Corporate Finance Department
Materials Management Division

865-2018 ADDENDUM 2

AUBREY OUTFALL GATE CHAMBER UPGRADES

ISSUED: October 10, 2018
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URGENT

PLEASE FORWARD THIS DOCUMENT TO WHOEVER IS IN POSSESSION OF THE BID OPPORTUNITY

THIS ADDENDUM SHALL BE INCORPORATED INTO THE BID OPPORTUNITY AND SHALL FORM A PART OF THE CONTRACT DOCUMENTS

Template Version: A20160708

Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Bid Opportunity, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 10 of Form A: Bid may render your Bid non-responsive.

PART A – BID SUBMISSION

Replace: 865-2018 Bid Submission with 865-2018 Addendum 2 - Bid Submission. The following is a summary of changes incorporated in the replacement Bid Submission:

Form B(R1): Delete Item No. 4 – Temporary Depressurization for Gate Chamber

Form B(R1): Delete Item No. 17 – Supply and Installation of Standardized Electric-Actuated Operator

Form B(R1): Re-numbering of remaining Items

Page numbering on some forms may be changed as a result.

PART E – SPECIFICATIONS

Add: E16.2.2 (c) to read: Approval by the Contract Administrator of the submitted Groundwater Management Plan shall be required prior to implementing the submitted plan.

Revise: E16.2.4 (a) to read: The type, strength, amount of shoring and bracing shall be determined by the Contractor's Professional Engineer/Geoscientists registered in Manitoba. The design should consider the nature of the ground and attendance conditions that may be required, taking into account property lines, existing slopes, utilities, roadways and existing structures.

Revise: E16.2.4 (b) to read: Shoring and bracing shall be so spaced, embedded and dimensioned as to prevent failure of the shoring system, caving, loss of ground, base heave, surface settlement, or squeezing of the soil beyond the neat lines of excavation and to provide control of seepage emanating from the overburden soil layers, including piping through and/or below the shoring system. Shoring structures shall be free from defects that might impair its strength or suitability for the Work. Sheeting/shoring and bracing shall conform to the latest revisions of the "Construction Safety Act" of the Department of Labour of the Government of Manitoba and in accordance with Province of Manitoba "W210 The Workplace Safety and Health Act" and "Guidelines for Excavation Work".

Delete: E16.3 (b)

Add: E22.1 (f): Shop drawings of the City-supplied cast-iron sluice gate, wall thimble, and electric-actuated mechanical lift operator are included in Appendix E.

Revise: E22.4 (a) to read: Pick-up, installation and testing of the cast iron sluice gate, wall thimble, electric-actuated mechanical lift operator, stem, wall brackets and accessories will be paid for at the Contract Lump Sum price for "Installation and Field Testing of Cast Iron Sluice Gate (Supplied by City of Winnipeg)".

(i) 85% of the Installation and Field Testing of Cast Iron Sluice Gate (Supplied by City of Winnipeg) will be paid upon installation.

(ii) The remaining 15% of the Installation and Field Testing of Cast Iron Sluice Gate (Supplied by City of Winnipeg) will be paid upon completion of successful field testing of the sluice gate and acceptable to the Contract Administrator.

Revise: E24.8.5 to read: Monitor and record groundwater levels in all of the monitoring wells at both the Aubrey and Ruby sites at a minimum of once every 24 hours. Copies of the field data sheets shall be provided to the Contract Administrator daily indicating concern(s) to be addressed by the Contractor immediately. Wells required to be monitored are listed as follows (Refer to Geotechnical Investigation Memorandum in Appendix A for well locations):

1. Pumping Test Well – TW17-01 (Aubrey) (150 mm dia. steel casing X 25 m deep)
2. Monitoring Well – 2016-TH02 (Aubrey) (25 mm dia. PVC x 17.2 m deep)
3. Monitoring Well - 2017-TH01 (Aubrey) (50 mm dia. PVC x 23 m deep)
4. Monitoring Well – 2017-TH02 (Aubrey) (VW piezometer x 9 m deep)
5. Monitoring Well – 2016-TH01 (Ruby) (25 mm dia. PVC x 14.6 m deep)
6. Monitoring Well – 2017-TH01 (Ruby) (50 mm dia. PVC x 19.7 m deep)
7. Monitoring Well – 2017-TH02 (Ruby) (50 mm dia. PVC x 22.3 m deep)

Revise: E26.14 (a) to read: Pick-up and installation of an Electric-Actuator Operator shall be considered incidental to E18 Cast-In-Place Concrete Gate Chamber Construction and E22 Installation and Field Testing of Cast Iron Sluice Gate and no measurement or payment will be made for this item.

NMS FORMAT SPECIFICATIONS

Revise: NMS Section 22 14 29.16 Part 2.1.1 to read: Provide Flowserve 8MSX14A, maximum 1200 rpm, and operating design condition point of 114 L/s at 10.2 m T.D.H.

Revise: NMS Section 22 14 29.16 Part 2.1.5 to read: Use abrasion resistant impeller material; high chrome iron or equivalent.

Revise: NMS Section 22 14 29.16 Part 2.1.8 to read: Furnish pump with 25hp electric motor rated at 600V, 60 cycle, 3 phase. The motors shall be capable of driving the pumps continuously through the entire range of pump operation without increasing the temperature of the windings above the insulation rating. Pump units shall be supplied with operating cable having a minimum length of 20 m (66 ft.) for connection to panel.

APPENDICES

Add: Appendix_E Shop Drawings for City-Supplied Sluice Gate

QUESTIONS AND ANSWERS

Q1: In Section 40 94 43, clause 3.2.1.9.1 “Provide all required PLC programming as per the Functional Requirements Specification”. Can you please provide the Functional Requirements Specification?

A1: Functional Requirement Specification is to be coordinated with the City of Winnipeg.

Q2: City Drawing LD-8025 (E02) shows LIT-01 Ultrasonic sensor with “float hanger”, City Drawing LD-8028 shows level switch LSHH-GA001 and Section 26 91 90 Instrumentation clause 2.2 listed Level Switches with a written description listed clause 2.2.1 Ultrasonic Level Controller. Can you please clarify if level switches are to be supplied or level transmitter/transducer?

A2: All level controls are to be by ultrasonic level transmitter/transducer, as described in NMS Section 26 91 90, clauses 2.2.1 through 2.2.14.

Q3: Tender drawings show Sluice Gate Actuator, is this to be provided by Others? Can you please provide specifications for this equipment?

A3: Please refer to Bid Opportunity 865-2018, sections E25 and E26.

Q4: City drawing LD-8040 shows two (2) MiniMoore relays, can you please send the specifications for these parts?

A4: Use Moore Industries MiniMoore relays.

Q5: In Section 26 24 17 clause 2.2.1.2.4.9 states that “Include three-phase electronic power meter as specified in this Section”. It looks like there is no further specifications listed in the same Section. Can you please provide more information on this power meter?

A5: Provide an Electric Power Meter (e.g. Schneider, Eaton).

Q6: City Drawings LD-8015 and LD-8021 call for Volclay RX type waterstop. Is WATERSTOP EC as supplied by W.R. Meadows an acceptable material alternative?

A6: WATERSTOP EC shall be considered an approved equal to Volclay RX.

Q7: NMS Section 22 14 29.16 has specified that a Flowserve 8MSX11A is the approved pump for the submersible pump. It is requested that the Barnes 8SHDU25056 be deemed an approved alternate. The anti-clog reverse action is accomplished through the use of a pump controller. There are two components that make up the system, the CU 362 and the IO 113 (with an optional MP204).

A7: The Barnes 8SHDU25056 submersible pump, complete with a Grundfos CU 362 control unit and IO 113 module, shall be considered an approved equal to the specified Flowserve 8MSX14A submersible pump and corresponding pump controller. The new controller selection shall be coordinated with the control panel supplier for integration with the SCADA system.