

THE CITY OF WINNIPEG

BID OPPORTUNITY

BID OPPORTUNITY NO. 235-2020

SUPPLY AND DELIVERY OF CAST-IRON CONTROL GATES FOR THE CANORA OUTFALL CHAMBER UPGRADES

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PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

B1.1 SUPPLY AND DELIVERY OF CAST-IRON CONTROL GATES FOR THE CANORA OUTFALL CHAMBER UPGRADES

B2. SUBMISSION DEADLINE

- B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, **April 23, 2020**.
- B2.2 Bids determined by the Manager of Materials to have been received later than the Submission Deadline will not be accepted and will be returned upon request.
- B2.3 The Contract Administrator or the Manager of Materials may extend the Submission Deadline by issuing an addendum at any time prior to the time and date specified in B2.1.

B3. ENQUIRIES

- B3.1 All enquiries shall be directed to the Contract Administrator identified in D4.1.
- B3.2 If the Bidder finds errors, discrepancies or omissions in the Bid Opportunity, or is unsure of the meaning or intent of any provision therein, the Bidder shall promptly notify the Contract Administrator of the error, discrepancy or omission at least five (5) Business Days prior to the Submission Deadline.
- B3.3 If the Bidder is unsure of the meaning or intent of any provision therein, the Bidder should request clarification as to the meaning or intent prior to the Submission Deadline.
- B3.4 Responses to enquiries which, in the sole judgment of the Contract Administrator, require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator to all Bidders by issuing an addendum.
- B3.5 Responses to enquiries which, in the sole judgment of the Contract Administrator, do not require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator only to the Bidder who made the enquiry.
- B3.6 The Bidder shall not be entitled to rely on any response or interpretation received pursuant to B3 unless that response or interpretation is provided by the Contract Administrator in writing.

B4. CONFIDENTIALITY

- B4.1 Information provided to a Bidder by the City or acquired by a Bidder by way of further enquiries or through investigation is confidential. Such information shall not be used or disclosed in any way without the prior written authorization of the Contract Administrator. The use and disclosure of the confidential information shall not apply to information which:
 - (a) was known to the Bidder before receipt hereof; or
 - (b) becomes publicly known other than through the Bidder; or
 - (c) is disclosed pursuant to the requirements of a governmental authority or judicial order.
- B4.2 The Bidder shall not make any statement of fact or opinion regarding any aspect of the Bid Opportunity to the media or any member of the public without the prior written authorization of the Contract Administrator.

B5. ADDENDA

- B5.1 The Contract Administrator may, at any time prior to the Submission deadline, issue addenda correcting errors, discrepancies or omissions in the Bid Opportunity, or clarifying the meaning or intent of any provision therein.
- B5.2 The Contract Administrator will issue each addendum at least two (2) Business Days prior to the Submission Deadline, or provide at least two (2) Business Days by extending the Submission Deadline.
- B5.3 Addenda will be available on the Bid Opportunities page at The City of Winnipeg, Corporate Finance, Materials Management Division website at http://www.winnipeg.ca/matmgt/bidopp.asp
- B5.4 The Bidder is responsible for ensuring that he/she has received all addenda and is advised to check the Materials Management Division website for addenda regularly and shortly before the Submission Deadline, as may be amended by addendum.
- B5.5 The Bidder shall acknowledge receipt of each addendum in Paragraph 9 of Form A: Bid. Failure to acknowledge receipt of an addendum may render a Bid non-responsive.

B6. SUBSTITUTES

- B6.1 The Work is based on the materials, equipment, methods and products specified in the Bid Opportunity.
- B6.2 Substitutions shall not be allowed unless application has been made to and prior approval has been granted by the Contract Administrator in writing.
- B6.3 Requests for approval of a substitute will not be considered unless received in writing by the Contract Administrator at least seven (7) Business Days prior to the Submission Deadline.
- B6.4 The Bidder shall ensure that any and all requests for approval of a substitute:
 - (a) provide sufficient information and details to enable the Contract Administrator to determine the acceptability of the material, equipment, method or product as either an approved equal or alternative;
 - (b) identify any and all changes required in the applicable Work, and all changes to any other Work, which would become necessary to accommodate the substitute;
 - (c) identify any anticipated cost or time savings that may be associated with the substitute;
 - (d) certify that, in the case of a request for approval as an approved equal, the substitute will fully perform the functions called for by the general design, be of equal or superior substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the Contract;
 - (e) certify that, in the case of a request for approval as an approved alternative, the substitute will adequately perform the functions called for by the general design, be similar in substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the Contract.
- B6.5 The Contract Administrator, after assessing the request for approval of a substitute, may in his/her sole discretion grant approval for the use of a substitute as an "approved equal" or as an "approved alternative", or may refuse to grant approval of the substitute.
- B6.6 The Contract Administrator will provide a response in writing, at least two (2) Business Days prior to the Submission Deadline, to the Bidder who requested approval of the substitute.
- B6.6.1 The Contract Administrator will issue an Addendum, disclosing the approved materials, equipment, methods and products to all potential Bidders. The Bidder requesting and

obtaining the approval of a substitute shall be responsible for disseminating information regarding the approval to any person or persons he/she wishes to inform.

- B6.7 If the Contract Administrator approves a substitute as an "approved equal", any Bidder may use the approved equal in place of the specified item.
- B6.8 If the Contract Administrator approves a substitute as an "approved alternative", any Bidder bidding that approved alternative may base his/her Total Bid Price upon the specified item but may also indicate an alternative price based upon the approved alternative. Such alternatives will be evaluated in accordance with B16.
- B6.9 No later claim by the Contractor for an addition to the price(s) because of any other changes in the Work necessitated by the use of an approved equal or an approved alternative will be considered.

B7. BID SUBMISSION

- B7.1 The Bid shall consist of the following components:
 - (a) Form A: Bid;
 - (b) Form B: Prices.
- B7.2 Further to B7.1, the Bidder should include the written correspondence from the Contract Administrator approving a substitute in accordance with B6.
- B7.3 All components of the Bid shall be fully completed or provided and submitted by the Bidder no later than the Submission Deadline, with all required entries made clearly and completely.
- B7.4 The Bid Submission may be submitted by mail, courier or personal delivery, or by facsimile transmission.
- B7.5 If the Bid Submission is submitted by mail, courier or personal delivery, it shall be enclosed and sealed in an envelope clearly marked with the Bid Opportunity number and the Bidder's name and address, and shall be submitted to:

The City of Winnipeg Corporate Finance Department Materials Management Division 185 King Street, Main Floor Winnipeg MB R3B 1J1

- B7.5.1 Samples or other components of the Bid Submission which cannot reasonably be enclosed in the envelope may be packaged separately, but shall be clearly marked with the Bid Opportunity number, the Bidder's name and address, and an indication that the contents are part of the Bidder's Bid Submission.
- B7.6 If the Bid Submission is submitted by facsimile transmission, it shall be submitted to 204-949-1178.
- B7.6.1 The Bidder is advised that the City cannot take responsibility for the availability of the facsimile machine at any time or guarantee the successful receipt of a faxed Bid Submission.
- B7.7 Bidders are advised not to include any information/literature except as requested in accordance with B7.1.
- B7.8 Bidders are advised that inclusion of terms and conditions inconsistent with the Bid Opportunity document, including the General Conditions, will be evaluated in accordance with B16.1(a).
- B7.9 Bids submitted by internet electronic mail (e-mail) will not be accepted.

B8. BID

- B8.1 The Bidder shall complete Form A: Bid, making all required entries.
- B8.2 Paragraph 2 of Form A: Bid shall be completed in accordance with the following requirements:
 - (a) if the Bidder is a sole proprietor carrying on business in his/her own name, his/her name shall be inserted;
 - (b) if the Bidder is a partnership, the full name of the partnership shall be inserted;
 - (c) if the Bidder is a corporation, the full name of the corporation shall be inserted;
 - (d) if the Bidder is carrying on business under a name other than his/her own, the business name and the name of every partner or corporation who is the owner of such business name shall be inserted.
- B8.2.1 If a Bid is submitted jointly by two or more persons, each and all such persons shall identify themselves in accordance with B8.2.
- B8.3 In Paragraph 3 of Form A: Bid, the Bidder shall identify a contact person who is authorized to represent the Bidder for purposes of the Bid.
- B8.4 Paragraph 12 of Form A: Bid shall be signed in accordance with the following requirements:
 - (a) if the Bidder is a sole proprietor carrying on business in his/her own name, it shall be signed by the Bidder;
 - (b) if the Bidder is a partnership, it shall be signed by the partner or partners who have authority to sign for the partnership;
 - (c) if the Bidder is a corporation, it shall be signed by its duly authorized officer or officers;
 - (d) if the Bidder is carrying on business under a name other than his/her own, it shall be signed by the registered owner of the business name, or by the registered owner's authorized officials if the owner is a partnership or a corporation.
- B8.4.1 The name and official capacity of all individuals signing Form A: Bid should be printed below such signatures.
- B8.5 If a Bid is submitted jointly by two or more persons, the word "Bidder" shall mean each and all such persons, and the undertakings, covenants and obligations of such joint Bidders in the Bid and the Contract, when awarded, shall be both joint and several.

B9. PRICES

- B9.1 The Bidder shall state a price in Canadian funds for each item of the Work identified on Form B: Prices.
- B9.1.1 Prices on Form B: Prices shall include:
 - (a) duty;
 - (b) freight and cartage;
 - (c) Provincial and Federal taxes [except the Goods and Services Tax (GST) and Manitoba Retail Sales Tax (MRST, also known as PST), which shall be extra where applicable] and all charges governmental or otherwise paid;
 - (d) profit and all compensation which shall be due to the Contractor for the Work and all risks and contingencies connected therewith.
- B9.2 The quantities listed on Form B: Prices are to be considered approximate only. The City will use said quantities for the purpose of comparing Bids.
- B9.3 The quantities for which payment will be made to the Contractor are to be determined by the Work actually performed and completed by the Contractor, to be measured as specified in the applicable Specifications.

B10. DISCLOSURE

- B10.1 Various Persons provided information or services with respect to this Work. In the City's opinion, this relationship or association does not create a conflict of interest because of this full disclosure. Where applicable, additional material available as a result of contact with these Persons is listed below.
- B10.2 The Persons are:
 - (a) N/A
- B10.3 Additional Material:
 - (a) N/A

B11. CONFLICT OF INTEREST AND GOOD FAITH

- B11.1 Bidders, by responding to this Bid Opportunity, declare that no Conflict of Interest currently exists, or is reasonably expected to exist in the future.
- B11.2 Conflict of Interest means any situation or circumstance where a Bidder or employee of the Bidder proposed for the Work has:
 - (a) other commitments;
 - (b) relationships;
 - (c) financial interests; or
 - (d) involvement in ongoing litigation;

that could or would be seen to:

- exercise an improper influence over the objective, unbiased and impartial exercise of the independent judgment of the City with respect to the evaluation of Bids or award of the Contract; or
- (ii) compromise, impair or be incompatible with the effective performance of a Bidder's obligations under the Contract;
- has contractual or other obligations to the City that could or would be seen to have been compromised or impaired as a result of its participation in the Bid Opportunity process or the Work; or
- (f) has knowledge of confidential information (other than confidential information disclosed by the City in the normal course of the Bid Opportunity process) of strategic and/or material relevance to the Bid Opportunity process or to the Work that is not available to other bidders and that could or would be seen to give that Bidder an unfair competitive advantage.
- B11.3 In connection with its Bid, each entity identified in B11.2 shall:
 - (a) avoid any perceived, potential or actual Conflict of Interest in relation to the procurement process and the Work;
 - (b) upon discovering any perceived, potential or actual Conflict of Interest at any time during the Bid Opportunity process, promptly disclose a detailed description of the Conflict of Interest to the City in a written statement to the Contract Administrator; and
 - (c) provide the City with the proposed means to avoid or mitigate, to the greatest extent practicable, any perceived, potential or actual Conflict of Interest and shall submit any additional information to the City that the City considers necessary to properly assess the perceived, potential or actual Conflict of Interest.
- B11.4 Without limiting B11.3, the City may, in its sole discretion, waive any and all perceived, potential or actual Conflicts of Interest. The City's waiver may be based upon such terms and conditions as the City, in its sole discretion, requires to satisfy itself that the Conflict of Interest has been appropriately avoided or mitigated, including requiring the Bidder to put into place such policies,

procedures, measures and other safeguards as may be required by and be acceptable to the City, in its sole discretion, to avoid or mitigate the impact of such Conflict of Interest.

- B11.5 Without limiting B11.3, and in addition to all contractual or other rights or rights at law or in equity or legislation that may be available to the City, the City may, in its sole discretion:
 - (a) disqualify a Bidder that fails to disclose a perceived, potential or actual Conflict of Interest of the Bidder or any of its employees proposed for the Work;
 - (b) require the removal or replacement of any employees proposed for the Work that has a perceived, actual or potential Conflict of Interest that the City, in its sole discretion, determines cannot be avoided or mitigated;
 - (c) disqualify a Bidder or employees proposed for the Work that fails to comply with any requirements prescribed by the City pursuant to B11.4 to avoid or mitigate a Conflict of Interest; and
 - (d) disqualify a Bidder if the Bidder, or one of its employees proposed for the Work, has a perceived, potential or actual Conflict of Interest that, in the City's sole discretion, cannot be avoided or mitigated, or otherwise resolved.
- B11.6 The final determination of whether a perceived, potential or actual Conflict of Interest exists shall be made by the City, in its sole discretion.

B12. QUALIFICATION

- B12.1 The Bidder shall:
 - (a) undertake to be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, or if the Bidder does not carry on business in Manitoba, in the jurisdiction where the Bidder does carry on business; and
 - (b) be financially capable of carrying out the terms of the Contract; and
 - (c) have all the necessary experience, capital, organization, and equipment to perform the Work in strict accordance with the terms and provisions of the Contract.
- B12.2 The Bidder and any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:
 - (a) be responsible and not be suspended, debarred or in default of any obligations to the City. A list of suspended or debarred individuals and companies is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at https://www.winnipeg.ca/matmgt/Templates/files/debar.pdf
- B12.3 The Bidder and/or any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:
 - (a) have successfully carried out work similar in nature, scope and value to the Work; and
 - (b) be fully capable of performing the Work required to be in strict accordance with the terms and provisions of the Contract; and
 - (c) have a written workplace safety and health program, if required, pursuant to The Workplace Safety and Health Act (Manitoba).
- B12.4 The Bidder shall submit, within three (3) Business Days of a request by the Contract Administrator, proof satisfactory to the Contract Administrator of the qualifications of the Bidder and of any proposed Subcontractor.
- B12.5 The Bidder shall provide, on the request of the Contract Administrator, full access to any of the Bidder's equipment and facilities to confirm, to the Contract Administrator's satisfaction, that the Bidder's equipment and facilities are adequate to perform the Work.

B13. OPENING OF BIDS AND RELEASE OF INFORMATION

- B13.1 Bids will not be opened publicly.
- B13.2 Following the Submission Deadline, the names of the Bidders and their Total Bid Prices (unevaluated, and pending review and verification of conformance with requirements or evaluated prices) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Division website at http://www.winnipeg.ca/matmgt
- B13.3 After award of Contract, the name(s) of the successful Bidder(s), their address(es) and the Contract amount(s) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Division website at http://www.winnipeg.ca/matmgt
- B13.4 The Bidder is advised that any information contained in any Bid may be released if required by The Freedom of Information and Protection of Privacy Act (Manitoba), by other authorities having jurisdiction, or by law or by City policy or procedures (which may include access by members of City Council).
- B13.4.1 To the extent permitted, the City shall treat as confidential information, those aspects of a Bid Submission identified by the Bidder as such in accordance with and by reference to Part 2, Section 17 or Section 18 or Section 26 of The Freedom of Information and Protection of Privacy Act (Manitoba), as amended.

B14. IRREVOCABLE BID

- B14.1 The Bid(s) submitted by the Bidder shall be irrevocable for the time period specified in Paragraph 10 of Form A: Bid.
- B14.2 The acceptance by the City of any Bid shall not release the Bids of the next two lowest evaluated responsive Bidders and these Bidders shall be bound by their Bids on such Work until a Contract for the Work has been duly formed and the contract securities have been furnished as herein provided, but any Bid shall be deemed to have lapsed unless accepted within the time period specified in Paragraph 10 of Form A: Bid.

B15. WITHDRAWAL OF BIDS

- B15.1 A Bidder may withdraw his/her Bid without penalty by giving written notice to the Manager of Materials at any time prior to the Submission Deadline.
- B15.1.1 Notwithstanding C21, the time and date of receipt of any notice withdrawing a Bid shall be the time and date of receipt as determined by the Manager of Materials.
- B15.1.2 The City will assume that any one of the contact persons named in Paragraph 3 of Form A: Bid or the Bidder's authorized representatives named in Paragraph 12 of Form A: Bid, and only such person, has authority to give notice of withdrawal.
- B15.1.3 If a Bidder gives notice of withdrawal prior to the Submission Deadline, the Manager of Materials will:
 - (a) retain the Bid until after the Submission Deadline has elapsed;
 - (b) open the Bid to identify the contact person named in Paragraph 3 of Form A: Bid and the Bidder's authorized representatives named in Paragraph 12 of Form A: Bid; and
 - (c) if the notice has been given by any one of the persons specified in B15.1.3(b), declare the Bid withdrawn.
- B15.2 A Bidder who withdraws his/her Bid after the Submission Deadline but before his/her Bid has been released or has lapsed as provided for in B14.2 shall be liable for such damages as are imposed upon the Bidder by law and subject to such sanctions as the Chief Administrative

Officer considers appropriate in the circumstances. The City, in such event, shall be entitled to all rights and remedies available to it at law.

B16. EVALUATION OF BIDS

- B16.1 Award of the Contract shall be based on the following bid evaluation criteria:
 - (a) compliance by the Bidder with the requirements of the Bid Opportunity, or acceptable deviation therefrom (pass/fail);
 - (b) qualifications of the Bidder and the Subcontractors, if any, pursuant to B12 (pass/fail);
 - (c) Total Bid Price;
 - (d) economic analysis of any approved alternative pursuant to B6.
- B16.2 Further to B16.1(a), the Award Authority may reject a Bid as being non-responsive if the Bid Submission is incomplete, obscure or conditional, or contains additions, deletions, alterations or other irregularities. The Award Authority may reject all or any part of any Bid, or waive technical requirements or minor informalities or irregularities if the interests of the City so require.
- B16.3 Further to B16.1(b), the Award Authority shall reject any Bid submitted by a Bidder who does not demonstrate, in his/her Bid or in other information required to be submitted, that he/she is qualified.
- B16.4 Further to B16.1(c), the Total Bid Price shall be the sum of the quantities multiplied by the unit prices for each item shown on Form B: Prices.
- B16.4.1 Further to B16.1(a), in the event that a unit price is not provided on Form B: Prices, the City may determine the unit price by dividing the Amount (extended price) by the approximate quantity, for the purposes of evaluation and payment.
- B16.5 This Contract will be awarded as a whole.

B17. AWARD OF CONTRACT

- B17.1 The City will give notice of the award of the Contract or will give notice that no award will be made.
- B17.2 The City will have no obligation to award a Contract to a Bidder, even though one or all of the Bidders are determined to be qualified, and the Bids are determined to be responsive.
- B17.2.1 Without limiting the generality of B17.2, the City will have no obligation to award a Contract where:
 - (a) the prices exceed the available City funds for the Work;
 - (b) the prices are materially in excess of the prices received for similar work in the past;
 - (c) the prices are materially in excess of the City's cost to perform the Work, or a significant portion thereof, with its own forces;
 - (d) only one Bid is received; or
 - (e) in the judgment of the Award Authority, the interests of the City would best be served by not awarding a Contract.
- B17.3 Where an award of Contract is made by the City, the award shall be made to the qualified Bidder submitting the lowest evaluated responsive Bid, in accordance with B16.
- B17.3.1 Following the award of contract, a Bidder will be provided with information related to the evaluation of his/her Bid upon written request to the Contract Administrator.
- B17.4 Notwithstanding C4, the City may issue a purchase order to the successful Bidder in lieu of the execution of a Contract.

B17.5 The Contract Documents, as defined in C1.1(p), in their entirety shall be deemed to be incorporated in and to form a part of the purchase order notwithstanding that they are not necessarily attached to or accompany said purchase order.

PART C - GENERAL CONDITIONS

CO. GENERAL CONDITIONS

- C0.1 The General Conditions for the Supply of Goods (Revision 2020-01-31) are applicable to the Work of the Contract.
- C0.1.1 The General Conditions for the Supply of Goods are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at http://www.winnipeg.ca/matmgt/gen_cond.stm
- C0.2 A reference in the Bid Opportunity to a section, clause or subclause with the prefix "C" designates a section, clause or subclause in the *General Conditions for Supply of Goods*.

PART D - SUPPLEMENTAL CONDITIONS

GENERAL

D1. GENERAL CONDITIONS

D1.1 In addition to the *General Conditions for the Supply of Goods*, these Supplemental Conditions are applicable to the Work of the Contract.

D2. SCOPE OF WORK

- D2.1 The Work to be done under the Contract shall consist of the supply and delivery of an AWWA C560 Slide Gate and Flap Gate, complete with wall thimbles, mechanical lift operator, stems, wall brackets, and associated accessories. The Work will also include assistance in both the commissioning and field testing of the equipment.
- D2.2 The major components of the Work are as follows:
 - (a) Supply and Delivery of a 1676mm x 1676mm (66"W x 66"H) cast-iron slide gate manufactured in accordance with AWWA C560-14, complete with wall thimble, mechanical lift operator and all associated appurtenances.
 - (b) Supply and Delivery of a 1981mm (78") diameter cast-iron flap gate, complete with a wall thimble and all associated appurtenances.
 - (c) Inspection, testing and commissioning services

D3. DEFINITIONS

- D3.1 When used in this Bid Opportunity:
 - (a) "ASTM" means American Society for Testing and Materials;
 - (b) "AWWA" means American Water Works Association;
 - (c) "CSA" means Canadian Standards Association.

D4. CONTRACT ADMINISTRATOR

D4.1 The Contract Administrator is KGS Group Consulting Engineers, represented by:

Lunide Milius-Alphonse, P.Eng

Structural Engineer

Telephone No.: 204-896-1209 ext. 354

Email address: LMilius-alphonse@kgsgroup.comemail

D5. NOTICES

- D5.1 Except as provided for in C20.4, all notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the Contractor shall be sent to the address or facsimile number identified by the Contractor in Paragraph 2 of Form A: Bid.
- D5.2 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the City, except as expressly otherwise required in, D5.3 or elsewhere in the Contract, shall be sent to the attention of the Contract Administrator identified in D4.
- D5.3 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications required to be submitted or returned to the City Solicitor shall be sent to the following facsimile number:

The City of Winnipeg Legal Services Department Attn: Director of Legal Services Facsimile No.: 204 947-9155.

SUBMISSIONS

D6. AUTHORITY TO CARRY ON BUSINESS

D6.1 The Contractor shall be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, or if the Contractor does not carry on business in Manitoba, in the jurisdiction where the Contractor does carry on business, throughout the term of the Contract, and shall provide the Contract Administrator with evidence thereof upon request.

D7. OWNERSHIP OF INFORMATION, CONFIDENTIALITY AND NON DISCLOSURE

- D7.1 The Contract, all deliverables produced or developed, and information provided to or acquired by the Contractor are the property of the City and shall not be appropriated for the Contractors own use, or for the use of any third party.
- D7.2 The Contractor shall not make any public announcements or press releases regarding the Contract, without the prior written authorization of the Contract Administrator.
- D7.3 The following shall be confidential and shall not be disclosed by the Contractor to the media or any member of the public without the prior written authorization of the Contract Administrator;
 - (a) information provided to the Contractor by the City or acquired by the Contractor during the course of the Work;
 - (b) the Contract, all deliverables produced or developed; and
 - (c) any statement of fact or opinion regarding any aspect of the Contract.
- D7.4 A Contractor who violates any provision of D4.1 may be determined to be in breach of Contract.

D8. INSURANCE

- D8.1 The Contractor shall provide and maintain the following insurance coverage:
 - (a) commercial general liability insurance, in the amount of at least two million dollars (\$2,000,000.00) inclusive, with The City of Winnipeg added as an additional insured; such liability policy to also contain a cross-liability clause, non-owned automobile liability and products and completed operations cover, to remain in place at all times during the performance of the Work;
 - (b) if applicable, Automobile Liability Insurance covering all motor vehicles, owned and operated and used or to be used by the Contractor directly or indirectly in the performance of the Work. The Limit of Liability shall not be less than \$2,000,000 inclusive for loss or damage including personal injuries and death resulting from any one accident or occurrence.
- D8.2 Deductibles shall be borne by the Contractor.
- D8.3 The Contractor shall provide the Contract Administrator with a certificate(s) of insurance, in a form satisfactory to the City Solicitor, at least two (2) Business Days prior to the commencement of any Work but in no event later than the date specified in C4 for the return of the executed Contract Documents, as applicable.
- D8.4 The Contractor shall not cancel, materially alter, or cause the policy to lapse without providing at least thirty (30) Calendar Days prior written notice to the Contract Administrator.

SCHEDULE OF WORK

D9. COMMENCEMENT

- D9.1 The Contractor shall not commence any Work until he/she is in receipt of a notice of award from the City authorizing the commencement of the Work.
- D9.2 The Contractor shall not commence any Work until:
 - (a) the Contract Administrator has confirmed receipt and approval of:
 - (i) evidence of authority to carry on business specified in D7;
 - (ii) evidence of the workers compensation coverage specified in C6.16;
 - (iii) evidence of the insurance specified in D8.
 - (b) the Contractor has attended a meeting with the Contract Administrator, or the Contract Administrator has waived the requirement for a meeting.

D10. DELIVERY

D10.1 Goods shall be delivered by the dates specified below, f.o.b. destination, freight prepaid to:

Wastewater Services Division - Civil Maintenance Branch

598 Plinguet Street

Winnipeg, Manitoba, R2J 2W7

Attention: Trevor Steffens, Supervisor of Civil Maintenance

Ph: 204-986-4174

- D10.1.1 Wall thimbles, complete with all fastening hardware required for installation of the slide and flap gate thimbles must be delivered to the site indicated in D10.1 by December 14, 2020.
- D10.1.2 All remaining items must be delivered to the site indicated by January 29, 2021.
- D10.2 The Contractor shall confirm each delivery with the Contract Administrator or his/her designate, at least two (2) Business Days before delivery.
- D10.3 Shall be delivered between 8:30 a.m. and 4:30 p.m. on Business Days.
- D10.4 The Contractor shall off-load goods as directed at the delivery location at the direction of City personnel and the Contract Administrator. Unloading by crane, if required, will not be supplied by the City and the Contractor shall be responsible for providing safe unloading.

D11. LIQUIDATED DAMAGES

- D11.1 If the Contractor fails to achieve delivery of the goods within the time specified in D10.1.1 and D10.1.2, the Contractor shall pay the City five hundred dollars (\$500.00) per Calendar Day for each and every Calendar Day until the goods have been delivered.
- D11.2 The amount specified for liquidated damages in D11.1 is based on a genuine pre-estimate of the City's damages in the event that the Contractor does not achieve Delivery by the day fixed herein for same.
- D11.3 The City may reduce any payment to the Contractor by the amount of any liquidated damages assessed.

D12. COVID-19 SCHEDULE DELAYS

D12.1 The City acknowledges that the schedule for this Contract may be impacted by the COVID-19 pandemic. Commencement and progress of the Work shall be performed by the Contractor with due consideration to the health and safety of workers and the public and directives from

- health authorities and various levels of government, and in close consultation with the Contract Administrator.
- D12.2 If the Contractor is delayed in the performance of the Work by reason of the COVID-19 pandemic, the Work schedule may be adjusted by a period of time equal to the time lost due to such delay and costs related to such delay will be determined as identified herein.
- D12.3 A minimum of seven (7) Calendar Days prior to the commencement of Work, the Contractor shall declare whether COVID-19 will affect the start date. If the Contractor declares that COVID-19 will affect the start date, the Contractor shall provide sufficient evidence that the delay is directly related to COVID-19, including but not limited to evidence related to availability of staff, availability of Material or work by others.
- D12.4 For any delay related to COVID-19 and identified after Work has commenced, the Contractor shall within seven (7) Calendar Days of becoming aware of the anticipated delay declare the additional delay and shall provide sufficient evidence as indicated in D12.3. Failure to provide this notice will result in no additional time delays being considered by the City.
- D12.5 The Work schedule, including the durations identified in D11 where applicable, will be adjusted to reflect delays accepted by the Contract Administrator.
- D12.6 Any time or cost implications as a result of COVID-19 and in accordance with the above, as confirmed by the Contract Administrator, shall be documented in accordance with C7.

MEASUREMENT AND PAYMENT

D13. INVOICES

- D13.1 Further to C10, the Contractor shall submit an invoice for each order delivered to Administrator listed in D4.
- D13.2 Invoices must clearly indicate, as a minimum:
 - (a) the City's purchase order number;
 - (b) date of delivery:
 - (c) delivery address:
 - (d) type and quantity of goods delivered;
 - (e) the amount payable with GST, MRST, and any applicable environmental handling charges/fees identified and shown as separate amounts; and
 - (f) the Contractor's GST registration number.
- D13.3 The City will bear no responsibility for delays in approval of invoices which are improperly submitted.

D14. PAYMENT

D14.1 Further to C10, the City may at its option pay the Contractor by direct deposit to the Contractor's banking institution.

D15. PAYMENT SCHEDULE

- D15.1 Further to C10, payment shall be in accordance with the following payment schedule:
 - (a) Supply and Delivery in accordance with D10, for bid price of each specific Supply and Delivery items [Items 1 and 2 on Form B:Prices] as detailed below:
 - (i) Seventy (70) percent upon delivery. Note that Form 200 Certificate of Equipment Delivery must be executed for each gate by the Contractor prior to issuance of payment.

- (ii) Twenty (20) percent upon satisfactory completion of field testing and commissioning. Note that Form 203 Certificate of Equipment Satisfactory Performance must be executed for each gate by the Contractor prior to issuance of payment.
- (iii) Ten (10) percent upon delivery and acceptance of Operation and Maintenance Manuals.
- D15.2 In the event that equipment supplied under this Contract is not installed by others within sixty (60) Calendar days of the delivery dates set out in D10, through no fault of the Contractor, fifteen (15) percent of the bid price for each specific Supply and Delivery item [items 1 and 2 on Form B:Prices] will be paid out to the Contractor. The balance of payment for these items will be made upon successful testing and commissioning of the equipment in accordance with these Specifications.

WARRANTY

D16. WARRANTY

D16.1 Warranty is as stated in C11.

PART E - SPECIFICATIONS

GENERAL

E1. APPLICABLE SPECIFICATIONS AND DRAWINGS

- E1.1 These Specifications shall apply to the Work.
- E1.2 Bidders are reminded that requests for approval of substitutes as an approved equal or an approved alternate shall be made in accordance with B6. In every instance where a brand name or design specification is used, the City will also consider approved equals and/or approved alternatives in accordance with B6.

E2. GOODS

- E2.1 The Contractor shall supply the following equipment in accordance with the requirements hereinafter specified.
- E2.1.1 One (1) 1676mm x 1676mm (66"W x 66"H) Cast Iron Slide Gate, Cast-Iron Wall Thimble, Floor-Mounted Lift Operator and All Related Hardware.
- E2.1.2 One (1) 1981mm (78") Diameter Cast-Iron Flap Gate, Complete with Cast-Iron Wall Thimble.
- E2.2 The goods are to be manufactured in accordance with the requirements herein specified.
- E2.3 Equipment is intended for installation by others at the Canora Outfall Gate Chamber, located at 850 Palmerston Avenue (intersection of Canora and Palmerston) in the City of Winnipeg.
- E2.4 Inspection of installation, testing and commissioning services in accordance with the requirements herein specified.
- E2.5 The City of Winnipeg Standard Construction Specifications in its entirety, whether or not specifically listed on Form B: Prices, shall apply to the Work.
- E2.5.1 The City of Winnipeg Standard Construction Specifications is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at http://www.winnipeg.ca/matmgt/Spec/Default.stm
- E2.5.2 The version in effect three (3) Business Days before the Submission Deadline shall apply.
- E2.5.3 Further to C2.4(d), Specifications included in the Bid Opportunity shall govern over *The City of Winnipeg Standard Construction Specifications*.

E3. EXPEDITED SHOP DRAWINGS

- E3.1 In order to expedite Shop Drawings with critical timeliness, the lowest responsive bidder, as outlined in B17.3, will be permitted, after receiving written approval by the Contract Administrator, to arrange for the preparation of Shop Drawings for the following items:
 - (a) Cast Iron Slide Gate as indicated in E5.
 - (b) Cast Iron Flap Gate as indicated in E6.
- E3.2 If award is made to the lowest responsive bidder, no payment for the preparation of Shop Drawings will be made.
- E3.3 If no Contract is awarded, the City of Winnipeg will pay the requested Bidder up to a maximum of five hundred dollars (\$500.00) for each of the requested submissions noted above, for the preparation and delivery of Shop Drawings. Delivery of the Shop Drawings to the City and payment of the above amounts will constitute full and final consideration of each party to the

other, and neither party will have any further liability to the other with respect to this Bid Opportunity.

E4. SHOP DRAWINGS

E4.1 Description

- (a) This Specification shall revise, amend and supplement the requirements of CW1110 of the City of Winnipeg's Standard Construction Specifications.
 - (i) The term 'shop drawings' means drawings, diagrams, illustrations, schedules, performance charts, brochures, and other data, including site erection drawings which are to be provided by the Contractor to illustrate details of a portion of the work.
 - (ii) The Contractor shall submit specified shop drawings to the Contract Administrator for review. All submissions must be in metric units. Where data is in imperial units, the correct metric equivalent shall also be on all submissions for Engineering review.
 - (iii) Provision of Shop Drawings will be considered incidental to the price for supply and delivery of equipment and materials.

(b) Shop Drawings

(i) Original drawings are to be prepared by Contractor, Subcontractor, supplier, distributor, or manufacturer, which illustrate appropriate portion of work; showing fabrication, layout, setting or erection details as specified in appropriate sections.

(c) Contractor's Responsibilities

- (i) Review shop drawings, product data and samples prior to submission and stamp and sign drawings indicating conformance to the Contract requirements.
- (ii) Verify:
 - (i) Field Measurements
 - (ii) Field Construction criteria
 - (iii) Catalogue numbers and similar data
- (iii) Coordinate each submission with requirements of Work and Contract Documents. Individual shop drawings will not be reviewed until all related drawings are available.
- (iv) Notify Contract Administrator, in writing at time of submission, of deviations from requirements of Contract Documents.
- (v) Responsibility for deviations in submission from requirements of Contract Documents is not relieved by Contract Administrator's review of submission, unless the Contract Administrator gives written acceptance of specified deviations.
- (vi) Responsibility for errors and omissions in submission is not relieved by the Contract Administrator's review of submittals.
- (vii) The Contractor shall make any corrections required by the Contract Administrator and shall resubmit the required number of corrected copies of Shop Drawings. The Contractor shall direct specific attention in writing or on resubmitted Shop Drawings to revisions other than the corrections requested by the Contract Administrator on the previous submission.
- (viii) After Contract Administrator's review and return of copies, distribute copies to subtrades as required.
- (ix) Maintain one (1) complete set of reviewed shop drawings, filed by Specification Section Number, at the site of the work for use and reference of the Contract Administrator and Subcontractors.

(d) Submission Requirements

(i) Schedule submissions at least seven (7) Calendar days before dates reviewed submissions will be needed, and allow for a seven (7) Calendar day period for review by the Contract Administrator of each individual submission and resubmission, unless noted otherwise in the Contract Documents.

- (ii) Submit copies of the shop drawings in high-resolution electronic pdf format to ensure all small type fonts are legible on scanned copies.
- (iii) Accompany submissions with transmittal letter, containing:
 - (i) Date
 - (ii) Project title and Bid Opportunity Number
 - (iii) Contractor's name and address
 - (iv) Number of each shop drawing, product data and sample submitted
 - (v) Specification Section, Title, Number and Clause
 - (vi) Drawing Number and Detail/ Section Number
 - (vii) Other pertinent data
- (iv) Submission shall Include:
 - (i) Date and revision dates.
 - (ii) Project title and Bid Opportunity number.
 - (iii) Name of:
 - (i) Contractor
 - (ii) Subcontractor
 - (iii) supplier
 - (iv) manufacturer
 - (v) separate detailer when pertinent
 - (iv) Identification of product of material.
 - (v) Relation to adjacent structure or materials.
 - (vi) Field dimensions, clearly identified as such.
 - (vii) Specification section name, number and clause number or drawing number and detail/section number.
 - (viii) Applicable standards, such as CSA or CGSB numbers.
 - (ix) Contractor's stamp, initialled or signed, certifying review of submission, verification of field measurements and compliance with Contract Documents.

(e) Other Considerations

- Fabrication, erection, installation or commissioning may require modifications to equipment or systems to conform to the design intent. Revise pertinent Shop Drawings and resubmit.
- (ii) Material and equipment delivered to the site of the works will not be paid for at least until pertinent Shop Drawings have been submitted and reviewed.
- (iii) Incomplete Shop Drawing information will be considered as stipulated deductions for the purposes of progress payment certificates.
- (iv) No delay or cost claims will be allowed that arise because of delays in submission, re-submissions and review of Shop Drawings.

E4.2 Measurements and Payment

(i) Preparation and submittal of Shop Drawings shall be considered incidental to the Works of this Contract and no measurement or payment will be made for this item.

E5. CAST IRON SLIDE GATE

E5.1 Description

This specification shall cover the supply, delivery, inspection of installation (as described in E8) and testing of cast iron slide gate, wall thimble, mechanical lift operator, stems, wall brackets and mechanical accessories.

E5.2 Submittals

- E5.2.1 Submit shop drawings of cast iron slide gate, wall thimble, mechanical lift operator, stems, wall brackets, and accessories in accordance with E8.
- E5.2.2 Submit Operating and Maintenance Manuals in accordance with E8.

Provide five (5) copies of all the manufacturer's brochures and technical literature detailing correct installation procedure and recommended operating and maintenance instructions. Manuals shall be bound with the project title and gate description identified on the front cover. One set of manuals shall be provided for each size of gate. Final payment for slide gates will not be made until the above information has been provided to the Contract Administrator.

- E5.2.3 Provide the following information to the Contract Administrator prior to the delivery of slide gate and operator assemblies in accordance with E4.
 - (a) A certified copy of the Chemical and Physical Analysis on all materials used in the manufacture of the slide gate, wall thimbles, stems, operator and accessories or certification that the materials used are in strict accordance with this specification.
 - (b) Copies of the shop test reports for Performance and Leakage tests. Included on the report shall be the signature of the official who is responsible for the gate assembly and testing.

E5.3 General Design

- (a) Specification Standard: AWWA C560-14
- (b) Gate Opening Size: 1676mm X 1676mm (66" W x 66"H)
- (c) Mounting: Type F wall thimble, suitable for a 304mm (12") thick concrete wall.
- (d) Seating Head: Maximum design seating head will be a maximum of 8.600 meters as measured from the horizontal centerline of the gate to the top of the gate chamber roof.
- (e) Unseating Head: Maximum design unseating head shall be 4 meters.
- (f) Operator and Lift: Enclosed rising stem mechanical gear lift with pedestal. Gear lift shall be furnished with an AWWA 50x50 operating nut. The lift nut shall be turned counterclockwise to open the gate. The operator shall have a weather-resistant label indicating the direction of nut rotation to open the gate.
- (g) Stem Cover: Gear lift to be complete with stem cover with acrylic window with gradations in 152 mm (6") increments for the entire range of gate operation.
- (h) Stem: The stainless steel stem shall be designed so the slenderness ratio (kL/r) does not exceed 150.
- (i) Stem Guides: Adjustable in both horizontal and vertical directions.
- (j) Acceptable Leakage as per AWWA C560-14.
- (k) Butyl rubber mastic shall be used to form a seal between the frame and thimble.
- (I) Paint: Frame and gate shall be surface prepared to SSPC-SP10 (near-white blast) and painted with two coats of Intergard FP, Amerlock 2 Epoxy Coating or an approved equivalent high-build epoxy coating in accordance with B6. Epoxy coatings shall be 150 μm per coat dry film thickness. Above-ground components exposed to sunlight shall be coated with one finish coat of polyurethane enamel. Polyurethane enamel coatings shall be 100 μm per coat dry film thickness.
- (m) Quantity and spacing of fasteners shall be as recommended by the gate manufacturer.
- (n) The slide gate shall be as manufactured by Hydro Gate, Rodney Hunt, Waterman or approved equivalent in accordance with B6.
- (o) Field touch-up chips and scratches of the cast-iron gate coating system shall be completed with coating(s) to match the shop applied coating(s).

- Template Version: Goods Main 20200131
 - (a) Frame, Slide, guides and yoke: ASTM A48 Cast Iron (Class 30) or ASTM A126 Cast Iron (Class B)
 - (b) Seating Faces: ASTM B21 Naval Bronze, Alloy 482 or ASTM B98, Alloy 655
 - (c) Wall Thimble: ASTM A48 Cast Iron (Class 30) or ASTM A126 Cast Iron (Class B)
 - (d) Wedges: ASTM B584 Manganese Bronze, Alloy 865
 - (e) Wedge Blocks: ASTM A48 Cast Iron (Class 30) or ASTM A126 Cast Iron (Class B)
 - (f) Fasteners & Anchors: ASTM A276 Type 316 Stainless Steel
 - (g) Hardware: ASTM F593 Type 316 Stainless Steel
 - (h) Stem: ASTM A276 Type 304 Stainless Steel
 - Stem Couplings: ASTM A276 Type 304 Stainless Steel or ASTM B584 Bronze, Alloy 873.
 - (j) Stem Guide: ASTM A48 Cast Iron (Class 30) or ASTM A126 Cast Iron (Class B) with Bronze bushings
 - (k) Operator Pedestal: ASTM A48 Cast Iron (Class 30) or ASTM A126 Cast Iron (Class B) or Steel
 - (I) Stem Cover: Aluminum or Galvanized Steel.
 - (m) Shop Drawings
 - Submit shop drawings of the wall thimble, cast iron slide gate, mechanical lift operator, stems, wall brackets and accessories in accordance with E4 of this specification.
 - (n) Operating and Maintenance Manuals
 - (i) Provide five (5) hard copies of all the manufacturer's brochures and technical literature detailing correct installation procedures and recommended operating and maintenance instructions. Manuals shall be bound with the project title and gate description identified on the front cover. Final payment for slide gates will not be made until the above information has been provided to the Contract Administrator.

(o) Delivery and Shipping

- (i) The Contract Administrator will examine the wall thimble, slide gate assembly, frame, stem, operator and accessories upon delivery and will reject any equipment that is found to be damaged to the extent that, in the Contract Administrator's opinion, it cannot be put to the use for which it was intended. The Contractor shall arrange with the gate supplier to repair any superficially damaged equipment to the satisfaction of the Contract Administrator.
- (ii) It shall be the responsibility of the Contractor to negotiate any claims for damage with the carrier and to make arrangements to have any rejected equipment replaced as soon as possible at no extra expense to the City.

(p) Shop Testing

(i) The fully assembled gate shall be shop inspected, adjusted and tested for operation and leakage at the design head before shipping.

(q) Field Testing

- (i) The Contractor shall coordinate and arrange for a qualified field representative of the slide gate supplier/manufacturer to be present prior to and during field testing. The field representative shall complete required adjustments prior to field testing. If the gate fails the field leakage test, the field representative shall undertake adjustments, replacements or other modifications prior to repeating the test. The sequence shall be repeated until the gate passes the allowable leakage test. The City shall incur no additional costs for adjustments undertaken due to misalignment of the slide gate wedges and seats.
- (ii) The Slide Gate will be installed by others (Installation Contractor) and the Installation Contractor will be responsible for provision of field testing at the time of installation.

Installation of the slide gate is tentatively scheduled to be completed by February 28, 2021.

E5.5 Measurement and Payment

E5.5.1 Supply and delivery of a cast iron slide gate, cast iron wall thimble, stem(s), wall bracket(s) and all related appurtenances will be measured and paid for at the Contract Lump Sum Price for "1676mm X 1676mm (66"W x 66"H) Cast-Iron Slide Gate, Cast-Iron Wall Thimble, and All Related Hardware", executed in accordance with this specification and accepted by the Contract Administrator.

E6. CAST IRON FLAP GATE

E6.1 Description

This specification shall cover the supply, delivery, inspection of installation (as described in E7) and testing of a cast iron flap gate and associated mechanical accessories.

E6.2 General Design

- (a) Type: Flange Back for mounting on a wall thimble.
- (b) Gate Size: 1981mm (78") diameter.
- (c) Mounting: Type F cast-iron wall thimble suitable for embedding into a 300mm thick concrete wall.
- (d) Seating Head: Maximum design seating head will be 8.600 meters as measured from centreline of the gate to the top of the chamber.
- (e) Cover: One piece cast-iron with lifting eye for manual operation.
- (f) Seat: Raised brass surface and inclined to assure positive closure. Resilient/rubber seats will not be accepted.
- (g) Links: Complete with grease nipples at pivot points and adjusting screws to align seating faces.
- (h) Pivot Lugs: One-piece ductile-iron adjustable in the horizontal plane without removal of cover, complete with grease nipples.
- (i) Acceptable leakage: 1.24 litres per meter of seated perimeter.
- (j) Paint: Frame and cover shall surface prepared to SSPC-SP10 (near-white blast) and painted with two coats of International Paints – Intergard FP, or Amerlock 2 Epoxy coating, 125-150 μm per coat dry film thickness.
- (k) The flap gate shall be manufactured by Waterman, Rodney Hunt, Hydro Gate or an approved equal in accordance with B6.

E6.3 Materials

- (a) Cast-Iron Pieces: ASTM A48 Cast Iron (Class 30) or ASTM A126 Cast Iron (Class B)
- (b) Seating Faces: ASTM B21 Bronze (Alloy 482) or ASTM B98 Bronze (Alloy 651)
- (c) Links: ASTM A536 Ductile Iron or ASTM A276 Stainless Steel (Type 316)
- (d) Bushings: ASTM B584 Bronze (Alloy 932)
- (e) Hinge Pins: ASTM A276 Stainless Steel (Type 316) or B98 Bronze (Alloy 655)
- (f) Fasteners: ASTM A276 Stainless Steel (Type 316)
- (g) Grease Nipples: Stainless Steel
- (h) Shop Drawings
 - Submit Shop Drawings of cast-iron flap gate and wall thimble in accordance with E4 of this specification.
- (i) Operating and Maintenance Manuals

(i) Provide five (5) copies of all the manufacturer's brochures and technical literature detailing correct installation procedures and recommended operating and maintenance instructions. Manuals shall be bound with the project title and gate description identified on the front cover. Final payment for flap gates will not be made until the above information has been provided to the Contract Administrator.

(j) Delivery and Shipping

- (i) The Contract Administrator will examine the flap gate assembly and wall thimble and will reject any equipment that is found to be damaged to the extent that, in the Contract Administrator's opinion, it cannot be put to the use for which it was intended. The Contractor shall arrange with the gate supplier to repair any superficially damaged equipment to the satisfaction of the Contract Administrator.
- (ii) It shall be the responsibility of the Contractor to negotiate any claims for damage with the carrier and to make arrangements to have any rejected equipment replaced as soon as possible at no extra expense to the City.

(k) Shop Testing

- (i) The fully assembled gate shall be shop inspected, adjusted and tested for operation and leakage at the design head before shipping.
- (ii) Provide the following information to the Contract Administrator prior to delivery of the slide gate and operator assemblies:
- (iii) A certified copy of the Chemical and Physical Analysis on all materials used or certification that the materials used are in strict accordance with this specification.
- (iv) Copies of the test reports for Performance and Leakage tests. Included on the report shall be the signature of the official who is responsible for the gate assembly and testing.

(I) Field Testing

- (iii) The Contractor shall coordinate and arrange for a qualified field representative of the slide gate supplier/manufacturer to be present prior to and during field testing. The field representative shall complete required adjustments prior to field testing. If the gate fails the field leakage test, the field representative shall undertake adjustments, replacements or other modifications prior to repeating the test. The sequence shall be repeated until the gate passes the allowable leakage test.
- (iv) The Flap Gate will be installed by others (Installation Contractor) and the Installation Contractor will be responsible for provision of field testing at the time of installation. Installation of the slide gate is tentatively scheduled to be completed by February 28, 2021.

E6.4 Measurement and Payment

E6.4.1 Supply and delivery of a cast iron flap gate, embedded wall thimble and all related appurtenances will be measured and paid for at the Contract Lump Sum Price for "1981mm (78") Diameter Cast-Iron Flap Gate, Complete with Cast-Iron Wall Thimble", executed in accordance with this specification and accepted by the Contract Administrator.

E7. INSPECTION OF INSTALLATION OF EQUIPMENT

E7.1 General

- (a) The equipment will be installed by the Installation Contractor forces at a later date (winter/spring of 2021) and the supply Contractor (the Contractor) will be required to provide a qualified technical representative to:
 - (i) Provide training for the installation of the equipment,
 - (ii) Inspect the installation of the equipment,
 - (iii) Be present during the field testing of the equipment,
 - (iv) Provide training to City personnel in the operation and maintenance of the equipment, and

(v) Supervise commissioning.

- E7.2 The Contractor shall attend a turn over inspection with the Contract Administrator and the Installation Contractor, at which time the care and control of the equipment will be assumed by the Installation Contractor. The Contractor shall sign Form 200 Certificate of Equipment Delivery, attached in Part F, indicating equipment has been turned over in satisfactory condition.
- E7.3 Unless otherwise specifically stated in the Specifications, the Contractor shall provide, and shall allow for in his Bid, a factory-trained representative who, in conjunction with the Contract Administrator, shall give instructions regarding the installation of the equipment. The Contractors representative shall complete Form 201 Certificate of Instruction, attached in Part F, when he is satisfied that the Installation Contractor has received adequate instruction in the installation of the Contractor's equipment. The completed Form 201 shall be submitted to the Contract Administrator prior to the commencement of equipment installation.
- E7.4 The Contractor's factory trained representative shall visit the site as required to ensure that the installation work is being performed in a proper and workmanlike manner. The Contractor's representative shall complete Form 202 Certificate of Satisfactory Installation, attached in Part F, following installation of the equipment. The completed Form 202 shall be submitted to the Contract Administrator prior to the commencement of leakage testing.
- E7.5 The Contractor's representative shall be present to supervise the commissioning, initial operation and leakage testing of the equipment. The Contractor shall be required to complete Form 203 Certificate of Equipment Satisfactory Performance, attached in Part F, stating that his qualified representative has checked the installed equipment and found the equipment to be satisfactorily installed and in specified working operation. The completed Form 203 shall be received by the Contract Administrator prior to the commencement of the Warranty period. The scheduling of the Contractor's factory-trained representative's visits to the site shall be to the mutual satisfaction of the Contractor and the Installation Contractor, and shall be agreed upon before the work of installing the equipment begins. The Contractor shall allow for a minimum of one (1) full Working Day at the site for commissioning.
- E7.6 If the Contractor is requested by the Installation Contractor or the Contract Administrator to send a representative to the jobsite to investigate or rectify a suspected fault in the equipment furnished by the Contractor but it is found that the said equipment or Contractor is not at fault, the Contractor shall be entitled to be reimbursed for all reasonable costs and expenses incurred by him in sending his representative to the jobsite, at the per diem rate listed in Form B Prices.
- E7.7 Operating equipment and systems shall be performance tested by the Contractor in the presence of the Contract Administrator to demonstrate compliance with the specified operating requirements. Functional testing shall be conducted under the specified design operating conditions or under such simulated operating conditions as recommended or approved by the Contract Administrator.
- E7.8 The Contractor shall provide training to City staff in accordance with E9. Form 204 Certificate of Training shall not be issued until after training has been provided to the satisfaction of the City.
- E7.9 Immediately following issuance of Form 204 Certificate of Training, the City reserves the right to operate this equipment to suit system requirements.
- E7.10 Measurement and Payment
- E7.10.1 Inspection of installation of the cast-iron slide gate, cast-iron flap gate, embedded wall thimble and all related accessories will be measured and paid for at the Contract Unit Rate Price for "Inspection, testing and commissioning services," executed in accordance with this specification and accepted by the Contract Administrator.
- E7.10.2 As stated in E7.6, additional Site Visits by the Contractor not included in E7.10.1, will be measured and paid for at the Contract Unit Rate Price for "Additional site inspections services (as requested) per diem," executed in accordance with this specification and accepted by the Contract Administrator.

E8. OPERATION AND MAINTENANCE MANUALS INCLUDING SPARE PARTS LIST

- E8.1 For each type of equipment, five (5) sets of Operation and Maintenance Manuals shall be submitted to the Contract Administrator for review. The Contractor shall provide these manuals ten (10) Calendar Days in advance before commencement of equipment start up and commissioning. Provision of Operation and Maintenance Manuals shall be considered incidental to the price paid for supply of equipment.
- E8.2 All instructions in these manuals shall be in the English language to guide the City in the proper operation and maintenance of the equipment.
- E8.3 Bind contents in a three (3) -"D-Ring", hard-covered, plastic-jacketed binder with full cover and spine insert. Organize contents into applicable sections of work, parallel to Specifications breakdown.
- E8.4 Provide all required data in electronic format. Text documents shall be Microsoft Word or Adobe format. Drawings, scanned documents, parts lists, test forms shall be in Adobe format. If possible, documents shall be an original electronic format. Documents that require scanning shall be high quality scans and fully legible. Documents shall be submitted on a high quality portable USB memory device. Portable USB memory device shall be labelled in type, with the following;
 - (a) Bid Opportunity Number;
 - (b) Job Title, and
 - (c) Description of Equipment.
- E8.5 In addition to the information called for in the Specifications, the following shall be included:
 - (a) Title sheet, labelled "Operation and Maintenance Instructions", containing project name and date;
 - (b) List of contents;
 - (c) Reviewed shop drawings of all equipment;
 - (d) Certified factory test results;
 - (e) Names, addresses, and telephone numbers of all major sub-contractors and suppliers;
 - (f) Detailed specification and operation and maintenance instructions for all items of equipment provided including a preventative maintenance program;
 - (g) An itemized list of spare parts recommended for five years of services, particularly those components where failure of which will render the equipment supplied inoperable. Any special tools or other ancillary items necessary for commissioning and/or proper operation and maintenance shall also be listed. These prices shall be available to the City at any time prior to the issuance of the Certificate of Acceptance;
 - (h) Part books that illustrate and list all assemblies, sub-assemblies, and components.
 - (i) Routine test procedures;
 - Troubleshooting chart showing description of trouble, probable cause and suggested remedy.
- E8.6 The Contractor shall modify and supplement the manual as required by the Contract Administrator. When accepted, five (5) additional copies, including electronic versions, shall be provided by the Contractor for distribution purposes. The City's staff shall be in receipt of these manuals prior to the date set out for Substantial Performance. The Contract shall not be considered complete, for the purpose of issuing a Certificate of Substantial Performance, until the above manuals have been completed and submitted to the satisfaction of the Contract Administrator.
- E8.7 Measurement and Payment

E8.7.1 Supply and delivery of operation and maintenance manuals including spare parts lists shall be considered incidental to the Works of this Contract and should be included in the associated price for "Inspection, Testing and Commissioning Services." No direct measurement or payment will be made for this item.

E9. TRAINING

- E9.1 The Contractor shall include costs for providing training to City staff by a factory-trained representative on the operation and maintenance of the equipment.
- E9.2 If requested by the Contract Administrator, training for the equipment shall be conducted before the operation period as described in Form 203 Certificate of Equipment Satisfactory Performance. The training session shall be conducted on-site, in conjunction with commissioning. The Contractor shall provide a qualified instructor as well as the necessary course materials.
- E9.3 At the request of the Contract Administrator, training shall be provided in one session for operation and maintenance staff. The training shall cover operation and maintenance.
- E9.4 If requested by the Contract Administrator, training shall be completed in conjunction with commissioning of the equipment. The Contract shall not be considered complete until the training has been provided and Form 204 Certificate of Training has been signed.
- E9.4.1 Further to E10.4, if the Contract Administrator waives the requirement of training, submission of Form 204 Certificate of Training will not be required.
- E9.5 Measurement and Payment
- E9.5.1 Training of City staff will be measured and paid for at the Contract Unit Rate Price for "Training of City Staff (as requested)," executed in accordance with this specification and accepted by the Contract Administrator.

PART F - FORMS

F1.	FORM 200	CERTIFICATE OF EQUIPMENT DELIVERY
F2.	FORM 201	CERTIFICATE OF INSTRUCTION
F3.	FORM 202	CERTIFICATE OF SATISFACTORY INSTALLATION
F4.	FORM 203	CERTIFICATE OF EQUIPMENT SATISFACTORY PERFORMANCE
F5.	FORM 204	CERTIFICATE OF TRAINING

FORM 200:

CERTIFICATE OF EQUIPMENT DELIVERY

We certify that the equipment listed below has been delivered into the care of the Installation Contractor. The equipment has been found to be in satisfactory condition and meets its Basic Design Criteria. No defects in the equipment were found:

Project:		
Item of Equipment:		
Tag No.:		
Reference Specification:		
(Authorized Signing Representat	ive of the Installation Contractor)	(Date)
(Authorized Signing Representat	ive of the Contractor)	(Date)
	,	
(Authorized Signing Representat	ive of the Contract Administrator)	(Date)

FORM 201:

CERTIFICATE OF INSTRUCTION

I have completed instruction of the installation of the equipment listed below:	:
Project:	
Item of Equipment:	
Tag No.:	
Reference Specification:	
(Authorized Signing Representative of the Contractor)	(Date)
I certify that the party responsible for the installation of the equipment listed a instructions from the Contractor.	above has received
(Authorized Signing Representative of the Installation Contractor)	(Date)
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FORM 202:

CERTIFICATE OF SATISFACTORY INSTALLATION

I have completed an inspection of the installation listed below and confirm that it is satisfactory and that defects have been remedied to my satisfaction except as noted below:

Project:		
Item of Equipment:		
Tag No.:		
Reference Specification:		
Outstanding Defects:		
/Authorized Ciening Decree	otive of the Courtractor)	(Data)
(Authorized Signing Representation	alive of the Contractor)	(Date)

FORM 203:

CERTIFICATE OF EQUIPMENT SATISFACTORY PERFORMANCE

We certify that the equipment listed below has been validated and has been operated satisfactorily and met its Basic Design Criteria. No defects in the equipment were found. The equipment is therefore classed as conforming to the Contract Specifications.

Project:		
		
Item of Equipment:		
Tag No.:		
Reference Specification:		
(Authorized Signing Represent	ative of the Installation Contractor)	(Date)
(Authorized Signing Represent	ative of the Contractor)	(Date)
(Authorized Digning Represent	auve of the contractory	(Date)
(Authorized Signing Represent	ative of the Contract Administrator)	(Date)

FORM 204:

CERTIFICATE OF TRAINING

We certify that we have received the appropriate training in the operation and maintenance of the supplied equipment in accordance with these Specifications.

Project:			
Item of Equipment:			
Tag No.:			
Reference Specification:			
(Authorized Signing Represent	ative of the Installation Contractor)	(Date)	
(Authorized Signing Represent	ative of the Contractor)	(Date)	
(Authorized Signing Represent	ative of the Contract Administrator)	(Date)	