



City of Richmond

May 17, 2013
File: 02-0775-50-4731/Vol 01

Finance and Corporate Services Department
Finance Division
Telephone: 604-276-4218
Fax: 604-276-4162

Attention: To All Tenderers

Dear Sir/Madame:

Re: Contract T.4731 – Montrose Sanitary Pump Station Upgrade – Addendum Two

This Addendum includes items of clarification, forms part of the Contract Documents and shall be read, interpreted and coordinated with all other parts. Please review and consider the following information in the preparation of your Tenders:

I. Questions and Answers:

Question 1

With regards to the hydro service from the pole, I assume BC Hydro needs to create a drawing?

Answer 1

BC Hydro has created a drawing for the hydro service works. Please refer to the attached Drawing 411-U07-05014.

Question 2

I would assume that the City would pick up the hydro charges for the service connection?

Answer 2

Yes

Question 3

Is a Telus connection required?

Answer 3

No

Question 4

Do you have a BC Hydro contact for this job?

Answer 4

The contact at BC Hydro is Rex Yip, Design Technician at 604-543-6053

Question 5

Who is supplying the 2 steel pipes (200mm) coming out of the wet well to the valve chamber and the 250mm going into the kiosk?

Answer 5

The Contractor is supplying 2 steel pipes (200mm) coming out of the wet well to the valve chamber and the 250mm going into the kiosk.

Question 6

Who is providing the generator?

Answer 6

The City will be providing the generator. The contractor shall be responsible for installation of the generator.

Question 7

Who is providing the float sensor and XPS 15 multi-ranger level sensor?

Answer 7

The City will be providing the float sensor and XPS 15 multi-ranger level sensor.

Question 8

Is there a cable schedule detailing what cables are required for each device?

Answer 8

Please refer to Section **16122 – Wires and Cables** in the Contract Documents.

CLARIFICATION

1. Please remove section **01005 – GENERAL INSTRUCTIONS** from the *Contract* and replace with the following:

01005 – GENERAL INSTRUCTIONS

1.0 GENERAL

The installation of the new Montrose Sanitary pump station, forcemain extension and gravity sewers modification is intended to replace the existing Montrose pump station. The following is a Summary of Work.

1.1 Summary of Work:

.1 General:

The work of this contract consists of the installation of the following items pre-purchased by the City of Richmond:

- .1 FRP wet well c/w ladder and internal piping;
- .2 Electrical kiosk
- .3 Pumps
- .4 Electrical items included in the electrical kiosk supply contract: scada RTU c/w CPU, input module, mounting rack, radio, battery charger cabinet. These items will be installed by others.
 - .5 Coaxial antenna cable
 - .6 Sanitary flow meter for the valve chamber
 - .7 Hatch for the wet well
 - .8 Outdoor standby generator

The work also consists of the supply and installation of the following items:

- .1 The discharge forcemain c/w external valve chamber.

- .2 Air valve assembly and cleanout manhole for the forcemain.
- .3 Forcemain tie-in at the No. 3 Road crossing north of Ryan Road.
- .4 Temporary bypass pumping during construction of the new pump station.
- .5 Gravity piping connecting to the new station.
- .6 Road, curb and sidewalk replacement along No. 3 Road
- .7 Storm sewer upgrades near the new Montrose Sanitary pump station
- .8 Pavement, curbs, and catch basins to improve access to the new pump station.
- .9 Water service
- .10 Concrete pole base complete with a helical pile support
- .11 Galvanized steel pole for antenna

The work also includes the relocation of the existing antenna pole and antenna; installation of all ladder supports, pump guide rail holder and all other miscellaneous work including the electrical connection of all the above items to the new kiosk and the connection of the kiosk to BC Hydro service to provide a working sanitary sewage pumping station as detailed on the drawings.

.2 FRP Wet Well:

- .1 Contractor to provide all temporary materials, possibly including sheet piles or a caisson, required to install the wet well.
- .2 Contractor to supply and install the cast-in-place concrete foundation for the owner supplied FRP wet well.
- .3 Contractor to supply and install the air vent pipe from the kiosk to the wet well.
- .4 Contractor to supply and install the drain line from the valve chamber to the wet well.
- .5 Contractor to supply and install the cast-in-place concrete top for the wet well c/w the Owner supplied hatch.
- .6 Contractor to install the ladder brackets and pump guide rails and brackets supplied by the wet well fabricator.

.3 External Valve Chamber:

- .1 Contractor to supply and install the precast concrete valve chamber with the Owner supplied flow meter.
- .2 Contractor to supply and install granular base wrapped in a geotextile to provide a working surface for chamber installation.
- .3 Contractor to install the Owner supplied flow meter and supply and install all other materials required, including pipes, valves, air valves, fittings and all appurtenances.
- .4 Contractor to supply and install access hatch complete with concrete collar.
- .5 Contractor to provide shop drawings for review and approval prior to fabrication.

- .4 New Forcemain
 - .1 Contractor to supply and install the new forcemain as detailed on the drawings including the connection to the existing forcemain. Connection to the existing forcemain to be coordinated with the City of Richmond.
 - .2 Contractor to supply and install clean out and air valve assembly
 - .3 Contractor to connect the new forcemain to existing 300 diameter PVC forcemain under No. 3 Road, north of Ryan Road.
- .5 Electrical:
 - .1 Install the new Owner supplied electrical kiosk.
 - .2 Co-ordinate with Richmond Operations for the installation of the new Owner supplied RTU and radio components in kiosk.
 - .3 Supply and install new conduit from existing BC Hydro pole to electrical kiosk and between the kiosk and the antenna as shown.
 - .4 Supply and install the new electrical conduits between the kiosk and the outdoor standby generator
 - .5 Supply and install the new electrical conduits between the kiosk and the flow meter chamber.
 - .6 Supply and install conduit between the kiosk and the water meter chamber.
 - .7 Replace the antenna pole and re-connect the antenna.
 - .8 Supply and install wires and cables, and test all electrical equipment.
- .6 Outdoor Standby Generator:
 - .1 Install the new Owner supplied outdoor standby generator.
- .7 Gravity Piping and Manholes
 - .1 Supply and install new gravity piping and connect to the existing upstream manhole to redirect the existing sewage flows into the new station.
- .8 Water Service:
 - .1 Supply and install a new water service c/w water pressure transducer.
- .9 Remove Existing Station
 - .1 Remove the existing pump station components including: kiosk and pad; bollards.
 - .2 Remove the existing wet well including the concrete foundation.
- .10 Miscellaneous:
 - .1 Contractor to supply and install the cast-in-place concrete pad for the kiosk, the outdoor standby generator and the pad around the wet well and kiosk.
- .11 Surface Restoration:
 - .1 The complete restoration of all surfaces disturbed or damaged during construction including the supply, placement and compaction of subgrade and base course granular materials, hot mix asphaltic concrete, sidewalks and curbs, topsoil and sod and all other landscaping features.

- .12 Testing and Commissioning:
- .1 Testing and commissioning of all civil, mechanical and electrical equipment including the Owner supplied pumps.
 - .2 Operation of the pump station to demonstrate proper and satisfactory performance of all installed equipment as determined by the Engineer.
- .14 Existing Station Sewage Flows:
- .1 The peak wet weather flow for the Montrose Sanitary Pump Station is approximately 40 l/sec.
- .15 Owner Supplied Items:
- .1 Owner supplied items are to be picked up by the Contractor at the Richmond Works Yard at 5599 Lynas Lane. The cost associated with the pick-up and site delivery of the Owner supplied items is to be paid by the Contractor. The contacts at the Richmond Works Yard are as follows:

Dermott Pitts – Roads & Construction Services, phone: 604-244-1269
Arnie Holldarson – Sewerage and Drainage, phone: 604-244-1258

END OF SECTION

2. In the **INSTRUCTIONS TO TENDERERS (IT) – PART I**, under **Introduction 1.1** please remove the following:

The principal types of work to be carried out:

- *New pump station installation to replace existing;*
- *bypass construction; Decommissioning of existing pump station;*
- *Installation of new kiosk;*
- *Sanitary forcemain work and appurtenances;*
- *Sanitary gravity main work and appurtenances;*
- *Curb, sidewalk and pavement upgrades; and*
- *Surface restoration.*

The following items of materials will be supplied at no cost to the Contractor from the Owner's Works Yard at 5599 Lynas Lane, Richmond, B.C.:

- *Supply of fibreglass tank for pump station c/w internal valves, and piping;*
- *Supply of electrical kiosk for pump station;*
- *Supply of pumps for sanitary pump station;*
- *Supply of the pump station hatch;*
- *Supply of flow meter;*
- *Supply and installation of RTU and related components; and*
- *Supply of new antenna cable.*

And replace with the following:

The principal types of work to be carried out:

- *New pump station installation to replace existing;*
- *bypass construction; Decommissioning of existing pump station;*
- *Installation of new kiosk;*
- ***Installation of generator;***
- *Sanitary forcemain work and appurtenances;*
- *Sanitary gravity main work and appurtenances;*
- *Curb, sidewalk and pavement upgrades; and*
- *Surface restoration.*

The following items of materials will be supplied at no cost to the Contractor from the Owner's Works Yard at 5599 Lynas Lane, Richmond, B.C.:

- *Supply of fibreglass tank for pump station c/w internal valves, and piping;*
- *Supply of electrical kiosk for pump station;*
- *Supply of pumps for sanitary pump station;*
- ***Supply of generator for pump station;***
- *Supply of the pump station hatch;*
- *Supply of flow meter;*
- *Supply and installation of RTU and related components; and*
- *Supply of new antenna cable.*

3. Please remove page B-9 and B-11 in **FORM OF TENDER APPENDIX 1 - SCHEDULE OF QUANTITIES AND PRICES** and replace with the attached revised page B-9 and B-11.
4. Under **01100 – MEASUREMENT AND PAYMENT 2.0 DESCRIPTION OF PAYMENT ITEMS**, please remove the following:

Item A-5 Supply and Install Generator Pad

Payment for this item will be made at the lump sum price tendered in the Schedule of Quantities and Prices.

The lump sum price tendered shall include by not be limited to survey layout, excavation, backfill and base preparation, placement of concrete and all other associated costs, work and materials as necessary to complete the installation of the concrete generator pad as specified in the Contract Documents and Drawings.

And replace with the following:

Item A-5 Install Generator

Payment for this item will be made at the lump sum price tendered in the Schedule of Quantities and Prices.

The lump sum price tendered shall include but not be limited to all costs associated with installing the concrete generator pad as specified in the Contract Documents and Drawings, and mounting the Owner supplied generator; and all remaining electrical work and materials as specified in the Contract Documents and Drawings.

Payment for the electrical work and connections from the generator to the kiosk shall be made under item A-3 Install Kiosk and Electrical Work.

5. Under **01100 – MEASUREMENT AND PAYMENT 2.0 DESCRIPTION OF PAYMENT ITEMS**, please remove the following:

Item C-4 Supply and Install Select Granular Sub-Base Material for Maintenance Vehicle Area (300mm depth)

Payment for this item will be made at the unit price tendered per cubic metre as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to supply, delivery, placing, grading, watering, drying and compacting of the select granular sub-base material, survey layout and all other labour and materials required to install the sub-base to the dimensions and limits indicated on the Contract Documents and Drawings.

Item C-5 Supply and Install Select Granular Base Material for Maintenance Vehicle Area (230mm depth)

Payment for this item will be made at the unit price tendered per square metre as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to supply, delivery, placing, grading, watering, drying and compacting of the select granular base material, survey layout and all other labour and materials required to install the road base to the dimensions and limits indicated on the Contract Documents and Drawings.

And replace with the following:

Item C-4 Supply and Install Granular Sub-Base Material for Maintenance Vehicle Area (300mm depth)

Payment for this item will be made at the unit price tendered per cubic metre as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to supply, delivery, placing, grading, watering, drying and compacting of the select granular sub-base material, survey layout and all other labour and materials required to install the sub-base to the dimensions and limits indicated on the Contract Documents and Drawings.

Item C-5 Supply and Install Granular Base Material for Maintenance Vehicle Area (230mm depth)

Payment for this item will be made at the unit price tendered per square metre as shown on the Schedule of Quantities and Prices.

The unit price tendered shall include but not be limited to supply, delivery, placing, grading, watering, drying and compacting of the select granular base material, survey layout and all other labour and materials required to install the road base to the dimensions and limits indicated on the Contract Documents and Drawings.

Yours truly,

A handwritten signature in black ink, appearing to be 'Kerry Lynne Gillis', written in a cursive style.

Kerry Lynne Gillis
Buyer 2

KG:kg

pc: Anthony Fu, Project Engineer

T.4731 – Montrose Sanitary Pump Station Upgrades					
SCHEDULE OF QUANTITIES AND PRICES					
ITEM NO.	DESCRIPTION	UNIT	EST. QTYS.	UNIT PRICE (\$)	TOTAL AMT. (\$)
A	PUMP STATION ITEMS				
A-1	Temporary Bypass Pumping			Lump Sum	
A-2	Install Wet Well			Lump Sum	
A-3	Install Kiosk and Electrical Work			Lump Sum	
A-4	Supply and Install External Valve Chamber			Lump Sum	
A-5	Install Generator			Lump Sum	
A-6	Supply and Install 50mm diameter Water Service			Lump Sum	
A-7	Miscellaneous Pump Station Items			Lump Sum	
TOTAL FOR PUMP STATION ITEMS – ITEM A (Carry forward to Tender Summary)					\$

T.4731 - Montrose Sanitary Pump Station Upgrades SCHEDULE OF QUANTITIES AND PRICES					
ITEM NO.	DESCRIPTION	UNIT	EST. QTYS.	UNIT PRICE(\$)	TOTAL AMT. (\$)
C	ROAD RESTORATION AND MAINTENANCE VEHICLE AREA ITEMS				
C-1	Supply and Install Final Roadway Asphalt Overlay (Final Trench Restoration on No. 3 Road)		Lump Sum		
C-2	Supply and Install C5 Barrier Curb for Maintenance Vehicle Area and Pump Station Site	Lin.m.	70		
C-3	Supply and Install Catch Basin for Maintenance Vehicle Area	Each	1		
C-4	Supply and Install Granular Sub-Base Material for Maintenance Vehicle Area (300mm depth)	Cu.m.	45		
C-5	Supply and Install Granular Base Material for Maintenance Vehicle Area (230mm depth)	Cu.m.	35		
C-6	Supply and Install Asphalt Concrete Pavement for Maintenance Vehicle Area (50mm depth)	Sq.m.	145		
C-7	Supply and Install Final Asphalt Overlay for Maintenance Vehicle Area (35mm depth)	Sq.m.	145		
TOTAL RESTORATION ITEMS – ITEM C (Carry forward to Tender Summary)					\$