



THE CITY OF WINNIPEG

TENDER

TENDER NO. 179-2024

**2024 REGIONAL STREET PROGRAM: GRANT AVENUE AND TAYLOR AVENUE
PAVEMENT RENEWALS**

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PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

B1.1 2024 Regional Street Program: Grant Avenue and Taylor Avenue Pavement Renewals

B2. SUBMISSION DEADLINE

B2.1 The Submission Deadline is 12:00 noon Winnipeg time, April 19, 2024.

B2.2 The Contract Administrator or the Manager of Purchasing 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 D6.1.

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 they have 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 D6.

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 their 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 they wish to inform.

- B6.7 If the Contract Administrator approves a substitute as an “approved equal”, any Bidder may use the approved equal in place of the specified item.
- B6.8 If the Contract Administrator approves a substitute as an “approved alternative”, any Bidder bidding that approved alternative may base their 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; and
 - (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 their own name, their 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; and
 - (d) if the Bidder is carrying on business under a name other than their 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 (2) 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 their 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 their duly authorized officer or officers;
adn
- (d) if the Bidder is carrying on business under a name other than their 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 (2) or more persons, the word "Bidder" shall mean each and all such persons, and the undertakings, covenants and obligations of such joint Bidders in the Bid and the Contract, when awarded, shall be both joint and several.

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 D36. Any such costs shall be determined in accordance with D36.

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.

B9.6 Form B: Prices is organized into Parts: Part 1 of the Work and Part 2 of the Work. Bidders shall provide a total price for each Part and, on the summary sheet, a Total Bid Price consisting of the sum of prices for Part 1 and Part 2.

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:

- (i) 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 their 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 their Bid, each entity identified in B11.2 shall:

- (a) avoid any perceived, potential or actual Conflict of Interest in relation to the procurement process and the Work;
- (b) upon discovering any perceived, potential or actual Conflict of Interest at any time during the 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 their 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 their 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 their 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 their sole discretion:

- (a) disqualify a Bidder that fails to disclose a perceived, potential or actual Conflict of Interest of the Bidder or any of their employees proposed for the Work;
- (b) require the removal or replacement of any employees proposed for the Work that has a perceived, actual or potential Conflict of Interest that the City, in their 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 their 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 their 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;
- (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, Purchasing Division website at <https://www.winnipeg.ca/matmgt/Templates/files/debar.pdf>

B12.3 The Bidder and/or any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:

- (a) have successfully carried out work similar in nature, scope and value to the Work;
- (b) be fully capable of performing the Work required to be in strict accordance with the terms and provisions of the Contract;
- (c) have a written workplace safety and health program if required pursuant to The Workplace Safety and Health Act (Manitoba);
- (d) have completed the Accessible Customer Service online training required by the Accessibility for Manitobans Act (AMA) (see B12.5 and D8).

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, Purchasing Division website at <http://www.winnipeg.ca/matmgt/>).

B12.5 Further to B12.3(d), the Bidder acknowledges they and all Subcontractors have obtained training required by the Accessibility for Manitobans Act (AMA) available at [Accessibility Training](#) for anyone that may have any interaction with the public on behalf of the City of Winnipeg.

- B12.6 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.
- B12.7 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 their 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, Purchasing Division website at <https://www.winnipeg.ca/MatMgt/templates/files/eBidsecurity.pdf>.
- 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; and
 - (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 www.merx.com.
- 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 (2) 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 their 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; and
- (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.

B17.2.1 Any Bid with an apparent imbalance between the unit prices in Part 1 and Part 2 may be determined to be non-responsive and rejected by the Award Authority in their sole discretion, acting reasonably.

B17.3 Further to B17.1(b), the Award Authority shall reject any Bid submitted by a Bidder who does not demonstrate, in their Bid or in other information required to be submitted, that they are 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 (1) 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;
 - (c) the prices are materially in excess of the City's cost to perform the Work, or a significant portion thereof, with their own forces;
 - (d) only one (1) 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 The Work of this Contract is contingent upon Council approval of sufficient funding in the 2024 Capital Budget. If the Capital Budget approved by Council does not include sufficient funding for the Work, the City will have no obligation to award a Contract.
- B18.4 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 D36 shall immediately take effect upon confirmation of such funding, regardless of when funding is confirmed.
- B18.5 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.
- B18.5.1 Following the award of Contract, a Bidder will be provided with information related to the evaluation of their Bid upon written request to the Contract Administrator.
- B18.6 As noted in D3 and identified in Form B: Prices, the Work of Part 2 will be contingent upon the Manitoba Hydro approving funding for the Work. If sufficient funding for Part 2 Work is not approved by the Manitoba Hydro the City shall have the right to eliminate all or any portion of Part 2 Work in accordance with D2.

PART C - GENERAL CONDITIONS

C0. 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, Purchasing Division website at http://www.winnipeg.ca/matmgt/gen_cond.stm
- 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 two parts:

- (a) Part 1 – City Funded Work; and
- (b) Part 2 – Manitoba Hydro Funded Work.

Part 1 – City Funded Work

D3.2 Part 1 – City Funded Work shall consist of:

D3.2.1 Grant Avenue

- (a) Pavement Rehabilitation:
 - (i) Grant Avenue Eastbound from Rockwood Street to Stafford Street; and
 - (ii) Grant Avenue Westbound from Stafford Street to Harrow Street.

D3.2.2 Taylor Avenue

- (a) Asphalt Reconstruction:
 - (i) Taylor Avenue Westbound from Lindsay Street to Centennial Street;
- (b) Pavement Rehabilitation:
 - (i) Taylor Avenue Eastbound from Renfrew Street to Lindsay Street.

Part 2 – Manitoba Hydro Funded Work

D3.3 Part 2 – Manitoba Hydro Funded Work shall consist of:

D3.3.1 Taylor Avenue

- (a) Street Lighting and Associated Works:
 - (i) Taylor Avenue Westbound from Lindsay Street to Centennial Street.

D3.4 The City currently has no approved funding in the Capital Budget for Part 2 of the Work, but is anticipating receiving notification about funding from the Manitoba Hydro by late May. Part 2 of the Work is contingent upon the Manitoba Hydro approving sufficient funding.

D3.4.1 Further to C7.1, if notice of sufficient funding is not received, the City shall have the right to eliminate all or any portion of Part 2, and the Contract Price will be reduced accordingly.

D3.4.2 Further to C7.5, C7.5.1, and C7.6, a reduction in the Contract Price pursuant to D3.4.1 shall not be considered in calculating the aggregate reduction in the Contract Price for purposes of C7.5.

D3.4.3 If all or any portion of Part 2 is eliminated pursuant to D3.4.1, the time periods stipulated in D23 for Substantial Performance of the Work and in D24 for Total Performance of the Work will be reduced proportionally by the Contract Administrator acting reasonably.

D3.5 The major components of the Work are as follows:

(a) Asphalt Pavement Reconstruction:

- (i) removal of existing pavement;
- (ii) construction of temporary asphalt widening and crossovers;
- (iii) excavation;
- (iv) installation of streetlights and associated infrastructure;
- (v) installation of Traffic Signal underground conduit, bases, and pits;
- (vi) manhole repairs;
- (vii) installation of catch basins and sewer service pipe;
- (viii) installation of subdrains;
- (ix) compaction of existing sub-grade;
- (x) repairs to existing mainline sewers and manholes;
- (xi) placement of separation/filtration geotextile fabric and Class A geogrid;
- (xii) placement of sub-base and base course (Granular A) materials;
- (xiii) adjustment of existing pavement appurtenances;
- (xiv) construction of two hundred (200) millimetres (mm) reinforced pavements at approaches and tie-ins;
- (xv) construction of monolithic concrete barrier curb with splash strip for asphalt pavement (one hundred eighty (180) mm height), concrete barrier curb for asphalt pavement, and modified barrier curb;
- (xvi) construction of concrete median slabs and bullnoses;
- (xvii) construction of splash strip;
- (xviii) construction of one hundred (100) mm concrete sidewalk with block outs for paving stone indicator surface;
- (xix) installation of paving stones;
- (xx) construction of asphalt pathways;
- (xxi) renewal of existing sidewalk;
- (xxii) completion of boulevard grading;
- (xxiii) placement of asphalt pavement (Type SP1 thickness fifty (50) mm (one (1) lift), Type SP2 thickness one hundred twenty (120) mm (two (2) lifts)); and
- (xxiv) installation of topsoil and sod;

(b) Pavement Rehabilitation:

- (i) planing of existing asphalt overlay as required;
- (ii) catch basin and catch basin lead repairs;
- (iii) repairs to existing mainline sewers and manholes;
- (iv) installation of Traffic Signal underground conduit, bases, and pits;
- (v) adjustment of existing pavement appurtenances;
- (vi) full depth (two hundred thirty (230) mm reinforced) concrete repairs of existing slabs and joints;
- (vii) renewal of curbs, curb ramps, bullnoses, sidewalks, and miscellaneous concrete slabs as required;
- (viii) installation of directional bar tiles;
- (ix) completion of boulevard grading;
- (x) installation of topsoil and sod;

- (xi) asphalt patching over full depth concrete repairs; placement of mainline asphalt overlay (average thickness eighty (80) mm) utilizing automatic grade control for final lift; and
- (xii) placement of tie-in asphalt overlay for project limits and private approaches.

D4. SITE INVESTIGATION DUE DILIGENCE AND RISK

D4.1 Notwithstanding C3.1, the Contractor acknowledges that the Site investigation reports and other Site information included in this Tender have been provided to it and may be relied upon by the Contractor to the extent that the Contractor uses Good Industry Practice in interpreting such report(s) and Site information and carries out the Work in accordance with Good Industry Practice based upon such report(s) and the information contained in them and such other Site information. In the event that a Site condition related to:

- (a) the location of any utility which can be determined from the records or other information available at the offices of any public authority or person, including a municipal corporation and any board or commission thereof, having jurisdiction or control over the utility;
- (b) the Site conditions, including but not limited to subsurface hazardous materials or other concealed physical conditions;
- (c) the location, nature, quality or quantity of the materials to be removed or to be employed in the performance of the Work;
- (d) the nature, quality or quantity of the Plant needed to perform the Work;
- (e) all matters concerning access to the Site, power supplies, location of existing services, utilities or materials necessary for the completion of the Work; and
- (f) all other matters which could in any way affect the performance of the Work;

that could not have been “properly inferable”, “readily apparent” and readily discoverable” using Good Industry Practice by the Contractor, results in additional Work which is a direct result of this newly discovered Site condition, such additional Work will be considered by the City under Changes in Work.

D5. DEFINITIONS

D5.1 When used in this Tender:

- (a) “**Local Street**” means an open (transversable) right-of-way that is not identified in Schedule E of the most recent City of Winnipeg By-Law No. 1481/77 (e.g., not a Regional Street);
- (b) “**Multi-Use Path**” means a hard surfaced facility, separated from vehicular lanes, which provides a path for mixed-use active transportation such as bicycles, pedestrians, and other vulnerable road users;
- (c) “**Regional Street**” means those streets listed in Schedule E of the most recent City of Winnipeg By-Law No. 1481/77;
- (d) “**Rehabilitation**” means pavement, curb and sidewalk repairs, replacement or adjustment of drainage infrastructure, adjustment of appurtenances in the pavement and boulevards, and an asphalt overlay; and
- (e) “**Supply Chain Disruption**” means an inability by the Contractor to obtain goods or services from third parties necessary to perform the Work of the Contract within the schedule specified therein, despite the Contractor making all reasonable commercial efforts to procure same. Contractors are advised that increased costs do not, in and of themselves, amount to a Supply Chain Disruption.

D6. CONTRACT ADMINISTRATOR

D6.1 The Contract Administrator is Dillon Consulting Limited, represented by:

Taran J Peters, P. Eng.
Project Manager

Telephone No. (204) 226-7429
Email Address tpeters@dillon.ca

D6.2 At the pre-construction meeting, Taran J Peters, P. Eng. will identify additional personnel representing the Contract Administrator and their respective roles and responsibilities for the Work.

D7. CONTRACTOR'S SUPERVISOR

D7.1 At the pre-construction meeting, the Contractor shall identify their designated supervisor and any additional personnel representing the Contractor and their respective roles and responsibilities for the Work.

D7.2 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 D7.1 or an alternate can be contacted twenty-four (24) hours a day to respond to an emergency.

D8. ACCESSIBLE CUSTOMER SERVICE REQUIREMENTS

D8.1 The Accessibility for Manitobans Act (AMA) imposes obligations on The City of Winnipeg to provide accessible customer service to all persons in accordance with the Customer Service Standard Regulation ("CSSR") to ensure inclusive access and participation for all people who live, work or visit Winnipeg regardless of their abilities.

D8.1.1 The Contractor agrees to comply with the accessible customer service obligations under the CSSR and further agrees that when providing the Goods or Services or otherwise acting on the City of Winnipeg's behalf, shall comply with all obligations under the AMA applicable to public sector bodies.

D8.1.2 The accessible customer service obligations include, but are not limited to:

- (a) providing barrier-free access to goods and services;
- (b) providing reasonable accommodations;
- (c) reasonably accommodating assistive devices, support persons, and support animals;
- (d) providing accessibility features e.g., ramps, wide aisles, accessible washrooms, power doors and elevators;
- (e) inform the public when accessibility features are not available;
- (f) providing a mechanism or process for receiving and responding to public feedback on the accessibility of all goods and services; and
- (g) providing adequate training of staff and documentation of same.

D9. UNFAIR LABOUR PRACTICES

D9.1 Further to C3.2, the Contractor declares that in bidding for the Work and in entering into this Contract, the Contractor and any proposed Subcontractor(s) conduct their respective business in accordance with established international codes embodied in United Nations Universal Declaration of Human Rights (UDHR) <https://www.un.org/en/about-us/universal-declaration-of-human-rights> International Labour Organization (ILO) <https://www.ilo.org/global/lang--en/index.htm> conventions as ratified by Canada.

- D9.2 The City of Winnipeg is committed and requires its Contractors and their Subcontractors, to be committed to upholding and promoting international human and labour rights, including fundamental principles and rights at work covered by ILO eight (8) fundamental conventions and the United Nations Universal Declaration of Human Rights which includes child and forced labour.
- D9.3 Upon request from the Contract Administrator, the Contractor shall provide disclosure of the sources (by company and country) of the raw materials used in the Work and a description of the manufacturing environment or processes (labour unions, minimum wages, safety, etc.).
- D9.4 Failure to provide the evidence required under D9.3, may be determined to be an event of default in accordance with C18.
- D9.5 In the event that the City, in its sole discretion, determines the Contractor to have violated the requirements of this section, it will be considered a fundamental breach of the Contract and the Contractor shall pay to the City a sum specified by the Contract Administrator in writing (“Unfair Labour Practice Penalty”). Such a violation shall also be considered an Event of Default, and shall entitle the City to pursue all other remedies it is entitled to in connection with same pursuant to the Contract.
- D9.5.1 The Unfair Labour Practice Penalty shall be such a sum as determined appropriate by the City, having due regard to the gravity of the Contractor’s violation of the above requirements, any cost of obtaining replacement goods/ services or rectification of the breach, and the impact upon the City’s reputation in the eyes of the public as a result of same.
- D9.5.2 The Contractor shall pay the Unfair Labour Practice Penalty to the City within thirty (30) Calendar Days of receiving a demand for same in accordance with D9.5. The City may also hold back the amount of the Unfair Labour Practice Penalty from payment for any amount it owes the Contractor.
- D9.5.3 The obligations and rights conveyed by this clause survive the expiry or termination of this Contract, and may be exercised by the City following the performance of the Work, should the City determine, that a violation by the Contractor of the above clauses has occurred following same. In no instance shall the Unfair Labour Practice Penalty exceed the total of twice the Contract value.

D10. FURNISHING OF DOCUMENTS

- D10.1 Upon award of the Contract, the Contractor will be provided with ‘issued for construction’ Contract Documents electronically, including Drawings in PDF format only.

SUBMISSIONS

D11. AUTHORITY TO CARRY ON BUSINESS

- D11.1 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.

D12. SAFE WORK PLAN

- D12.1 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.

D12.2 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, Purchasing Division website at <http://www.winnipeg.ca/matmgt/safety/default.stm>

D12.3 Notwithstanding B12.4 at any time during the term of the Contract, the City may, at their 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.

D13. INSURANCE

D13.1 The Contractor shall provide and maintain the following insurance coverage:

- (a) commercial general liability insurance, in the amount of at least five million dollars (\$5,000,000.00) per occurrence and ten million dollars (\$10,000,000.00) in the aggregate, with The City of Winnipeg, Canadian Pacific Kansas City Railway (CPKC) and BNSF Railway (BNSF) and Staubach Global Services – RR Inc. added as an additional insureds, with a cross-liability clause, such liability policy to also contain contractual liability, unlicensed motor vehicle liability, non-owned automobile liability, sudden and accidental pollution liability, cover and products and completed operations, and waiver of subrogation to remain in place at all times during the performance of the Work and throughout the warranty period, confirmation that the policy does not contain any exclusions or limitations for Work being done within 15.24 metres (fifty (50) feet) of the railroad;
- (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 two million dollars (\$2,000,000.00) 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 supplies and/or materials intended to enter into and form part of any installation; and
- (d) all risks property insurance to provide coverage for all Contractors equipment, field offices and portable toilets to be used in connection with the Work that may be owned, rented, leased or borrowed.

D13.2 Deductibles shall be borne by the Contractor.

D13.3 All policies shall be taken out with insurers licensed to carry on business in the Province of Manitoba.

D13.4 All Subcontractors performing work on the Project shall provide the Contractor with evidence of insurances as outlined in D13.1(a) and (b) above and be registered with Workers Compensation Board of Manitoba and maintain insurance and workers compensation coverage throughout the performance of the Work. The Contractor shall provide the Contract Administrator with evidence of same prior to the commencement of any work by the Subcontractor.

D13.5 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.

D13.6 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.

D14. CONTRACT SECURITY

D14.1 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.

D14.1.1 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; and
- (e) the results of the verification must provide a clear, immediate and printable indication of pass or fail regarding D14.1(b).

D14.1.2 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 their discretion, exercised reasonably, allows.

D14.1.3 Digital bonds passing the verification process will be treated as original and authentic.

D14.2 The Contractor shall provide the Contract Administrator identified in D6 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.

D14.3 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 D14.1(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.

D15. SUBCONTRACTOR LIST

D15.1 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 five (5) 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.

D16. DETAILED WORK SCHEDULE

D16.1 The Contractor shall provide the Contract Administrator with a detailed Work schedule 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 the General Conditions for the return of the executed Contract Documents, as applicable.

- D16.2 If, prior to submitting the Detailed Work Schedule, the Contractor does not receive notification pursuant to D18.4 that all or some portion of Part 2 of the Work may be commenced, they shall complete the Detailed Work Schedule for only Part 1 of the Work assuming that, if all of Part 2 is eliminated, the time periods stipulated in D23 for Substantial Performance of the Work and in D24 for Total Performance of the Work will be reduced by five (5) Working Days.
- D16.3 If, after submitting the Detailed Work Schedule, the Contractor receives notification that all or any portion of Part 2 of the Work may be commenced, they shall submit a revised Detailed Work Schedule no later than two (2) Business Days from receipt of the notification.
- D16.4 The detailed Work schedule shall consist of the following:
- (a) a Gantt chart for the Work based on the critical path schedule; acceptable to the Contract Administrator.
- D16.5 Further to D16.4(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.

D17. REQUIREMENTS FOR SITE ACCESSIBILITY PLAN

- D17.1 The Contractor shall provide the Contract Administrator with an Accessibility 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.
- D17.2 The Accessibility Plan shall demonstrate how the Contractor will accommodate the safe passage of pedestrians and cyclists in accordance with the Manual of Temporary Traffic Control, the Contract Drawings, Staging Plans, and Streets By-Law No. 1481/77 at all times for the duration of the Construction. Unless noted in the Contract, the Accessibility Plan must include a written plan for the following:
- (a) how the Contractor will maintain at least one (1) crossing in each direction for each intersection (one (1) north/south crosswalk and one (1) east/west crosswalk);
 - (b) how the Contractor will maintain access to bus stops within the Site;
 - (c) how the Contractor will maintain access to pedestrian corridors and half signals;
 - (d) how the Contractor will maintain cycling facilities;
 - (e) how the Contractor will maintain access to residents and businesses unless otherwise noted in the Contract; and
 - (f) any required detour signage at adjacent crossings to facilitate sidewalk or active transportation pathway closures.
- D17.3 The Accessibility Plan may also include figures, sketches, or Drawings to demonstrate the proposed plan.
- D17.4 The Accessibility Plan shall include written details on how the Contractor intends to review, maintain, and document all items related to the Accessibility Plan on-Site during Construction, including, but not limited to:
- (a) Signage
 - (b) Temporary Ramping
 - (c) Transit Stops
 - (d) Detour Signage
- D17.5 At minimum, the Contractor shall review the Site conditions on a daily basis to ensure that all features related to the Accessibility Plan are in place. The Site review is intended to correct

deficiencies as a result of unforeseen events such as wind, traffic, or the general public. Deficiencies that are direct result of the Contractors actions must be corrected immediately.

- D17.6 Any changes to the Accessibility Plan must be approved by the Contract Administrator.
- D17.7 Upon request from the Contract Administrator, the Contractor shall provide records demonstrating that the Site has been maintained.
- D17.8 Deficiencies as a direct result of actions by the Contractor that are not immediately corrected and/or failure to produce records that demonstrate that the Site was maintained in compliance with the Accessibility Plan may result in a pay adjustment via the monthly Progress Payment. The rate of pay adjustment will be as per the following schedule:
- (a) First Offence – A warning will be issued and documented in the weekly or bi-weekly Site meeting;
 - (b) Second Offence – A field instruction to immediately correct the Site will be issued by the Contract Administrator; and
 - (c) Third and subsequent Offences – A pay reduction will be issued in the amount of two hundred fifty dollars (\$250.00) per instance and per day.

SCHEDULE OF WORK

D18. COMMENCEMENT

- D18.1 The Contractor shall not commence any Work until they are in receipt of an award letter from the Award Authority authorizing the commencement of the Work.
- D18.2 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 D11;
 - (ii) evidence of the workers compensation coverage specified in C6.15;
 - (iii) the twenty-four (24) hour emergency response phone number specified in D7.2;
 - (iv) the Safe Work Plan specified in D12;
 - (v) evidence of the insurance specified in D13;
 - (vi) the Contract security specified in D14;
 - (vii) the Subcontractor list specified in D15;
 - (viii) the detailed Work schedule specified in D16;
 - (ix) the Requirements for Site Accessibility Plan specified in D17; and
 - (x) the direct deposit application form specified in D31;
 - (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.
- D18.3 The Contractor shall commence the Work on the Site within seven (7) Working Days of receipt of the award letter.
- (a) The Contractor shall not commence the Work on the Site before May 21, 2024, and shall commence the Work on Site no later than May 30, 2024, as directed by the Contract Administrator and weather permitting.
- D18.4 The Contractor shall not commence Part 2 of the Work as described in D3 and identified in Form B: Prices, unless they have received notification from the Contract Administrator that the City has received notice of sufficient funding from Manitoba Hydro.
- D18.5 The City intends to award this Contract by May 17, 2024.

D18.5.1 If the actual date of award is later than the intended date, the dates specified for Critical Stages, Substantial Performance, and Total Performance will be adjusted by the difference between the aforementioned intended and actual dates.

D19. WORKING DAYS

D19.1 Further to C1.1(tt);

D19.1.1 The Contract Administrator will determine daily if a Working Day has elapsed and will record their 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 they agree with the Contract Administrator's determination of the Working Days assessed for the report period.

D19.1.2 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.

D19.1.3 When the Work includes two (2) 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.

D19.1.4 Further to D20.1, if a Contractor receives permission from the Contract Administrator for Work to be performed on Saturdays and Sundays, these days will be considered Working Days if the Contract Administrator deems that they are also required on Site.

D20. RESTRICTED WORK HOURS

D20.1 Further to 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.

D20.2 The following work hour restrictions shall also apply:

(a) Manitoba Marathon June 16, 2024;

(i) The Contractor is to maintain all lanes of traffic on Harrow Street on the event day. Harrow Street and the adjacent area shall be left clean and free of debris, and the Contractor shall complete any temporary measures as required by the Manitoba Marathon prior to the event day.

D21. WORK BY OTHERS

D21.1 Further to C6.25, the Contractor's attention is directed to the fact that other Contractors, the personnel of Utilities and the staff of the City may be working within the project limit, approach roadway, adjacent roadways or right-of-way. The activities of these agencies may coincide with the Contractors execution of Work and it will be the Contractor's responsibility to cooperate to the fullest extent with other personnel working in the area, and such cooperation is an obligation of the Contractor under the terms of Contract.

D21.2 Work by others on or near the Site will include but not necessarily be limited to:

(a) City of Winnipeg Traffic Services – Traffic Control to be completed by the Contractor in accordance with E7. Contractor to coordinate with Traffic Services to supply regulatory signage as required at make arrangements to reinstall the permanent regulatory signs after the Contract is complete. Traffic Services will provide sign clamps and line painting;

(b) City of Winnipeg Traffic Signals – Traffic Signals Branch will be responsible for coordinating removal of above ground plant and cabling to facilitate the installation of the underground plant. The Contractor must coordinate with Traffic Signals such that the signals operations at each intersection are maintained except where permitted by the

Contract Administrator and Traffic Signals Branch. This may result in Work being completed in multiple stages;

- (c) City of Winnipeg Transit – Transit will remove existing bus shelters, benches, bus stop signs, stop flags and totems for reuse and provide temporary Transit stop signage. The Contractor is to coordinate with Transit for the location of temporary stops and provide a safe, delineated area with temporary ramps where needed. Transit will reinstall shelters, benches, stop signage, stop flags and totems after construction;
- (d) Manitoba Hydro – Manitoba Hydro will activate and energize the new streetlight plant installed by the Contractor. Manitoba Hydro will provide inspection of new street lighting hardware installed by the Contractor. Manitoba Hydro will complete the Grant and Wilton street light relocation;
- (e) Manitoba Hydro, Gas Division – relocation of gas mains and/or lowering/rockwrapping of underground main and services as required;
- (f) BellMTS, Telus, Shaw – relocations, and adjustments as required;
- (g) Benchmark – Benchmark will remove and reinstall advertising Transit benches; and
- (h) CPKC Railway, BNSF Railway – Installation of crossing surface at railway crossing between Lindsay Street and Renfrew Street, provision of railway flagging services.

D21.3 Further to D21.1 the Contractor shall cooperate and coordinate all activities with all parties performing required Work by Others. The Contractor must include and accommodate Work by Others identified in D21.2 or additional parties, in their construction schedule as per D16 and accommodate the necessary area on Site required for the Work by Others to complete the Work.

D22. SEQUENCE OF WORK

D22.1 Further to C6.1, the sequence of Work shall be as follows:

D22.1.1 A recommended traffic staging plan has been included in E1.4 and is generally as follows:

(a) **Grant Avenue – Rockwood Street to Stafford Street**

(i) **Stage I – Median Lane Rehabilitation:**

- ◆ concrete pavement slab and joint work, and adjustments to pavement structures and appurtenances;
- ◆ median and splash strip Rehabilitation;
- ◆ boulevard grading and placing topsoil;
- ◆ placing of first lift (scratch) of asphalt; and
- ◆ laying of sod;

(ii) **Stage II – Curb Lane Rehabilitation:**

- ◆ concrete pavement slab and joint work, and adjustments to pavement structures and appurtenances;
- ◆ curb and splash strip Rehabilitation;
- ◆ boulevard grading and placing topsoil;
- ◆ placing of first lift (scratch) of asphalt; and
- ◆ laying of sod;

(iii) **Stage III – All Lanes:**

- ◆ placing of final lift of asphalt for Stage I and II; and
- ◆ placing of sod (if not done previously during topsoil placement);

(b) **Taylor Avenue – Centennial Street to Lindsay Street**

(i) **Stage I – Westbound Reconstruction – Centennial to Renfrew:**

- ◆ construct temporary crossovers as needed;
 - ◆ pavement and curb removals;
 - ◆ complete underground works and sewer/manhole repairs;
 - ◆ roadway excavation and sub-base/base construction;
 - ◆ concrete roadway construction of side streets and back lanes;
 - ◆ construct concrete Multi-Use Path including paving band on north side;
 - ◆ boulevard grading and placing topsoil;
 - ◆ placement of asphalt pavement (Type SP1 thickness fifty (50) mm (one (1) lift), Type SP2 thickness one hundred twenty (120) mm (two (2) lifts)); and
 - ◆ laying of sod;
- (ii) **Stage II – Median Lane Rehabilitation/Reconstruction Renfrew to Lindsay:**
- ◆ pavement and curb removals;
 - ◆ roadway excavation and sub-base/base construction;
 - ◆ concrete roadway construction of side streets and back lanes;
 - ◆ concrete pavement slab and joint work, and adjustments to pavement structures and appurtenances;
 - ◆ median and splash strip construction;
 - ◆ boulevard grading and placing topsoil;
 - ◆ placement of asphalt pavement (Type 1A thickness fifty (50) mm (one (1) lift), Type III thickness one hundred twenty (120) mm (two (2) lifts)); and
 - ◆ laying of sod;
- (iii) **Stage III – Curb Lane Rehabilitation/Reconstruction Renfrew to Lindsay:**
- ◆ pavement and curb removals;
 - ◆ roadway excavation and sub-base/base construction;
 - ◆ concrete roadway construction of side streets and backlines;
 - ◆ concrete pavement slab and joint work, and adjustments to pavement structures and appurtenances;
 - ◆ concrete roadway construction of side streets and backlines;
 - ◆ median and splash strip construction;
 - ◆ boulevard grading and placing topsoil;
 - ◆ placement of asphalt pavement (Type SP1 thickness fifty (50) mm (one (1) lift), Type SP2 thickness one hundred twenty (120) mm (two (2) lifts)); and
 - ◆ laying of sod.
- (iv) **Stage IV – Full closure at CPKC/BNSF Railway Crossing:**
- ◆ crossing surface upgrades done by CPKC/BNSF; and
 - ◆ final asphalt tie-in to new rail crossing surface.

D22.1.2 Placing the topsoil and finished grading of all boulevard and median areas shall be completed prior to commencing construction of the asphaltic concrete overlay, including the scratch course.

D22.1.3 The schedule for Stage IV is pending the finalized CPKC and BNSF construction agreements. If the agreements are not finalized by fall 2024, the tie-in work at the rail crossing (Stage IV) will be delayed to spring 2025. Contractor to work with the Contract

Administrator to ensure the Site is left safe and accessible over winter, and all lanes of traffic are open. All Work in this stage is to be completed over one (1) weekend in coordination with CPKC and BNSF as per E23 and the Traffic Staging Drawings.

D23. SUBSTANTIAL PERFORMANCE

- D23.1 The Contractor shall achieve Substantial Performance within eighty five (85) consecutive Working Days of the commencement of the Work as specified in D18.
- D23.2 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.
- D23.3 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.

D24. TOTAL PERFORMANCE

- D24.1 The Contractor shall achieve Total Performance within ninety (90) consecutive Working Days of the commencement of the Work as specified in D18.
- D24.2 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.
- D24.3 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.

D25. LIQUIDATED DAMAGES

- D25.1 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 – four thousand dollars (\$4,000.00);
 - (b) Total Performance – one thousand five hundred dollars (\$1,500.00).
- D25.2 The amounts specified for liquidated damages in D25.1 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.
- D25.3 The City may reduce any payment to the Contractor by the amount of any liquidated damages assessed.

D26. SUPPLY CHAIN DISRUPTION SCHEDULE DELAYS

- D26.1 The City acknowledges that the schedule for this Contract may be impacted by the Supply Chain Disruption. Commencement and progress of the Work shall be performed by the Contractor with due consideration to the delivery requirements and schedule identified in the Contract, in close consultation with the Contract Administrator.

- D26.2 If the Contractor is delayed in the performance of the Work by reason of the Supply Chain Disruption, 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.
- D26.3 A minimum of seven (7) Calendar Days prior to the commencement of Work, the Contractor shall declare whether a Supply Chain Disruption will affect the start date. The Contractor shall provide sufficient evidence that the delay is directly related to ordering of Material or Goods, production and/or manufacturing schedules or availability of staff as appropriate s.
- D26.4 For any delay related to Supply Chain Disruption 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 D26.3. Failure to provide this notice will result in no additional time delays being considered by the City.
- D26.5 The Work schedule, including the durations identified in D20 to D24 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.
- D26.6 Where Work not previously identified is being carried over solely as a result of delays related to Supply Chain Disruption, 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 Supply Chain Disruption, a partial consideration of the cost of temporary works will be considered by the Contract Administrator.
- D26.7 Any time or cost implications as a result of Supply Chain Disruption and in accordance with the above, as confirmed by the Contract Administrator, shall be documented in accordance with C7.

D27. SCHEDULED MAINTENANCE

- D27.1 The Contractor shall perform the following scheduled maintenance in the manner and within the time periods required by the Specifications:
- (a) sod maintenance as specified in CW 3510; and
 - (b) reflective crack maintenance as specified in CW 3250.
- D27.2 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

D28. JOB MEETINGS

- D28.1 Regular weekly job meetings will be held at the Site. These meetings shall be attended by a minimum of one (1) representative of the Contract Administrator, one (1) representative of the City and one (1) representative of the Contractor. Each representative shall be a responsible person capable of expressing the position of the Contract Administrator, the City and the Contractor respectively on any matter discussed at the meeting including the Work schedule and the need to make any revisions to the Work schedule. The progress of the Work will be reviewed at each of these meetings.
- D28.2 The Contract Administrator reserves the right to cancel any job meeting or call additional job meetings whenever they deem it necessary.

D29. PRIME CONTRACTOR – THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA)

D29.1 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).

D30. THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA) – QUALIFICATIONS

D30.1 Further to B12.4, the Contractor/Subcontractor must, throughout the term of the Contract, have a Workplace Safety and Health Program meeting the requirements of The Workplace Safety and Health Act (Manitoba). At any time during the term of the Contract, the City may, at their sole discretion and acting reasonably, require updated proof of compliance, as set out in B12.4.

MEASUREMENT AND PAYMENT

D31. PAYMENT

D31.1 Further to C12, the City shall make payments to the Contractor by direct deposit to the Contractor's banking institution, and by no other means. Payments will not be made until the Contractor has made satisfactory direct deposit arrangements with the City. Direct deposit application forms are at https://winnipeg.ca/finance/files/Direct_Deposit_Form.pdf.

D32. FUEL PRICE ADJUSTMENT

D32.1 The Contract is subject to a fuel price adjustment which will be calculated monthly based on eligible Work completed utilizing the following mathematical formulas:

- (a) where the price of fuel has increased – $((CFI/BFI)-1.15) \times Q \times FF$; and
- (b) where the price of fuel has decreased – $((CFI/BFI)-0.85) \times Q \times FF$; where
 - (i) BFI = base fuel index
 - (ii) CFI = current fuel index
 - (iii) FF = fuel factor
 - (iv) Q = monetary value of Work applied in the calculation.

D32.1.1 Eligible Work will be determined in accordance with D32.5.

D32.1.2 The base fuel index (BFI) will be the retail price of fuel identified on the Submission Deadline based on latest published "Monthly average retail prices for gasoline and fuel by geography" for Winnipeg, published by [Statistics Canada, Table 18-10-0001-01](#). The BFI is a blended rate based on 15% regular unleaded gasoline at self-service filling stations and eighty-five percent (85%) diesel fuel at self-service filling stations.

D32.1.3 The current fuel index (CFI) based on the above blended rate will be determined for each monthly progress estimate and applied on the following progress estimate as a change order once rates are published by Statistics Canada.

D32.1.4 A Fuel Factor (FF) rate of the monetary value of all eligible Work completed that month based on the Contract unit prices will be used to calculate the assumed apportioned cost of fuel.

D32.2 Fuel cost adjustments may result in additional payment to the Contractor or credit to the City within the Contract by way of a monthly change order.

D32.3 The fuel escalation or de-escalation adjustment will not be applied if the CFI is within plus or minus fifteen percent ($\pm 15\%$) of the BFI.

D32.4 Fuel escalation adjustments will not be considered beyond the Substantial Performance/Critical Stages except where those dates/Working Days are adjusted by change order. Fuel de-

escalation adjustments will apply for Work that extends beyond the dates/Working Days specified for Substantial Performance/Critical Stages.

D32.5 The FF rates will be set as follows:

- (a) The FF rate shall be set at 2.7% of the monetary value of all Work based on unit prices except for the portions of the Contract identified in D32.5(b).
- (b) The FF will not apply to the following portions of the Work identified on Form B: Prices:
 - (i) Section E – Taylor Avenue – Water and Waste Work;
 - (ii) Section F – Grant Avenue – Water and Waste Work;
 - (iii) Section G – Taylor Avenue – Traffic Signals;
 - (iv) Section H – Grant Avenue – Traffic Signals; and
 - (v) Section I – Taylor Avenue Street Lighting.

WARRANTY

D33. WARRANTY

D33.1 Notwithstanding C13.2, the warranty period shall begin on the date of Total Performance and shall expire one (1) year thereafter for pavement Rehabilitation works, and two (2) years thereafter for pavement reconstruction works, unless extended pursuant to C13.2.1 or C13.2.2, in which case it shall expire when provided for thereunder.

D33.2 Notwithstanding C13.2 or D33.1, 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) 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.

D33.2.1 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.

DISPUTE RESOLUTION

D34. DISPUTE RESOLUTION

D34.1 If the Contractor disagrees with any opinion, determination, or decision of the Contract Administrator, the Contractor shall act in accordance with the Contract Administrator's opinion, determination, or decision unless and until same is modified by the process followed by the parties pursuant to D34.

D34.2 The entire text of C21.4 is deleted, and amended to read: "Intentionally Deleted".

D34.3 The entire text of C21.5 is deleted, and amended to read:

- (a) If Legal Services has determined that the Disputed Matter may proceed in the Appeal Process, the Contractor must, within ten (10) Business Days of the date of the Legal Services Response Letter, submit their written Appeal Form, in the manner and format set out on the City's Purchasing Website, to the Chief Administrative Officer, and to the Contract Administrator. The Contractor may not raise any other disputes other than the Disputed Matter in their Appeal Form.

D34.4 Further to C21, prior to the Contract Administrator's issuance of a Final Determination, the following informal dispute resolution process shall be followed where the Contractor disagrees with any opinion, determination, or decision of the Contract Administrator ("Dispute"):

- (a) In the event of a Dispute, attempts shall be made by the Contract Administrator and the Contractor's equivalent representative to resolve Disputes within the normal course of

project dealings between the Contract Administrator and the Contractor's equivalent representative.

- (b) Disputes which in the reasonable opinion of the Contract Administrator or the Contractor's equivalent representative cannot be resolved within the normal course of project dealings as described above shall be referred to a without prejudice escalating negotiation process consisting of, at a minimum, the position levels as shown below and the equivalent Contractor representative levels:
- (i) the Contract Administrator;
 - (ii) Supervisory level between the Contract Administrator and applicable Department Head; and
 - (iii) Department Head.

D34.4.1 Names and positions of Contractor representatives equivalent to the above City position levels shall be determined by the Contractor and communicated to the City at the pre-commencement or kick off meeting.

D34.4.2 As these negotiations are not an adjudicative hearing, neither party may have legal counsel present during the negotiations.

D34.4.3 Both the City and the Contractor agree to make all reasonable efforts to conduct the above escalating negotiation process within twenty (20) Business Days, unless both parties agree, in writing, to extend that period of time.

D34.4.4 If the Dispute is not resolved to the City and Contractor's mutual satisfaction after discussions have occurred at the final escalated level as described above, or the time period set out in D34.4.3, as extended if applicable, has elapsed, the Contract Administrator will issue a Final Determination as defined in C1.1(v), at which point the parties will be governed by the Dispute Resolution process set out in C21.

INDEMNITY

D35. INDEMNITY

D35.1 Indemnity shall be as stated in C17.

D35.2 Notwithstanding C17.1, the Contractor shall save harmless and indemnify the City in the amount of twice the Contract Price or five million dollars (\$5,000,000.00), whichever is greater, against all costs, damages or expenses arising from actions, claims, demands and proceedings, by whomsoever brought, made or taken as a result of negligent acts or negligent omissions of the Contractor, their Subcontractors, employees or agents in the performance or purported performance of the Work, and more particularly from:

- (a) accidental injury to or death of any person whether retained by or in the employ of the Contractor or not, arising directly or indirectly by reason of the performance of the Work, or by reason of any trespass on or damage to property;
- (b) damage to any property owned in whole or in part by the City, or which the City by duty or custom is obliged, directly or indirectly, in any way or to any degree, to construct, repair or maintain;
- (c) damage to, or trespass or encroachment upon, property owned by persons other than the City;
- (d) any claim for lien or trust claim served upon the City pursuant to The Builders' Liens Act;
- (e) failure to pay a Workers Compensation assessment, or Federal or Provincial taxes;
- (f) unauthorized use of any design, device, material or process covered by letters patent, copyright, trademark or trade name in connection with the Work; and
- (g) inaccuracies in any information provided to the City by the Contractor.

D35.3 Further to C17, The City shall save harmless and indemnify the Contractor in the amount of twice the Contract Price or five million dollars (\$5,000,000.00), whichever is greater, against all costs, damages or expenses arising from actions, claims, demands and proceedings, by whomsoever brought, made or taken as a result of negligent acts or negligent omissions of the City, their employees or agents in the performance of its obligation under the Contract.

THIRD PARTY AGREEMENTS

D36. FUNDING AND/OR CONTRIBUTION AGREEMENT OBLIGATIONS

D36.1 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.

D36.2 Further to D36.1, in the event that the obligations in D36 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.

D36.3 For the purposes of D36:

- (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.

D36.4 Modified Insurance Requirements

D36.4.1 If not already required under the insurance requirements identified in D13, the Contractor will be required to provide wrap-up liability insurance in an amount of no less than two million dollars (\$2,000,000.00) inclusive per occurrence. Such policy will be written in the joint names of the City, Contractor, Consultants and all Subcontractors and Subconsultants and include twelve (12) months completed operations. The Government of Manitoba and their Ministers, officers, employees, and agents shall be added as additional insureds.

D36.4.2 If not already required under the insurance requirements identified in D13, 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.

D36.4.3 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.

D36.4.4 Further to D13.5, 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.

D36.4.5 All policies must be taken out with insurers licensed to carry on business in the Province of Manitoba.

D36.5 Indemnification By Contractor

D36.5.1 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.

- D36.5.2 The Contractor agrees that in no event will Canada or Manitoba, their respective officers, servants, employees or agents be held liable for any damages in Contract, tort (including negligence) or otherwise, for:
- (a) any injury to any person, including, but not limited to, death, economic loss or infringement of rights;
 - (b) any damage to or loss or destruction of property of any person; or
 - (c) any obligation of any person, including, but not limited to, any obligation arising from a loan, capital lease or other long term obligation;

in relation to this Contract or the Work.

D36.6 Records Retention and Audits

D36.6.1 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.

D36.6.2 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 D36.6.1 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.

D36.7 Other Obligations

D36.7.1 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.

D36.7.2 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.

D36.7.3 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.

D36.7.4 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.

- D36.7.5 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.
- D36.7.6 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 D13)

KNOW EVERYONE BY THESE PRESENTS THAT

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

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

_____ dollars (\$_____.)

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

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

TENDER NO. 179-2024

2024 REGIONAL STREET PROGRAM: GRANT AVENUE AND TAYLOR AVENUE PAVEMENT
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:

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

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

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

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

_____ day of _____, 20____.

SIGNED AND SEALED
in the presence of:

(Witness as to Principal if no seal)

(Name of Principal)

Per: _____ (Seal)

Per: _____

(Name of Surety)

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

FORM H2: LABOUR AND MATERIAL PAYMENT BOND
(See D13)

KNOW EVERYONE BY THESE PRESENTS THAT

his/its heirs, executors, administrators, successors or assigns (hereinafter called the "Principal"), and

his/its heirs, executors, administrators, successors or assigns (hereinafter called the "Surety"), are held and firmly bound unto **THE CITY OF WINNIPEG** (hereinafter called the "Obligee"), for the use and benefit of claimants as herein below 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. 179-2024

2024 REGIONAL STREET PROGRAM: GRANT AVENUE AND TAYLOR AVENUE PAVEMENT 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; and
 - (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; and
- (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.

IN TESTIMONY WHEREOF, the Principal has hereunto set its hand affixed its seal, and the Surety has caused these presents to be sealed and with its corporate seal duly attested by the authorized signature of its signing authority this

_____ day of _____, 20____ .

SIGNED AND SEALED
in the presence of:

(Witness as to Principal if no seal)

(Name of Principal)

Per: _____ (Seal)

Per: _____

(Name of Surety)

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

FORM J: SUBCONTRACTOR LIST
 (See D15)

2024 REGIONAL STREET PROGRAM: GRANT AVENUE AND TAYLOR AVENUE PAVEMENT RENEWALS

<u>Portion of the Work</u>	<u>Name</u>	<u>Address</u>
Supply of Materials		
Base Course and Sub-base Course		
Concrete		
Asphalt		
Topsoil/sod		
Precast Concrete Catchbasins/Catch Pits		
Frames/Covers		
Installation/Construction		
Excavation and Base Works		
Concrete		
Asphalt		
Landscaping		
Catchbasins and Connections		
Subdrains		
Street Lighting		
Traffic Signals		

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 their 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, Purchasing 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:

<u>Drawing No.</u>	<u>Drawing Name/Title</u>	<u>Drawing (Original) Sheet Size</u>
	COVER SHEET	A1
P-3574-01	GRANT AVENUE – PLAN-PROFILE (START TO STA. 1+120)	A1
P-3574-02	GRANT AVENUE – PLAN-PROFILE (STA. 1+120 TO 1+280)	A1
P-3574-03	GRANT AVENUE – PLAN-PROFILE (STA. 1+280 TO 1+440)	A1
P-3574-04	GRANT AVENUE – PLAN-PROFILE (STA. 1+440 TO 1+600)	A1
P-3574-05	GRANT AVENUE – PLAN-PROFILE (STA. 1+600 TO END)	A1
P-3574-06	HARROW STREET	A1
P-3574-07	TAYLOR AVENUE – PLAN-PROFILE (START TO STA. 1+115)	A1
P-3574-08	TAYLOR AVENUE – PLAN-PROFILE (STA. 1+115 TO 1+275)	A1
P-3574-09	TAYLOR AVENUE – PLAN-PROFILE (STA. 1+275 TO 1+435)	A1
P-3574-10	TAYLOR AVENUE – PLAN-PROFILE (STA. 1+435 TO END)	A1
P-3574-11	GRANT SECTIONS	A1
P-3574-12	TAYLOR SECTIONS	A1
P-3574-13	GRANT TRAFFIC STAGING – STAGE 1 (1 OF 2)	A1
P-3574-14	GRANT TRAFFIC STAGING – STAGE 1 (2 OF 2)	A1
P-3574-15	GRANT TRAFFIC STAGING – STAGE 2 (1 OF 2)	A1
P-3574-16	GRANT TRAFFIC STAGING – STAGE 2 (2 OF 2)	A1
P-3574-17	GRANT TRAFFIC STAGING – STAGE 3	A1
P-3574-18	TAYLOR TRAFFIC STAGING – STAGE 1 (1 OF 2)	A1
P-3574-19	TAYLOR TRAFFIC STAGING – STAGE 1 (2 OF 2)	A1
P-3574-20	TAYLOR TRAFFIC STAGING – STAGE 2 (1 OF 2)	A1
P-3574-21	TAYLOR TRAFFIC STAGING – STAGE 2 (2 OF 2)	A1
P-3574-22	TAYLOR TRAFFIC STAGING – STAGE 3 (1 OF 2)	A1
P-3574-23	TAYLOR TRAFFIC STAGING – STAGE 3 (2 OF 2)	A1
P-3574-24	TAYLOR TRAFFIC STAGING – STAGE 4 (1 OF 3)	A1
P-3574-25	TAYLOR TRAFFIC STAGING – STAGE 4 (2 OF 3)	A1
P-3574-26	TAYLOR TRAFFIC STAGING – STAGE 4 (3 OF 3)	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(s); and
 - (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; and
 - (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.
- E2.6.1 Further to B9, B17, C12 and E2.6, should the lump sum price exceed five percent (5%) of the Total Bid Price the lump sum price will be reduced to five percent (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) Sixty percent (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 forty percent (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; and
 - (ii) distribution of the Declaration of Total Performance.

E2.9 Pay Reduction for Accessibility Plan

- (a) The Demobilization payment will be reduced by the number of pay adjustments incurred in accordance with D17 and as determined by the Contract Administrator.

E2.10 Mobilization and Demobilization will be paid only once (to a maximum of one hundred percent (100%)), regardless of the number of times the Contractor mobilizes to the Site and/or Sites.

E3. GEOTECHNICAL REPORT

E3.1 Further to C3.1, the geotechnical report is provided to aid the Contractor's evaluation of the pavement structure and/or existing soil conditions. The geotechnical report is contained in Appendix 'A'.

E4. OFFICE FACILITIES

E4.1 The Contractor shall supply office facilities meeting the following requirements:

- (a) the field office shall be for the exclusive use of the Contract Administrator;
- (b) the building shall be conveniently located near the Site of the Work;
- (c) the building shall have a minimum floor area of twenty-five (25) square metres, a height of 2.4 metres with two (2) windows for cross ventilation and a door entrance with a suitable lock;
- (d) the building shall be suitable for all weather use. It shall be equipped with an electric heater and air conditioner so that the room temperature can be maintained between either sixteen (16) to eighteen (18) degrees Celsius or twenty-four (24) to twenty-five (25) degrees Celsius;
- (e) the building shall be adequately lighted with fluorescent fixtures and have a minimum of three (3) wall outlets;
- (f) the building shall be furnished with one (1) desk, one (1) drafting table, table three (3) metres by 1.2 metres, one (1) stool, one (1) four (4) drawer legal size filing cabinet, and a minimum of twelve (12) chairs;
- (g) a portable toilet shall be located near the field office building. The toilet shall have a locking door and be for the exclusive use of the Contract Administrator and other personnel from the City; and
- (h) the field office building and the portable toilet shall be cleaned on a weekly basis immediately prior to each Site meeting. The Contract Administrator may request additional cleaning when they deem it necessary.

E4.2 The Contractor shall be responsible for all installation and removal costs, all operating costs, and the general maintenance of the office facilities.

E4.3 The office facilities will be provided from the date of the commencement of the Work to the date of Total Performance.

E4.4 On a one-time basis, where directed by the Contract Administrator, the Contractor shall relocate the office facilities to a location more convenient for the remaining Work.

E5. PROTECTION OF EXISTING TREES

E5.1 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 two (2) metres of trees;
- (b) trees identified to be at risk by the Contract Administrator are to be strapped with twenty-five (25) by one hundred (100) by two thousand four hundred (2,400) mm 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.

E5.2 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 their designate.

E5.3 No separate measurement or payment will be made for the protection of trees.

E5.4 Except as required in E5.1(c) and E5.1(e), Elm trees shall not be pruned at any time between April 1 and July 31.

E6. TRAFFIC CONTROL

E6.1 Further to 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 CW 3410.
- (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, the Contract Drawings, Staging Plans and Traffic Management Plans 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.
- (c) In addition, the Contractor shall be responsible for **supplying**, removing, placing and maintaining all regulatory signing including but not limited to:
 - (i) parking restrictions;
 - (ii) stopping restrictions;
 - (iii) turn restrictions;
 - (iv) diamond lane removal;
 - (v) full or directional closures on a Regional Street;
 - (vi) traffic routed across a median; and
 - (vii) 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.

(d) The Contractor shall remove and stockpile any regulatory signage not required during construction such as, but not limited to, parking restrictions, turn restrictions and loading restrictions.

- E6.2 Upon request from the Contract Administrator, the Contractor shall provide records demonstrating that the Site has been maintained.
- E6.3 Further to E6.1(c) and E6.1(d) the Contractor shall make arrangements with the Traffic Services Branch of the City of Winnipeg to reinstall the permanent regulatory signs after the Contract Work is complete. The Contractor shall make arrangements to drop off the stockpiled materials to Traffic Services at 495 Archibald Street.
- E6.4 Any changes to the approved Traffic Management Plan must be submitted to the Contract Administrator a minimum of five (5) Working Days prior to the required change for approval.
- E6.5 If the Contract Administrator determines that the Contractor is not performing Traffic Control in accordance with this Specification, Traffic Services may be engaged to perform the Traffic Control. In this event the Contractor shall bear costs charged to the project by the Traffic Services Branch of the City of Winnipeg in connection with the required Works.

E7. TRAFFIC MANAGEMENT

- E7.1 Further to 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.
- E7.1.1 Maintain a minimum of one (1) lane in each direction at all times during construction, except for Stage 4 which requires a full closure, as shown on the Drawings.
- E7.1.2 Where left turn lanes exist, an additional lane to accommodate the left turn storage lane shall be maintained at all times.
- E7.1.3 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 ten (10) minutes during asphalt planing/paving operations and shall be completed during off peak hours.
- E7.1.4 Flag persons may be necessary to maintain the flow of traffic during certain work operations.
- E7.1.5 Should the Contractor be unable to maintain pedestrian or vehicular access to a residence or business, they 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 twenty-four (24) hours notification to the affected residence or business and the Contract Administrator, prior to disruption of access.
- E7.1.6 Pedestrian access must be maintained at all times.
- E7.1.7 Ambulance/emergency vehicle access must be maintained at all times.
- E7.1.8 Refer to Traffic Staging Drawings P-3574-13 to P-3574-26 for traffic management details for each stage.
- E7.1.9 Any proposed modifications to the construction staging and/or traffic managements plans outlined in the Contract Documents must be approved by the Contract Administrator.

E8. REFUSE AND RECYCLING COLLECTION

E8.1 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 E8.2 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.

E8.2 Collection Schedule:

Taylor Avenue

Collection Day(s): **Monday**

Collection Time: **AM**

Common Collection Area: **Backlane pick up, Contractor to ensure access to back lanes are maintained**

E8.3 No measurement or payment will be made for the Work associated with this Specification.

E9. PEDESTRIAN SAFETY

E9.1 During the project, a temporary snow fence shall be installed where hazards exist adjacent to pedestrian facilities, such as open excavations. The Contractor shall be responsible for maintaining the snow fence in a proper working condition. No measurement for payment shall be made for this Work.

E10. WATER OBTAINED FROM THE CITY

E10.1 Further to 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.

E11. SURFACE RESTORATIONS

E11.1 Further to 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.

E12. INFRASTRUCTURE SIGNS

E12.1 The Contractor shall obtain infrastructure signs from the Traffic Services Sign Shop at 421 Osborne Street. The Contractor shall mount each sign securely to a rigid backing material approved by the Contract Administrator. The Contractor shall fasten each sign to a suitable support and erect and maintain one (1) sign at each street as directed by the Contract Administrator. When the Contract Administrator considers the Work on the street complete, the Contractor shall remove and dispose of the signs and supports. No measurement for payment will be made for performing all operations herein described and all other items incidental to the Work described.

E13. PORTLAND CEMENT CONCRETE SIDEWALK WITH BLOCK OUTS FOR INDICATOR SURFACES

DESCRIPTION

E13.1 This Specification shall supplement CW 3325-R5 "Portland Cement Concrete Sidewalks".

CONSTRUCTION METHODS

E13.2 Add the following to section 9:

E13.2.1 As shown on the Drawings and as directed by the Contract Administrator, construct sidewalk with block outs and/or monolithic curb and sidewalk with block outs, to allow for the installation of indicator surfaces.

E13.2.2 Verify dimensions of paving stones (indicator surface) prior to construction of the block-outs. Gaps between paving stones and concrete pavement shall not exceed five (5) mm.

E13.2.3 Concrete curbs for monolithic curb and sidewalk with block outs shall be constructed in accordance with CW 3240.

MEASUREMENT AND PAYMENT

E13.3 Add the following to section 12:

E13.3.1 Construction of concrete sidewalks with block outs 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

E13.4 Add the following to section 13:

E13.4.1 Construction of concrete sidewalks with block outs for indicator surfaces will be paid for at the Contract Unit Price per square meter for the "Items of Work" listed here below, 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.

E13.4.2 Items of Work:

(a) One hundred (100) mm Sidewalk with Block Outs.

E13.4.3 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.

E14. PAVING STONES FOR INDICATOR SURFACES

DESCRIPTION

E14.1 This Specification shall supplement CW 3330-R5 "Installation of Interlocking Paving Stones".

MATERIALS

E14.2 Add the following to section 5:

E14.2.1 Paving Stones for indicator surfaces shall be as shown on the Drawings.

E14.2.2 Paving Stones for indicator surfaces shall be:

Barkman Concrete paving stones -
Charcoal Holland Paver (sixty (60) mm by two hundred ten (210) mm by
two hundred ten (210) mm)

<https://www.barkmanconcrete.com/>

CONSTRUCTION METHODS

- E14.3 Add the following to section 9.2 "Preparation of Sub-grade, Sub-base and Sand-base":
- E14.3.1 Preparation of Sand-Base for Paving Stones in Sidewalk Block Outs.
 - E14.3.2 Place a fifteen (15) mm layer of bedding sand in the blocked out sidewalk areas.
 - E14.3.3 The bedding sand shall be spread and levelled so that the paving stones when installed are five (5) mm higher than the finished grade.
 - E14.3.4 No more sand shall be spread than can be covered in with paving stone on the same day.
 - E14.3.5 The bedding sand shall not be compacted or disturbed prior to laying the paving stones.
- E14.4 Add the following to section 9.3 "Installation of Paving Stones":
- E14.4.1 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

- E14.5 Add the following to section 12:
- E14.6 Supply and Installation of Paving Stones for Indicator Surfaces
- E14.6.1 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

- E14.7 Add the following to section 13:
- E14.7.1 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.
 - E14.7.2 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.

E15. TRANSIT PAVING STONE INDICATOR SURFACES

DESCRIPTION

- E15.1 Further to the latest version of the City of Winnipeg Standard Construction Specification CW 3335, this Specification shall cover the:
- (a) supplying and installing the interlocking paving stones (unit pavers) used in Transit stop paving band square; and
 - (b) supplying and installing the sand setting bed.
- E15.2 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 other things necessary and/or incidental to the satisfactory performance and completion of all Work as hereinafter specified.
- E15.3 Referenced Specifications and Drawings
- (a) The latest version of the City of Winnipeg Standard Construction Specifications:

(i) CW 3330 Installation of Interlocking Paving Stones.

MATERIALS

E15.4 General

- (a) All materials supplied under this Specification shall be of the type approved by the Contract Administrator, and shall be subject to inspection and testing by the Contract Administrator.
- (b) The Contractor shall be responsible for the supply, safe storage and handling of all materials set forth in this Specification. All materials shall be handled in a careful and workmanlike manner, to the satisfaction of the Contract Administrator.

E15.5 Interlocking Paving Stones

- (a) Concrete interlocking paving stones (unit pavers) for indicator strips or equivalent in accordance with B6, supplied by:

Barkman Concrete
Phone: (204) 667-3310
www.barkmanconcrete.com

- (b) As shown on the Drawings and as follows:
 - (i) Blue Holland Stone one hundred five (105) by two hundred ten (210) by sixty (60) mm;
- (c) Concrete interlocking paving stones (unit pavers) for indicator strips shall be clay brick pavers conforming to CAN3-A231.2, Precast Concrete Pavers. Further to CAN3-A231.2.6.1.1, where concrete pavers are shipped for installation before the pavers are twenty-eight (28) days old, the average compressive strength of the pavers at the time of delivery to the Site of Work shall not be less than forty (40) MPa.

E15.5.1 Sand

- (a) Clean brick sand as joint filler or polymeric sand as directed by Contract Administrator.
- (b) Clean brick sand as minimum thirteen (13) mm depth setting bed.
- (c) Bedding sand shall be fine aggregate as specified in Specification CW 3330.

EQUIPMENT

- E15.6 All equipment shall be of a type acceptable to the Contract Administrator and shall be kept in good working order.

CONSTRUCTION METHODS

E15.7 Installation of paving stones in paving band square.

- (a) Paving stones shall be installed in formed concrete blockouts in accordance with CW 3330, set in locations and patterns as shown on the Drawings. Spaces between the joints shall not exceed three (3) mm and shall be uniform and consistent while maintaining true patterns as indicated on the Drawings.
- (b) Contractor to verify the exact dimensions of pavers prior to construction of blockouts in concrete sidewalk.
- (c) Remove and dispose of existing paving stones in existing sidewalks. Any removal and/or disposal shall be incidental to the Work within this Specification.
- (d) Install concrete sidewalk complete with blockouts for paving stones as specified on the Drawings.
- (e) Install sand setting bed to a minimum thirteen (13) mm depth as shown on the Drawings.
- (f) Do not compact sand setting bed prior to installation of paving stones.
- (g) Sand setting bed shall be covered with pavers in the same day.

- (h) Remove adjacent paving stones in patterns as required to ensure that paving stones do not require cutting to fit existing paving stone pattern.
- (i) Where paving stones conflict with vertical structural elements or other elements, paving stones must be saw cut and fit true and hand tight.
- (j) Commence installation of paving stones along a straight edge to obtain the straightest possible course for installation.
- (k) Paving stones shall be cut with a saw only, to obtain true, even, and undamaged edges. Chipped paving stones are unacceptable.
- (l) Crews installing paving stones shall work from installed pavers and not the sand bedding.
- (m) Spread fine grade brick sand over paving stone surface and sweep into joints in multiple directions. Sand is incidental to the price for supply and installation of paving stones.
- (n) Compact pavers with vibratory plate compactor having a mass of not less than one hundred thirteen (113) kilograms. Compaction is incidental to the price for supply and installation of paving stones.
- (o) Sweep remaining sand over all paving areas until joints are full and remove excess from Site.
- (p) Remove cracked, shipped, broken, or otherwise damages paving materials from Site immediately.
- (q) Upon completion, clean in accordance with manufacturers recommendations.

MEASUREMENT AND PAYMENT

E15.8 Transit Paving Stone Indicator Surfaces

- (a) The supply and installation of paving stones for indicator squares will be paid for at the Contract Unit Price per square meter for "Transit Paving Stone Indicator Surfaces", 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.

E15.9 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.

E16. SUPPLY AND INSTALL DIRECTIONAL TACTILE STRIP

DESCRIPTION

E16.1 This Specification covers the supply and installation of directional bar tiles in one hundred (100) mm concrete sidewalks. These are used at bus stops where the sidewalk must cross a Multi-Use Path or bicycle path.

REFERENCES

E16.2 Referenced Specifications and Drawings

E16.2.1 The latest version of the City of Winnipeg Standard Construction Specifications

- (a) CW 3235 – Renewal of Existing Miscellaneous Concrete Slabs;
- (b) CW 3310 – Portland Cement Concrete Pavement Works; and
- (c) CW 3325 – Portland Cement Concrete Sidewalk.

MATERIALS AND EQUIPMENT

E16.3 Acceptable Directional Tactile Strip product is (or equivalent in accordance with B6).

- (a) three hundred five (305) mm times six hundred ten (610) mm Cast in Place (Wet Set) with Anchors – Manufactured by ADA Solutions;

- (b) Part # 1224BAR1875Y;
- (c) Flush Mount, Federal Yellow;
- (d) Fasteners: six (6) mm diameter times thirty-eight (38) mm Long SS FH Bolts (Hex Drive) and six (6) mm diameter times thirty-eight (38) mm Long Zinc Inserts; and
- (e) Sealant: Manufacturer recommended.

E16.3.1 Product Specifications found in Appendix 'B' of this document.

EQUIPMENT

E16.4 All equipment shall be of a type acceptable to the Contract Administrator and shall be kept in good working order.

CONSTRUCTION METHODS

E16.5 Install Wet Set Replaceable units as per manufacturer's recommendations, and as shown on Contract Drawings.

E16.6 Where necessary, cut Wet Set Replaceable units accurately using a sixty (60) tooth carbide or diamond blade with a suitable cutting device. No cut unit shall measure less than two hundred fifty (250) mm in length. In accordance with manufacture's recommendations, supplemental fasteners and Inserts shall be added as needed when the distance between the cut face of the unit and the original hardware exceeds one hundred (100) mm.

E16.7 Install Wet Set Replaceable units true to grade, in location, layout pattern as indicated on the Drawings.

E16.8 Wet Set Replaceable units shall be set flush into a minimum sixty-five (65) mm depth of concrete. Vibrate or tamp (with rubber mallet) the Wet Set Replaceable units into the fresh concrete to ensure that there are no voids underlying the units and that the units are flush with the adjacent substrate. Temporary weights can be added as necessary in the event of float during initial set of the units.

E16.9 Joint Lines between successive Wet Set Replaceable Units: Maintain a three (3) mm to five (5) mm consistent joint line between successive units.

E16.10 Tooled Edge Detail: Maintain a three (3) mm to six (6) mm tooled edge detail along the perimeter of the Wet Set Replaceable unit installation. Installation of the tooled edge detail facilitates future removal and replacement of the units.

E16.11 Protective Plastic Sheet: Particularly in direct sunlight and when temperatures exceed twenty-five (25) degrees Celsius, remove the protective plastic sheeting from the Wet Set Replaceable units within forty-eight (48) hours of installation of the unit. Failure to do so will be solely at the Contractors risk and may result in the protective plastic bonding to the unit thus requiring a considerable effort to remove the protective plastic sheeting. If plastic sheeting cannot be removed, it will be at the Contractors expense to replace that unit.

MEASUREMENT AND PAYMENT

E16.12 Directional Tactile Strip

E16.12.1 Directional Tactile Strip shall be measured on a unit basis and paid for at the Contract Unit Price per unit for the item listed here below. The number of units to be paid for shall be the total number of Directional Tactile Strip supplied and installed in accordance with this Specification, accepted and measured by the Contract Administrator.

- (a) Directional Tactile Strip: three hundred five (305) mm by six hundred ten (610) mm tiles.

E17. SIGN SUPPORT CLAMPS

- E17.1 The Contractor shall install all new sign support clamps at the locations shown on the Drawings or as directed by the Contract Administrator. The City shall supply all sign support clamps.
- E17.2 All costs in connection with the installation of sign support clamps are incidental to the Contract.

E18. CONSTRUCTION OF TEMPORARY MEDIAN CROSSINGS AND OPENINGS

DESCRIPTION

- E18.1 This Specification shall cover the construction of temporary median crossing and temporary median opens as identified on the Drawings.
- E18.2 Referenced City of Winnipeg Standard Construction Specifications:
- (a) CW 3110 – Sub-Grade, Sub-Base and Base Course Construction;
 - (b) CW 3170 – Earthwork and Grading; and
 - (c) CW 3410 – Asphaltic Concrete Pavement Works.

MATERIAL AND EQUIPMENT

- E18.3 Asphalt Materials
- E18.3.1 Asphalt material supplied shall be in accordance with CW 3410 Type 1A Asphalt Material.
- E18.4 Asphalt Paving Equipment
- E18.4.1 Equipment shall be in accordance with CW 3410 Clause 8.

CONSTRUCTION METHODS

- E18.5 Construction shall take place in accordance with the Drawings, CW 3110, CW 3170, and CW 3410.
- E18.6 Temporary median crossovers shall be excavated to the limits noted and constructed using the pavement structure identified on the Drawings. Median openings must be paved using Type 1A Asphalt Material as per CW 3410 and be maintained by the Contractor as needed during construction. The Contract Administrator may direct the Contractor to repave or repair the crossovers.
- E18.7 Temporary median openings shall be excavated to the limits noted and constructed using the pavement structure identified on the Drawings. Median openings will be granular and must be maintained by the Contractor as needed during construction. The Contract Administrator may direct the Contractor to add additional base course to the median openings.

MEASUREMENT AND PAYMENT

- E18.8 Median crossovers and openings shall be measured on an area basis and paid for at the Contract Unit Price per square metre of “Construction of Temporary Median Crossovers and Median Openings”. The area to be paid for shall be the total square meters constructed in accordance with this Specification, accepted and measured by the Contract Administrator.
- E18.9 Restoration of the crossovers and median openings will be paid separately under existing line items for curbs, landscaping and median type.

E19. ASPHALT PATCHING OF MISCELLANEOUS CONCRETE

DESCRIPTION

- E19.1 General

- E19.1.1 Further to CW 3410, this Specification covers the placement of asphalt patches in various situations to prepare a concrete pavement for subsequent placement of mainline asphalt pavement overlay. This includes patching full depth concrete repairs, cracks, joints, and vertical faults.
- E19.1.2 Referenced City of Winnipeg Standard Construction Specifications:
- (a) CW 1130 – Site Requirements; and
 - (b) CW 3410 – Asphaltic Concrete Pavement Works.

MATERIAL AND EQUIPMENT

- E19.2 Asphalt materials
- E19.2.1 Asphalt material supplied shall be in accordance with CW 3410 Type 1A Asphalt Material.
- E19.3 Equipment
- E19.3.1 Equipment shall be in accordance with CW 3410 Clause 8.

CONSTRUCTION METHODS

- E19.4 Full Depth Concrete Repairs
- E19.4.1 Place asphaltic concrete over the newly constructed joint repair area with greater than twenty (20) mm elevation difference between the repair surface and the adjacent surface. Remove any loose or debonded asphalt at the joint perimeter and place new asphaltic concrete in these areas as well.
- E19.4.2 Dispose of all material in accordance with CW 1130 Section 3.4.
- E19.4.3 Ensure surface is dry and clean prior to placement of asphaltic concrete patching material.
- E19.4.4 Prepare the joint repair area surface with a uniform application of tack coat applied in small quantities sufficient to wet the concrete surface.
- E19.4.5 Place and compact asphaltic concrete over the joint repair area in accordance with CW 3410 Clause 9.3 and to the satisfaction of the Contract Administrator so that the finished elevation of the patch is flush with the adjacent surrounding area.
- E19.4.6 Compact the asphaltic concrete to an average of ninety-five percent (95%) of the 75 blow Marshal Density of the paving mixture with no individual test being less than ninety percent (90%).
- E19.4.7 Traffic is not permitted on the patch area until the asphalt has cooled to ambient temperature.

MEASUREMENT AND PAYMENT

- E19.5 Asphalt Patching of Miscellaneous Concrete will be measured on an area basis and paid for at the Contract Unit Price per square metre for “Asphalt Patching of Miscellaneous Concrete”. The area to be paid for will be the total number of square metres of full depth joints, cracks and joints, and vertical faults patched in accordance with this Specification.

E20. CONSTRUCTION OF CURB FOR ASPHALT PAVEMENT

DESCRIPTION

- E20.1 This Specification covers the construction of various curb types for asphalt pavements on Taylor Avenue.

GENERAL

- E20.2 Referenced Standard Construction Specifications and Standard Detail Drawings:

- (a) CW 3110 – Sub-grade, Sub-base and Base Course Construction;
- (b) CW 3310 – Portland Cement Concrete Pavement Works;
- (c) CW 3240 – Renewal of Existing Curbs; and
- (d) Standard Detail Drawings SD-200A and SD-200AA (Appendix 'C').

CONSTRUCTION METHODS

- E20.3 Further to CW 3310, the Contractor shall construct the various curb types for asphalt pavements as per Standard Detail Drawing SD-200A and SD-200AA.
- E20.4 Construction of Barrier Curb and Splash Strip for Asphalt Pavement – Standard Detail Drawing SD-200A, SD-200AA.
- E20.4.1 Place and compact sub-base material for roadway in accordance with the Standard Detail Drawing SD-200A, SD-200AA and Specification CW 3110.
- E20.4.2 Supply and install 20M tie-bars into sub-base material as shown on the Standard Detail Drawing SD-200A and SD-200AA.
- E20.4.3 Drill holes into the sub-base material at a maximum depth of one hundred fifty (150) mm, with a drilling diameter of two (2) mm greater than the diameter of the tie bar.
- E20.4.4 Supply and install 2-10M longitudinal deformed bars for reinforcement as shown on the Standard Detail Drawing SD-200A and SD-200AA.
- E20.4.5 Supply and install 2-19.1mm dowels at transverse joints every six (6.0) metres as shown on the Standard Detail Drawing SD-200A and SC-200AA. All dowels shall be thoroughly lubricated with asphaltic cut-back.
- E20.4.6 Provide a minimum of forty (40) mm cover between reinforcing steel and the finished concrete surface.
- E20.4.7 Transverse joints will be saw cut every three (3.0) metres. Transverse joints are to be saw cut to a maximum depth of twenty-five (25) mm, so as to not saw cut into the 10M longitudinal deformed bars and 19.1 mm dowels.
- E20.4.8 Construct Barrier Curb for Asphalt Pavement (one hundred eighty (180) mm reveal ht, one hundred (100) mm reveal ht) in accordance with Standard Detail Drawing SD-200A. Install 20M tie-bars into sub-base material, 2-10M longitudinal deformed bars for reinforcement and 2-19.1 mm dowels at transverse joint.
- E20.4.9 Construct Splash Strip for Asphalt Pavement (one hundred eighty (180) mm reveal ht, barrier curb, seven hundred fifty (750) mm width) in accordance with Standard Detail Drawing SD-200AA. Install 20M tie-bars into sub-base material, 2-10M longitudinal deformed bars for reinforcement and 2-19.1 mm dowels at transverse joint.
- E20.4.10 Place concrete utilizing slip-form paving equipment in accordance with Specification CW 3310 unless otherwise directed by the Contract Administrator.
- E20.4.11 Place and compact fifty (50) mm sub-base material as backfill behind barrier curb for asphalt pavement within excavated area approximately one hundred fifty (150) mm deep or as directed by the Contract Administrator. Place and compact suitable Site material as backfill behind barrier curb for asphalt pavement to allow for one hundred (100) mm of topsoil and sod below top of barrier curb for asphalt pavement. Care must be taken so as to not disturb the new barrier curb for asphalt pavement during placing and compaction of fifty (50) mm sub-base material and suitable Site material.

MEASUREMENT AND PAYMENT

- E20.5 Construction of barrier curb for asphalt pavement shall be measured on a length basis and paid for at the Contract Unit Price per metre of “Construction of Barrier Curb for Asphalt Pavement” and “Construction of Barrier Curb with Integral Splash Strip for Asphalt Pavement”. The length

to be paid for shall be the total number of meters supplied and installed in accordance with this Specification, accepted and measured by the Contract Administrator.

- E20.6 The supply and installation of 20M tie-bars, 10M longitudinal deformed bars and 19.1 mm dowels is incidental to “Construction of Barrier Curb for Asphalt Pavement”, and “Construction of Barrier Curb with Integral Splash Strip for Asphalt Pavement.” No measurement or payment will be made.

E21. MIX DESIGN PROPORTION

E21.1 General

- E21.1.1 Further to CW 3310-R18, this Specification covers the mix proportion for all concrete types related to, the construction of Portland Cement Concrete pavements, curbs, gutters, private approaches, bull-noses, median slabs, medians, safety medians and boulevard splash strips, sidewalks and other related concrete works.

E21.2 Referenced Standard Construction Specifications

- (a) CW 3310 – Portland Cement Concrete Pavement Works.

E21.3 Mix Design

- E21.3.1 Further to CW 3310-R18 Table CW 3310.5, the minimum cementitious contents shall be as follows:

- (a) Type 1 – three hundred eighty (380) kg/m³
- (b) Type 2 – three hundred sixty (360) kg/m³
- (c) Type 3 – three hundred eighty (380) kg/m³
- (d) Type 4 – three hundred eighty (380) kg/m³
- (e) Type 5 – three hundred forty (340) kg/m³
- (f) Type 6 – three hundred sixty (360) kg/m³

E21.4 Requirements

- E21.4.1 The Mix Design Statements for all the concrete shall be submitted to the City of Winnipeg, Research and Standards Engineer for approval.

E21.5 Quality Assurance

- E21.5.1 The Contract Administrator shall ensure the frequency and number of quality assurance tests in accordance with CW 3310.

E22. ASPHALTIC CONCRETE PAVEMENT WORKS

- E22.1 Asphaltic Concrete Pavement Works shall be in accordance with CW3410-R12, Asphalt Concrete Pavement Works except for the asphalt paving of SP1 and SP2 as indicated on the Drawings and the Form B. Construction of Mainline Paving, Tie-ins and Approaches for SP1 and SP2 type asphalt shall be in accordance with the special provision provided in Appendix ‘D’.

E23. WORK WITHIN RAIL RIGHT-OF-WAY

GENERAL REQUIREMENTS

- E23.1 The Contractor shall be responsible to meet all CPKC and BNSF constraints, requirements, and safety measures.
- E23.2 The Contractor shall arrange with each rail company to have them supply a flag person for all activity on their right-of-way or the extension of the right-of-way as required.

- E23.3 The Contractor is expected to schedule his Work in order to minimize the need for flagging.
- E23.4 Information regarding CPKC flagging and additional working requirements is included in Appendix 'E'.
- E23.5 In preparation of the rail crossing work, the Contractor shall remove all pavement around the existing track as directed by CPKC and BNSF.
- E23.6 The rail crossing works will require a full traffic closure and is to be completed over one (1) weekend. The Contractor shall complete all final asphalt tie-in work within the weekend closure.

MEASUREMENT AND PAYMENT

- E23.7 There shall be no measurement or payment made for the Work associated with this Specification, it shall be considered incidental to the Work.
- E23.8 Pavement removal will be paid in accordance with CW 3110.
- E23.9 Asphalt tie-in work at the rail crossing will be paid for in accordance with CW 3410.
- E23.10 The City shall pay for the cost of flagging required for this project.

E24. WORKING IN CLOSE PROXIMITY TO GAS INFRASTRUCTURE

DESCRIPTION

- E24.1 While working in close proximity to gas infrastructure, all procedures and precautions outlined in the Appendix 'F' – *Safe Excavation & Safety Watch Guideline* manual, as well as any supplemental direction from Manitoba Hydro contained in Appendix 'F', must be adhered to. Ensure that all locates and clearances are current and have been received and understood prior to construction.

MEASUREMENT AND PAYMENT

- E24.2 Hydro excavation to locate and verify gas infrastructure as typically required by Manitoba Hydro will be considered incidental to the Work.
- E24.3 Any costs associated performing Safety Watches will be considered incidental to the Work.

E25. ROADWORKS IN CLOSE PROXIMITY TO A LARGE DIAMETER WATER MAIN

DESCRIPTION

- E25.1 This Specification outlines the conditions and technical requirements for carrying out pavement construction or working in close proximity to the Large Diameter Water Main (LDWM) on Grant Avenue.

CONSTRUCTION METHODS

- E25.2 Pre-work, Planning and General Execution
- (a) No Work shall commence at the Site until the construction method statement has been approved, a pre-construction meeting has been held, and the LDWM location has been clearly delineated in the field by use of paint, staking/flagging, construction fencing, snow fencing, or other suitable methods.
 - (b) The Contractor shall ensure that all work crew members understand and observe the requirements of this Specification. Prior to commencement of on-Site Work, the Contractor shall jointly conduct an orientation meeting with the Contract Administrator and with all superintendents, foremen, and heavy equipment operators to make all workers on Site fully cognizant of the limitation of altered loading on the LDWM, the ramifications of inadvertent

damage to the LDWM and the constraints associated with work in close proximity to the LDWM.

- (c) For traverse crossings of the LDWM in support of the roadworks activities, designate crossing locations just beyond the construction Site and confine equipment crossing the LDWM at those locations. Reduce equipment speeds to levels that minimize impact loadings.
- (d) For construction work activities either longitudinally or transverse to the alignment on the LDWM, work only with equipment and in the manner stipulated in the approved construction method statement and the requirements noted herein.
- (e) Subgrade, subbase, and base course construction shall be kept in a rut free condition at all times. Construction equipment is prohibited from crossing the LDWM if the grade is insufficient to support the equipment without rutting.
- (f) Granular material, construction material, soil or other material shall not be stockpiled on the LDWM or within five (5) metres of the LDWM centerline.
- (g) Stage construction such that the LDWM is not subject to significant asymmetrical loading at any time.
- (h) Where work is in proximity to the LDWM, utilize construction practices and procedures that do not impart excessive vibration loads on the LDWM or that would cause settlement of the subgrade below the LDWM.

E25.3 Demolition and Excavation

- (a) Concrete demolition and removal within three (3) metres horizontally of the LDWM shall be completed by saw-cutting and removal, or use of hand-held jackhammers. Use of machine mounted concrete breakers above the LDWM shall not be permitted.
- (b) Where there is less than 2.5 metres of cover over the LDWM, offset the excavator or excavation equipment from the LDWM a minimum of 2.5 metres from the LDWM centerline to carry out excavation.
- (c) Where there is less than 1.6 metres of earth cover over the LDWM and further excavation is required either adjacent to or over the LDWM, utilize only smooth-edged excavation buckets, soft excavation, or hand excavation techniques.
- (d) Excavated materials intended for reuse shall not be dumped directly on the LDWM but shall be carefully bladed into place.

E25.4 Subgrade Construction

- (a) Subgrade compaction within three meters (horizontal) of a the LDWM shall be limited to non-vibratory methods only. Small walk behind vibratory packers will be permitted.
- (b) Construction operations shall be staged to minimize the time period between excavation to subgrade and placement of granular subbase materials. Should bare subgrade be left overnight, measures shall be implemented to protect the subgrade against inadvertent travel over it and minimize the impact of wet weather.
- (c) Subgrade conditions should be inspected by personnel with competent geotechnical experience (e.g., ability to adequately visually classify soils and competency of subgrade, subbase, and base course materials). In the event of encountering unsuitable subgrade materials above the LDWM, proposed design revisions shall be submitted to this office for review to obtain approval from the Water and Waste Department relative to any change in conditions.

E25.5 Subbase and Base Course Construction

- (a) Subbase or base course material shall not be dumped directly on top of the LDWM, but shall be carefully bladed into place.
- (b) Subbase compaction shall be either carried out by static methods without vibration or with smaller equipment such as hand-held plate packers or smaller roller equipment.

E25.6 Paving

- (a) When constructing asphalt pavements, only non-vibratory compaction should be used within three (3) metres (horizontal) of the center of the LDWM.

E26. TRANSIT SHELTER FOUNDATIONS

DESCRIPTION

- E26.1 This Specification shall cover the installation of concrete bus shelter pad foundations as identified on the Drawings.
- E26.2 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.

REFERENCES

E26.3 Referenced Specifications and Drawings

- (a) The latest version of the City of Winnipeg Standard Construction Specifications:
(i) CW 3310 – Portland Cement Concrete Pavement Works; and
(ii) CW 3325 – Portland Cement Concrete Sidewalk.

MATERIALS AND EQUIPMENT

E26.4 General

- (a) All materials supplied under this Specification shall be of a type approved by the Contract Administrator and shall be subject to inspection and testing by the Contract Administrator.
- (b) The Contractor shall be responsible of the supply, safe storage and handling of all materials set forth in this Specification. All materials shall be handled in a careful and workmanlike manner, to the satisfaction of the Contract Administrator.

E26.5 Concrete and Reinforcing Steel

- (a) Concrete mix design shall comply with Clause 6.2a) of the latest version of the CW 3310 Specification.
- (b) All other materials as per Clause 5 of the latest version of the CW 3310 Specification.

CONSTRUCTION METHODS

- E26.6 Construction shall take place in accordance with the Drawings, CW 3310, and CW 3325.
- E26.7 All forming is incidental to the unit price Bid for the Specification.
- E26.8 Verify dimensions of bus shelter pads prior to construction.
- E26.9 Meet existing grades and slopes unless otherwise indicated on the Drawings. Notify the Contract Administrator where this requirement will not result in positive drainage.
- E26.10 Removal of an existing concrete bus shelter pad shall be incidental to the Work.

MEASUREMENT AND PAYMENT

E26.11 Transit Shelter Foundations

- E26.11.1 Construction of the Transit Shelter Foundations shall be paid for at the Contract Unit Price per square metre (m²) for "Transit Shelter Foundations", measured as specified herein, performed in accordance with this Specification and accepted by the Contract Administrator, which price shall be payment in full for supplying all materials and performing all operations

herein described and all other items incidental to the Work. The area to be paid for shall be the total number of m² of Transit Shelter Foundations constructed in accordance with this Specification and as measured and accepted by the Contract Administrator.

E27. REPAIR MAHOLE BENCHING

DESCRIPTION

E27.1 General

E27.1.1 This Specification covers the repair of benching in existing manholes.

CONSTRUCTION METHODS

E27.2 Repair Manhole Benching

E27.2.1 The Contractor shall remove and dispose of existing loose or crumbling benching mortar to the satisfaction of the Contract Administrator.

E27.2.2 The Contractor shall bench and channel the manhole floor with mortar or concrete in accordance with CW 2130, SD-010 and SD-011. Flow channels shall curve smoothly and provide a smooth transition between inlet and outlet pipes.

MEASUREMENT AND PAYMENT

E27.3 Repair of manhole benching will be measured on a unit basis and paid for at the Contract Unit Price for "Repair Benching". The number to be paid for shall be the total number of manholes that have been repaired in accordance with this Specification, accepted and measured by the Contract Administrator.

APPENDIX A
GEOTECHNICAL REPORT

APPENDIX B
DIRECTIONAL TACTILE STRIP PRODUCT SPECIFICATIONS

APPENDIX C
DETAILS FOR CURB FOR ASPHALT PAVEMENT

APPENDIX D
ASPHALT PAVEMENT SPECIAL PROVISION

APPENDIX E
CPKC SAFETY AND FLAGGING INFORMATION

APPENDIX F

MANITOBA HYDRO GAS CONSTRUCTION INFORMATION