULE OF QUANTITIES AND PRICES

Delete pages B-11 and replace with B-11 Revision 1 attached.

3) QUESTIONS RECEIVED FROM CONTRACTOR & SUBSEQUENT ANSWERS

1. Q: Does the 1050mm dia. storm have to be IPEX RING-TITE PVC SDR 35?
A: *The 1050mm dia. storm must be PVC SDR 35 and compliant with MMCD*

2. Q: Detail W3a-SD of the supplemental specifications shows a 20mm dia. stainless steel extension rod, is this required?
A: *The 20mm dia stainless steel extension rod is only required if the valve nut has more than 1 meter cover.*

Sincerely,

Mile Racic
Engineering & Public Works

SCHEDULE OF QUANTITIES AND PRICES					
ITEM NO.	DESCRIPTION	UNIT	EST. QTYS	UNIT PRICE (\$)	TOTAL AMOUNT (\$)
C	St. Albans Drainage				
C-1	Supply and install storm sewer mains complete.				
	(a) 1050mm dia. pipe (PVC SDR 35)	Lin. m.	87		
	(b) 900mm dia pipe	Lin. m.	123		
	(c) 750mm dia pipe	Lin. m.	64		
C-2	Supply and install manholes:				
	(a) 1800mm x 1500 Box Manhole	Each	1		
	(b) 1500mm dia. sump manhole	Each	3		
	(c) 1350mm dia. sump manhole	Each	1		
C-3	Connect new storm sewer main to existing manholes				
	(a) Ex MH 1			Lump Sum	
	(b) Ex MH-2 (including 4.8m lead)			Lump Sum	
	(c) Ex MH-3 (including 4.5m lead)			Lump Sum	
	(d) Ex MH-4 (including 4.5m lead)			Lump Sum	
	(e) Ex MH-5 (including 4.5m lead)			Lump Sum	
C-4	Re-connect existing storm laterals (150mm & 200mm)	Each	15		
C-5	CCTV inspection for storm sewer pipe & laterals			Lump Sum	
C-6	Supply and install final asphalt overlay.			Lump Sum	
TOTAL FOR DRAINAGE – ITEM C (Excluding HST) (Carry forward to Tender Summary)					\$

T.3986 – Bonavista Area Watermain Replacement and Drainage Upgrades
SCHEDULE OF QUANTITIES AND PRICES

ITEM NO.	DESCRIPTION	UNIT	EST. QTYS.	UNIT PRICE (\$)	TOTAL AMT. (\$)
B	Watermain Non-Grant Funded Roads				
B-W1	Supply and install 200mm dia. AWWA C900 PVC watermain Class 150 (DR18) (including fittings) as follows:	Lin.m	345		
B-W1A	Supply and install vertical offsets to avoid utilities with unknown elevations. (Provisional)	Each	5		
B-W2	Supply and install complete fire hydrant (including fittings, valves and accessories)	Each	3		
B-W3	Supply and install complete service connections as per drawings (including fittings and valves)				
	(a) 25mm dia.	Each	51		
B-W5	Pressure testing, cleaning, flushing, and disinfecting watermain system.	Lump Sum			
B-W6	Supply and install final asphalt overlay.	Lump Sum			
TOTAL FOR WATERMAIN -ITEM B (Excluding HST) (Carry forward to Tender Summary)					



City of Richmond

September 14, 2010
File: 10-6340-20-P.10401/Vol 01

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

TO THOSE WHO HAVE RECEIVED COPIES OF T.3986

Dear Sir/Madam:

**Re: Contract T.3986
Addendum No. 4
Bonavista Area Watermain Replacement and Drainage Upgrades**

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) QUESTIONS RECEIVED FROM CONTRACTOR & SUBSEQUENT ANSWERS

1. Q: New Item A-W1A and B-W1A are for the supply and installation of vertical offsets to avoid utilities with unknown elevations (provisional), that are not shown on the drawings. Therefore, I'm confirming that all offsets presently shown on the drawings with unknown elevations, are to be included in our unit prices A-W1 and B-W1.
A: *Items A-W1 and B-W1 are to include for the offsets shown on the profile drawings. Offsets may change from up to down (or vice versa) depending on the field conditions. Items A-W1A and B-W1A will be applied to the total number of offsets installed over and above that shown on the drawings for each pay item. No credit will be applied should the total number of offsets installed be fewer than that shown on the drawings. For payment purposes, the offsets for Items A and B will be tallied separately.*
2. Q: Notes 2 and 3 on the drawings reference Cobra Lock pipe. Are other restraints acceptable?
A: *The intent of these notes is that a joint restraint system be used that provides the anti-corrosive properties required by MMCD and the City of Richmond Supplemental Specifications. Systems other than Cobra Lock that satisfy these requirements are acceptable. Restrained joint locations are as per the Joint Restraint Tables shown on the drawings.*

3. Q: Are flanged PVC fittings acceptable?
A: *Fabricated/composite PVC fittings are not acceptable. Injection molded PVC flanged fittings are acceptable (C900, Class 150), as are ductile iron (C110 mortar lined) with corrosion protection. Alternatively, where flanged arrangements are shown on drawings these may be substituted with hub/spool piece/hub and joint restraint arrangement.*
4. Q: What pressure will the water system be tested to?
A: *1035kPa (150psi) – refer to City of Richmond Supplementary Specifications and Detail Drawings page 12 – 02666-3.19.2(s) Testing Procedure.*

Sincerely,

A handwritten signature in black ink, appearing to be 'Milton Chan', written in a cursive style.

FOR:
Milton Chan
Engineering & Public Works