

# THE CITY OF WINNIPEG

# **TENDER**

**TENDER NO. 21-2021** 

2021 REGIONAL AND LOCAL SIDEWALK AND CURB RENEWALS

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D19. Substantial Performance

D22. COVID-19 Schedule Delays

D20. Total Performance D21. Liquidated Damages

# **TABLE OF CONTENTS**

PART A - BID SUBMISSION	
Form A: Bid/Proposal Form B: Prices Form G1: Bid Bond and Agreement to Bond	
PART B - BIDDING PROCEDURES	
B1. Contract Title B2. Submission Deadline B3. Enquiries B4. Confidentiality B5. Addenda B6. Substitutes B7. Bid Components B8. Bid B9. Prices B10. Disclosure B11. Conflict of Interest and Good Faith B12. Qualification B13. Bid Security B14. Opening of Bids and Release of Information B15. Irrevocable Bid B16. Withdrawal of Bids B17. Evaluation of Bids B18. Award of Contract	1 1 1 1 1 2 3 3 4 4 4 5 6 7 7 8 8 8
PART C - GENERAL CONDITIONS  C0. General Conditions	1
PART D - SUPPLEMENTAL CONDITIONS	'
General D1. General Conditions D2. Form of Contract Documents D3. Scope of Work D4. Contract Administrator D5. Contractor's Supervisor D6. Notices D7. Furnishing of Documents	1 1 1 2 2 3 3
Submissions  D8. Authority to Carry on Business  D9. Safe Work Plan  D10. Insurance  D11. Contract Security  D12. Subcontractor List  D13. Detailed Work Schedule	3 3 3 4 5 5
Schedule of Work D14. Commencement D15. Working Days D16. Restricted Work Hours D17. Work By Others D18. Sequence of Work	5 6 6 6

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Scheduled Maintenance	8
Job Meetings Prime Contractor – The Workplace Safety and Health Act (Manitoba)	8 9 9
•	9
	9
	9
n H1: Performance Bond	12
	14 16
- SPECIFICATIONS	
eral	
Mobilization and Demobilization Payment Protection Of Existing Trees Traffic Control Traffic Management Refuse and Recycling Collection Water Obtained From the City Surface Restorations Salvage and Reinstall Bike oops Supply and Installation of MMA Marking with Anti-Skid Tree Removal Monolithic Curb and 100mm Concrete Sidewalk with Block-outs for Paving Stones	1 1 2 3 4 4 5 5 6 6 7
	scheduled Maintenance  trol of Work  Job Meetings Prime Contractor – The Workplace Safety and Health Act (Manitoba) The Workplace Safety and Health Act (Manitoba) – Qualifications  surement and Payment Payment  ranty Warranty  d Party Agreements Funding and/or Contribution Agreement Obligations  n H1: Performance Bond n H2: Labour and Material Payment Bond n J: Subcontractor List  - SPECIFICATIONS  eral  Applicable Specifications and Drawings Mobilization and Demobilization Payment Protection Of Existing Trees Traffic Control Traffic Management Refuse and Recycling Collection Water Obtained From the City Surface Restorations Salvage and Reinstall Bike oops Supply and Installation of MMA Marking with Anti-Skid Tree Removal Monolithic Curb and 100mm Concrete Sidewalk with Block-outs for Paving Stones Paving Stones for Indicator Surfaces

# APPENDIX "A" -APPLICATION INSTRUCTIONS - MMAX AREA MARKINGS

APPENDIX "B" -MMAX AREA MARKINGS SPECIFICATIONS - METHYL METHACRYLATE AREA MARKING WITH ANTI-SKID

# **PART B - BIDDING PROCEDURES**

# **B1.** CONTRACT TITLE

B1.1 2021 Regional and Local Sidewalk and Curb Renewals

# **B2. SUBMISSION DEADLINE**

- B2.1 The Submission Deadline is 12:00 noon Winnipeg time, March 3, 2021.
- B2.2 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 Tender, 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.
- B3.3 Responses to enquiries which, in the sole judgment of the Contract Administrator, require a correction to or a clarification of the Tender will be provided by the Contract Administrator to all Bidders by issuing an addendum.
- B3.4 Responses to enquiries which, in the sole judgment of the Contract Administrator, do not require a correction to or a clarification of the Tender will be provided by the Contract Administrator only to the Bidder who made the enquiry.
- B3.5 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.
- B3.6 Any enquiries concerning submitting through MERX should be addressed to:

MERX Customer Support Phone: 1-800-964-6379 Email: merx@merx.com

## **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 Tender 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 Tender, 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 MERX website at www.merx.com.
- B5.4 The Bidder is responsible for ensuring that he/she has received all addenda and is advised to check the MERX 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 10 of Form A: Bid/Proposal. Failure to acknowledge receipt of an addendum may render a Bid non-responsive.
- B5.6 Notwithstanding B3, enquiries related to an Addendum may be directed to the Contract Administrator indicated in D4.

# **B6.** SUBSTITUTES

- B6.1 The Work is based on the Plant, Materials and methods specified in the Tender.
- 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 five (5) 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 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.
- 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.

Bidding Procedures Page 3 of 9

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- 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 B17.
- B6.9 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.

## **B7.** BID COMPONENTS

- B7.1 The Bid shall consist of the following components:
  - (a) Form A: Bid;
  - (b) Form B: Prices;
  - (c) Form G1: Bid Bond and Agreement to Bond.
- B7.2 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.
- B7.3 The Bid shall be submitted electronically through MERX at www.merx.com.
- B7.3.1 Bids will **only** be accepted electronically through MERX.
- B7.4 Bidders are advised that inclusion of terms and conditions inconsistent with the Tender document, including the General Conditions, will be evaluated in accordance with B17.1(a).

# B8. BID

- B8.1 The Bidder shall complete Form A: Bid/Proposal, making all required entries.
- B8.2 Paragraph 2 of Form A: Bid/Proposal 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/Proposal, the Bidder shall identify a contact person who is authorized to represent the Bidder for purposes of the Bid.
- B8.4 Paragraph 13 of Form A: Bid/Proposal 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/Proposal should be entered 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 stated on Form B: Prices shall not include any costs which may be incurred by the Contractor with respect to any applicable funding agreement obligations as outlined in D29. Any such costs shall be determined in accordance with D29.
- 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.
- B9.4 Payments to Non-Resident Contractors are subject to Non-Resident Withholding Tax pursuant to the Income Tax Act (Canada).
- B9.5 The Bidder shall enter the Total Bid Price from Form B: Prices into the Total Bid Price field in MERX.
- B9.5.1 Bidders are advised that the calculation indicated in B17.4 will prevail over the Total Bid Price entered in MERX.

# 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

# **B11.** CONFLICT OF INTEREST AND GOOD FAITH

- B11.1 Further to C3.2, Bidders, by responding to this Tender, 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;
- (e) 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 Tender 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 Tender process) of strategic and/or material relevance to the Tender 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;
  - upon discovering any perceived, potential or actual Conflict of Interest at any time during the Tender 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;
  - 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; 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 <a href="https://www.winnipeg.ca/matmgt/Templates/files/debar.pdf">https://www.winnipeg.ca/matmgt/Templates/files/debar.pdf</a>
- 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™) in the form of:
    - (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 <a href="http://www.winnipeg.ca/matmgt/">http://www.winnipeg.ca/matmgt/</a>.
- 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. BID SECURITY

- B13.1 The Bidder shall include in its Bid Submission bid security in the form of a digital bid bond, in the amount of at least ten percent (10%) of the Total Bid Price, and agreement to bond of a company registered to conduct the business of a surety in Manitoba, in Form G1: Bid Bond and Agreement to Bond, available on The City of Winnipeg, Corporate Finance, Materials Management Division website at <a href="https://www.winnipeg.ca/MatMgt/templates/files/eBidsecurity.pdf">https://www.winnipeg.ca/MatMgt/templates/files/eBidsecurity.pdf</a>.
- B13.2 Bid security shall be submitted in a digital format meeting the following criteria:

- (a) The version submitted by the Bidder must have valid digital signatures and seals;
- (b) The version submitted by the Bidder must be verifiable by the City with respect to the totality and wholeness of the bond form, including: the content; all digital signatures and digital seals; with the surety company, or an approved verification service provider of the surety company.
- (c) The version submitted must be viewable, printable and storable in standard electronic file formats compatible with the City, and in a single file. Allowable formats include pdf.
- (d) The verification may be conducted by the City immediately or at any time during the life of the bond and at the discretion of the City with no requirement for passwords or fees.
- (e) The results of the verification must provide a clear, immediate and printable indication of pass or fail regarding B13.2(a).
- B13.3 Bonds failing the verification process will not be considered to be valid and the bid shall be determined to be non-responsive in accordance with B17.1(a).
- B13.4 Bonds passing the verification process will be treated as original and authentic.
- B13.4.1 If the Bidder submits alternative bids, the bid security shall be in the amount of the specified percentage of the highest Total Bid Price submitted.
- B13.5 The bid security of the successful Bidder and the next two lowest evaluated responsive and responsible Bidders will be released by the City when a Contract for the Work has been duly formed with the successful Bidder and the contract securities are furnished as provided herein. The bid securities of all other Bidders will be released when a Contract is awarded.
- B13.6 The bid securities of all Bidders will be released by the City as soon as practicable following notification by the Contract Administrator to the Bidders that no award of Contract will be made pursuant to the Tender.

# B14. OPENING OF BIDS AND RELEASE OF INFORMATION

- B14.1 Bids will not be opened publicly.
- B14.2 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 MERX website at <a href="https://www.merx.com">www.merx.com</a>.
- B14.3 After award of Contract, the name(s) of the successful Bidder(s) and their Contract amount(s) will be available on the MERX website at www.merx.com.
- B14.4 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).
- B14.4.1 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.

# **B15.** IRREVOCABLE BID

- B15.1 The Bid(s) submitted by the Bidder shall be irrevocable for the time period specified in Paragraph 11 of Form A: Bid/Proposal.
- B15.2 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 11 of Form A: Bid/Proposal.

# **B16. WITHDRAWAL OF BIDS**

B16.1 A Bidder may withdraw his/her Bid without penalty prior to the Submission Deadline.

## **B17. EVALUATION OF BIDS**

- B17.1 Award of the Contract shall be based on the following bid evaluation criteria:
  - (a) compliance by the Bidder with the requirements of the Tender, 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.
- B17.2 Further to B17.1(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.
- B17.3 Further to B17.1(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.
- B17.4 Further to B17.1(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.
- B17.4.1 Further to B17.1(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.
- B17.4.2 Bidders are advised that the calculation indicated in B17.4 will prevail over the Total Bid Price entered in MERX.

# **B18.** AWARD OF CONTRACT

- B18.1 The City will give notice of the award of the Contract or will give notice that no award will be made.
- B18.2 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.
- B18.2.1 Without limiting the generality of B18.2, 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;
  - 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.
- B18.3 If funding for the Work is provided to the City of Winnipeg by the Government of Manitoba and/or the Government of Canada, Bidders are advised that the terms of D29 shall immediately take effect upon confirmation of such funding, regardless of when funding is confirmed.

- B18.4 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 B17.
- B18.4.1 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.

# **PART C - GENERAL CONDITIONS**

# CO. GENERAL CONDITIONS

- C0.1 The General Conditions for Construction (Revision 2020-01-31) are applicable to the Work of the Contract.
- C0.1.1 The General Conditions for Construction are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <a href="http://www.winnipeg.ca/matmgt/gen\_cond.stm">http://www.winnipeg.ca/matmgt/gen\_cond.stm</a>
- C0.2 A reference in the Tender 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. FORM OF CONTRACT DOCUMENTS

D2.1 Notwithstanding C4.1(c) and C4.4, the Contract Documents will be provided to the Contractor electronically and there will be no requirement for execution and return to the City by the Contractor. Accordingly, the provisions under C4.4(a) and C4.4(b) are no longer applicable.

# D3. SCOPE OF WORK

- D3.1 The Work to be done under the Contract shall consist of:
  - (a) Regional Sidewalk Renewals
    - (i) Higgins Avenue (North Side), Annabella Street to Mordaunt Street
    - (ii) Osborne Street (West Side), Rathgar Avenue to Hethrington Avenue
    - (iii) Sutherland Avenue (North Side), Main Street to Argyle Street N
  - (b) Local Sidewalk Renewals
    - (i) Barratt Avenue (Both Sides), Spruce Street to Clifton Street
    - (ii) Bruce Avenue (South Side), Moray Street to Ainslie Street
    - (iii) Bruce Avenue (North Side), Ainslie Street to Rita Street
    - (iv) Chudley Street (West Side), Manitoba Avenue to Tyndall Avenue
    - (v) Laurel Bay (North Side), Hillhouse Road to Diplomat Drive
    - (vi) Sherburn Street (Both Sides), Ellice Avenue to St. Matthews Avenue
  - (c) New Local Sidewalk Construction
    - (i) Beecher Avenue (South Side), Swailes Avenue to Ferrier Street
- D3.2 The major components of the Work are as follows:
  - (a) Regional Sidewalk Renewals
    - (i) Sidewalk Removal;
    - (ii) Curb Removal;
    - (iii) Monolithic Curb and Concrete Sidewalk Removal;
    - (iv) Supply and Placement of Base Course;
    - (v) Adjustment of Catch Basins/Manholes;
    - (vi) Adjustment of Valve Boxes;
    - (vii) Adjustment of Curb Stops;
    - (viii) Construct 100mm Monolithic Curb and Concrete Sidewalk with Block-outs for Paving Stones;
    - (ix) 100 mm Concrete Sidewalk Renewal;
    - (x) Curb Renewal;
    - (xi) Supply and Installation of MMA Markings;
    - (xii) 100mm Monolithic Curb and Concrete Sidewalk Construction;
    - (xiii) Installation of Detectable Warning Surface Tiles;
    - (xiv) Construction of Asphalt Patches;
    - (xv) Installation of Interlocking Paving Stone;

- (xvi) Grading of Boulevard; and
- (xvii) Sodding.
- (b) Local Sidewalk Renewals
  - (i) 100mm Concrete Sidewalk Removal;
  - (ii) 150mm Concrete Sidewalk Removal;
  - (iii) Curb Renewal;
  - (iv) Supply and Placement of Base Course;
  - (v) Adjustment of Catch Basins/Manholes;
  - (vi) Adjustment of Valve Boxes;
  - (vii) Adjustment of Curb Stops;
  - (viii) 100mm Concrete Sidewalk Construction;
  - (ix) 150mm Reinforced Concrete Sidewalk Construction;
  - (x) Construction of Asphalt Patches;
  - (xi) Grading of Boulevard; and
  - (xii) Sodding.
- (c) New Local Sidewalk
  - (i) Tree Removal;
  - (ii) Excavation;
  - (iii) Sub-Grade Compaction;
  - (iv) Supply and Placement of Base Course;
  - (v) Curb Renewal:
  - (vi) 100mm Concrete Sidewalk Renewal;
  - (vii) 150mm Concrete Sidewalk Renewal;
  - (viii) Construct 100mm Concrete Sidewalk;
  - (ix) Grading of Boulevard; and
  - (x) Sodding.

# D4. CONTRACT ADMINISTRATOR

D4.1 The Contract Administrator is:

Erik Hansen, C.E.T.

Technologist II, City of Winnipeg

Telephone No. 204 986-3249

Email Address ehansen@winnipeg.ca

D4.2 At the pre-construction meeting, the Contract Administrator will identify additional personnel representing the Contract Administrator and their respective roles and responsibilities for the Work.

# D5. CONTRACTOR'S SUPERVISOR

- D5.1 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.
- D5.2 At least two (2) Business Days prior to the commencement of any Work on the site, the Contractor shall provide the Contract Administrator with a phone number where the supervisor identified in D5.1 or an alternate can be contacted twenty-four (24) hours a day to respond to an emergency.

# D6. NOTICES

- D6.1 Except as provided for in C22.4, 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/Proposal.
- 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 or elsewhere in the Contract, shall be sent to the attention of the Contract Administrator identified in D4.
- D6.3 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

#### D7. FURNISHING OF DOCUMENTS

D7.1 Upon award of the Contract, the Contractor will be provided with 'issued for construction' Contract Documents electronically, including Drawings in PDF format only.

# **SUBMISSIONS**

# D8. AUTHORITY TO CARRY ON BUSINESS

D8.1 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.

# D9. SAFE WORK PLAN

- D9.1 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 Documents, if applicable.
- D9.2 The Safe Work Plan shall 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 <a href="http://www.winnipeg.ca/matmgt/safety/default.stm">http://www.winnipeg.ca/matmgt/safety/default.stm</a>
- D9.3 Notwithstanding B12.4 at any time during the term of the Contract, the City may, at its sole discretion and acting reasonably, require an updated COR Certificate or Annual Letter of good Standing. A Contractor, who fails to provide a satisfactory COR Certificate or Annual Letter of good Standing, will not be permitted to continue to perform any Work.

# D10. INSURANCE

- D10.1 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, with a cross-liability clause, such liability policy to also contain contractual liability, unlicensed

- motor vehicle liability, non-owned automobile liability, broad form property damage cover and products and completed operations, to remain in place at all times during the performance of the Work and throughout the warranty period;
- (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;
- (c) an all risks Installation Floater carrying adequate limits to cover all machinery, equipment, supplies and/or materials intended to enter into and form part of any installation.
- D10.2 Deductibles shall be borne by the Contractor.
- D10.3 The Contractor shall provide the City Solicitor 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 the C4.1 for the return of the executed Contract Documents, as applicable.
- D10.4 The Contractor shall not cancel, materially alter, or cause each policy to lapse without providing at least thirty (30) Calendar Days prior written notice to the Contract Administrator.

## D11. CONTRACT SECURITY

- D11.1 The Contractor shall provide and maintain the performance bond and the labour and material payment bond 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; and
  - (b) a labour and material payment bond of a company registered to conduct the business of a surety in Manitoba, in the form attached to these Supplemental Conditions (Form H2: Labour and Material Payment Bond), in an amount equal to fifty percent (50%) of the Contract Price.
- D11.1.1 Where the contract security is a performance bond, it may be submitted in hard copy or digital format. If submitted in digital format the contract security must meet the following criteria:
  - (a) the version submitted by the Contractor must have valid digital signatures and seals;
  - (b) the version submitted by the Contractor must be verifiable by the City with respect to the totality and wholeness of the bond form, including: the content; all digital signatures and digital seals; with the surety company, or an approved verification service provider of the surety company.
  - (c) the version submitted must be viewable, printable and storable in standard electronic file formats compatible with the City, and in a single file. Allowable formats include pdf.
  - (d) the verification may be conducted by the City immediately or at any time during the life of the bond and at the discretion of the City with no requirement for passwords or fees.
  - (e) the results of the verification must provide a clear, immediate and printable indication of pass or fail regarding D11.1(b).
- D11.1.2 Digital bonds failing the verification process will not be considered to be valid and may be determined to be an event of default in accordance with C18.1. If a digital bond fails the verification process, the Contractor may provide a replacement bond (in hard copy or digital format) within seven (7) Calendar Days of the City's request or within such greater period of time as the City in its discretion, exercised reasonably, allows.
- D11.1.3 Digital bonds passing the verification process will be treated as original and authentic.

- D11.2 The Contractor shall provide the City Solicitor with the required performance and labour and material payment bonds within seven (7) Calendar Days of notification of the award of the Contract by way of an award letter and 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 Documents, if applicable.
- D11.3 The Contractor shall, as soon as practicable after entering into a contract with a Subcontractor:
  - (a) give the Subcontractor written notice of the existence of the labour and material payment bond in D11.1(b); and
  - (b) post a notice of the bond and/or a copy of that bond in a conspicuous location at the Site of the Work.

# D12. SUBCONTRACTOR LIST

D12.1 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 or prior to a pre-construction meeting, or 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 the C4.1 for the return of the executed Contract Documents, if applicable.

# D13. DETAILED WORK SCHEDULE

- D13.1 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 the General Conditions for the return of the executed Contract.
- D13.2 The detailed work schedule shall consist of the following:
  - (a) a Gantt chart for the Work based on working days of contract, acceptable to the Contract Administrator.
- D13.3 Further to D13.2(a), the Gantt chart shall show the time on a weekly basis, required to carry out the Work of each trade, or specification division. The time shall be on the horizontal axis, and the type of trade shall be on the vertical axis.

# SCHEDULE OF WORK

# D14. COMMENCEMENT

- D14.1 The Contractor shall not commence any Work until he/she is in receipt of an award letter from the Award Authority authorizing the commencement of the Work.
- D14.2 The Contractor shall not commence any Work on the Site until:
  - (a) the Contract Administrator has confirmed receipt and approval of:
    - (i) evidence of authority to carry on business specified in D8;
    - (ii) evidence of the workers compensation coverage specified in C6.15;
    - (iii) the twenty-four (24) hour emergency response phone number specified in D5.2.
    - (iv) the Safe Work Plan specified in D9;
    - (v) evidence of the insurance specified in D10:
    - (vi) the contract security specified in D11;
    - (vii) the subcontractor list specified in D12; and
    - (viii) the detailed work schedule specified in D13.
  - (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.

- D14.3 The Contractor shall not commence the Work on the Site before May 17, 2021, and shall commence the Work on Site no later than May 21, 2021, as directed by the Contract Administrator and weather permitting.
- D14.4 The City intends to award this Contract by April 23, 2021.
- D14.4.1 If the actual date of award is later than the intended date, the dates specified for,
  Substantial Performance and Total Performance will be adjusted by the difference between the aforementioned intended and actual dates.

#### D15. WORKING DAYS

- D15.1 Further to C1.1(tt);
- D15.1.1 The Contract Administrator will determine daily if a Working Day has elapsed and will record his/her assessment. On a weekly basis the Contract Administrator will provide the Contractor with a record of the Working Days assessed for the preceding week. The Contractor shall sign each report signifying that he/she agrees with the Contract Administrator's determination of the Working Days assessed for the report period.
- D15.1.2 Work done to restore the Site to a condition suitable for Work, shall not be considered "work" as defined in the definition of a Working Day.
- D15.1.3 When the Work includes two or more major types of Work that can be performed under different atmospheric conditions, the Contract Administrator shall consider all major types of Work in determining whether the Contractor was able to work in assessing Working Days.

# D16. RESTRICTED WORK HOURS

- D16.1 Further to clause 3.10 of CW 1130, the Contractor shall require written permission forty-eight (48) hours in advance from the Contract Administrator for any work to be performed between 2000 hours and 0700 hours, or on Saturdays, Sundays, Statutory Holidays and or Civic Holidays.
- D16.2 The following work hour restrictions shall also apply:
  - (a) The Contractor shall not be allowed to occupy a Traffic Lane on Priority 1 street during "Weekday Peak Periods" as defined within the current City of Winnipeg, Manual of Temporary Traffic Control.

# D17. WORK BY OTHERS

- D17.1 Work by others on or near the Site will include but not necessarily be limited to:
  - (a) City of Winnipeg Water and Waste Department;
  - (b) City of Winnipeg Geomatics;
  - (c) Manitoba Hydro;
  - (d) City of Winnipeg Traffic Signals; and
  - (e) Outfront Media.

# D18. SEQUENCE OF WORK

- D18.1 Further to C6.1, the sequence of work shall comply with the following:
- D18.1.1 Providing that the Work on each street is completed in a similar order to the order that the Work was commenced in, the Contractor will be permitted to have a maximum of three (3) streets under construction at any one time. Completion of a street means that all of the necessary concrete, asphalt including approaches and landscaping Work is completed to the satisfaction of the Contract Administrator.

- D18.1.2 Where the Contractor utilizes two (2) or more crews that work independently on the same major component of the Work as identified in D2, the Contract Administrator may approve an increase to the maximum number of streets under construction at any time.
- D18.1.3 Placing the topsoil and finished grading of all boulevard and median areas shall be completed prior to commencing construction of asphaltic concrete overlays, including scratch courses
- D18.1.4 Work on the following streets shall commence after June 25, 2021:
  - (a) Barratt Avenue from Spruce Street to Clifton Street (Both Sides);
  - (b) Bruce Avenue from Moray Street to Ainslie Street (South Side);
  - (c) Bruce Avenue from Ainslie Street to Rita Street (North Side); and
  - (d) Chudley Street from Manitoba Avenue to Tyndall Avenue (West Side).

# D19. SUBSTANTIAL PERFORMANCE

- D19.1 The Contractor shall achieve Substantial Performance within forty-five (45) consecutive Working Days of the commencement of the Work as specified in D14.
- D19.2 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.
- D19.3 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.

# D20. TOTAL PERFORMANCE

- D20.1 The Contractor shall achieve Total Performance within fifty (50) consecutive Working Days of the commencement of the Work as specified in D14.
- D20.2 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 re-inspected.
- D20.3 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.

# D21. LIQUIDATED DAMAGES

- D21.1 If the Contractor fails to achieve 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 Working Day for each and every Working Day following the days fixed herein for same during which such failure continues:
  - (a) Substantial Performance two thousand dollars (\$2000);
  - (b) Total Performance one thousand dollars (\$1000).
- D21.2 The amounts specified for liquidated damages in D21.1 are based on a genuine pre-estimate of the City's losses in the event that the Contractor does not achieve Substantial Performance or Total Performance by the days fixed herein for same.

D21.3 The City may reduce any payment to the Contractor by the amount of any liquidated damages assessed.

# D22. COVID-19 SCHEDULE DELAYS

- D22.1 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, directives from health authorities and various levels of government and in close consultation with the Contract Administrator.
- D22.2 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.
- D22.3 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. 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.
- D22.4 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 D22.3. Failure to provide this notice will result in no additional time delays being considered by the City.
- D22.5 The Work schedule, including the durations identified in D16 to D20 where applicable, will be adjusted to reflect delays accepted by the Contract Administrator. No additional payment will be made for adjustment of schedules except where seasonal work, not previously identified in the Contract, is carried over to the following construction season.
- D22.6 Where Work not previously identified is being carried over solely as a result of delays related to COVID-19, as confirmed by the Contract Administrator, the cost of temporary works to maintain the Work in a safe manner until Work recommences, will be considered by the Contract Administrator. Where the Work is carried over only partially due to COVID-19, a partial consideration of the cost of temporary works will be considered by the Contract Administrator.
- D22.7 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.

# D23. SCHEDULED MAINTENANCE

- D23.1 The Contractor shall perform the following scheduled maintenance in the manner and within the time periods required by the Specifications:
  - (a) Sodding as specified in CW 3510-R9
- D23.2 Determination of Substantial Performance and Total Performance shall be exclusive of scheduled maintenance identified herein. All scheduled maintenance shall be completed prior to the expiration of the warranty period. Where the scheduled maintenance cannot be completed during the warranty period, the warranty period shall be extended for such period of time as it takes the Contractor to complete the scheduled maintenance.

## **CONTROL OF WORK**

# D24. JOB MEETINGS

D24.1 Regular weekly job meetings will be held at the Site. These meetings shall be attended by a minimum of one representative of the Contract Administrator, and one representative of the Contractor. Each representative shall be a responsible person capable of expressing the position of the Contract Administrator, 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.
- D24.2 The Contract Administrator reserves the right to cancel any job meeting or call additional job meetings whenever he/she deems it necessary.

# D25. PRIME CONTRACTOR – THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA)

D25.1 Further to C6.26, 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).

# D26. THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA) – QUALIFICATIONS

Purther 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**

## D27. PAYMENT

D27.1 Further to C12, the City may at its option pay the Contractor by direct deposit to the Contractor's banking institution.

#### **WARRANTY**

# D28. WARRANTY

- D28.1 Notwithstanding C13.2, the warranty period shall begin on the date of Total Performance and shall expire one (1) year thereafter, unless extended pursuant to C13.2.1 or C13.2.2, in which case it shall expire when provided for thereunder.
- D28.1.1 For the purpose of contract security, the warranty period shall be one (1) year.
- D28.2 Notwithstanding C13.2, the Contract Administrator may permit the warranty period for a portion or portions of the Work to begin prior to the date of Total Performance if a portion of the Work cannot be completed because of unseasonable weather or other conditions reasonably beyond the control of the Contractor but that portion does not prevent the balance of the Work from being put to its intended use.
- D28.2.1 In such case, the date specified by the Contract Administrator for the warranty period to begin shall be substituted for the date specified in C13.2 for the warranty period to begin.

# THIRD PARTY AGREEMENTS

# D29. FUNDING AND/OR CONTRIBUTION AGREEMENT OBLIGATIONS

- D29.1 In the event that funding for the Work of the Contract is provided to the City of Winnipeg by the Government of Manitoba and/or the Government of Canada, the following terms and conditions shall apply, as required by the applicable funding agreements.
- D29.2 Further to D29.1, in the event that the obligations in D29 apply, actual costs legitimately incurred by the Contractor as a direct result of these obligations ("Funding Costs") shall be determined by the actual cost to the Contractor and not by the valuation method(s) outlined in C7.4. In all other respects Funding Costs will be processed in accordance with Changes in Work under C7.

# D29.3 For the purposes of D29:

- (a) "Government of Canada" includes the authorized officials, auditors, and representatives of the Government of Canada; and
- (b) "Government of Manitoba" includes the authorized officials, auditors, and representatives of the Government of Manitoba.

# D29.4 Modified Insurance Requirements

- D29.4.1 If not already required under the insurance requirements identified in D10, the Contractor will be required to provide wrap-up liability insurance in an amount of no less than two million dollars (\$2,000,000) inclusive per occurrence. Such policy will be written in the joint names of the City, Contractor, Consultants and all sub-contractors and sub-consultants and include twelve (12) months completed operations. The Government of Manitoba and its Ministers, officers, employees, and agents shall be added as additional insureds.
- D29.4.2 If not already required under the insurance requirements identified in D10, the Contractor will be required to provide builders' risk insurance (including boiler and machinery insurance, as applicable) providing all risks coverage at full replacement cost, or such lower level of insurance that the City may identify on a case-by-case basis, such as an installation floater.
- D29.4.3 The Contractor shall obtain and maintain third party liability insurance with minimum coverage of two million dollars (\$2,000,000.00) per occurrence on all licensed vehicles operated at the Site. In the event that this requirement conflicts with another licensed vehicle insurance requirement in this Contract, then the requirement that provides the higher level of insurance shall apply.
- D29.4.4 Further to D10.3, insurers shall provide satisfactory Certificates of Insurance to the Government of Manitoba prior to commencement of Work as written evidence of the insurance required. The Certificates of Insurance must provide for a minimum of thirty (30) days' prior written notice to the Government of Manitoba in case of insurance cancellation.
- D29.4.5 All policies must be taken out with insurers licensed to carry on business in the Province of Manitoba.

# D29.5 Indemnification By Contractor

D29.5.1 In addition to the indemnity obligations outlined in C17 of the General Conditions for Construction, the Contractor agrees to indemnify and save harmless the Government of Canada and the Government of Manitoba and each of their respective Ministers, officers, servants, employees, and agents from and against all claims and demands, losses, costs, damages, actions, suit or other proceedings brought or pursued in any manner in respect of any matter caused by the Contractor or arising from this Contract or the Work, or from the goods or services provided or required to be provided by the Contractor, except those resulting from the negligence of any of the Government of Canada's or the Government of Manitoba's Ministers, officers, servants, employees, or agents, as the case may be.

# D29.6 Records Retention and Audits

- D29.6.1 The Contractor shall maintain and preserve accurate and complete records in respect of this Contract and the Work, including all accounting records, financial documents, copies of contracts with other parties and other records relating to this Contract and the Work during the term of the Contract and for at least six (6) years after Total Performance. Those records bearing original signatures or professional seals or stamps must be preserved in paper form; other records may be retained in electronic form.
- D29.6.2 In addition to the record keeping and inspection obligations outlined in C6 of the General Conditions for Construction, the Contractor shall keep available for inspection and audit at all reasonable times while this Contract is in effect and until at least six (6) years after Total Performance, all records, documents, and contracts referred to in D29.6.1 for inspection, copying and audit by the City of Winnipeg, the Government of Manitoba and/or the Government of Canada and their respective representatives and auditors, and to produce

them on demand; to provide reasonable facilities for such inspections, copying and audits, to provide copies of and extracts from such records, documents, or contracts upon request by the City of Winnipeg, the Government of Manitoba, and/or the Government of Canada and their respective representatives and auditors, and to promptly provide such other information and explanations as may be reasonably requested by the City of Winnipeg, the Government of Manitoba, and/or the Government of Canada from time-to-time.

# D29.7 Other Obligations

- D29.7.1 The Contractor consents to the City providing a copy of the Contract Documents to the Government of Manitoba and/or the Government of Canada upon request from either entity.
- D29.7.2 If the Lobbyists Registration Act (Manitoba) applies to the Contractor, the Contractor represents and warrants that it has filed a return and is registered and in full compliance with the obligations of that Act, and covenants that it will continue to comply for the duration of this Contract.
- D29.7.3 The Contractor shall comply with all applicable legislation and standards, whether federal, provincial, or municipal, including (without limitation) labour, environmental, and human rights laws, in the course of providing the Work.
- D29.7.4 The Contractor shall properly account for the Work provided under this Contract and payment received in this respect, prepared in accordance with generally accepted accounting principles in effect in Canada, including those principles and standards approved or recommended from time-to-time by the Chartered Professional Accountants of Canada or the Public Sector Accounting Board, as applicable, applied on a consistent basis.
- D29.7.5 The Contractor represents and warrants that no current or former public servant or public office holder, to whom the Value and Ethics Code for the Public Sector, the Policy on Conflict of Interest and Post Employment, or the Conflict of Interest Act applies, shall derive direct benefit from this Contract, including any employment, payments, or gifts, unless the provision or receipt of such benefits is in compliance with such codes and the legislation.
- D29.7.6 The Contractor represents and warrants that no member of the House of Commons or of the Senate of Canada or of the Legislative Assembly of Manitoba is a shareholder, director or officer of the Contractor or of a Subcontractor, and that no such member is entitled to any benefits arising from this Contract or from a contract with the Contractor or a Subcontractor concerning the Work.

# FORM H1: PERFORMANCE BOND

(See D11)

KNOW	ALL MEN BY THES	E PRESENTS THAT	
(herein	after called the "Princ	cipal"), and	
	nafter called the "Sure oligee"), in the sum of	ty"), are held and firmly bound unto <b>THE CITY OF WIN</b> f	NIPEG (hereinafter called
		dollars (\$	)
sum th	e Principal and the S	to be paid to the Obligee, or its successors or assigns, Surety bind themselves, their heirs, executors, adminy, firmly by these presents.	
WHER	EAS the Principal ha	s entered into a written contract with the Obligee for	
TENDE	ER NO. 21-2021		
		dewalk and Curb Renewals part hereof and is hereinafter referred to as the "Conti	ract".
NOW 7	THEREFORE the con	ndition of the above obligation is such that if the Princip	oal shall:
(a) (b) (c) (d) (e)	forth in the Contract perform the Work in make all the payme in every other resp Contract; and indemnify and save demands of every claims, actions for Compensation Act.	rm the Contract and every part thereof in the manner and in accordance with the terms and conditions special a good, proper, workmanlike manner; ents whether to the Obligee or to others as therein provocet comply with the conditions and perform the conditions and perform the conditions are performed as set forth in the Contract, and from all r loss, damages or compensation whether arising, or any other Act or otherwise arising out of or in any performance of the Contract or any part thereof during	cified in the Contract; rided; venants contained in the ts, damages, claims, and I penalties, assessments, ng under "The Workers y way connected with the
	and the warranty pe	eriod provided for therein;	
		SHALL BE VOID, but otherwise shall remain in full force for a greater sum than the sum specified above.	ce and effect. The Surety
of any	kind or matter whatso	RED AND AGREED that the Surety shall be liable as bever that will not discharge the Principal shall operate law or usage relating to the liability of Sureties to the	as a discharge or release
IN WIT	NESS WHEREOF th	e Principal and Surety have signed and sealed this bo	and the
	day of	, 20	

The City of Winnipeg Tender No. 21-2021 Supplemental Conditions Page 13 of 16

Template Version: eC20200911 - Const Road Works

SIGNED AND SEALED in the presence of:	(Name of Principal)	
	Per:	(Seal)
(Witness as to Principal if no seal)	Per:	
	(Name of Surety)	
	By: (Attorney-in-Fact)	(Seal)

# FORM H2: LABOUR AND MATERIAL PAYMENT BOND (See D11)

## KNOW ALL MEN BY THESE PRESENTS THAT

his/its heirs, executors,	administrators, successors or assigns (hereinafter called the "Principal"), and
firmly bound unto THE	administrators, successors or assigns (hereinafter called the "Surety"), are held and CITY OF WINNIPEG (hereinafter called the "Obligee"), for the use and benefit of ow defined, in the amount of
	dollars (\$)

of lawful money of Canada, for the payment whereof we, the Principal and the Surety jointly and severally bind ourselves firmly by these presents.

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

**TENDER NO. 21-2021** 

2021 Regional and Local Sidewalk and Curb Renewals

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 promptly make payment to all claimants as hereinafter defined, for all labour, service and material used or reasonably required for use in the performance of the Contract, then this obligation shall be void, otherwise it shall remain in full force and effect subject, however, to the following conditions:

- (a) A claimant is defined as one having a direct contract with the Principal for labour, service and material, or any of them, used or reasonably required for use in the performance of the contract, labour, service and material being construed to include that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental of equipment (but excluding rent of equipment where the rent pursuant to an agreement is to be applied towards the purchase price thereof) directly applicable to the Contract:
- (b) The above-named Principal and Surety hereby jointly and severally agree with the Obligee that every claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) days after the date on which the last of such claimant's work, labour or service was done or performed, or materials were furnished by such claimant, may sue on this bond, prosecute the suit to final judgment for such sum or sums as may be justly due claimant, and have execution thereon;
- (c) No suit or action shall be commenced hereunder by any claimant
  - (i) unless claimant shall have given written notice to the Principal and the Surety above-named, within one hundred and twenty (120) days after such claimant did or performed the last of the work, labour or service, or furnished the last of the materials for which said claim is made, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were furnished, or for whom the work, labour or service was done or performed. Such notice shall be served by mailing the same by registered mail to the Principal, and Surety, at any place where an office is regularly maintained for the transaction of business, or served in any manner in which legal process may be served in the Province of Manitoba;

- (ii) after the expiration of one (1) year following the date on which Principal ceased work on said Contract; including work performed under the guarantees provided in the Contract;
- (iii) other than in a court of competent jurisdiction in the Province of Manitoba.
- (d) The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of mechanics liens which may be filed of record against said improvement, whether or not claim for the amount of such lien be presented under and against this bond.
- (e) The Surety shall not be liable for a greater sum than the specified penalty of this bond.

The Principal and Surety hereby agree that The Guarantors' Liability Act (Manitoba) shall apply to this Bond.

•	al has hereunto set its hand affixed its seal, and the with its corporate seal duly attested by the authorized s	•
day of	, 20	
SIGNED AND SEALED in the presence of:  (Witness as to Principal if no seal)	(Name of Principal)  Per:  Per:	(Seal)
	(Name of Surety)  By:(Attorney-in-Fact)	(Seal)

# FORM J: SUBCONTRACTOR LIST

(See D12)

2021 Regional and Local Sidewalk and Curb Renewals

Portion of the Work	<u>Name</u>	<u>Address</u>	
SURFACE WORKS:			
Supply of Materials:			
Concrete			
Asphalt			
Base Course			
Sod			
Interlocking Paving Stones			
Precast Sidewalk Blocks			
MMA			
Installation/Placement:			
Concrete			
Asphalt			
Base Course			
Sod			
Interlocking Paving Stones			
Precast Sidewalk Blocks			
MMA			
UNDERGROUND WORKS:			
Supply of Materials:			
Frames & Covers			
Lifter Rings			
Installation/Placement:			
Inlet Frames & Covers			
Lifter Rings			

The City of Winnipeg

Tender No. 21-2021

# **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 Tender shall govern over *The City of Winnipeg Standard Construction Specifications*.
- E1.3 Bidders are reminded that requests for approval of substitutes as an approved equal or an approved alternative 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.
- E1.4 The following are applicable to the Work:

Drawing No.	<u>Drawing Name/Title</u>	<u>Drawing</u>
<del></del>	<del></del>	(Original) Sheet
		<u>Size</u>
	Cover Sheet	A1
SE-21-01	Beecher Avenue from Swailes Avenue to Station 3+00	A1
SE-21-02	Beecher Avenue from Station 3+00 to Ferrier Street	A1
SE-21-03	Higgins Avenue from Annabella Street to Station 3+60	A1
SE-21-04	Higgins Avenue from Station 3+60 to Mordaunt Street	A1
SE-21-05	Osborne Street from Rathgar Avenue to Station 3+40	A1
SE-21-06	Osborne Street from Station 3+40 to Station 5+80	A1
SE-21-07	Osborne Street from Station 5+80 to Hethrington Avenue	A1

## E2. MOBILIZATION AND DEMOBILIZATION PAYMENT

## **DESCRIPTION**

- E2.1 This Specification shall cover all operations relating to the mobilization and demobilization of the Contractor to the project location(s).
- E2.2 The Work to be done by the Contractor under this Specification shall include the furnishing of all superintendence, overhead, labour, materials, equipment, tools, supplies, and all things necessary for and incidental to the satisfactory performance and completion of all Works as hereinafter specified.
- E2.3 The inclusion of a payment item for the Work under this Specification shall not release or reduce the responsibilities of the Contractor under any other specification in this Contract.

# SCOPE OF WORK

E2.4 Further to C12 of the General Conditions, where Mobilization and Demobilization is included as a bid item, it shall consist of the following, as applicable:

- (a) Mobilization shall include, but not be limited to:
  - (i) All activities and associated costs for transportation of the Contractor's personnel, equipment, and operating supplies to the site, and/or sites, and/or between sites;
  - (ii) Establishment of offices, buildings, other necessary general facilities and equipment parking/staging areas for the Contractor's operations at the site or sites;
  - (iii) Premiums paid for performance and payment bonds including coinsurance and reinsurance agreements as applicable;
  - (iv) General cleanup and housekeeping needed maintain a neat and orderly project site and/or sites;
  - (v) Other job related items.
- (b) Demobilization shall include, but not be limited to:
  - (i) All activities and costs for transportation of personnel, equipment, and supplies not used in the project from the site, and/or sites, and/or between sites;
  - (ii) Disassembly, removal, and site cleanup and restoration of offices, buildings, and other facilities assembled on the site and/or sites;
  - (iii) Repair of access roads, temporary haul roads, and equipment parking areas leaving the project site in the same or better condition than at the start of the project;
  - (iv) General cleanup and housekeeping needed to restore a neat and orderly project site.
- E2.5 Access to the site, equipment parking, and staging areas are limited to that shown on the drawings or as approved by the Contract Administrator.

# MEASUREMENT AND PAYMENT

- E2.6 The lump-sum price for the Mobilization and Demobilization bid item shall not exceed five percent (5.00%) of the total bid price for the Contract.
- Further to B9, B17, C12 and E2.6, should the lump sum price exceed 5% of the Total Bid Price the lump sum price will be reduced to 5% of the Total Bid Price, the Total Bid Price will be determined using the reduced lump sum price and payment will be based on the reduced lump sum price.
- E2.7 Payment for Mobilization:
  - (a) 60% of the lump-sum price will be paid to the contractor for Mobilization on the first Progress Estimate for the Contract.
- E2.8 Payment for Demobilization:
  - (a) The remaining 40% of the lump-sum price will be paid upon:
    - (i) Restoration of the site and/or sites to the satisfaction of the Contract Administrator;
    - (ii) Distribution of the Declaration of Total Performance.
- E2.9 Mobilization and Demobilization will be paid only once (to a maximum of 100%), regardless of the number of times the Contractor mobilizes to the site and/or sites.

# E3. PROTECTION OF EXISTING TREES

- E3.1 The Contractor shall take the following precautionary steps to prevent damage from construction activities to existing boulevard trees within the limits of the construction area:
  - (a) The Contractor shall not stockpile materials and soil or park vehicles and equipment on boulevards within 2 metres of trees.
  - (b) Trees identified to be at risk by the Contract Administrator are to be strapped with 25 x 100 x 2400mm wood planks, or suitably protected as approved by the Contract Administrator.
  - (c) Excavation shall be performed in a manner that minimizes damage to the existing root systems. Where possible, excavation shall be carried out such that the edge of the

- excavation shall be a minimum of 1.5 times the diameter (measured in inches), with the outcome read in feet, from the closest edge of the trunk. Where roots must be cut to facilitate excavation, they shall be pruned neatly at the face of excavation.
- (d) Operation of equipment within the dripline of the trees shall be kept to the minimum required to perform the work required. Equipment shall not be parked, repaired, refuelled; construction materials shall not be stored, and earth materials shall not be stockpiled within the driplines of trees. The dripline of a tree shall be considered to be the ground surface directly beneath the tips of its outermost branches. The Contractor shall ensure that the operations do not cause flooding or sediment deposition on areas where trees are located.
- (e) Work on-site shall be carried out in such a manner so as to minimize damage to existing tree branches. Where damage to branches does occur, they shall be neatly pruned.
- E3.2 All damage to existing trees caused by the Contractor's activities shall be repaired to the requirements and satisfaction of the Contract Administrator and the City Forester or his/her designate.
- E3.3 No separate measurement or payment will be made for the protection of trees.
- E3.4 Except as required in clause E3.1(c) and E3.1(e), Elm trees shall not be pruned at any time between April 1 and July 31.

## E4. TRAFFIC CONTROL

- E4.1 Further to clauses 3.6, 3.7 and 3.8 of CW 1130:
  - (a) Where directed by the Contract Administrator, the Contractor shall construct and maintain temporary asphalt ramps to alleviate vertical pavement obstructions such as manholes and planing drop-offs to the satisfaction of the Contract Administrator. Payment shall be in accordance with CW3410.
  - (b) In accordance with the Manual of Temporary Traffic Control on City Streets (MTTC), the Contractor ("Construction Agency" in the manual) shall be responsible for placing, maintaining and removing the appropriate temporary traffic control devices as specified by the MTTC or by the Traffic Management Branch of the City of Winnipeg Public Works Department. The Contractor shall bear all costs associated with the placement of temporary traffic control devices by their own forces or subcontractor.
- E4.2 Notwithstanding E4.1, in accordance with the MTTC, the Contract Administrator shall make arrangements with the **Traffic Services Branch of the City of Winnipeg** to place, maintain, and remove all **regulatory signs** and traffic control devices authorized and/or required by the Traffic Management Branch in the following situations:
  - (a) Parking restrictions,
  - (b) Stopping restrictions,
  - (c) Turn restrictions,
  - (d) Diamond lane removal,
  - (e) Full or directional closures on a Regional Street,
  - (f) Traffic routed across a median,
  - (g) Full or directional closure of a non-regional street where there is a requirement for regulatory signs (turn restrictions, bus stop relocations, etc.) to implement the closure.
  - (h) Approved Designated Construction Zones with a temporary posted speed limit reduction. Traffic Services will be responsible for placing all of the advance signs and 'Construction Ends' (TC-4) signs. The Contractor is still responsible for all other temporary traffic control including but not limited to barricades, barrels and tall cones.
- E4.2.1 An exception to E4.2 is the 'KEEP RIGHT/KEEP LEFT' sign (RB-25 / RB-25L) which shall be supplied, installed, and maintained by the Contractor at their own expense.

E4.2.2 Further to E4.2, where the Contract Administrator has determined that the services of the Traffic Services Branch are required, the City shall bear the costs associated with the placement of temporary traffic control devices by the Traffic Services Branch of the City of Winnipeg in connection with the works undertaken by the Contractor.

# E5. TRAFFIC MANAGEMENT

- E5.1 Further to clause 3.7 of CW 1130:
  - (a) Single lane closures on intersecting and/or adjoining Regional Streets shall only be permitted during non-peak periods when required for construction activities when approved by the Traffic Management Branch. Storage/parking of materials, equipment or vehicles is not permitted on Regional Streets at any time unless approved by the Contract Administrator, in consultation with the Traffic Management Branch.
- E5.1.1 Maintain a minimum of two northbound lanes of traffic on Osborne Street Street during the morning peak period (07:00 09:00) and maintain a minimum of two southbound lanes of traffic on Osborne Street during the afternoon peak period (15:30 17:30).
- E5.1.2 Maintain a minimum of two westbound lanes of traffic on Higgins Avenue during the morning peak period (07:00 09:00) and maintain a minimum of two eastbound lanes of traffic on Higgins Avenue during the afternoon peak period (15:30 17:30).
- E5.1.3 Intersecting local street, median opening and private approach access shall be maintained at all times unless joint/slab repairs or planing/paving operations require temporary closure. Temporary closures are to be staggered such that consecutive intersections are not closed at the same time. Traffic on intersecting regional/collector streets (list streets) shall be maintained at all times unless planing/paving operations require temporary complete closures. Temporary complete closures shall be no longer than 10 minutes during asphalt planing/paving operations and shall be completed during off peak hours.
- E5.1.4 Flag persons may be necessary to maintain the flow of traffic during certain work operations.
- E5.1.5 Should the Contractor be unable to maintain pedestrian or vehicular access to a residence or business, he/she shall review the planned disruption with the business or residence and the Contract Administrator, and take reasonable measures to minimize the impact. The Contractor shall provide a minimum of 24 hours notification to the affected residence or business and the Contract Administrator, prior to disruption of access.
- E5.1.6 Pedestrian access must be maintained on the at all times. One pedestrian crossing must be maintained at each intersections at all times.
- E5.1.7 Ambulance/emergency vehicle access must be maintained at all times.

# E6. REFUSE AND RECYCLING COLLECTION

- E6.1 While access to refuse and/or recycling collection vehicles is restricted, on collection day(s) the Contractor shall move all of the affected property owners refuse and/or recycling materials to a nearby common area, prior to an established time, in accordance with E6.2 to permit the normal collection vehicles to collect the materials. Immediately following recycling collection the Contractor shall return recycling receptacles to the addresses marked on the receptacles.
- E6.2 Collection Schedule:

# Beecher Ave (South Side) from Swailes Ave to Ferrier St.

Collection Day(s): Wednesday

Collection Time: 7:00 – 18:00

Common Collection Area: Front Street Pickup

## Laurel Bay (North Side) from Hillhouse Rd to Diplomat Dr.

Collection Day(s): Wednesday

*Collection Time:* **7:00 – 18:00** 

Common Collection Area: Front Street Pickup

E6.3 No measurement or payment will be made for the work associated with this specification.

# E7. WATER OBTAINED FROM THE CITY

E7.1 Further to clause 3.7 of CW 1120, the Contractor shall pay for all costs, including sewer charges, associated with obtaining water from the City in accordance with the Waterworks and Sewer By-laws.

## E8. SURFACE RESTORATIONS

E8.1 Further to clause 3.3 of CW 1130, when Total Performance is not achieved in the year the Contract is commenced, the Contractor shall temporarily repair any Work commenced and not completed to the satisfaction of the Contract Administrator. The Contractor shall maintain the temporary repairs in a safe condition as determined by the Contract Administrator until permanent repairs are completed. The Contractor shall bear all costs associated with temporary repairs and their maintenance.

# E9. SALVAGE AND REINSTALL BIKE OOPS

**GENERAL** 

E9.1.1 This specification covers the removal, salvaging and re-installation of existing bicycle hoops along Osborne Street.

# **CONSTRUCTION METHODS**

- E9.2 Removal and Salvage Bicycle Hoops
- E9.2.1 Existing bicycle hoops designated for removal to facilitate construction shall be carefully removed and salvaged. All components and all hardware shall be salvaged for reuse and stockpiled at locations designated by the Contract Administrator.
- E9.2.2 In the event of damage to any materials by the Contractor, the Contractor shall immediately notify the Contract Administrator and make all repairs or replacements necessary, at his own expense, to the satisfaction of the Contract Administrator. In no case shall the contractor reinstall a damaged component.
- E9.3 Re-Installation of Salvaged Bicycle Hoops
- E9.3.1 Re-Install salvaged bicycle hoops to the satisfaction of the Contract Administrator.

# MEASURE AND PAYMENT

- E9.4 Remove and Reinstall Salvaged Bicycle Hoops
- E9.4.1 The removal and reinstall of bicycle hoops shall be measured on a unit basis and paid for at the Contract Unit Price for "Salvage and Reinstall Bicycle Hoop", which payment shall be considered compensation in the full for performing of all operations necessary to complete the Work as specified including any items incidental to the Work of this specification.

# E10. SUPPLY AND INSTALLATION OF MMA MARKING WITH ANTI-SKID

# **DESCRIPTION**

E10.1 This specification covers the supply and installation of Methyl Methacrylate Area (MMA) Marking with Anti-Skid in concrete sidewalk for Academy Road from Renfrew Street to Waverley Street.

**GENERAL** 

- E10.2 Drawings and Manuals
  - (a) Attached Manual; Appendix 'A' Application Instructions MMAX Area Markings
  - (b) Attached Manual; Appendix 'B' MMAX Area Markings Specification Methyl Methacrylate Area Marking with Anti-Skid
- E10.3 Material
- E10.3.1 CycleGrip® MMAX kit includes CycleGrip® MMAX Resin (**black**), CycleGrip® MMAX Aggregate and Catalyst
- E10.4 Source
- E10.4.1 ENNIS-FLINT

Available from:

**ENNIS-FLINT** 

Attention: Deryk Upton

Ph: 604-315-8765

Email: dupton@ennisflint.com
Web: www.ennisflint.com

- E10.5 Preparation and Installation
- Where the MMA Markings are to be placed, the surface of the concrete sidewalk must be texture grooved to a width of 0.2m and a depth of 1.25mm (min) to 2.5mm (max).

  Note: The use of grooving equipment with gang stacked diamond cutting blades is required for texturing concrete sidewalk surfaces.
- Prepare the concrete sidewalk surface in accordance with Manufacturer's application instructions and MMAX Area Markings specification as specified in Appendix A and Appendix B, attached.

#### MEASUREMENT AND PAYMENT

- E10.6 Supply and installation of MMA marking with anti-skid will be measured on a length basis and paid for at the Contract Unit Price per metre for "Supply and Installation of MMA Marking with Anti-Skid". The length to be paid for will be the total number of metres of MMA marking with anti-skid supplied and installed in accordance with this specification, accepted and measured by the Contract Administrator.
- E10.7 Grooving and preparation of concrete sidewalk for MMA marking with anti-skid shall be included in the cost for "Supply and Installation of MMA Marking with Anti-Skid" and no separate measurement and payment will be made.

## E11. TREE REMOVAL

#### DESCRIPTON

E11.1 The Contractor is to note that the tree removal is to include the removal of the tree as shown on the drawings, as well as the root masses associated with the tree.

# **CONSTRUCTION METHODS**

E11.2 As per CW 3010.

# MEASUREMENT AND PAYMENT

E11.3 Tree removal will be paid for at the Contract Unit Price per each for "Tree Removal", measured on a per unit basis, which price shall be payment in full for completing all operations herein described and all other items incidental to the work included in this Specification, measured and accepted by the Contract Administrator.

# E12. MONOLITHIC CURB AND 100MM CONCRETE SIDEWALK WITH BLOCK-OUTS FOR PAVING STONES

DESCRIPTION

E12.1 Further to Specification CW 3325 this Specification shall cover the operations relating to the construction of Monolithic Curb and 100mm Concrete Sidewalk with Block-outs for Paving stones.

**GENERAL** 

- E12.2 Further to Specification CW 3325 the Contractor shall construct the proposed Monolithic Curb and 100mm Concrete Sidewalk with Block-outs for Paving Stones with a minimum 100mm depth of concrete below paving stones. The "block-outs" shall be constructed utilizing forming techniques.
- E12.3 A 50mm levelling course of Granular Base Course Material will be used for the Monolithic Curb and 100mm Concrete Sidewalk with Block-outs for Paving Stones.
- E12.4 The concrete sidewalk shall be poured such that the "block-outs" and remaining sidewalk act as a monolithic section.
- E12.5 All costs in connection with the additional forming and placement of concrete as a result of the "block-outs", shall be included in the Contract Unit Price for "Monolithic Curb and 100mm Concrete Sidewalk with Block-outs for Paving Stones".
- Where concrete sidewalk is to be poured up to adjacent buildings, an approved bond breaker shall be supplied and installed from the base of the concrete slab up to the concrete surface. Cost of the bond breaker shall be included in the Contract Unit Price for "Monolithic Curb and 100mm Concrete Sidewalk with Block-outs for Paving Stones".

# MEASUREMENT AND PAYMENT

- E12.7 Construction of Monolithic Curb and 100mm Concrete Sidewalk with Block-outs for Paving Stones will be measured on an area basis and paid for at the Contract Unit Price per square metre for "Monolithic Curb and 100mm Concrete Sidewalk with Block-outs for Paving Stones". The area to be paid for will be the total number of square metres constructed of Monolithic Curb and 100mm Concrete Sidewalk with Block-outs for Paving Stones in accordance with this Specification, accepted and measured by the Contract administrator.
- E12.8 The supply, placement and compaction of 50mm leveling course of Granular Base Course Material for Monolithic Curb and 100mm Concrete Sidewalk with Block-outs for Paving Stones shall be included in the cost of Monolithic Curb and 100mm Concrete Sidewalk with Block-outs for Paving Stones and no separate measurement and payment will be made.

# E13. PAVING STONES FOR INDICATOR SURFACES

**DESCRIPTION** 

E13.1 This specification shall supplement CW 3330-R5 "Installation of Interlocking Paving Stones"

# **MATERIALS**

E13.1.1 Paving Stones for indicator surfaces shall be :

Barkman Concrete paving stones -Charcoal Holland Paver (60mm X 210 mm X 210 mm) https://www.barkmanconcrete.com/

# CONSTRUCTION METHODS

- E13.2 Add the following to section 9.2 "Preparation of Sub-grade, Sub-base and Sand-base":
- E13.2.1 Preparation of Sand-Base for Paving Stones in Sidewalk Block Outs.
- E13.2.2 Place a 15mm layer of bedding sand in the blocked out sidewalk areas. SPEC NOTE: the bedding sand and paver dimensions must be considered in the block out dimensions on the drawing.
- E13.2.3 The bedding sand shall be spread and levelled so that the paving stones when installed are 5 mm higher than the finished grade.
- E13.2.4 No more sand shall be spread than can be covered in with paving stone on the same day.
- E13.2.5 The bedding sand shall not be compacted or disturbed prior to laying the paving stones.
- E13.3 Add the following to section 9.3 "Installation of Paving Stones":
- E13.3.1 For indicator surface paving stones, commence installation of paving stones against the long edge of the block out to obtain the straightest possible course of installation.

# MEASUREMENT AND PAYMENT

- E13.4 Add the following to section 12:
- E13.5 Supply and Installation of Paving Stones for Indicator Surfaces
- Paving stones for indicator surfaces will be measured on surface area basis. The surface area to be paid for shall be the number of square metres constructed in accordance with this specification and accepted by the Contract Administrator, as computed by measurements made by the contract Administrator.

#### BASIS OF PAYMENT

- E13.6 Add the following to section 13:
- E13.6.1 The supply and installation of paving stones for indicator surfaces will be paid for at the Contract Unit Price per square meter for "Paving Stone Indicator Surface", measured as specified herein, which price shall be payment in full for supplying all materials and for performing all operations herein described and all other items incidental to the work included in this specification.
- E13.6.2 Concrete thickness greater than the specified sidewalk thickness as a result of shaping the base material to accommodate the block outs is incidental to the listed Items of Work.

The City of Winnipeg Tender No. 21-2021

Template Version: eC20200911 - Const Road Works

Appendix 'A' Page 1 of 1

# APPENDIX 'A' – APPLICATION INSTRUCTIONS – MMAX AREA MARKINGS

# **APPLICATION INSTRUCTIONS**

# **MMAX AREA MARKINGS**

## Overview:

MMAX AREA MARKINGS conveniently combine state-of-the-art Methyl Methacrylate resins with hardwearing aggregate and premium pigments to deliver an extremely durable, highly visible and color stable lane delineation treatment that meets the non-slip requirements needed for pedestrians, cyclists and vehicles.

MMAX AREA MARKINGS are mixed onsite and is distributed on to the pavement substrate using squeegees and cure in a wide range of temperatures with predictable back to traffic times of 20-60 minutes.

# **EQUIPMENT:**

The following items are needed during the different stages of application.

Surface prep & layout	Mixing	Installation	<u>Clean up</u>
Stiff broom	High speed / torque drill(with power source / spare batteries)	Long handled squeegees	Solvent resistant gloves
Blower / compressed air	Mixing paddles	Spare rubber squeegee blades	Safety glasses
Measuring tape	Measuring cup	Straight hand trowels	Acetone
Chalk line	Small tarp	Long handled roller cages	Large cleaning tub
Marking crayons	Screw driver/bucket opener	Rollers - med. nap (5 per 1000 sqft)	Solvent resistant brushes
Duct tape	Utility knife		Cloth rags
Roofing paper	Misc tools		Trash bags

# **GENERAL REQUIREMENTS:**

**SURFACE:** MMAX AREA MARKINGS can be applied on stable, well compacted asphalt or non-bituminous concrete surfaces, such as Portland cement concrete. New substrates should be allowed to age harden or cure for minimum 15 days (asphalt) to 30 days (concrete) before installation. Pavement surface must be completely free of dirt, debris, moisture, curing compounds and other contaminants that can affect adhesion. Chemical contaminants such as vehicle fluids must be removed well in advance using a degreasing solution and power washer, ensuring all residues are removed. Existing pavement markings within the application area may be removed by gently sandblasting, shot-blasting, water-blasting or grinding making sure that minimal damage is done to the substrate. Aged surfaces containing reflective cracking should be repaired, or reflective cracking should be expected to reappear after installation.

**MATERIAL:** Avoid extreme storage temperatures. Keep materials in dry, protected areas, between  $40^{\circ}F - 80^{\circ}F$ . Keep out of direct sunlight and protected from open flame. Use within six months of receipt.

**TEMPERATURE:** Ambient and surface temperatures for installation should be between 40-100°F, and should be 5°F above the dew point temperature. There should also be less than 75% relative humidity when installing MMAX AREA MARKINGS.

#### **SAFETY PRECAUTIONS:**

Review MSDS for MMAX AREA MARKING products before usage.

# **INSTRUCTIONS FOR APPLICATION:**

**Surface Prep:** Clean the intended application area thoroughly. All loose particles, dirt, sand dust, etc. must be removed. Concrete surfaces should be wire brushed, at minimum. Sweep completely. Use a power blower or compressed air. Clean areas containing chemical contaminants such as vehicle fluids, using a degreasing solution. Proper removal of contaminants and degreasing solution are necessary well in advance of the application.

# **APPLICATION INSTRUCTIONS**

# **MMAX AREA MARKINGS**

**Masking:** Using duct tape and roofing paper, mask off perimeter of area to be colored, as well as any object not to be colored such as manhole covers, drains and existing markings.

**Mixing:** Add the supplied 25.7 lbs of MMAX AREA MARKING Aggregate into the 2 gallons MMAX AREA MARKING Resin and mix with clean mixing paddle, using a high speed, high torque drill. Add the recommended amount of powder catalyst, based on ambient and pavement temperature (Table 1), and mix thoroughly.

After adding the catalyst, MMAX AREA MARKING will start curing and must be applied to the pavement immediately. There will be 4 to 10 minute working time, which is temperature dependent.

Material will mix to approximately 2.79 gallons (10.55 liters), weigh 52 lbs and cover 45-50 sqft @ 90 mils.

<u>Caution: Clean the mixing paddle between uses or understand that material will immediately initiate curing if previously exposed to catalyzed material (and not cleaned).</u>

Table 1: Recommended catalyst by temperature range:

< 70°F / 18°C	lbs (kg)	.51 (.23)
< /U F / 18 C	fl oz (liters)	12 (.365)
70-90°F / 18-32°C	lbs (kg)	0.26 (.12)
70-90 F / 18-32 C	fl oz (liters)	6 (.185)
> 00°F / 22°C	lbs (kg)	0.13 (.06)
> 90°F / 32°C	fl oz (liters)	3 (.09)

**Installation:** Immediately, pour mixed material on to pavement to be treated and use a squeegee to evenly distribute at a coverage rate of 16-18 sq. ft. per gallon, or 45-50 sq. ft. per pail. Pre-measuring / pre-marking can assist to ensure proper coverage. Use trowel in small, tight areas where squeegee cannot effectively be used. After rough distribution with squeegee, back roll material (one direction only) to remove working lines created with squeegee and create a consistent, anti-slip texture. Roller will last longer during continuous usage when it remains wetted with new batches of MMA resin, but will need to be replaced when it starts 'pulling' material or creating differences in texture. Stopping and starting will decrease the useful life of the roller.

As material gels, but before it cures, remove masking.

**Clean up:** Clean all tooling in acetone before material is cured. Clean in well ventilated areas to reduce fume build-up and worker exposure. Do not come into direct contact with solvents - use proper personal protective equipment. Acetone is extremely flammable; take proper handling measures to reduce static discharge and combustion. Dispose of all contaminated materials in accordance with all applicable federal, state and local laws and regulations.

**Opening to traffic:** MMAX AREA MARKINGS must be 100% cured, which will be a hardened solid state, before traffic is permitted. Curing is based on temperatures and amount of catalyst added, but typically takes 30-60 minutes.

The City of Winnipeg Tender No. 21-2021

Template Version: eC20200911 - Const Road Works

Appendix 'B' Page 1 of 1

# APPENDIX 'B' – MMAX AREA MARKINGS SPECIFICATION – METHYL METHACRYLATE AREA MARKING WITH ANTI-SKID

# MMAX AREA MARKINGS SPECIFICATION Methyl Methacrylate Area Marking with Anti-Skid

- 1. **USE**: MMAX AREA MARKINGS conveniently combine state-of-the-art Methyl Methacrylate resins with hardwearing aggregate and premium pigments to deliver an extremely durable, highly visible and color stable lane delineation treatment that meets the non-slip requirements needed for pedestrians, cyclists and vehicles.
  - 1.1. MMAX AREA MARKINGS are only available through Ennis-Flint, or an authorized distributor of Ennis-Flint.
  - **1.2.** MMAX AREA MARKINGS are available in a variety of colors.
- MATERIAL: Materials used to create MMAX AREA MARKINGS shall consist of MMAX AREA MARKING Pre-pigmented Resin, MMAX AREA MARKING Hardwearing Aggregate and Catalyst.
  - 2.1. MMAX AREA MARKING Resin.
    - **2.1.1.** MMAX AREA MARKING Resins shall have the following properties:

Density	12.8+/- 0.35	Lbs/Gal
Tensile	>2000 psi	ASTM D638
Elongation	>70%	ASTM D638
Flash Point	>50°F / 10°C	ASTN D1310

- **2.2.** MMAX AREA MARKING Aggregate shall be provided by the manufacturer and will have a hardness of 9 on the Mohs scale. Aggregate shall be a neutral, light color that will not affect the color of the finished product, and will have a mesh sizing of 24 Grit.
- **2.3.** Catalyst shall come in a powder form and be supplied in bulk at the maximum usage rate of 0.51 +/- 0.2 lbs (.23 +/- .09 kg) per mixed pail of resin and aggregate.

#### 3. APPLICATION EQUIPMENT:

- **3.1.** Squeegees shall be designed for heavy duty usage and sourced locally.
- **3.2.** Rollers shall be medium nap in texture and require a roller cage and handle.
- **3.3.** <u>Drill</u> shall be high speed, high torque capable of supplying enough power to thoroughly mix MMAX AREA MARKING additives when paired with a paint mixing paddle.

# 4. APPLICATION:

- **4.1.** <u>Pre-conditions.</u> Aged surfaces containing reflective cracking should be repaired, or it should be expected that reflective cracking may re-appear.
- **4.2.** <u>Surface preparation.</u> Clean the intended application area thoroughly. All loose particles, dirt, sand dust, etc. must be removed. Broom and use a power blower or compressed air. The surface must be clean, dry and free of all dust, oil, debris and any other material that might interfere with the bond between MMAX AREA MARKING's and the surface to be treated.
  - **4.2.1.** Concrete: All curing compounds shall be completely removed from concrete surfaces prior to installation by shot blasting or grinding. Existing concrete surfaces shall be wire brushed, but may require shot blasting or grinding dependent on condition.
  - **4.2.2.** <u>Chemical contaminants:</u> Clean areas containing chemical contaminants such as vehicle fluids, using a degreasing solution, and ensure removal of contaminants and degreasing solution well in advance of the application.
  - **4.2.3.** Obstacles: Pavement markings that are to be left in place, utilities, drainage structures, curbs and any other structure within or adjacent to the treatment location shall be masked to protect from application. Existing pavement markings conflicting with the surface treatment should be removed by grinding or water blasting. Extra care should be taken to thoroughly remove the dust and debris caused from grinding.
- **4.3.** <u>Mixing.</u> Catalyst quantity shall be based on ambient and pavement temperature and must be mixed very thoroughly at specified rates and into materials listed in the materials mixing guide. Material shall mix to approximately 2.79 gallons (10.55 liters) and weigh approximately 52 lbs (23.6 kg).

# MMAX AREA MARKINGS SPECIFICATION Methyl Methacrylate Area Marking with Anti-Skid

# 4.3.1. Materials Mixing Guide:

MMAX AREA MARKING Resin: 2 gallons (7.6 liters) MMAX AREA MARKING Aggregate: 25.7 lbs (11.7 kg)

CATALYST (temperature dependent):

 $> 90^{\circ} F / 32^{\circ} C$ 3 fl. oz. (.09 liters) 70-90°F / 18-32°C 6 fl. oz. (.185 liters)  $< 70^{\circ} F / 18^{\circ} C$ 12 fl. oz. (.365 liters)

- 4.4. Installation. MMAX AREA MARKING's shall immediately be poured onto the pavement and distributed at 45-50 sq. ft. per pail using a squeegee. Trowels can be used where a squeegee is not effective. Use roller to back roll MMAX AREA MARKINGS to remove working lines and create a consistent, anti-slip texture. Remove masking as material gels, but before it cures.
- 4.5. Opening to traffic. MMAX AREA MARKING's must be 100% cured, which will be a hardened solid state, before traffic is permitted. Curing typically takes 30-60 minutes and is based on temperature and amount of catalyst added.

# PERFORMANCE PROPERTIES:

**5.1.** MMAX AREA MARKING's will have the following performance properties:

Density	18.5 +/- 0.5	Lbs. / Gallon
Solids	>99%	D2205
Build Thickness	90 +/-10	Mils
VOC	<100	Grams/Liter
Pot Life	~15min	AASHTO T237
Skid	>60	ASTM E303
Hardness	50-60	ASTM D2240
Water Absorption	<0.25%	ASTM D570

# 6. PACKAGING:

- 6.1. MMAX AREA MARKING Resin must be supplied in compliant metal pails that have a UN1A2Y1.9/100 rating.
- 6.2. MMAX AREA MARKING Aggregate must be supplied in 25.5 +/- 0.5 lbs. (11.7 +/- .23 kg) pre-packaged bags or pails.
- **TECHNICAL SERVICES:** Shall be available from the manufacturer upon request.