



THE CITY OF WINNIPEG

BID OPPORTUNITY

BID OPPORTUNITY NO. 634-2017

**REHABILITATION OF PUBLIC WATER SERVICE OUTLETS: PAVEMENT WORKS,
BUILDING SUPPLY AND REPAIRS, DEMOLITION AND ELECTRICAL**

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PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

B1.1 REHABILITATION OF PUBLIC WATER SERVICE OUTLETS: PAVEMENT WORKS, BUILDING SUPPLY AND REPAIRS, DEMOLITION AND ELECTRICAL

B2. SUBMISSION DEADLINE

B2.1 The Submission Deadline is 4:00 P.M. Winnipeg time, January 9, 2018.

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. SITE INVESTIGATION

B3.1 Further to C3.1, a Site Investigation of the McCarthy Street (Portage Avenue west of Perimeter Highway) and Chevrier Boulevard (1539 Waverly Street) will be held on:

(a) January 3, 2018

(i) 10:00 A.M. at Chevrier Boulevard (1539 Waverley Street)

(ii) 11:00 A.M. at McCarthy Street (Portage Avenue west of Perimeter Highway)

B3.2 The Bidder shall not be entitled to rely on any information or interpretation received at the Site Investigation unless that information or interpretation is the Bidder's direct observation, or is provided by the Contract Administrator identified in D3.1 (Contract Administrator) in writing.

B3.3 Although attendance at the Site Investigation is not mandatory, the City strongly suggests that Bidders attend.

B3.4 CSA approved safety footwear, high visibility vest, and a hardhat are required for all personnel attending the Site Investigation.

B4. ENQUIRIES

B4.1 All enquiries shall be directed to the Contract Administrator.

B4.2 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 notify the Contract Administrator of the error, discrepancy or omission, or request a clarification as to the meaning or intent of the provision at least five (5) Business Days prior to the Submission Deadline.

B4.3 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.

B4.4 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.

B4.5 The Bidder shall not be entitled to rely on any response or interpretation received pursuant to B4 unless that response or interpretation is provided by the Contract Administrator in writing.

B5. CONFIDENTIALITY

- B5.1 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.
- B5.2 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.

B6. ADDENDA

- B6.1 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.
- B6.2 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.
- B6.2.1 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/bidopplasp>
- B6.2.2 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.
- B6.3 The Bidder shall acknowledge receipt of each addendum in Paragraph 8 of Form A: Bid. Failure to acknowledge receipt of an addendum may render a Bid non-responsive.

B7. SUBSTITUTES

- B7.1 The Work is based on the Plant, Materials and methods specified in the Bid Opportunity.
- B7.2 Substitutions shall not be allowed unless application has been made to and prior approval has been granted by the Contract Administrator in writing.
- B7.3 Requests for approval of a substitute will not be considered unless received in writing by the Contract Administrator at least five (5) Business Days prior to the Submission Deadline.
- B7.4 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 Plant, Material or method 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 proposed work schedule and the dates specified in the Supplemental Conditions for Substantial Performance and Total Performance;

(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 proposed work schedule and the dates specified in the Supplemental Conditions for Substantial Performance and Total Performance.

B7.5 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.

B7.6 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.

B7.6.1 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.

B7.7 If the Contract Administrator approves a substitute as an "approved equal", any Bidder may use the approved equal in place of the specified item.

B7.8 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.

B7.9 No later claim by the Contractor for an addition to the Total Bid Price because of any other changes in the Work necessitated by the use of an approved equal or an approved alternative will be considered.

B8. BID COMPONENTS

B8.1 The Bid shall consist of the following components:

- (a) Form A: Bid;
- (b) Form B: Prices;

B8.2 Further to B8.1, the Bidder should include the written correspondence from the Contract Administrator approving a substitute in accordance with B7.

B8.3 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.

B8.4 The Bid Submission may be submitted by mail, courier or personal delivery, or by facsimile transmission.

B8.4.1 Bids submitted by internet electronic mail (e-mail) will not be accepted.

B8.5 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**

B8.5.1 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.

- B8.6 Bidders are advised not to include any information/literature except as requested in accordance with B8.1.
- B8.7 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).
- B8.7.1 The Bidder is advised that the City cannot take responsibility for the availability of the facsimile machine at any time.
- B8.8 Bidders are advised not to include any information/literature except as requested in accordance with B8.1.
- B8.9 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).
- B8.9.1 Bids submitted by internet electronic mail (e-mail) will not be accepted.

B9. BID

- B9.1 The Bidder shall complete Form A: Bid, making all required entries.
- B9.2 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.
- B9.2.1 If a Bid is submitted jointly by two (2) or more persons, each and all such persons shall identify themselves in accordance with B9.2.
- B9.3 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.
- B9.4 Paragraph 10 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.
- B9.4.1 The name and official capacity of all individuals signing Form A: Bid should be printed below such signatures.
- B9.4.2 All signatures shall be original.
- B9.5 If a Bid is submitted jointly by two (2) 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.

B10. PRICES

B10.1 The Bidder shall state the lump sum price in Canadian funds for the Work on Form B: Prices.

B10.1.1 Notwithstanding C12.2.3(c), prices on Form B: Prices shall not include the Manitoba Retail Sales Tax (MRST, also known as PST), which shall be extra where applicable.

B10.2 Payments to Non-Resident Contractors are subject to Non-Resident Withholding Tax pursuant to the Income Tax Act (Canada).

B11. DISCLOSURE

B11.1 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.

B11.2 The Persons are:

- (a) KB Technology Sales Ltd.
- (b) Flowpoint Environmental Systems

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; 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 <http://www.winnipeg.ca/matmgt/debar.stm>

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 Further to B12.3(c), the Bidder shall, within five (5) Business Days of a request by the Contract Administrator, provide proof satisfactory to the Contract Administrator that the Bidder/Subcontractor has a workplace safety and health program meeting the requirements of The Workplace Safety and Health Act (Manitoba), by providing:

- (a) Written confirmation of a safety and health certification meeting SAFE Work Manitoba's SAFE Work Certified Standard (e.g., COR™ and SECOR™) or
 - (i) a copy of their valid Manitoba COR certificate and Letter of Good Standing (or Manitoba equivalency) as issued under the Certificate of Recognition (COR)

- Program administered by the Construction Safety Association of Manitoba or by the Manitoba Heavy Construction Association's WORKSAFELY™ COR™ Program; or
- (ii) a copy of their valid Manitoba SECOR™ certificate and Letter of Good Standing (or Manitoba equivalency) as issued under the Small Employer Certificate of Recognition Program (SECOR™) administered by the Construction Safety Association of Manitoba or by the Manitoba Heavy Construction Association's WORKSAFELY™ COR™ Program or
- (b) a report or letter to that effect from an independent reviewer acceptable to the City. (A list of acceptable reviewers and the review template are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/>.)
- B12.5 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.
- B12.6 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) 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) 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).
- B14. IRREVOCABLE BID**
- B14.1 The Bid(s) submitted by the Bidder shall be irrevocable for the time period specified in Paragraph 9 of Form A: Bid.
- B14.2 The acceptance by the City of any Bid shall not release the Bids of the next two (2) lowest evaluated responsive Bidders and these Bidders shall be bound by their Bids on such Work for the time period specified in Paragraph 9 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 C23.3, 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 10 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 10 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 there from (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 B7.
- B16.2 Further to B16.1(a), the Award Authority may reject a Bid as being non-responsive if the Bid 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 responsible and qualified.
- B16.4 Further to B16.1(c), the Total Bid Price shall be the lump sum price shown on Form B: Prices.

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 responsible and 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 responsible and 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, as defined in C1.1, in its entirety shall be deemed to be incorporated in and to form a part of the Purchase Order notwithstanding that it is not necessarily attached to or accompany said Purchase Order.

PART C - GENERAL CONDITIONS

C1. GENERAL CONDITIONS

- C1.1 The *General Conditions for Construction* (Revision 2006 12 15) are applicable to the Work of the Contract.
- C1.1.1 The *General Conditions for Construction* 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
- C1.2 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 Construction*.

PART D - SUPPLEMENTAL CONDITIONS

GENERAL

D1. GENERAL CONDITIONS

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

D2. SCOPE OF WORK

- (a) The Work to be done under the Contract shall consist of the rehabilitation of the public water service outlet at the Chevrier Boulevard location and replacement of the public water service outlet at the McCarthy Street location.
- (b) One public water service outlet is to be functional at all times.

D2.2 The major components of the Work are as follows:

- (a) Chevrier Boulevard Location:
 - (i) Demolish existing and install new concrete road works
 - (ii) Perform public water service outlet exterior repairs
 - (iii) Supply and install new buried electrical service
 - (iv) Supply and install a remote monitoring system for the public water service outlet
 - (v) Supply and install new public water service outlet billing system
 - (vi) Supply and install new electric heat trace system for snow and ice melting
 - (vii) Demolish existing overhead water delivery system
 - (viii) Supply and install new pressure sensor within the public water service outlet
 - (ix) Supply and install new site area lighting
- (b) McCarthy Street Location:
 - (i) Demolish public water service outlet structure and overhead water delivery system
 - (ii) Demolish existing and install new asphalt pad
 - (iii) Install new concrete foundation for new public water service outlet
 - (iv) Supply and install new prefabricated public water service outlet
 - (v) Supply and install new overhead electrical service
 - (vi) Connections to water supply and sewer
 - (vii) Supply and install a remote monitoring system for the public water service outlet
 - (viii) Supply and install new public water service outlet billing system
 - (ix) Supply and install new site area lighting

D3. CONTRACT ADMINISTRATOR

D3.1 The Contract Administrator is Dillon Consulting Limited, represented by:

Blair Moore, P.Eng.
Associate

Telephone No. (204) 453-2301

Email Address bmoore@dillon.ca

D3.2 At the pre-construction meeting, Blair Moore will identify additional personnel representing the Contract Administrator and their respective roles and responsibilities for the Work.

D4. CONTRACTOR'S SUPERVISOR

D4.1 At the pre-construction meeting, the Contractor shall identify his/her designated supervisor and any additional personnel representing the Contractor and their respective roles and responsibilities for the Work.

D5. OWNERSHIP OF INFORMATION, CONFIDENTIALITY AND NON DISCLOSURE

D5.1 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.

D5.2 The Contractor shall not make any public announcements or press releases regarding the Contract, without the prior written authorization of the Contract Administrator.

D5.3 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.

D5.4 A Contractor who violates any provision of D5 may be determined to be in breach of Contract.

D5.5 The Contractor agrees to protect the personal information of clients/customers according to the privacy provisions of *The Freedom of Information and Protection of Privacy Act* (FIPPA). As such, the Contractor agrees to collect only the minimum amount of personal information as is necessary for the purpose of processing payments at public water service outlets. The information will only be used for the purposes of fulfilling the terms of this agreement, and will not be used or disclosed for any other purposes, except as authorized by law as outlined in section 44(1) of *The Freedom of Information and Protection of Privacy Act*. The Contractor shall protect the personal information in its custody or under its control by making reasonable security arrangements against such risks as unauthorized access, use, disclosure or destruction.

D6. NOTICES

D6.1 Except as provided for in C23.2.2, all notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the Contractor shall be sent to the facsimile number identified by the Contractor in Paragraph 2 of Form A: Bid.

D6.2 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the City, except as expressly otherwise required in D6.3, D6.4 or elsewhere in the Contract, shall be sent to the attention of the Contract Administrator at the facsimile number identified in D3.

D6.3 Notwithstanding C21., all notices of appeal to the Chief Administrative Officer shall be sent to the attention of the Chief Financial Officer at the following facsimile number:

The City of Winnipeg
Chief Financial Officer
Facsimile No.: 204 949-1174

D6.4 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

D6.5 Bids Submissions must not be submitted to the above facsimile numbers. Bids must be submitted in accordance with B8.

SUBMISSIONS

D7. AUTHORITY TO CARRY ON BUSINESS

D7.1 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.

D8. SAFE WORK PLAN

D8.1 The Contractor shall provide the Contract Administrator with a Safe Work Plan at least five (5) Business Days prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.

D8.2 The Safe Work Plan should be prepared and submitted in the format shown in the City's template which is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/safety/default.stm>

D9. INSURANCE

D9.1 The Contractor shall provide and maintain the following insurance coverage at all times during the performance of the Work and until the date of Total performance:

- (a) Wrap Up Liability insurance in an amount of no less than two million dollars (\$2,000,000), insuring both sites, inclusive per occurrence written in the name of the Contractor, sub-contractors, and The City of Winnipeg, covering bodily injury, personal injury, property damage and products and completed operations consistent with industry standard insurance policy wordings. Wrap Up Liability Policy to include contractual liability, unlicensed motor vehicle liability, cross liability, and twenty-four (24) months completed operations.
- (b) Automobile Liability insurance for owned and non-owned automobiles used for or in connection with the Work in the amount of at least two million dollars (\$2,000,000)
- (c) All risks course of construction insurance for both sites, including testing and commissioning, in the amount of 100% of the total contract price, written in the name of the Contractor, sub-contractors and The City of Winnipeg, policy to remain in place at all times during the performance of the Work and until the date of Substantial Performance.

D9.2 The Contractor shall provide or cause its' sub-contractor to provide in connection of the services outlined in Part E – Specifications – Division 25 – 25 50 01 – Bulk Water Truck Fill Billing System: Pavement Works, Building Supply and Repairs, Demolition and Electrical ; the following evidence of insurance :

- (a) Professional and/or Technology Errors and Omissions Liability insurance in the amount of at least \$250,000. Such insurance to be maintained during the performance of the work and during the warranty period of the system

D9.3 Deductibles shall be borne by the Contractor.

- D9.4 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 on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.
- D9.5 The Contractor shall not cancel, materially later, or cause the policy to lapse without providing at least thirty (30) Calendar Days prior written notice to the Contract Administrator.
- D9.6 All policies shall be taken out with insurers licensed to carry on business in the Province of Manitoba.

D10. PERFORMANCE SECURITY

- D10.1 If the Contract Price exceeds twenty-five thousand dollars (\$25,000.00), the Contractor shall provide and maintain performance security until the expiration of the warranty period in the form of:
- (a) a performance bond of a company registered to conduct the business of a surety in Manitoba, in the form attached to these Supplemental Conditions (Form H1: Performance Bond), in the amount of fifty percent (50%) of the Contract Price; or
 - (b) an irrevocable standby letter of credit issued by a bank or other financial institution registered to conduct business in Manitoba and drawn on a branch located in Winnipeg, in the form attached to these Supplemental Conditions (Form H2: Irrevocable Standby Letter of Credit), in the amount of fifty percent (50%) of the Contract Price; or
 - (c) a certified cheque or draft payable to "The City of Winnipeg", drawn on a bank or other financial institution registered to conduct business in Manitoba, in the amount of fifty percent (50%) of the Contract Price.
- D10.1.1 Where the performance security is in the form of a certified cheque or draft, it will be deposited by the City. The City will not pay any interest on certified cheques or drafts furnished as performance security.
- D10.2 The Contractor shall provide the City Solicitor with the required performance security within seven (7) Calendar Days of notification of the award of the Contract by way of Purchase Order and prior to the commencement of any Work on the Site.

D11. SUBCONTRACTOR LIST

- D11.1 The Contractor shall provide the Contract Administrator with a complete list of the Subcontractors whom the Contractor proposes to engage (Form J: Subcontractor List) at least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than seven (7) Calendar Days from notification of the award of Contract.

D12. DETAILED WORK SCHEDULE

- D12.1 The Contractor shall provide the Contract Administrator with a detailed work schedule at least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.
- D12.2 The detailed work schedule shall consist of the following:
- (a) a critical path method (C.P.M.) schedule for the Work;
 - (b) a Gantt chart for the Work based on the C.P.M. schedule;
- all acceptable to the Contract Administrator.
- D12.3 Further to D12.2(a), the C.P.M. schedule shall clearly identify the start and completion dates of all of the following activities/tasks making up the Work as well as showing those activities/tasks on the critical path. Only one (1) public water service outlet can be out of service at a time. The

first public water service outlet must be fully functional before work can start on the second public water service outlet.

- (a) Contract award
- (b) Mobilization
- (c) Chevrier Boulevard Location:
 - (i) Demolish existing and install new concrete road works
 - (ii) Perform public water service outlet exterior repairs
 - (iii) Supply and install new electrical service
 - (iv) Supply and install a remote monitoring system for the public water service outlet
 - (v) Supply and install new public water service outlet billing system
 - (vi) Supply and install new electric heat trace system snow and ice melting
 - (vii) Demolish existing overhead water delivery system
 - (viii) Supply and install new pressure sensor within the public water service outlet
 - (ix) Submission of O&M manuals
 - (x) Training
 - (xi) Commissioning
- (d) McCarthy Street Location
 - (i) Demolish public water service outlet structure and overhead water delivery system
 - (ii) Demolish existing and install new asphalt pad
 - (iii) Install new concrete foundation for new public water service outlet
 - (iv) Supply and install new public water service outlet
 - (v) Supply and install new overhead electrical service
 - (vi) Supply and install a remote monitoring system for the public water service outlet
 - (vii) Supply and install new public water service outlet billing system
 - (viii) Submission of O&M manuals
 - (ix) Training
 - (x) Commissioning
- (e) Substantial performance
- (f) Total performance

SCHEDULE OF WORK

D13. COMMENCEMENT

D13.1 The Contractor shall not commence any Work until he/she is in receipt of a Purchase Order from the Award Authority authorizing the commencement of the Work.

D13.2 The Contractor shall not commence any Work on the Site until:

- (a) the Contract Administrator has confirmed receipt and approval of:
 - (i) evidence that the Contractor is 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;
 - (ii) evidence of the workers compensation coverage specified in C6.15;
 - (iii) the Safe Work Plan specified in D8;
 - (iv) evidence of the insurance specified in D9;
 - (v) the performance security specified in D9.1;
 - (vi) the Subcontractor list specified in D11; and,
 - (vii) the detailed work schedule specified in D12.

- (b) the Contractor has attended a pre-construction meeting with the Contract Administrator, or the Contract Administrator has waived the requirement for a pre-construction meeting.

D13.3 The Contractor shall commence the Work on the Site within fourteen (14) Working Days of receipt of the Purchase Order.

D13.3 The City intends to award this Contract by February 23, 2018.

D14. SUBSTANTIAL PERFORMANCE

D14.1 The Contractor shall achieve Substantial Performance by September 3, 2018.

D14.2 When the Contractor considers the Work to be substantially performed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Contract Administrator for purposes of verifying Substantial Performance. Any defects or deficiencies in the Work noted during that inspection shall be remedied by the Contractor at the earliest possible instance and the Contract Administrator notified so that the Work can be re-inspected.

D14.3 The date on which the Work has been certified by the Contract Administrator as being substantially performed to the requirements of the Contract through the issue of a certificate of Substantial Performance is the date on which Substantial Performance has been achieved.

D15. TOTAL PERFORMANCE

D15.1 The Contractor shall achieve Total Performance by October 12, 2018.

D15.2 When the Contractor or the Contract Administrator considers the Work to be totally performed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Contract Administrator for purposes of verifying Total Performance. Any defects or deficiencies in the Work noted during that inspection shall be remedied by the Contractor at the earliest possible instance and the Contract Administrator notified so that the Work can be reinspected.

D15.3 The date on which the Work has been certified by the Contract Administrator as being totally performed to the requirements of the Contract through the issue of a certificate of Total Performance is the date on which Total Performance has been achieved.

D16. LIQUIDATED DAMAGES

D16.1 If the Contractor fails to achieve Critical Stages, Substantial Performance or Total Performance in accordance with the Contract by the days fixed herein for same, the Contractor shall pay the City the following amounts per Calendar Day for each and every Calendar Day following the days fixed herein for same during which such failure continues:

- (a) Substantial Performance - one thousand dollars (\$1,000.00);
- (b) Total Performance - five hundred dollars (\$500.00).

D16.2 The amounts specified for liquidated damages in D16.1 are based on a genuine pre-estimate of the City's losses in the event that the Contractor does not achieve critical stages, Substantial Performance or Total Performance by the days fixed herein for same.

D16.3 The City may reduce any payment to the Contractor by the amount of any liquidated damages assessed.

CONTROL OF WORK

D17. JOB MEETINGS

D17.1 Regular bi-weekly job meetings will be held at the Site. These meetings shall be attended by a minimum of one (1) representative of the Contract Administrator, one (1) representative of the

City and one (1) representative of the Contractor. Each representative shall be a responsible person capable of expressing the position of the Contract Administrator, the City and the Contractor respectively on any matter discussed at the meeting including the Work schedule and the need to make any revisions to the Work schedule. The progress of the Work will be reviewed at each of these meetings.

D17.2 The Contract Administrator reserves the right to cancel any job meeting or call additional job meetings whenever he/she deems it necessary.

D18. PRIME CONTRACTOR – THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA)

D18.1 Further to C6.24, the Contractor shall be the Prime Contractor and shall serve as, and have the duties of the Prime Contractor in accordance with The Workplace Safety and Health Act (Manitoba).

D19. THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA) – QUALIFICATIONS

D19.1 Further to B12.4, the Contractor/Subcontractor must, throughout the term of the Contract, have a Workplace Safety and Health Program meeting the requirements of The Workplace Safety and Health Act (Manitoba). At any time during the term of the Contract, the City may, at its sole discretion and acting reasonably, require updated proof of compliance, as set out in B12.4.

MEASUREMENT AND PAYMENT

D20. INVOICES

D20.1 Further to C12, the Contractor shall submit monthly invoices for the Work performed during the previous calendar month to:

**The City of Winnipeg
Corporate Finance - Accounts Payable
4th Floor, Administration Building, 510 Main Street
Winnipeg MB R3B 1B9**

Facsimile No.: 204-949-0864

Email: CityWpgAP@winnipeg.ca

D20.2 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 work performed;
- (e) the amount payable with GST and MRST shown as separate amounts; and
- (f) the Contractor's GST registration number.

D20.3 The City will bear no responsibility for delays in approval of invoices which are improperly submitted.

D20.4 **Bid Submissions must not be submitted to the above facsimile number. Bids must be submitted in accordance with B8.**

D21. PAYMENT

D21.1 Further to C12, the City may at its option pay the Contractor by direct deposit to the Contractor's banking institution.

WARRANTY

D22. WARRANTY

D22.1 Warranty is as stated in C13.

TRAFFIC CONTROL AND MAINTENANCE OF ACCESS

D23. TRAFFIC CONTROL AND MAINTENANCE OF ACCESS

D23.1 Comply with the requirements of CW 1130 for traffic control and maintenance of access.

D23.2 Further to D23.1, should the Contract Administrator require that Work on a Regional Streets be carried out at night, on Sundays, on public holidays or that Work be restricted or suspended during peak traffic hours, the Contractor shall comply without additional compensation being considered to meet these requirements.

D23.3 Traffic control during construction shall be as follows:

- (a) Maintain one lane of traffic with street signed as "Road Closed – Local Access Only".
- (b) Intersecting streets and private approaches must be maintained at all times.
- (c) Bus traffic must be maintained at all times

D23.4 Construction activities on Regional Streets shall be restricted to closed lanes between 07:00 to 09:00 and 15:30 to 17:30 hours Monday to Friday and other hours as directed by the Contract Administrator.

D23.5 The Contractor will have access to the open lanes of traffic during non-restricted hours provide flag persons are used in accordance with Section 3.12 of The City of Winnipeg, "Manual of Temporary Traffic Control in Work Areas on City streets" to maintain traffic safety.

D23.6 Further to Section 3.6 of CW 1130, the Contractor shall maintain safe pedestrian crossing at intersections at all times. If possible, only one pedestrian crossing at an intersection is to be blocked by construction at any one time. If more than one pedestrian crossing is blocked by construction at an intersection at the same time the Contractor shall provide flag person to safely escort pedestrians across the intersection. The Contractor shall leave pedestrian crossing locations safe and free if equipment that may hamper pedestrians when no construction activities are being performed at a particular crossing location.

D23.7 The Contractor shall not park company or private vehicles inside the barricaded work zone in a manner that will block sightlines for vehicles and pedestrians approaching and crossing. Provide flag persons to direct traffic around construction vehicles that are unloading equipment and materials at the Site.

D23.8 The Contractor shall not stockpile materials in a location and manner that will obstruct the safe operation of motor vehicles past the Site.

FORM H1: PERFORMANCE BOND
(See D9.1)

KNOW ALL MEN BY THESE PRESENTS THAT

_____ ,
(hereinafter called the "Principal"), and

_____ ,
(hereinafter called the "Surety"), are held and firmly bound unto **THE CITY OF WINNIPEG** (hereinafter called the "Obligee"), in the sum of

_____ dollars (\$_____)

of lawful money of Canada to be paid to the Obligee, or its successors or assigns, for the payment of which sum the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS the Principal has entered into a written contract with the Obligee for

BID OPPORTUNITY NO. 634-2017

REHABILITATION OF PUBLIC WATER SERVICE OUTLETS: PAVEMENT WORKS, BUILDING SUPPLY AND REPAIRS, DEMOLITION AND ELECTRICAL

which is by reference made part hereof and is hereinafter referred to as the "Contract".

NOW THEREFORE the condition of the above obligation is such that if the Principal shall:

- (a) carry out and perform the Contract and every part thereof in the manner and within the times set forth in the Contract and in accordance with the terms and conditions specified in the Contract;
- (b) perform the Work in a good, proper, workmanlike manner;
- (c) make all the payments whether to the Obligee or to others as therein provided;
- (d) in every other respect comply with the conditions and perform the covenants contained in the Contract; and
- (e) indemnify and save harmless the Obligee against and from all loss, costs, damages, claims, and demands of every description as set forth in the Contract, and from all penalties, assessments, claims, actions for loss, damages or compensation whether arising under "The Workers Compensation Act", or any other Act or otherwise arising out of or in any way connected with the performance or non-performance of the Contract or any part thereof during the term of the Contract and the warranty period provided for therein;

THEN THIS OBLIGATION SHALL BE VOID, but otherwise shall remain in full force and effect. The Surety shall not, however, be liable for a greater sum than the sum specified above.

AND IT IS HEREBY DECLARED AND AGREED that the Surety shall be liable as Principal, and that nothing of any kind or matter whatsoever that will not discharge the Principal shall operate as a discharge or release of liability of the Surety, any law or usage relating to the liability of Sureties to the contrary notwithstanding.

IN WITNESS WHEREOF the Principal and Surety have signed and sealed this bond the

_____ day of _____, 20____ .

SIGNED AND SEALED
in the presence of:

(Witness as to Principal if no seal)

(Name of Principal)

Per: _____ (Seal)

Per: _____

(Name of Surety)

By: _____ (Seal)
(Attorney-in-Fact)

**FORM H2: IRREVOCABLE STANDBY LETTER OF CREDIT
(PERFORMANCE SECURITY)**
(See D9.1)

(Date)

The City of Winnipeg
Legal Services Department
185 King Street, 3rd Floor
Winnipeg MB R3B 1J1

RE: PERFORMANCE SECURITY - BID OPPORTUNITY NO. 634-2017

REHABILITATION OF PUBLIC WATER SERVICE OUTLETS: PAVEMENT WORKS, BUILDING
SUPPLY AND REPAIRS, DEMOLITION AND ELECTRICAL

Pursuant to the request of and for the account of our customer,

(Name of Contractor)

(Address of Contractor)

WE HEREBY ESTABLISH in your favour our irrevocable Standby Letter of Credit for a sum not exceeding
in the aggregate

_____ Canadian dollars.

This Standby Letter of Credit may be drawn on by you at any time and from time to time upon written demand for payment made upon us by you. It is understood that we are obligated under this Standby Letter of Credit for the payment of monies only and we hereby agree that we shall honour your demand for payment without inquiring whether you have a right as between yourself and our customer to make such demand and without recognizing any claim of our customer or objection by the customer to payment by us.

The amount of this Standby Letter of Credit may be reduced from time to time only by amounts drawn upon it by you or by formal notice in writing given to us by you if you desire such reduction or are willing that it be made.

Partial drawings are permitted.

We engage with you that all demands for payment made within the terms and currency of this Standby Letter of Credit will be duly honoured if presented to us at:

(Address)

and we confirm and hereby undertake to ensure that all demands for payment will be duly honoured by us.

All demands for payment shall specifically state that they are drawn under this Standby Letter of Credit.

Subject to the condition hereinafter set forth, this Standby Letter of Credit will expire on

(Date)

It is a condition of this Standby Letter of Credit that it shall be deemed to be automatically extended from year to year without amendment from the present or any future expiry date, unless at least 30 days prior to the present or any future expiry date, we notify you in writing that we elect not to consider this Standby Letter of Credit to be renewable for any additional period.

This Standby Letter of Credit may not be revoked or amended without your prior written approval.

This credit is subject to the Uniform Customs and Practice for Documentary Credit (2007 Revision), International Chamber of Commerce Publication Number 600.

(Name of bank or financial institution)

Per: _____
(Authorized Signing Officer)

Per: _____
(Authorized Signing Officer)

PART E - SPECIFICATIONS

GENERAL

E1. APPLICABLE SPECIFICATIONS AND DRAWINGS

- E1.1 These Specifications shall apply to the Work.
- E1.2 *The City of Winnipeg Standard Construction Specifications* in its entirety, whether or not specifically listed on Form B: Prices, shall apply to the Work.
- E1.2.1 *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>
- E1.2.2 The version in effect three (3) Business Days before the Submission Deadline shall apply.
- E1.2.3 Further to C2.4(d), Specifications included in the Bid Opportunity shall govern over *The City of Winnipeg Standard Construction Specifications*.
- E1.3 The following are applicable to the Work:

Specification No. Specification Title

Division 01 – General Requirements

01 33 00	Submittal Procedures
01 45 00	Quality Control
01 51 00	Temporary Utilities
01 52 00	Construction Facilities
01 56 00	Temporary Barriers
01 73 00	Execution
01 74 11	Cleaning
01 78 00	Closeout Submittals
01 79 00	Demonstration and Training

Division 02 – Existing Conditions

02 21 19	Demolition
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Division 03 – Concrete

03 10 00	Concrete Forming and Accessories
03 20 00	Concrete Reinforcement
03 30 00	Cast-In-Place Concrete

Division 07 – Thermal and Moisture Protection

07 10 00	Waterproofing System
07 53 50	Modified Bitumen Sheet Roofing
07 62 00	Metal Flashing
07 63 10	Gutters and Downspouts

Division 13 – Special Construction

13 27 00	Prefabricated Public Water Service Outlet
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Division 23 – Heating, Ventilating and Air Conditioning

23 05 33 Snow and Ice Melt Heat Trace System

Division 25 – Integrated Automation

25 50 01 Public Water Service Outlets Billing System

Division 26 – Electrical

26 05 00 Common Work – Electrical
26 05 20 Wire and Box Connector
26 05 21 Wire and Cables
26 05 28 Grounding Secondary
26 05 29 Hangers and Supports for Electrical Systems
26 05 31 Splitters, Junction, Pull Boxes and Cabinets
26 05 32 Outlet Boxes, Conduit Boxes, and Fittings
26 05 34 Conduits, Conduits Fastening and Conduits Fitting
26 05 44 Installation of Cables
26 12 17 Dry Type Transformers up to 600V Primary
26 24 17 Panelboards Breaker Type
26 27 26 Wire Devices
26 28 21 Molded Case Circuit Breakers
26 28 23 Disconnect Switches – Fused and Non-Fused
26 29 03 Control Devices

Division 27 – Communications

27 53 20 Antenna

Division 28 – Electronic Safety and Security

28 16 00 Intrusion Detection

Division 29 – Instrumentation and Control

29 05 00 Common Work – Instrumentation and Control
29 10 01 Enclosures
29 15 01 Instrumentation Cable
29 30 11 Miscellaneous Panel Devices
29 30 21 Power Supplies
29 40 11 RTU I-O Index
29 40 21 Instrumentation Index
29 40 51 Remote Terminal Units
29 50 01 Instrumentation Specifications Sheet

Division 40 – Process Piping

40 05 13 Process Piping

<u>Drawing No.</u>	<u>Drawing Name/Title</u>
D-14907	COVER SHEET
D-14908	INDEX PAGE
D-14909	CIVIL PLAN CHEVRIER BLVD.
D-14910	CHEVRIER BLVD ARCHITECTURAL PLAN
D-14911	ELECTRICAL CHEVRIER BLVD - SITE PLAN

D-14912	ELECTRICAL CHEVRIER BLVD - BUILDING POWER
D-14913	ELECTRICAL CHEVRIER BLVD - BUILDING - LIGHTING & INSTRUMENTATION
D-14914	ELECTRICAL - CHEVRIER BLVD. SINGLE LINE DIAGRAM
D-14915	CIVIL PLAN McCARTHY STREET
D-14916	McCARTHY STREET STRUCTURAL SLAB
D-14917	ELECTRICAL - McCARTHY STREET SITE PLAN
D-14918	ELECTRICAL - PREFABRICATED BUILDING PUBLIC WATER SERVICE OUTLET McCARTHY STREET
D-14919	CHEVRIER BLVD. NETWORK ARCHITECTURE DIAGRAM
D-14920	CHEVRIER BLVD. 120 VAC POWER LOOP DIAGRAM
D-14921	CHEVRIER BLVD. 120 VAC UPS POWER LOOP DIAGRAM
D-14922	CHEVRIER BLVD. 24 VDC POWER LOOP DIAGRAM
D-14923	CHEVRIER BOULEVARD 0801-LS-003 LOOP DIAGRAM
D-14924	CHEVRIER BOULEVARD 0801-TIT-004 LOOP DIAGRAM
D-14925	CHEVRIER BOULEVARD 0801-ZA-005 LOOP DIAGRAM
D-14926	CHEVRIER BOULEVARD 0801-HS-007 LOOP DIAGRAM
D-14927	CHEVRIER BOULEVARD 0801-PIT-010 LOOP DIAGRAM
D-14928	CHEVRIER BOULEVARD 0801-FIT-008 LOOP DIAGRAM
D-14929	CHEVRIER BOULEVARD 0801-FIT-009 LOOP DIAGRAM
D-14930	McCARTHY STREET NETWORK ARCHITECTURE DIAGRAM
D-14931	McCARTHY STREET 120 VAC POWER LOOP DIAGRAM
D-14932	McCARTHY STREET 120 VAC UPS POWER LOOP DIAGRAM
D-14933	McCARTHY STREET 24 VDC POWER LOOP DIAGRAM
D-14934	McCARTHY STREET 0802-LS-003 LOOP DIAGRAM
D-14935	McCARTHY STREET 0802-TIT-004 LOOP DIAGRAM
D-14936	McCARTHY STREET 0802-ZA-005 LOOP DIAGRAM
D-14937	McCARTHY STREET 0802-HS-007 LOOP DIAGRAM
D-14938	McCARTHY STREET 0802-FIT-008 LOOP DIAGRAM
D-14939	McCARTHY STREET 0802-PIT-009 LOOP DIAGRAM

E2. HAZARDOUS MATERIALS

- E2.1 If asbestos or other hazardous materials are encountered during the Work of the Contract, the Contractor shall stop all work and notify the Contract Administrator immediately. Removal of hazardous materials shall be dealt with by the City and the Contractor shall await further instruction by the Contract Administrator.

E3. PROTECTION OF EXISTING TREES

- E3.1 Take the following precautionary steps to avoid damage from construction activities to existing boulevard trees within the limits of the construction area.
- E3.2 Do not stockpile materials and soil or park vehicles and equipment on boulevards within two (2) metres of trees.
- E3.3 Strap mature tree trunks with 25mm x 150mm x 2400mm wood planks. Smaller trees shall be similarly protected using appropriately sized wood planks.
- E3.4 Excavations shall be carried out in a manner to minimize damage to existing root systems. Where roots must be cut to facilitate an excavation they shall be neatly pruned at the face of the excavation.
- E3.5 Work on site shall be carried out in a manner to minimize damage to existing tree branches. Where damage to tree branches does occur, the Contractor shall neatly prune the damaged branch.

- E3.6 American elm trees shall not be pruned between April 1 and August 1 and Siberian elm trees between April 1 and July 1 of any year under provisions of The Dutch Elm Disease Act.
- E3.7 All damage to existing trees due to construction activities shall be repaired to the requirements and satisfaction of the City of Winnipeg, Parks and Recreation Department, Forestry Branch at the Contractor's expense.
- E3.8 No separate measure or payment will be made for protection of trees.

E4. UTILITIES

- E4.1 The Contractor shall arrange and pay for the appropriate utility to disconnect and reconnect from the Site, all service lines, pipes or conduits that service the public water service outlets.

E5. PROTECTIVE BARRICADES

- E5.1 The Contractor shall provide and erect all protective barricades as required in accordance with the requirements of the employment safety regulations under the Workplace Safety and Health Act, Employment Safety Act and Winnipeg By-Law No. 1481/77 pertaining to erection of barricades for protection.
- E5.2 The Contractor shall also provide additional temporary barricades or rope off temporary demolition zones in the street right of way as may be necessary for any dangerous demolition operation in order to keep the public away from the Site. Such temporary barricades shall be removed as soon as possible in order to prevent unnecessary interruption of traffic.
- E5.3 The Contractor shall be responsible for maintaining all protective barricades, including gates, walks, lights, etc. in a good operating condition for the entire period of the demolition to the satisfaction of the Contract Administrator.

E6. SALVAGED MATERIALS

- E6.1 All salvaged building materials resulting from the demolition including fixtures, except items noted hereinafter, shall become the property of the Contractor and shall be removed from the Site.
- E6.2 Service meters shall remain the property of the utility owning service.

E7. RECYCLING OF CONCRETE

- E7.1 The Contractor shall recycle all rebar, concrete and concrete products by:
- (a) removing the rebar and crushing the concrete and concrete products to 100 mm down, utilizing the Contractor's own forces or others, then recycling the material as the Contractor sees fit; or
 - (b) stockpiling rebar, concrete and concrete products on the Contractor's own property for future recycling as the Contractor sees fit; or
 - (c) loading and hauling the separated rebar, concrete and concrete products directly to
 - (i) Brady Road Resource Management Facility (BRRMF) located at 1901 Brady Road, Winnipeg,
 - (d) All loads arriving at the BRRMF must report to the Scale Building.
 - (e) Any loads arriving on site at BRRMF that are deemed by the BRRMF Scale Operator to be contaminated with other materials shall be subject to additional charges.
- E7.2 The Contractor shall not stockpile rebar, concrete or concrete products at the Site.

E8. CIVIL WORKS

- E8.1 The Contractor shall supply and install the Civil Works as per the drawings provided for each of the two (2) sites, one on Chevrier Boulevard and one at McCarthy Street.
- E8.2 Materials and quantities for the works shall be as per the design drawings. Additional information with respect to construction can be found in the table below where construction items are identified along with approximated quantities and City of Winnipeg Specification references. These specifications can be found on the City of Winnipeg website.
- E8.3 The quantity list provided herein, is to help the Contractor when bidding on the project. It is the Contractor's responsibility to confirm the quantities for the work shown on the drawings. Any discrepancy between the quantities below and the drawings are the Contractor's responsibility to notify the Contract Administrator during the bidding process. Any material, manpower, and supply and placement thereof, required in order to build the Work, as shown on the drawings, are the Contractor's responsibility. The material item list and listing of quantities are an approximate. Should there be more or less quantity required to complete the Work, this will be up to the Contractor to ensure this is completed.
- E8.4 The Contract Administrator will provide spot inspections throughout the Works. The Contractor is responsible to provide ongoing communication to the Contract Administrator to ensure that ample notice is provided to allow for any inspections or testing that are to be conducted by the Contract Administrator. A minimum of forty eight (48) hours notice must be provided by the Contractor for items of work that will require an inspection or testing to be completed. Work completed without notice being provided may result in the Contractor having to redo this work to the satisfaction of the Contract Administrator.
- E8.5 Measurement and payment will be measured on a lump sum basis and paid for at the Contract Unit Price for "Civil Works" for each of the Chevrier and the McCarthy sites. The quantity to be paid for will be the total amount of civil works in accordance with this specification, accepted and determined by the Contract Administrator.

E8.6

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY CHEVRIER	APPROX. QUANTITY MCCARTHY
A	EARTH AND BASE WORKS				
A.1	Clearing and Grubbing	CW 3010	ha	0	0.04
A.2	Excavation	CW 3110	m ³	520	255
A.3	Sub-Grade Compaction	CW 3110	m ²	700	380
A.4	Crushed Sub-base Material	CW 3110			
i)	50 mm		tonne	255	135
ii)	150 mm		tonne	690	375
A.5	Supplying and Placing Base Course Material	CW 3110	m ³	60	30
A.6	Grading of Boulevards	CW 3110	m ²	100	100
A.7	Separation / Reinforcement Geotextile Fabric	CW 3110 / CW3130	m ²	700	380
B	DEMOLITION				
B.1	Demolition McCarthy Site, including Overhead Water Delivery System	E9	each	0	1
B.2	Demolition Chevrier Site, Overhead Water Delivery System	E10	each	1	0

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY CHEVRIER	APPROX. QUANTITY McCARTHY
C	ROADWORK – REMOVALS / RENEWALS				
C.1	Pavement Removal	CW 3110			
i)	Concrete Pavement		m ²	590	0
ii)	Asphalt Pavement		m ²	0	210
C.2	Slab Replacement	CW 3230			
i)	230 mm Concrete Pavement (Reinforced and Heated)	E11	m ²	165	0
ii)	230 mm Concrete Pavement (Plain-Dowelled)		m ²	550	0
C.3	Concrete Curb Removal	CW 3240			
i)	Lip Curb		m	70	0
C.4	Concrete Curb Installation	CW 3240			
i)	Modified Barrier (150 mm reveal ht, Integral)	SD-203B	m	105	0
C.5	Construction of Asphaltic Concrete Overlay	CW 3410			
i)	Main Line Paving				
a)	Type 1A		tonne	0	45
b)	Type III		tonne	0	105
C.6	High Density Under Slab Foam Insulation				
i)	100 PSI, 75mm Thickness	E12	m ²	165	0
D	MISCELLANEOUS				
D.1	Chain Link Fence	CW 3550			
i)	1.83m Height		m	40	0
D.2	Steel Bollard, 200mm dia.	CW 3550	ea	4 to 18	2
D.3	Removal of Bollards	E13	ea	4 to 18	0
D.4	PVC Water Service	CW 2110			
i)	100mm Class B sand bedding, Class 3 backfill		m	0	2.7
D.5	Connect to Existing Water Service 100mm	CW 2110	ea	0	1
D.6	PVC Sewer Service	CW 2130			
i)	150 mm Class B sand bedding, Class 1 backfill		m	0	12
D.7	Connect to Existing 600 mm WWS	CW 2130	ea	0	1
D.8	Seeding	CW 3520	m ²	100	100

E9. DEMOLITION MCCARTHY STREET SITE, INCLUDING OVERHEAD WATER DELIVERY SYSTEM

E9.1 The Contractor shall demolish and remove the existing building, foundation, overhead water delivery system and appurtenances at the McCarthy Street site as per the drawings and in accordance with this specification. Removal of these items will include hauling away and disposing of these items.

E10. DEMOLITION CHEVRIER BOULEVARD SITE, INCLUDING OVERHEAD WATER DELIVERY SYSTEM

E10.1 The Contractor shall demolish and remove the overhead water delivery system and appurtenances as per the drawings and in accordance with this specification. Removal of these items will include hauling away and disposing of these items.

E11. 230 MM CONCRETE PAVEMENT (REINFORCED AND HEATED) CHEVRIER BOULEVARD SITE

E11.1 The Contractor shall supply and install 230 mm concrete pavement (reinforced and heated) as per the drawings, in accordance with City of Winnipeg Standards and Specifications, including but not limited to CW 3230 and in accordance with this specification.

E11.2 Material: Material shall be as per CW 3230. In addition, the slab shall be reinforced and heated as shown on the drawings. The reinforcement shall be 15M bars, 150 mm on center in both directions, placed in the middle of the slab with respect to depth. The heat trace cable shall be tied to the reinforcing as per this specification.

E12. HIGH DENSITY UNDER SLAB FOAM INSULATION CHEVRIER BOULEVARD SITE

E12.1 The Contractor shall supply and install rigid foam under the heated slab as per the drawings and in accordance with this specification for the Chevrier site.

E12.2 Material: Foam to be extruded polystyrene rigid foam meeting ASTM C578 Type V standards with the following characteristics:

- (a) Minimum compressive strength of 689 kPa
- (b) Minimum flexural strength of 0.965 kPa.

E12.3 Installation: Cut and trim insulation neatly to fit area. Butt joints tightly. Use only insulation boards free from chipped or broken edges. Use largest possible dimensions to reduce number of joints. Lay boards on level compacted fill.

E13. REMOVAL OF BOLLARDS CHEVRIER BOULEVARD SITE

E13.1 The Contractor shall remove existing bollards as per the drawings and in accordance with this specification, on an as required basis. Removal of bollards will include hauling away and disposing of these items.