

ADDENDUM ONE
to the
CONTRACT DOCUMENTS
for
CITY OF MOOSE JAW
2017 CAST IRON WATERMAIN REPLACEMENT PROGRAM

April 6, 2017

To All Bidders:

The following changes, additions, and/or deletions are hereby made a part of the Contract Documents for the City of Moose Jaw, 7015 Cast Iron Watermain Replacement Program, March, 2017 as fully and completely as if the same were fully set forth therein:

MODIFICATIONS TO “NOTICE TO BIDDERS”

Add the following text to Page 01 of Notice to Bidders:

Bidder’s Briefing Meeting: Thursday, April 13, 2017 at 2:00 pm (CST) at the offices of Associated Engineering (Sask.) Ltd., 1922 Park Street, Regina, SK S4N 7M4.

MODIFICATIONS TO “SPECIFICATIONS”

Replace Item 1.18 – Existing Utilities and Structures in its entirety with the following:

1.18 EXISTING UTILITIES AND STRUCTURES

The Contractor shall be responsible for existing utilities and structures including the following: pipes, culverts, ditches or other items which are part of an existing sewerage, drainage or water system; or which are a part of a gas, electrical, telephone, television, telecommunications or other utility system. Also included are streets, sidewalks, curbs, gutters, swales, poles, fences or any other structure encountered during construction.

The Contractor will operate all existing valves. Notification must be given to the Owner and Owner’s Engineer 24 hours prior to the requirement to operate any existing valves.

The City has reviewed the site and as-built data. The drawings presented are result of this Work; however, some discrepancies may still exist. The Contractor shall be responsible for all costs associated with locating utilities, establishing locations and must state the use of all existing utilities that may affect the Work.

The “Issued for Tender” drawings, located in Appendix A, note schematic location of utilities only.

Replace Item 2.2 – Temporary Water Setup and Installation in its entirety with the following:

2.2 Temporary Water Setup and Installation

The Contractor shall have use of City water for temporary water setup free of charge. The Contractor is responsible for making the necessary arrangements for the uninterrupted water supply to all residents affected by water main construction. The Contractor will perform all chlorination and bacteriological testing of the temporary bypass system at locations specified by the City, in accordance with Sections 2.19 Chlorination and 2.20 Bacteriological Sampling.

The Contractor shall supply, install, and chlorinate a temporary system for continuous pressurized water service to each property affected during construction. This temporary system shall be supplied from the nearest approved fire hydrant using 50 mm potable water supply lines and a minimum of a 12.5 mm diameter supply line connected to each residence or building. The City shall provide backflow prevention complete with a two inch camlock. The temporary water main system shall be connected to the hydrant with a double check valve assembly. The assembly shall have two (2), independently acting, spring-loaded check valves, and shutoff valves at each end of the assembly with test cocks. Flexible hose jackets shall be abrasion resistant and capable of being driven over by vehicles without short-term effects. Hose lining shall be of material that does not impart any taste or odour to the water according to NSF/ANSI 61. Hose shall come complete with aluminium couplings and threads.

It shall be the Contractor's responsibility to make all arrangements for the installation, operation, and removal of this system at each property. Place supply lines parallel to each side of the street and as close as possible to the premises being serviced. When a street must be crossed with temporary water supply piping either place the water main in a shallow trench, saw cut into the asphalt, and lay pipe in the cored hole, or lay pipe on the surface of the pavement. Pipe installed on the road surface is to be protected from vehicular and pedestrian traffic with suitable ramps, and provided with suitable traffic warning acceptable to the Engineer. Cuts in pavement may be made only with permission of the Engineer.

Adjacent blocks affected by water disruptions of less than eight (8) hours will not require temporary services. The Contractor shall notify all affected residents 72 hours prior to the water outage in writing, to allow the residents to draw water before the water outage. All such correspondence to the public shall be submitted to the Engineer for approval prior to distribution.

There will be no measurement or payment for the temporary water main setup. The Contractor shall include all costs associated with this setup within water main construction or any other tender item.

Replace Item 2.19 – Chlorination in its entirety with the following:

2.19 Chlorination

The Contractor shall submit a chlorination plan for the Engineer's approval at the pre-construction meeting conforming to AWWA C651. The Contractor shall supply and perform bacteria and turbidity testing. Saskatchewan Environment requires that the pipes are to be flushed prior to chlorination and disposed in an environmentally safe manner to the nearest sanitary system.

Procedural method of disinfection including chlorine concentration calculations and contract times are to be submitted to the City of Moose Jaw representative for acceptance. Super chlorinated water used for disinfection of the system shall be disposed of into the sanitary sewer. If, at the direction of the Engineer, the sanitary sewer is deemed to be unavailable for accepting water, the Contractor shall ensure that all water be directed into the storm sewer and have zero (0) parts per million chlorine residual. This shall be confirmed through testing, submitted to the Engineer prior to disposal of water to the storm sewer. No super chlorinated water shall be directed to an open water body. Prior to initial acceptance of the water system and the system put into service, bacteriological testing in Section 2.20 Bacteriological Sampling shall be carried out on all water mains and acceptable test results achieved. The initial chlorine concentration in the water main shall reach a minimum of 50 ppm and shall not exceed 150 ppm.

The chlorine concentration at the designated sampling locations will be measured and recorded right after chlorination and compared to the levels measured 24 hours later. Before collecting samples for bacteriological tests, two (2) conditions must be fulfilled after the 24 hour waiting period:

- The chlorine residual at every sampling location should not drop by more than 30% of their respective initial readings or 25ppm whichever is greater
- Turbidity must be under 1.00 NTU

After chlorinating, the Contractor will flush the water main. Flushing should continue until chlorine residuals and turbidity levels are similar to City water directly upstream of the new water main.

The temporary water lines will require chlorination and flushing prior to use. Temporary water lines or water mains will remain out of service until the City deems the potable water safe. The Contractor shall supply all chlorine compounds, piping, pumps, labour and any other items required for proper disinfection.

All of the Contractor's work to energize, disinfect and flush the water mains shall be carried out under the supervision of the City of Moose Jaw. The City shall coordinate the activities of the Contractor and the Public Works Section during the work required to energize, disinfect and flush the water mains. The Contractor shall not operate any valves of the existing City system unless the approval of the City Engineer has been given.

The Contractor shall include the cost for chlorination in the contract unit prices for Potable Water Main Installation. No separate payment will be made for this Work.

Contractor is responsible to provide property owners two weeks prior to construction start notices outlining traffic control plan, phase of work and engagement to provide service connection work exclusive of the contract as per Section 3.1 Extents of Service Connection Replacement in the Specifications of the Contract.

Contractor to provide businesses' 72 hours notice prior to disruption of services to residents. Notice to include traffic control plans, plans of work, what to expect and estimated timelines .

Replace Item 1.24 – Notifications in its entirety with the following:

The Contractor shall hand deliver construction notices to residents and businesses affected by construction at least one week prior to the start of construction. The notices shall detail traffic control and access, work plan, estimated schedule, water and sewer service interruption details, parking restrictions and Contractor Superintendent's name and phone number (including 24 hour emergency numbers).

The Contractor shall provide a written disruption of service notice, approved by the Engineer, to all adjacent property Owners 72 hours before construction commences.

CLARIFICATION TO “SECTION 6.2 OF THE SPECIFICATIONS”

A tree assessment was not done for this project. Regarding Elm trees, the Dutch Elm Disease Regulations, 2005 states:

No person shall prune an elm tree during the pruning ban period unless:

(c) the person is an employee of or contracted by a municipality or Crown corporation who, in the course of his or her duties or responsibilities, considers it necessary to prune the elm tree to ensure human safety or to avoid damage to other property;

All Bidders shall acknowledge receipt and acceptance of this Addendum by signing in the space provided and submitting the signed signature page of the Addendum to the Engineer at any time prior to Bid Closing Time. Submission of the signature page in hard copy, via fax or via email is acceptable. Bids submitted without acknowledgement of receipt of this Addendum may be considered incomplete.

Yours truly,

ASSOCIATED ENGINEERING (SASK.) LTD.



Mike Binns, P.Eng.
Project Manager

Receipt acknowledged and conditions agreed to this ____ day of _____, 2017.

Bidder

Signature

Appended hereto and part of this Addendum: