



ADDENDUM NO. 1 BID OPPORTUNITY NO. 1173-2014

2014 SEWER RENEWALS AND REPAIRS CONTRACT NO.17

URGENT

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

ISSUED: January 19, 2014
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**THIS ADDENDUM SHALL BE INCORPORATED
INTO THE BID OPPORTUNITY AND SHALL
FORM A PART OF THE CONTRACT
DOCUMENTS**

Template Version: 20040128

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 Submission non-responsive.

PART A – BID SUBMISSION

Replace: 1173-2014 Bid Submission with 1173-2014 Addendum 1- Bid Submission. The changes incorporated into the revised Form B Section F.

PART B – BIDDING PROCEDURES

Revise B2.1 to read: The Submission Deadline is 12:00 p.m. Winnipeg time, January 27, 2015.

PART E – SPECIFICATIONS

Add: E12 Removal and Replacement of Wing-Shaped Steel Pipe

E13 Flow Control in Wastewater and Storm Relief Sewers

E12. REMOVAL AND REPLACEMENT OF WING-SHAPED STEEL PIPE

E12.1 Description

E12.1.1 This Specification covers the piping, concrete and reinforcing steel work in the manhole located at the intersection of Main Street and Inkster Boulevard.

E12.1.2 The Contractor shall remove the existing wing-shaped piping and replace with a 300mm diameter steel pipe as shown on the drawings or as indicated by the Contract Administrator.

E12.2 Materials

E12.2.1 Piping and Fittings

(a) 300mm diameter pipe - ASTM Carbon stainless steel Schedule 40 thickness.

E12.2.2 Cast-in-Place Concrete

(a) Concrete to be in accordance with CW 2160 and CSA A23.1.

(b) Concrete mix design shall be in accordance with performance alternative and shall have the following properties:

(i) Class of exposure: S-1

- (ii) Minimum compressive strength at 28 days: 35 MPa
 - (iii) Maximum slump: 80mm (\pm 20mm)
 - (iv) Air Content: 5% – 8%
 - (v) Maximum Water/Cement Ratio: 0.40
- (c) Lean-Mix concrete design for proportioning of fine aggregate, coarse aggregate, cement, and water shall be as follows:
- (i) Cement: Type 50
 - (ii) Minimum compressive strength at 28 days: 15 MPa
 - (iii) Slump: 80mm
 - (iv) Air Content: nil
 - (v) Maximum Water/Cement Ratio: 0.49

E12.2.3 Grout,

- (a) Grout to be S.P.I. Rapid Repair Grout, Sika Grout 212 or an approved equal.

E12.2.4 Bonding Agent

- (a) Bonding agent to be Acryl-Stix or approved equal in accordance with B7.

E12.3 Construction Methods

E12.3.1 General

- (a) Install the new piping as indicated in this specification and shown on the Drawings. Make no changes, revisions or substitutions to the layout without obtaining written approval from the Contractor Administrator.
- (b) Be aware of and contend with the wastewater in the existing piping when preparing to make the required modifications.
- (c) The preference is all work is done internally from the manholes and storm relief sewer as shown on the drawings and without any excavations.
- (d) If cannot be done internally, remove risers on storm relief manhole as required to accommodate installation of steel pipe.

E12.3.2 Flow Control and Temporary By-Pass Pumping

- (a) Provide flow control measures and temporary by-pass pumping as shown on the Drawings and in accordance with E13 of this Specification.

E12.3.3 Piping Installation

- (a) Remove existing pipe as indicated in the Specifications and on the Drawings and replace with new pipe.
- (b) Installation to be as follows:
 - (i) Pipe and fittings shall be field measured and fitted before installation.
 - (ii) Should the pipe have to be installed in sections, piping can be welded together. Piping and fitting welds shall be full penetration butt type in accordance with ANSI/ASME B31.9. Welders shall be fully qualified and licensed by Provincial Authorities. Welds which do not penetrate fully will not be accepted.
 - (iii) All pipe and equipment shall be adequately protected from on-site welding procedures.

E12.3.4 Concrete Work

- (a) Make neat openings in walls and floor slabs using concrete coring and cutting equipment and methods.
- (b) Fill openings left in concrete after removal of piping or other equipment with watertight, non-shrink grout. Finish new surfaces flush with the existing surface and match the surrounding surface texture.
- (c) Mix and apply grout in accordance with the manufacturer's instructions.

- (d) Mix and apply bonding agent in accordance with the manufacturer's instructions.
- (e) Neatly grout any concrete surface that has been broken and had the aggregate exposed with a smooth finish similar in texture to that of the surrounding concrete.
- (f) Apply concrete bonding agents between new concrete or grout and existing concrete surfaces. Remove all loose, pitted and scaled concrete and apply bonding agent in accordance with the manufacturer's instructions
- (g) De-scale exposed reinforcing steel and have all rust removed before applying grout.

E12.4 Measurement and Payment

E12.5 Pipe installation will be measured on a lump sum basis and paid for at the Contract Unit Price for "Removal and Replacement of Wing-Shaped Steel Pipe" as shown in Form B: Prices as supplied and installed in accordance with this specification accepted and measured by the Contract Administrator.

E13. FLOW CONTROL IN WASTEWATER AND STORM RELIEF SEWERS

- E13.1 Provide flow control measures to contend with and maintain flow in the existing wastewater and land drainage sewers as required during the installation of the new interceptor sewer. Flow control measures may include but not be limited to diversions, flumes, plugs, and by-pass pumping and will be done in accordance with section 3.21 of CW 2130.
- E13.2 Lay out discharge hoses for by-pass pumping such that vehicle and pedestrian traffic safety are not affected. If pumping equipment is used, the equipment shall be set up in a location and in such a way as to not be a noise problem for nearby residents.
- E13.3 Submit all flow control plan to the Contract Administrator for review and approval prior to beginning work.
- E13.4 Costs for flow control will be included with the sewer installation.

DRAWINGS

Add: 1173-2014_Drawing_10981_R0