



THE CITY OF WINNIPEG

TENDER

TENDER NO. 48-2026

**2026 LOCAL INDUSTRIAL STREET RENEWALS - AUSTIN STREET, BUSHNELL
STREET AND VARIOUS OTHER LOCATIONS**

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PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

B1.1 2026 Local Industrial Street Renewals - Austin Street, Bushnell Street and Various Other Locations

B2. SUBMISSION DEADLINE

B2.1 The Submission Deadline is 12:00 noon Winnipeg time, April 22, 2026.
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 D3.1.
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 D3.

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;
 - (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;
 - (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 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;

- (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 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.

B9.2 The quantities listed on Form B: Prices are to be considered approximate only. The City will use said quantities for the purpose of comparing Bids.

B9.3 The quantities for which payment will be made to the Contractor are to be determined by the Work actually performed and completed by the Contractor, to be measured as specified in the applicable Specifications.

B9.4 Payments to Non-Resident Contractors are subject to Non-Resident Withholding Tax pursuant to the Income Tax Act (Canada).

B9.5 The Bidder shall enter the Total Bid Price from Form B: Prices into the Total Bid Price field in MERX.

B9.5.1 Bidders are advised that the calculation indicated in B17.4 will prevail over the Total Bid Price entered in MERX.

B10. DISCLOSURE

B10.1 Various Persons provided information or services with respect to this Work. In the City's opinion, this relationship or association does not create a conflict of interest because of this full disclosure. Where applicable, additional material available as a result of contact with these Persons is listed below.

B10.2 The Persons are:

- (a) N/A

B11. CONFLICT OF INTEREST AND GOOD FAITH

B11.1 Further to C3.3, 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; and
- (b) be financially capable of carrying out the terms of the Contract; and

- (c) have all the necessary experience, capital, organization, and equipment to perform the Work in strict accordance with the terms and provisions of the Contract.

B12.2 The Bidder and any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:

- (a) be responsible and not be suspended, debarred or in default of any obligations to the City. A list of suspended or debarred individuals and companies is available on the Information Connection page at The City of Winnipeg, Corporate Finance, 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; and
- (b) be fully capable of performing the Work required to be in strict accordance with the terms and provisions of the Contract; and
- (c) have a written workplace safety and health program if required pursuant to The Workplace Safety and Health Act (Manitoba);
- (d) have completed the Accessible Customer Service online training required by the Accessibility for Manitobans Act (AMA) (see B12.5 and C6.19)

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 at https://www.winnipeg.ca/matmgt/Safety/safety_consultant.stm.

B12.5 Further to B12.3(d), the Bidder acknowledges that they and all Subcontractors have obtained training required by the Accessibility for Manitobans Act (AMA) available at <https://accessibilitymb.ca/resources-events-and-training/online-training.html> for anyone that may have any interaction with the public on behalf of the City of Winnipeg.

B12.6 The Bidder shall submit, within five (5) 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 at: <https://www.winnipeg.ca/media/4929/>.

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

B14. OPENING OF BIDS AND RELEASE OF INFORMATION

- B14.1 Bids will not be opened publicly.
- B14.2 Following the submission deadline, the names of the Bidders and their Total Bid Prices (unevaluated, and pending review and verification of conformance with requirements) will be available on the MERX website at 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 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;
- (d) economic analysis of any approved alternative pursuant to B6.

B17.2 Further to B17.1(a), the Award Authority may reject a Bid as being non-responsive if the Bid is incomplete, obscure or conditional, or contains additions, deletions, alterations or other irregularities. The Award Authority may reject all or any part of any Bid, or waive technical requirements or minor informalities or irregularities, if the interests of the City so require.

B17.3 Further to B17.1(b), the Award Authority shall reject any Bid submitted by a Bidder who does not demonstrate, in 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 Where MRST is shown on Form B as a separate line item, if that Line item is not completed, the MRST shall be considered to be included in the Total Bid Price.

B17.4.3 Bidders are advised that the calculation indicated in B17.4 will prevail over the Total Bid Price entered in MERX.

B18. AWARD OF CONTRACT

B18.1 The City will give notice of the award of the Contract or will give notice that no award will be made.

B18.2 The City will have no obligation to award a Contract to a Bidder, even though one or all of the Bidders are determined to be qualified, and the Bids are determined to be responsive.

B18.2.1 Without limiting the generality of B18.2, the City will have no obligation to award a Contract where:

- (a) the prices exceed the available City funds for the Work;
- (b) the prices are materially in excess of the prices received for similar work in the past;
- (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 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 2026 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.

PART C - GENERAL CONDITIONS

C0. GENERAL CONDITIONS

- C0.1 The *General Conditions for Construction* (Revision 2025-11-01) 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. SCOPE OF WORK

D2.1 The Work to be done under the Contract shall consist of:

- (a) Concrete Reconstruction
 - (i) Adelaide Street/Princess Street alley bounded by Notre Dame Ave, Adelaide St, McDermot Ave and Princess St
 - (ii) Tache Avenue – Rue Darveau to Rue Hebert
- (b) Asphalt Reconstruction
 - (i) Austin Street – Henry Ave to Higgins Ave
 - (ii) Bushnell Street – Alexander Ave to Logan Ave
- (c) Pavement Rehabilitation
 - (i) Harriet Street – Notre Dame Ave to Mc Dermot Ave
 - (ii) Harriet Street – McDermot Ave to Bannatyne Ave
 - (iii) Sherbrook Street – Logan Ave to Henry Ave
 - (iv) Henry Avenue – Sherbrook St to Gunnell St
 - (v) Gunnell Street – Henry Ave to Logan Ave
- (d) Land Drainage Sewer
 - (i) Tache Avenue – Rue Darveau to Rue Messenger
 - (ii) Panet Avenue – 150m south of Nairn Ave to 385m south of Nairn Ave
- (e) Pedestrian Crossing Improvement
 - (i) Higgins Avenue at Austin Street

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

- (a) Concrete Reconstruction
 - (i) Pavement removal
 - (ii) Excavation
 - (iii) Placement of geogrid
 - (iv) Placement of geotextile fabric
 - (v) Insulation of water services
 - (vi) Sub-grade compaction, as required
 - (vii) Placement and compaction of sub-base and base course materials
 - (viii) Placement and compaction of suitable site material, as required
 - (ix) Installation of catch basins and connecting pipes
 - (x) Catch basin lead repairs
 - (xi) Installation of subdrains
 - (xii) Construction of 150mm reinforced concrete
 - (xiii) Construction of 200mm reinforced concrete
 - (xiv) Construction of 180mm barrier curb
 - (xv) Construction of modified barrier curb
 - (xvi) Construction of ramp curb

- (xvii) Placement and compaction of 50mm sub-base material as backfill behind barrier curb within excavated area
 - (xviii) Removal of existing sidewalk
 - (xix) Construction of 100mm concrete sidewalk
 - (xx) Construction of 150mm and 200mm reinforced concrete approaches
 - (xxi) Adjustment of existing catch basins, manholes and water main appurtenances
 - (xxii) Boulevard restoration and sod
- (b) Asphalt Reconstruction
- (i) Pavement removal
 - (ii) Excavation
 - (iii) Placement of geogrid
 - (iv) Placement of geotextile fabric
 - (v) Insulation of water services
 - (vi) Sub-grade compaction, as required
 - (vii) Placement and compaction of sub-base and base course materials
 - (viii) Installation of catch basins and connecting pipes
 - (ix) Catch basin lead repairs
 - (x) Installation of subdrains
 - (xi) Hydrant relocation
 - (xii) Sewer repairs
 - (xiii) Placement and compaction of Type MS1 asphalt pavement (40mm and 50mm)
 - (xiv) Placement and compaction of Type MS2 asphalt pavement (75mm and 100mm)
 - (xv) Construction of 180mm barrier curb for asphalt pavements
 - (xvi) Construction of modified barrier curb for asphalt pavements
 - (xvii) Construction of ramp curb for asphalt pavements
 - (xviii) Construction of 180mm barrier curb and reverse gutter for asphalt pavements
 - (xix) Construction of modified barrier curb with reverse gutter for asphalt pavements
 - (xx) Construction of 40mm and 75mm lip curb, as required
 - (xxi) Placement and compaction of 50mm sub-base material as backfill behind barrier curb within excavated area
 - (xxii) Removal of existing sidewalk
 - (xxiii) Construction of 100mm concrete sidewalk
 - (xxiv) Construction of 100mm concrete sidewalk with block outs
 - (xxv) Installation of detectable tiles
 - (xxvi) Construction of 150mm and 200mm reinforced concrete approaches
 - (xxvii) Adjustment of existing catch basins, manholes and water main appurtenances
 - (xxviii) Boulevard restoration and sod
- (c) Pavement Rehabilitation
- (i) Planing/removal of existing asphalt overlay, as required
 - (ii) Sewer, catch basin lead and drainage pipe repairs
 - (iii) Installation of catch basins, catch pits and connecting pipes
 - (iv) Removal of existing catch basins and abandon existing drainage inlets
 - (v) Full depth concrete joint and slab repairs, as required
 - (vi) Milled concrete joints with asphalt patching, as required
 - (vii) Removal/renewal of existing barrier curb, modified barrier curb and ramp curb
 - (viii) Construction of barrier curb, modified barrier curb and ramp curb
 - (ix) Removal/renewal of existing sidewalk

- (x) Construction of 100mm and 150mm reinforced monolithic sidewalk
 - (xi) Installation of detectable tiles
 - (xii) Removal of precast sidewalk blocks
 - (xiii) Adjustment of precast sidewalk blocks
 - (xiv) Placement of pavement repair fabric
 - (xv) Placement and compaction of asphalt overlay (Type MS1, 80-100mm average thickness)
 - (xvi) Adjustment of existing catch basins, manholes and water main appurtenances
 - (xvii) Tree and stump removal
 - (xviii) Boulevard restoration and sod
- (d) Land Drainage Sewer
- (i) Installation of 300 LDS pipe
 - (ii) Installation of 450 LDS pipe
 - (iii) Installation of manholes
 - (iv) Connecting LDS pipe to manholes
 - (v) Restoration of asphalt pavement
 - (vi) Restoration of granular shoulder
 - (vii) Restoration of boulevard
- (e) Pedestrian Crossing Improvement
- (i) Removal/renewal of existing curb
 - (ii) Removal/renewal of existing median
 - (iii) Construction/renewal of concrete sidewalk
 - (iv) Installation of detectable tiles

D3. CONTRACT ADMINISTRATOR

D3.1 The Contract Administrator is WSP Canada Inc., represented by:

Kelly Groff, P. Eng.
Lead Transportation Engineer
Telephone No. 204 259 1527
Email Address Kelly.Groff@wsp.com

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

D4. CONTRACTOR'S SUPERVISOR

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

D4.2 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 D4.1 or an alternate can be contacted twenty-four (24) hours a day to respond to an emergency.

D5. FURNISHING OF DOCUMENTS

D5.1 Upon award of the Contract, the Contractor will be provided with 'issued for construction' Contract Documents electronically, including Drawings in PDF format only.

SUBMISSIONS

D6. AUTHORITY TO CARRY ON BUSINESS

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

D7. SAFE WORK PLAN

D7.1 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.

D7.2 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>

D7.3 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.

D8. INSURANCE

D8.1 The Contractor shall provide and maintain the insurance coverage:

- (a) commercial general liability insurance, in the amount of at least five million dollars (\$5,000,000.00) inclusive, with The City of Winnipeg added as an additional insured, with a cross-liability clause, contractual liability, unlicensed motor vehicle liability (contractor's equipment), non-owned automobile liability and products and completed operations endorsement, to remain in place at all times during the performance of the Work and throughout the Warranty period;
- (b) Automobile Liability Insurance covering all motor vehicles, owned and operated and used or to be used by the Contractor directly or indirectly in the performance of the Work. The Limit of Liability shall not be less than \$2,000,000 inclusive for loss or damage including personal injuries and death resulting from any one accident or occurrence;
- (c) all risks Installation Floater carrying adequate limits to cover all machinery, equipment, supplies and/or materials intended to enter into and form part of any installation;
- (d) property insurance for all mobile offices, portable toilets, machinery and equipment.

D8.2 Deductibles shall be borne by the Contractor.

D8.3 All policies shall be taken out with insurers licensed to carry on business in the Province of Manitoba.

D8.4 All Subcontractors performing Work on the Project shall provide the Contractor with evidence of insurance outlined in D8.1(a) and D8.1(b) above and be registered with the 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.

D8.5 The Contractor shall provide:

- (a) The certificate of insurance, in a form satisfactory to the Supervisor of Insurance, to:

The City of Winnipeg
Risk Management
Insurance Section
185 King Street, 3rd Floor
Winnipeg, MB R3B 1J1

- (b) The Contract Administrator with a copy of the certificate of insurance.

At least two (2) Business Days of notification of the award of the Contract prior to the commencement of any Work on the Site.

- D8.6 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 Supervisor of Insurance.

D9. CONTRACT SECURITY

- D9.1 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 amount of fifty percent (50%) of the Contract Price; and
- (b) labour and material payment bond of a company registered to conduct the business of a surety in Manitoba, in an amount equal to fifty percent (50%) of the Contract Price.

- D9.1.1 Bonds are available at:

- (a) Performance Bond <https://www.winnipeg.ca/media/4928/>
 - (i) Performance Bond – Schedule A - Form of Notice
<https://www.winnipeg.ca/media/4831/>
 - (ii) Performance Bond – Schedule B – Surety’s Acknowledgement
<https://www.winnipeg.ca/media/4832/>
 - (iii) Performance Bond – Schedule C – Surety’s Position
<https://www.winnipeg.ca/media/4833/>
- (b) Labour & Material Payment Bond <https://www.winnipeg.ca/media/4930/>
 - (i) L&M Bond – Schedule A – Notice of Claim
<https://www.winnipeg.ca/media/4834/>
 - (ii) L&M Bond – Schedule B – Acknowledgement of a Notice
<https://www.winnipeg.ca/media/4835/>
 - (iii) L&M Bond – Schedule C – Surety’s Position
<https://www.winnipeg.ca/media/4836/>

- D9.1.2 Where the contract security is a performance bond, it may be submitted in hard copy or digital format. If submitted in digital format the contract security must meet the following criteria:

- (a) the version submitted by the Contractor must have valid digital signatures and seals;
- (b) the version submitted by the Contractor must be verifiable by the City with respect to the totality and wholeness of the bond form, including: the content; all digital signatures and digital seals; with the surety company, or an approved verification service provider of the surety company.
- (c) the version submitted must be viewable, printable and storable in standard electronic file formats compatible with the City, and in a single file. Allowable formats include pdf.
- (d) the verification may be conducted by the City immediately or at any time during the life of the bond and at the discretion of the City with no requirement for passwords or fees.

- (e) the results of the verification must provide a clear, immediate and printable indication of pass or fail regarding D9.1(b).

D9.1.3 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.

D9.1.4 Digital bonds passing the verification process will be treated as original and authentic.

D9.2 The Contractor shall provide:

- (a) the required Contract Security to:

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

- (b) The Contract Administrator with copies of the required Contract Security.

within seven (7) Calendar Days of notification of the award of the Contract and prior to the commencement of any Work on the Site.

D9.3 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 D9.1(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.

D10. SUBCONTRACTOR LIST

D10.1 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.

D11. DETAILED WORK SCHEDULE

D11.1 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.

D11.2 The detailed work schedule shall consist of the following:

- (a) a critical path method (C.P.M.) schedule for the Work;
 - (b) a Gantt chart for the Work based on the C.P.M. schedule; and
- all acceptable to the Contract Administrator.

D11.3 Further to D11.2(a), the C.P.M. schedule shall clearly identify the start and completion dates of all of the following activities/tasks making up the Work as well as showing those activities/tasks on the critical path:

- (a) Commencement date
- (b) Milestone dates for critical stages of Work
- (c) Substantial Performance date
- (d) Total Performance date

D11.4 Further to D11.2(b), 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.

D12. REQUIREMENTS FOR SITE ACCESSIBILITY PLAN

D12.1 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.

D12.2 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 crossing in each direction for each intersection (one north/south crosswalk and one 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.
- (f) Any required detour signage at adjacent crossings to facilitate sidewalk or active transportation pathway closures.

D12.3 The Accessibility Plan may also include figures, sketches, or drawings to demonstrate the proposed plan.

D12.4 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

D12.5 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.

D12.6 Any changes to the Accessibility Plan must be approved by the Contract Administrator.

D12.7 Upon request from the Contract Administrator, the Contractor shall provide records demonstrating that the site has been maintained.

D12.8 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.

- (c) Third and subsequent Offences – A pay reduction will be issued in the amount of \$250.00 per instance and per day.

SCHEDULE OF WORK

D13. COMMENCEMENT

- D13.1 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.
- D13.2 The Contractor shall not commence any Work on the Site until:
 - (a) the Contract Administrator has confirmed receipt and approval of:
 - (i) evidence of authority to carry on business specified in D6;
 - (ii) evidence of the workers compensation coverage specified in C6.17;
 - (iii) the twenty-four (24) hour emergency response phone number specified in D4.2.
 - (iv) the Safe Work Plan specified in D7;
 - (v) evidence of the insurance specified in D8;
 - (vi) evidence of the contract security specified in D9;
 - (vii) the subcontractor list specified in D10;
 - (viii) the detailed work schedule specified in D11;
 - (ix) the Requirements for Site Accessibility Plan specified in D12;
 - (x) the direct deposit application form specified in C12.20; and
 - (xi) the Construction Method Statement specified in E25.
 - (b) the Contractor has attended a pre-construction meeting with the Contract Administrator, or the Contract Administrator has waived the requirement for a pre-construction meeting.
- D13.3 The Contractor shall not commence the Work on the Site before June 8, 2026, and shall commence the Work on Site no later than June 29, 2026, as directed by the Contract Administrator and weather permitting.
 - (a) The Contractor shall not commence the Work on Bushnell Street before July 6, 2026 and shall complete the work by September 4, 2026.
 - (i) Work on Bushnell Street shall be restricted to July and August due to the proximity of Dufferin School and Freight House Early Learning & Care.
 - (b) The Contractor shall not commence the Work on Henry Avenue before August 17, 2026.
 - (i) Arctic Glacier has significant volumes of trucks accessing their site until early September. To minimize the impact to their operations, the Work is restricted to a commencement no earlier than August 17, 2026.
 - (ii) Further to D13.3(b), if the Contractor can provide a work and access management plan that accommodates Arctic Glacier's needs, the Contract Administrator may allow the Contractor to commence Work on Henry Ave earlier.
 - (c) The Contractor shall not commence the Work on Tache Avenue before August 4, 2026.
 - (i) Further to D13.3(c), if all design details and permits are confirmed and approved sooner than anticipated, the Contract Administrator may allow the Contractor to commence the Work on Tache Avenue earlier.
- D13.4 The City intends to award this Contract by May 29, 2026.

D14. WORKING DAYS

- D14.1 Further to C1.1(xx);
 - D14.1.1 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.

D14.1.2 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.

D14.1.3 When the Work includes two or more major types of Work that can be performed under different atmospheric conditions, the Contract Administrator shall consider all major types of Work in determining whether the Contractor was able to work in assessing Working Days.

D15. RESTRICTED WORK HOURS

D15.1 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.

D16. WORK BY OTHERS

D16.1 Further to C6.26, 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.

D16.2 Work by others on or near the Site will include but not necessarily be limited to:

- (a) City of Winnipeg Geomatics Branch – Various works on survey infrastructure. Geomatics will provide a pre-construction inspection of their monuments. The Contractor is responsible to notify the Contract Administrator prior to any required disturbance of existing survey bars or monuments to allow adequate documentation.
- (b) City of Winnipeg Traffic Services – Provision of sign clamps
- (c) City of Winnipeg Water Services – Inspection of water appurtenances and provide water main shut offs;
- (d) City of Winnipeg Traffic Signals – Installation of pedestrian signals on Higgins Ave;
- (e) Manitoba Hydro – Manhole frame and cover adjustment, hydro pole relocation, hydro pole removal, and electrical and gas safety watches, as required;
- (f) Main Street Project Development – Access coordination with building construction project at 75 Martha Street.

D16.3 Further to D16.1 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 D16.2 or additional parties, in their construction schedule as per D11 and accommodate the necessary area on Site required for the Work by Others to complete the Work.

D17. SEQUENCE OF WORK

D17.1 Further to C6.1, the sequence of work shall comply with the following:

D17.1.1 Providing that the Work on each street is completed in a similar order to the order that the Work was commenced in, the Contractor will be permitted to have a maximum of three (3) streets under construction at any one time. Completion of a street means that all of the necessary concrete, asphalt including approaches and landscaping Work is completed to the satisfaction of the Contract Administrator.

- D17.1.2 Where the Contractor utilizes two (2) or more crews that work independently on the same major component of the Work as identified in D2, the Contract Administrator may approve an increase to the maximum number of streets under construction at any time.
- D17.1.3 Placing the topsoil and finished grading of all boulevard and median areas shall be completed prior to commencing construction of asphaltic concrete overlays, including scratch courses.

D18. CRITICAL STAGES

- D18.1 The Contractor shall achieve critical stages of the Work in accordance with the following requirements:
- (a) Critical Stage 1 – Bushnell Street
 - (i) The asphalt reconstruction of Bushnell Street from Alexander Ave to Logan Ave shall not commence prior to July 6, 2026 and shall be substantially completed no later than September 4, 2026.
 - (b) Critical Stage 2 – Adelaide St/ Princess ST Alley
 - (i) The concrete reconstruction of Adelaide St/Princess St alley shall be substantially completed within twenty-five (25) Working Days.
 - (ii) Further to D18.1(b)(i), the intention of the Critical Stage is to reduce the loss of temporary loading and parking to the properties adjacent to the alley.
 - (c) Critical Stage 3 – Tache Avenue
 - (i) The concrete reconstruction and installation of land drainage sewer on Tache Avenue shall be substantially complete by November 13, 2026.
 - (ii) Further to D18(b)(i), due to funding obligations for this project location the work must be completed in 2026.
 - (d) Critical Stage 4 – Panet Road
 - (i) The installation of land drainage sewer on Panet Rd shall be substantially complete by November 13, 2026.
- D18.2 When the Contractor considers the Work associated with each Critical Stage to be completed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Contract Administrator for purposes of verifying Completion. 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.
- D18.3 The date on which the Work for each Critical Stage has been accepted by the Contract Administrator as being completed to the requirements of the Contract is the date on which completion of the Critical Stage has been achieved.

D19. SUBSTANTIAL PERFORMANCE

- D19.1 The Contractor shall achieve Substantial Performance within eighty (80) consecutive Working Days of the commencement of the Work as specified in D13.
- D19.2 When the Contractor considers the Work to be substantially performed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Contract Administrator for purposes of verifying Substantial Performance. Any defects or deficiencies in the Work noted during that inspection shall be remedied by the Contractor at the earliest possible instance and the Contract Administrator notified so that the Work can be re-inspected.
- D19.3 The date on which the Work has been certified by the Contract Administrator as being substantially performed to the requirements of the Contract through the issue of a certificate of Substantial Performance is the date on which Substantial Performance has been achieved.

D20. TOTAL PERFORMANCE

- D20.1 The Contractor shall achieve Total Performance within eighty-five (85) consecutive Working Days of the commencement of the Work as specified in D13.
- D20.2 When the Contractor or the Contract Administrator considers the Work to be totally performed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Contract Administrator for purposes of verifying Total Performance. Any defects or deficiencies in the Work noted during that inspection shall be remedied by the Contractor at the earliest possible instance and the Contract Administrator notified so that the Work can be re-inspected.
- D20.3 The date on which the Work has been certified by the Contract Administrator as being totally performed to the requirements of the Contract through the issue of a certificate of Total Performance is the date on which Total Performance has been achieved.

D21. LIQUIDATED DAMAGES

- D21.1 If the Contractor fails to achieve Critical Stages, Substantial Performance or Total Performance in accordance with the Contract by the days fixed herein for same, the Contractor shall pay the City the following amounts per Working Day for each and every Working Day following the days fixed herein for same during which such failure continues:
- (a) Critical Stage 1 – Two thousand dollars (\$2,000.00);
 - (b) Critical Stage 2 – One thousand dollars (\$2,000.00);
 - (c) Critical Stage 3 – Four thousand dollars (\$4,000.00);
 - (d) Critical Stage 4 – Two thousand dollars (\$2,000.00);
 - (e) Substantial Performance – Four thousand dollars (\$4,000.00);
 - (f) Total Performance – Two thousand dollars (\$2,000.00).
- D21.2 The amounts specified for liquidated damages in D21.1 are based on a genuine pre-estimate of the City's losses in the event that the Contractor does not achieve critical stages, Substantial Performance or Total Performance by the days fixed herein for same.
- D21.3 The City may reduce any payment to the Contractor by the amount of any liquidated damages assessed.

D22. SCHEDULED MAINTENANCE

- D22.1 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;
 - (b) Reflective Crack Maintenance as specified in CW 3250.
- D22.2 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

D23. JOB MEETINGS

- D23.1 Regular weekly job meetings will be held at the site. These meetings shall be attended by a minimum of one representative of the Contract Administrator, one representative of the City and one 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.

D23.2 The Contract Administrator reserves the right to cancel any job meeting or call additional job meetings whenever they deem it necessary.

D24. PRIME CONTRACTOR – THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA)

D24.1 Further to C6.27, 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).

D25. THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA) – QUALIFICATIONS

D25.1 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.

PAYMENT

D26. PAYMENT

D26.1 Further to E3, no payment will be made for Cash Allowances other than as set out in E3.5.

D27. FUEL PRICE ADJUSTMENT

D27.1 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.

D27.1.1 Eligible Work will be determined in accordance with D27.5.

D27.1.2 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 85% diesel fuel at self-service filling stations.

D27.1.3 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.

D27.1.4 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.

D27.2 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.

D27.3 The fuel escalation or de-escalation adjustment will not be applied if the CFI is within $\pm 15\%$ of the BFI.

- D27.4 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.
- D27.5 The Fuel Factor (FF) rates will be set as follows:
- (a) The Fuel Factor 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 below;

WARRANTY

D28. WARRANTY

- D28.1 Notwithstanding C13.2, the warranty period shall begin on the date of Substantial Performance and shall expire one (1) years thereafter for pavement rehabilitations, and two (2) years thereafter for pavement reconstruction and land drainage sewer works, unless extended pursuant to C13.2.1 or C13.2.2, in which case it shall expire when provided for thereunder.
- D28.2 Notwithstanding C13.2 or D28.1, the Contract Administrator may permit the warranty period for a portion or portions of the Work to begin prior to the date of Substantial 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.
- D28.2.1 In such case the date specified by the Contract Administrator for the warranty period to begin shall be substituted for the date specified in C13.2 for the warranty period to begin.

INDEMNITY

D29. INDEMNITY

- D29.1 Indemnity shall be as stated in C17.

FORM J: SUBCONTRACTOR LIST
(See D10)

2026 LOCAL INDUSTRIAL STREET RENEWALS - AUSTIN STREET, BUSHNELL STREET AND
VARIOUS OTHER LOCATIONS

<u>Portion of the Work</u>	<u>Name</u>	<u>Address</u>
SURFACE WORKS:		
<u>Supply of Materials:</u>		
Concrete		
Asphalt		
Base Course & Sub-Base		
Separation/Filtration Geotextile		
Class A Geogrid		
Pavement Repair Fabric		
Paving Stones		
Topsoil & Sod		
<u>Installation/Placement:</u>		
Excavation		
Base Course & Sub-Base		
Concrete		
Asphalt		
Landscaping		
Tree and Stump Removal		
UNDERGROUND WORKS:		
<u>Supply of Materials:</u>		
Manholes		
Catch Basins & Catch Pit		
Drainage and Sewer Service Pipe		
Frames & Covers		
<u>Installation/Placement:</u>		
Land Drainage Sewer and Manholes		

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
CA0057242.0352-01-R0	ADELAIDE ST/PRINCESS ST ALLEY – ADELAIDE ST TO McDERMOT AVE – ALLEY RECONSTRUCTION – STA. 0+96.84 TO STA. 1+35	A1
CA0057242.0352-02-R0	ADELAIDE ST/PRINCESS ST ALLEY – ADELAIDE ST TO McDERMOT AVE – ALLEY RECONSTRUCTION – STA. 1+35 TO STA. 2+35.35	A1
CA0057242.0352-03-R0	AUSTIN STREET – HENRY AVE TO HIGGINS AVE – ASPHALT RECONSTRUCTION – STA. 0+95 TO STA. 1+55	A1
CA0057242.0352-04-R0	AUSTIN STREET – HENRY AVE TO HIGGINS AVE – ASPHALT RECONSTRUCTION – STA. 1+55 TO STA. 2+33.96	A1
CA0057242.0352-05-R0	BUSHNELL STREET – ALEXANDER AVE TO LOGAN AVE – ASPHALT RECONSTRUCTION – STA. 0+96.94 TO STA. 2+03.46	A1
CA0057242.0352-06-R0	HARRIET STREET – NOTRE DAME AVE TO McDERMOT AVE – MAJOR REHABILITATION – STA. 0+97.02 TO STA. 1+65	A1
CA0057242.0352-07-R0	HARRIET STREET – NOTRE DAME AVE TO McDERMOT AVE – MAJOR REHABILITATION – STA. 1+65 TO STA. 2+47.79	A1
CA0057242.0352-08-R0	HARRIET STREET – McDERMOT AVE TO BANNATYNE AVE – MAJOR REHABILITATION – STA. 0+95.74 TO STA. 1+85.32	A1
CA0057242.0352-09-R0	SHERBROOK STREET – LOGAN AVE TO HENRY AVE – MAJOR REHABILITATION – STA. 0+93.48 TO STA. 2+22.17	A1
CA0057242.0352-10-R0	HENRY AVENUE – SHERBROOK ST TO GUNNELL ST – MAJOR REHABILITATION – STA. 0+76.71 TO STA. 1+95	A1
CA0057242.0352-11-R0	HENRY AVENUE – SHERBROOK ST TO GUNNELL ST – MAJOR REHABILITATION – STA. 1+95 TO STA. 3+13.92	A1

<u>Drawing No.</u>	<u>Drawing Name/Title</u>	<u>Drawing (Original) Sheet Size</u>
CA0057242.0352-12-R0	GUNNELL STREET – LOGAN AVE TO HENRY AVE – MAJOR REHABILITATION – STA. 0+97.11 TO STA. 2+45.07	A1
CA0057242.0352-13-R0	TACHE AVENUE – RUE DARVEAU TO RUE HEBERT – CONCRETE RECONSTRUCTION – STA. 1+00 TO STA. 1+35	A1
CA0057242.0352-14-R0	INDEX PAGE	A1
CA0057242.0352-15-R0	PANET ROAD – 298.3m NNL MISSION ST TO 272.3m SSL NAIRN AVE – LDS CONSTRUCTION – STA. 4+36.25 TO STA. 5+50	A1
CA0057242.0352-16-R0	PANET ROAD – 412.0m NNL MISSION ST TO 155.2m SSL NAIRN AVE – LDS CONSTRUCTION – STA. 5+50 TO STA. 6+67.20	A1
CA0057242.0352-17-R0	TACHE AVENUE – 1.4m NNL RUE DARVEAU TO 3.0m NNL RUE HEBERT – LDS CONSTRUCTION – STA. 1+21.44 TO STA. 2+15	A1
CA0057242.0352-18-R0	TACHE AVENUE – 3.0m NNL RUE HEBERT TO RUE MESSENGER – LDS CONSTRUCTION – STA. 2+15 TO STA. 3+07.17	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);
 - (v) Other job related items.
- (b) Demobilization shall include, but not be limited to:
- (i) All activities and costs for transportation of personnel, equipment, and supplies not used in the project from the site, and/or sites, and/or between sites;
 - (ii) Disassembly, removal, and site cleanup and restoration of offices, buildings, and other facilities assembled on the site and/or sites;

- (iii) Repair of access roads, temporary haul roads, and equipment parking areas leaving the project site in the same or better condition than at the start of the project;
- (iv) General cleanup and housekeeping needed to restore a neat and orderly project site.

E2.5 Access to the site, equipment parking, and staging areas are limited to that shown on the drawings or as approved by the Contract Administrator.

MEASUREMENT AND PAYMENT

E2.6 The lump-sum price for the Mobilization and Demobilization bid item shall not exceed five percent (5.00%) of the total bid price for the Contract.

E2.6.1 Further to B9, B17, C12 and E2.6, should the lump sum price exceed 5% of the Total Bid Price the lump sum price will be reduced to 5% of the Total Bid Price, the Total Bid Price will be determined using the reduced lump sum price and payment will be based on the reduced lump sum price.

E2.7 Payment for Mobilization:

- (a) 60% of the lump-sum price will be paid to the contractor for Mobilization on the first Progress Estimate for the Contract.

E2.8 Payment for Demobilization:

- (a) The remaining 40% of the lump-sum price will be paid upon:
 - (i) Restoration of the site and/or sites to the satisfaction of the Contract Administrator;
 - (ii) Distribution of the Declaration of Total Performance.

E2.9 Pay Reduction for Accessibility Plan

- (a) The Demobilization payment will be reduced by the number of pay adjustments incurred in accordance with D12 and as determined by the Contract Administrator.

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

E3. CASH ALLOWANCE FOR SITE SAFETY

E3.1 Special provisions may be necessary to ensure the protection of the health, safety and well-being of the public.

- (a) Particular care shall be taken in areas frequented by individuals who may face increased safety risks.

E3.2 Site safety measures shall be deemed necessary and reasonable by the City and the Contract Administrator, and approved by the Contract Administrator.

- (a) Measures may include, but not limited to, custom signage, barricades, fencing, and lighting.
- (b) The Contractor shall work collaboratively with the City, Contract Administrator and special interest groups to ensure site safety.
- (c) The Contract Administrator shall notify the Contractor at least five (5) business days in advance of implementing approved safety measures.

E3.3 A cash allowance has been included on Form B: Prices.

E3.4 The City reserves the right to delete any or all of the Cash Allowance from the Contract if the Work intended to be covered by the Cash Allowance is not required, or if the Works intended are found to be more extensive than the provisional Cash Allowance.

E3.5 Cost of additional work shall be evaluated by the methods outlined in C7.4, and a Change Order prepared by the Contract Administrator. Cost of the Change Order will be paid on the Progress Estimate and deducted from the Cash Allowance. If the valuation of the authorized work exceeds the Value of the Cash Allowance, the Contract Value will be adjusted by the shortfall.

E4. GEOTECHNICAL REPORT

E4.1 Further to C3.1, the geotechnical reports are provided to aid the Contractor's evaluation of the pavement structure and/or existing soil conditions. The geotechnical report is contained in Appendix 'A'.

E5. OFFICE FACILITIES

E5.1 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 20 square metres, a height of 2.4m with two 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 16-18°C or 24-25°C.
- (e) The building shall be adequately lighted with fluorescent fixtures and have a minimum of three wall outlets.
- (f) The building shall be furnished with one desk, a table 3m x 1.2m, and a minimum eight (8) 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.
- (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.

E5.2 The Contractor shall be responsible for all installation and removal costs, all operating costs, and the general maintenance of the office facilities.

E5.3 The office facilities will be provided from the date of the commencement of the Work to the date of Total Performance.

E5.4 On a one-time basis, as directed by the Contract Administrator, the Contractor shall relocate the office facilities to a more convenient location for the remainder of the work.

E5.5 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.

E6. PROTECTION OF EXISTING TREES

E6.1 The Contractor shall take the following precautionary steps to prevent damage from construction activities to existing boulevard trees within the limits of the construction area:

- (a) The Contractor shall not stockpile materials and soil or park vehicles and equipment on boulevards within 2 metres of trees.
- (b) Trees identified to be at risk by the Contract Administrator are to be strapped with 25 x 100 x 2400mm wood planks, or suitably protected as approved by the Contract Administrator.

- (c) Excavation shall be performed in a manner that minimizes damage to the existing root systems. Where possible, excavation shall be carried out such that the edge of the excavation shall be a minimum of 1.5 times the diameter (measured in inches), with the outcome read in feet, from the closest edge of the trunk. Where roots must be cut to facilitate excavation, they shall be pruned neatly at the face of excavation.
- (d) Operation of equipment within the dripline of the trees shall be kept to the minimum required to perform the work required. Equipment shall not be parked, repaired, refuelled; construction materials shall not be stored, and earth materials shall not be stockpiled within the driplines of trees. The dripline of a tree shall be considered to be the ground surface directly beneath the tips of its outermost branches. The Contractor shall ensure that the operations do not cause flooding or sediment deposition on areas where trees are located.
- (e) Work on-site shall be carried out in such a manner so as to minimize damage to existing tree branches. Where damage to branches does occur, they shall be neatly pruned.

E6.2 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.

E6.3 No separate measurement or payment will be made for the protection of trees.

E6.4 Except as required in E6.1(c) and E6.1(e), Elm trees shall not be pruned at any time between April 1 and July 31.

E7. TRAFFIC CONTROL

E7.1 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 CW3410.
- (b) In accordance with the Manual of Temporary Traffic Control on City Streets (MTTC), the Contractor ("Construction Agency" in the Manual) shall be responsible for placing, maintaining and removing the appropriate temporary traffic control devices as specified by the MTTC, 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;
 - (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.

- E7.2 Upon request from the Contract Administrator, the Contractor shall provide records demonstrating that the site has been maintained.
- E7.3 Further to E7.1(c) and E7.1(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.
- E7.4 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.
- E7.5 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.

E8. TRAFFIC MANAGEMENT

E8.1 Further to 3.7 of CW 1130:

- E8.1.1 The Contractor shall schedule construction activities to meet the following:
- (a) At least one lane for local access traffic shall be maintained along the following street during construction. Intersecting streets and private approach access shall be maintained at all times.
 - (i) Harriet Street – Notre Dame Avenue to McDermot Avenue
 - (ii) Harriet Street – McDermot Avenue to Bannatyne Avenue
 - (iii) Sherbrook Street – Logan Avenue to Henry Avenue
 - (iv) Henry Avenue – Sherbrook Street to Gunnell Street
 - (v) Gunnell Street – Henry Avenue to Logan Avenue
 - (b) Adelaide Street/Princess Street alley will be closed to through traffic. The work will be completed in two phases. The segment under construction will be fully closed to traffic. Two-way traffic shall be maintained along the segment not under construction with access from either Adelaide Street or Princess Street. The Contractor shall sign the street “Road Closed – No Exit” in accordance with the Manual of Temporary Traffic Control.
 - (c) Maintain a minimum of one lane of traffic on McDermot Avenue between Adelaide Street and Princess Street to complete the catch basin lead repairs.
 - (i) The protected bike lane on McDermot Avenue will be impacted by the proposed works and a detour for cyclists will be required as approved by the City’s Traffic Network Engineer and Contract Administrator.
 - (d) Austin Street will be closed to through traffic. Local access shall be maintained for CARSTAR and the parking lot from Higgins Avenue. Two-way traffic to be maintained from Higgins Ave to the parking lot approach. Austin Street to be fully closed from the parking lot approach to Henry Avenue. The Contractor shall sign the street “Road Closed – No Exit” in accordance with the Manual of Temporary Traffic Control.
 - (e) Maintain one lane of eastbound and westbound traffic on Higgins Avenue through the Austin Street intersection to complete the proposed pedestrian improvements.
 - (f) Bushnell Street will be closed to through traffic. Local access shall be maintained for the Freight House Early Learning and Care centre. The Contractor shall sign the street “Road Closed – No Exit” in accordance with the Manual of Temporary Traffic Control.
 - (g) Tache Avenue will be closed to all traffic. The Contractor shall sign the street “Road Closed – No Exit” in accordance with the Manual of Temporary Traffic Control.
 - (i) Access shall be maintained through the Rue Messenger and Rue Hebert intersections.

- (h) Maintain one lane of northbound and southbound traffic on Panet Road between Nairn Avenue and the CN tracks to the south.
 - (i) Construct a temporary asphalt surface (50mm thick, Type MS2) on the existing east shoulder as directed by the Contract Administrator.

- E8.1.2 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.
- E8.1.3 Should the Contractor be unable to maintain an existing 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 24 hours notification to the affected residence or business and the Contract Administrator, prior to disruption of access.
- E8.1.4 Flag persons may be necessary to maintain the flow of traffic during certain work operations
- E8.1.5 Pedestrian and ambulance/emergency vehicle access must be maintained at all times.

E9. REFUSE AND RECYCLING COLLECTION

- E9.1 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 E9.2 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.
- E9.2 Collection Schedule:

<u>Adelaide Street/Princess Street Alley – Notre Dame Avenue to McDermot Avenue</u>	
<i>Collection Day(s):</i>	Varies
<i>Collection Time:</i>	7:00 am – 7:00 pm
<i>Common Collection Area:</i>	Back Alley
<u>Austin Street – Henry Avenue to Higgins Avenue.</u>	
<i>Collection Day(s):</i>	Varies
<i>Collection Time:</i>	7:00 am – 7:00 pm
<i>Common Collection Area:</i>	Front Street
<u>Bushnell Street – Alexander Avenue to Logan Avenue.</u>	
<i>Collection Day(s):</i>	Thursday
<i>Collection Time:</i>	7:00 am – 7:00 pm
<i>Common Collection Area:</i>	Back Alley and Front Street
<u>Harriet Street - Notre Dame Avenue to McDermot Avenue.</u>	
<i>Collection Day(s):</i>	Thursday
<i>Collection Time:</i>	7:00 am – 7:00 pm
<i>Common Collection Area:</i>	Front Street and Private Property

<u>Harriet Street - McDermot Avenue to Bannatyne Avenue.</u>	
<i>Collection Day(s):</i>	Thursday
<i>Collection Time:</i>	7:00 am – 7:00 pm
<i>Common Collection Area:</i>	Back Alley and Front Street
<u>Sherbrook Street – Logan Avenue to Henry Avenue.</u>	
<i>Collection Day(s):</i>	Varies
<i>Collection Time:</i>	7:00 am – 7:00 pm
<i>Common Collection Area:</i>	Front Street and Private Property
<u>Henry Avenue – Sherbrook Street to Gunnell Street.</u>	
<i>Collection Day(s):</i>	Varies
<i>Collection Time:</i>	7:00 am – 7:00 pm
<i>Common Collection Area:</i>	Front Street and Private Property
<u>Gunnell Street – Henry Avenue to Logan Avenue.</u>	
<i>Collection Day(s):</i>	Varies
<i>Collection Time:</i>	7:00 am – 7:00 pm
<i>Common Collection Area:</i>	Back Alley and Private Property
<u>Tache Avenue – Rue Darveau to Rue Messenger.</u>	
<i>Collection Day(s):</i>	Tuesday
<i>Collection Time:</i>	7:00 am – 7:00 pm
<i>Common Collection Area:</i>	Front Street

E9.3 No measurement or payment will be made for the work associated with this specification.

E9.4 Private collection days may vary.

E10. PEDESTRIAN SAFETY

E10.1 During the project, temporary snow fencing shall be installed on Austin Street, Bushnell Street and Tache Avenue, or as required, to ensure pedestrian safety along excavations or shafts. 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.

E11. WATER OBTAINED FROM THE CITY

E11.1 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.

E12. SURFACE RESTORATIONS

E12.1 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.

E13. INFRASTRUCTURE SIGNS

E13.1 The Contractor shall obtain infrastructure signs from the Traffic Services Sign Shop at 495 Archibald 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 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

E14. SUPPLY AND INSTALLATION OF PAVEMENT REPAIR FABRIC

DESCRIPTION

E14.1 General

E14.1.1 This specification covers the supply and installation of pavement repair fabric.

E14.1.2 Referenced Standard Construction

(a) CW 3130 – Supply and Installation of Geotextile Fabrics.

MATERIALS

E14.2 Storage and Handling

E14.2.1 Store and handle material in accordance with Section 2 of CW 3130.

E14.3 Pavement Repair Fabric

E14.3.1 Pavement repair fabric will be Glas Grid Road Reinforcement Mesh - Style 8501.

CONSTRUCTION METHODS

E14.4 General

E14.4.1 Install pavement repair fabric at random locations as directed by the Contract Administrator.

E14.4.2 The extent of the placement limits and quantities required will be determined by the Contract Administrator and provided 48 hours prior to the placement of asphalt.

E14.4.3 Proceed with installation upon completion and acceptance of the asphalt levelling course.

E14.4.4 Install fabric in accordance with the manufacturer's specifications and recommendations.

E14.4.5 Only construction equipment required to place the final asphalt surface course will be allowed to travel on the exposed fabric.

E14.4.6 Replace damaged or improperly placed fabric.

E14.4.7 Ensure temperature of the asphalt material does not exceed the melting point of the fabric.

MEASUREMENT AND PAYMENT

E14.5 Pavement Repair Fabric

E14.5.1 The supply and installation of the pavement repair fabric will be measured on an area basis and paid for at the Contract Unit Price per square metre for "Pavement Repair Fabric".

The area to be paid for will be the total number of square metres of pavement repair fabric supplied and installed in accordance with this specification, accepted and measured by the Contract Administrator.

E15. PARTIAL DEPTH PATCHING OF EXISTING JOINTS

DESCRIPTION

E15.1 General

E15.1.1 This specification covers the Partial Depth Patching of existing concrete pavement joints.

E15.2 Referenced Standard Construction Specifications

- (a) CW 3230 – Full-Depth Patching of Existing Slabs and Joints
- (b) CW 3410 – Asphalt Concrete Pavement Works

MATERIALS

E15.3 Asphalt Materials

E15.3.1 Asphalt material will be Type 1A supplied in accordance with Sections 5 and 6 of CW 3410.

E15.4 Tack Coat

E15.4.1 Tack Coat will be undiluted SS-1 emulsified asphalt.

CONSTRUCTION METHODS

E15.5 Planing of Joints

E15.5.1 Plane existing joints designated by the Contract Administrator to a minimum depth of 50 mm and a maximum of depth 90 mm to remove ravelled or deteriorated concrete. Width of joint to be planed will vary with depth.

E15.5.2 Should the depth of joint deterioration exceed the maximum indicated, as determined by the Contract Administrator, the entire joint shall be renewed and paid for in accordance with CW 3230 as a full depth joint repair. Planing completed shall be paid for in accordance with Section E15.7 of this specification.

E15.5.3 Dispose of material in accordance with Section 3.4 of CW 1130.

E15.6 Placement of Asphalt Material

E15.6.1 Prior to placement of asphalt material, the planed joint shall be swept or blow clean of any loose material.

E15.6.2 Apply Tack Coat uniformly on the entire surface of the planed joint. The application rate shall not exceed 0.23 litres per square metre. The planed joint shall be dry prior to applying the tack coat.

E15.6.3 Place and compact asphalt material in accordance with Section 9.3 of CW 3410 to the satisfaction of the Contract Administrator. The finished elevation of the patch shall be flush with surrounding pavement surface.

E15.6.4 Compact the asphalt material to an average 95% of the 75 blow Marshall Density of the paving mixture with no individual test being less than 90 %.

E15.6.5 Ensure that no traffic is allowed to travel over the patched area until the asphalt has cooled to atmospheric temperature.

MEASUREMENT AND PAYMENT

E15.7 Partial Depth Planing of Existing Joints

E15.7.1 Partial Depth Planing of Existing Joints will be measured on an area basis and paid for at the Contract Unit Price per square metre for "Partial Depth Planing of Existing Joints". The area to be paid for will be the total number of square metres of joints planed in accordance with this specification, accepted and measured by the Contract Administrator.

E15.8 Asphalt Patching of Partial Depth Joints

E15.9 Asphalt Patching of Partial Depth Joints will be measured on an area basis and paid for at the Contract Unit Price per square metre for "Asphalt Patching of Partial Depth Joints". The area to be paid for will be the total number of square metres of joints patched in accordance with this specification, accepted, and measured by the Contract Administrator.

E16. PORTLAND CEMENT CONCRETE SIDEWALK WITH BLOCK OUTS FOR INDICATOR SURFACES

DESCRIPTION

E16.1 This specification shall supplement CW 3325-R5 "Portland Cement Concrete Sidewalks".

CONSTRUCTION METHODS

E16.2 Add the following to section 9 :

E16.2.1 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.

E16.2.2 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) millimetres.

E16.2.3 Concrete curbs for monolithic curb and sidewalk with block outs shall be constructed in accordance with CW 3240.

MEASUREMENT AND PAYMENT

E16.3 Add the following to section 12 :

E16.3.1 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

E16.4 Add the following to section 13 :

E16.4.1 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.

E16.4.2 Items of Work:

- (a) 100 mm Sidewalk with Block Outs
- (b) 150 mm Sidewalk with Block Outs
- (c) Monolithic Curb and 100 mm Sidewalk with Block Outs*

(d) Monolithic Curb and 150 mm Sidewalk with Block Outs*

* - reveal height and type

E16.4.3 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.

E17. PAVING STONES FOR INDICATOR SURFACES

DESCRIPTION

E17.1 This specification shall supplement CW 3330-R5 "Installation of Interlocking Paving Stones"

MATERIALS

E17.2 Add the following to section 5 :

E17.2.1 Paving Stones for indicator surfaces shall be as shown on the drawings.

E17.2.2 Paving Stones for indicator surfaces shall be :

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

Endicott Clay Paver(92mm X 57mm X 194mm)- Dark Ironspot
<https://endicott.com/>

Yankee Hill Brick (92mm X 57mm X 194mm)- Dark Ironspot
<http://yankeehillbrick.com/>

CONSTRUCTION METHODS

E17.3 Add the following to section 9.2 "Preparation of Sub-grade, Sub-base and Sand-base" :

E17.3.1 Preparation of Sand-Base for Paving Stones in Sidewalk Block Outs.

E17.3.2 Place a 15mm layer of bedding sand in the blocked out sidewalk areas.

E17.3.3 The bedding sand shall be spread and levelled so that the paving stones when installed are 5 mm higher than the finished grade.

E17.3.4 No more sand shall be spread than can be covered in with paving stone on the same day.

E17.3.5 The bedding sand shall not be compacted or disturbed prior to laying the paving stones.

E17.4 Add the following to section 9.3 "Installation of Paving Stones" :

E17.4.1 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

E17.5 Add the following to section 12 :

E17.6 Supply and Installation of Paving Stones for Indicator Surfaces

E17.6.1 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

E17.7 Add the following to section 13 :

- E17.7.1 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.
- E17.7.2 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.

E18. CONSTRUCTION OF CURBS FOR ASPHALT PAVEMENT

DESCRIPTION

- E18.1 This Specification covers the construction of Barrier Curb, Modified Barrier Curb, Ramp Curb and Lip Curb for Asphalt Pavement on Litz Place.

GENERAL

- E18.2 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
 - (d) Standard Detail Drawings SD-200A

CONSTRUCTION METHODS

- E18.3 Further to CW 3310, the Contractor shall construct the Barrier Curb for Asphalt Pavement as per Standard Detail Drawing SD-200A.
- E18.4 Construction of Barrier Curb for Asphalt Pavement – Standard Detail Drawing SD-200A.
- E18.4.1 Place and compact 50mm sub-base material for roadway in accordance with the Standard Detail Drawing SD-200A and Specification CW 3110.
- E18.4.2 Supply and install 20M tie bars into sub-base material as shown on the Standard Detail Drawing SD-200A.
- E18.4.3 Drill holes into the sub-base at a maximum depth of 150mm, with a drilling diameter of 2mm greater than the diameter of the tie bar.
- E18.4.4 Supply and install 2-10M longitudinal deformed bars for reinforcement as shown on the Standard Detail Drawing SD-200A.
- E18.4.5 Supply and install 2-19.1mm dowels at transverse joints every 6.0 meters as shown on the Standard Detail Drawing SD-200A. All dowels shall be thoroughly lubricated with asphaltic cut-back.
- E18.4.6 Provide a minimum of 40mm cover between reinforcing steel and the finished concrete surface.
- E18.4.7 Transverse joints will be saw cut every 3.0 meters. Transverse joints are to be saw cut to a maximum depth of 25mm, so as to not saw cut into the 10M longitudinal deformed bars and 19.1mm dowels.
- E18.4.8 Construct Lip Curb for Asphalt Pavement (40mm ht) at private approaches in accordance with Standard Detail Drawing SD-202B. 1-10M longitudinal deformed bar for reinforcement and 1-19.1mm dowel only required for Lip Curb for Asphalt Pavement at transverse joints.
- E18.4.9 Construct Modified Barrier Curb for Asphalt Pavement (180mm ht) in accordance with Standard Detail Drawing SD-203B and SD-200A. Install 20M tie bars into sub-base material, 2-10M longitudinal deformed bars for reinforcement and 2-19.1mm dowels at transverse joints.

- E18.4.10 Construct Ramp Curb for Asphalt Pavement (8-12mm ht) at sidewalk ends in accordance with Standard Detail Drawing SD-229C. Install 1-10M longitudinal deformed bar for reinforcement and 1-19.1mm dowel only required for Ramp Curb for Asphalt Pavement at transverse joints.
- E18.4.11 Place concrete utilizing slip-form paving equipment in accordance with Specification CW 3310 unless otherwise directed by the Contract Administrator.
- E18.4.12 Place and compact 50mm sub-base material as backfill behind Barrier Curb for Asphalt Pavement with excavated area approximately 150mm deep or as directed by the Contract Administrator. Place and compact suitable site material as backfill behind barrier curb to allow for 100mm of topsoil and sod below top of barrier curb. Care must be taken so as to not disturb the new Barrier Curb for Asphalt Pavement during placing and compaction of 50mm sub-base material and suitable site material.

MEASUREMENT AND PAYMENT

- E18.5 Construction of Barrier Curb for Asphalt Pavement shall be measured on a length basis and paid for at the Contract Unit Price per meter of "Construction of Barrier Curb 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.
- E18.6 Construction of Lip Curb for Asphalt Pavement shall be measured on a length basis and paid for at the Contract Unit Price per meter of "Construction of Lip Curb 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.
- E18.7 Construction of Modified Barrier Curb for Asphalt Pavement shall be measured on a length basis and paid for at the Contract Unit Price per meter of "Construction of Modified Barrier Curb 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.
- E18.8 Construction of Ramp Curb for Asphalt Pavement shall be measured on a length basis and paid for at the Contract Unit Price per meter of "Construction of Ramp Curb 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.
- E18.9 The supply and installation of 20M tie bars, 10M longitudinal deformed bars and 19.1mm dowels is incidental to "Construction of Barrier Curb for Asphalt Pavement", "Construction of Lip Curb for Asphalt Pavement", "Construction of Modified Barrier Curb for Asphalt Pavement", and "Construction of Ramp Curb for Asphalt Pavement". No measurement or payment will be made.
- E18.10 Supply and placement of 50mm sub-base material for backfill to be paid for as per payment item "50mm Granular B Recycled Concrete".
- E18.11 Supply and placement of suitable site material for backfill to be paid for as per payment item "Imported Fill Material".

E19. REVERSE CURB AND GUTTER

DESCRIPTION

- E19.1 This Specification is further to CW 3310-R19.

CONSTRUCTION METHODS

- E19.2 The shape and orientation of the curbs are to follow the Contract Drawings.

- E19.3 The gutter thickness is proposed to be 150mm based on constructability. The gutter pan shall not be less than 150mm and does not have to exceed 180mm. The Contractor shall confirm the mould shape with the Contract Administrator prior to fabricating or procuring.

MEASUREMENT AND PAYMENT

- E19.4 "Reverse Concrete Curb and Gutter (150mm reveal ht, Barrier Curb, Integral, 600mm width, 150mm Plain Type 2 Concrete Pavement)" shall be measured by the linear meter and paid for at the Contract Unit Price.
- E19.5 "Reverse Modified Concrete Curb and Gutter (180mm reveal ht, Modified Barrier, Integral, 600mm width, 150mm Plain Type 2 Concrete Pavement)" shall be measured by the linear meter and paid for at the Contract Unit Price.
- E19.6 "Reverse Lip Concrete Curb and Gutter (40mm reveal ht, Lip Curb, Integral, 600mm width, 150mm Plain Type 2 Concrete Pavement)" shall be measured by the linear meter and paid for at the Contract Unit Price.

E20. SIDEWALK EXPANSION JOINTS

DESCRIPTION

- E20.1 Further to CW 3325, this specification covers the supply and installation of expansion joints to be constructed within concrete sidewalk.

MATERIALS

- E20.2 Fiber Joint Filler
- (a) Fibre joint filler shall be rot-proof and of the preformed, non-extruding, resilient type made with a bituminous fibre such as Flexcell and shall conform to the requirements of ASTM D1751 or equal as accepted by the Contract Administrator, in accordance with B6, "Substitutes".
- E20.3 Reinforcing Steel
- (a) 300mm long 10M smooth, epoxy coated steel dowels, 300 MPa yield strength.

CONSTRUCTION METHODS

- E20.4 Expansion joints shall be constructed and installed as indicated in the Contract Documents or directed by the Contract Administrator.
- E20.5 The fiber joint filler shall extend the full width and depth of the sidewalk. Any excess material shall be trimmed to match the surface of the concrete.
- E20.6 Two dowels shall be installed at each expansion joint.
- E20.7 The dowels shall be drilled through the fiber joint filler and are to be coated with asphaltic cut-back.

MEASUREMENT AND PAYMENT

- E20.8 No measurement or payment will be made for performing the supply of materials and the operations herein described and shall be considered incidental to installation of concrete sidewalk.

E21. INSTALLATION OF TRAFFIC SERVICES SIGN CLAMPS

GENERAL

E21.1 This Specification covers all operations relating to the Installation of Traffic Services Sign Clamps including clamps for Transit stops.

E21.2 The Work to be done by the Contractor under this Specification shall include the furnishing of all superintendence, overhead, labor, equipment, tools, supplies, and all things necessary for and incidental to the satisfactory performance and completion of all Works as hereinafter specified.

MATERIALS

E21.3 The Contract Administrator will arrange for Traffic Service to have the sign clamps delivered to site. The Contractor is to store the Sign Clamps in a secure location until the material is ready for installation.

CONSTRUCTION METHODS

E21.4 Installation of Traffic Services Sign Clamps is to be done in conjunction with the Installation of the Concrete Sidewalk and placed into the fresh concrete at locations determined by Traffic Services.

MEASUREMENT AND PAYMENT

E21.5 No measurement and payment will be made for the installation of sign clamps.

E22. ASPHALT PAVEMENT WORKS – SPECIAL PROVISION

E22.1 Appendix 'B' – Special Provision for Asphalt Pavement Works shall replace the City of Winnipeg Standard Construction Specification CW 3410 – Asphaltic Concrete Pavement Works for the Tender.

E23. STANDARD DETAILS

E23.1 Appendix 'C' – Standard Details shall add new standard details or replace previous versions of existing standard details from the City of Winnipeg Standard Construction Specification – Surface works – Standard details for the Tender.

E24. WORKING NEAR WATERWAYS

DESCRIPTION

E24.1 The Contractor shall comply with all rules and regulations stated in the City of Winnipeg Planning, Property and Development Waterway Permit to be provided in advance of construction.

E24.2 The City will provide the Contractor with the Waterway Permit prior to construction on the Site.

E24.3 The Work on Rue Messenger and Tache Avenue between Rue Messenger and Rue Hebert is near the Red River and must not impact the stability of the riverbank.

CONSTRUCTION METHODS

E24.4 Due to the susceptibility to movement, the following conditions must be met for the project duration within the identified riverbank area:

- (a) no material shall be stockpiled between the north/west edge of pavement and the riverbank;
- (b) no equipment shall be parked between the north/west edge of pavement and the riverbank;
- (c) equipment used for excavation shall work from the roadway only; and
- (d) no heavy equipment permitted for subgrade compaction, spreading and placement of granular and compaction of granular. A skid-steer would be acceptable to use.

MEASUREMENT AND PAYMENT

E24.5 No measurement or payments shall be made for working on/around the riverbank.

E25. OPERATING CONSTRAINTS FOR WORK IN CLOSE PROXIMITY TO CRITICAL WATER INFRASTRUCTURE

DESCRIPTION

E25.1 This Section details operating constraints for all work to be carried out in close proximity to the City feeder mains and aqueduct. Close proximity shall be deemed to be any construction activity within a 5 m horizontal offset from the centreline of the feeder main/water main, within 5 m of valve chambers and other appurtenances, and any other infrastructure identified below.

E25.2 The following shall be considered critical pipelines and water infrastructure for this project:

(a) Panet Road Feeder Main:

(i) The feeder main runs north-south within the Panet Road right of way as shown on the Drawings in the west boulevard.

(b) Tache Avenue Aqueduct:

(i) The aqueduct runs north-south within the Tache Avenue right of way as shown on the Drawings in the east boulevard and crosses to the river at Tache Avenue and Rue Messenger.

GENERAL CONSIDERATIONS FOR WORK IN CLOSE PROXIMITY TO CRITICAL WATER INFRASTRUCTURE:

E25.3 Feeder mains and large diameter water mains are a critical component of the City of Winnipeg Regional Water Supply System and work in close proximity to feeder mains shall be undertaken with an abundance of caution. Large diameter feeder main and water mains cannot typically be taken out of service for extended periods to facilitate construction and inadvertent damage caused to the pipe would likely have catastrophic consequences.

E25.4 Work around critical water infrastructure shall be planned and implemented to minimize the time period that work is carried out in close proximity to the pipe and to ensure that the pipeline is not subjected to excessive construction related loads, including excessive vibrations and/or concentrated or asymmetrical lateral loads during backfill placement.

E25.5 Large diameter pressure pipe generally has limited ability to withstand increased earth and live loading. Therefore, every precaution must be undertaken to ensure that applied loading during all phases of construction is within accepted loading parameters. PCCP typically fails in a non-ductile mode with the potential to cause extensive consequential damage to infrastructure if failure should occur. All large diameter feeder mains/water mains have the potential to cause extensive flooding.

E25.6 Construction in close proximity to critical infrastructure shall not commence until both the equipment and construction method statements have been submitted, reviewed, and accepted by the Contract Administrator.

SUBMITTALS

E25.7 Submit proposed construction equipment specifications to the Contract Administrator for review a minimum of ten (10) Business Days prior to construction. The equipment submission shall include:

(a) Equipment operating and payload weights;

(b) equipment dimensions, including: wheel or track base, track length or axle spacing, track widths or wheel configurations; and,

(c) load distributions in the intended operating configuration.

- E25.8 Submit a construction method statement to the Contract Administrator a minimum of ten (10) business days prior to construction. The construction method statement shall contain the following minimum information:
- (a) proposed construction plan including excavation locations, haul routes, excavation equipment locations, and loading positions;
 - (b) excavation plans, including shoring designs, for excavations occurring in close proximity to feeder mains (within 5 m horizontal of the pipe's centerline) where the excavation to be extended below the top of the feeder mains embedment zone (150 mm above the pipe);
 - (c) trenchless construction methodology for feeder main crossings, including: installation methods, means of grade control, means of confirming clear separation between the new LDS and existing feeder main; and
 - (d) any other pertinent information required to accurately describe the construction activities in close proximity to the feeder main and permit the Contract Administrator to review the proposed construction plans.
- E25.9 Incomplete or partial submissions will not be reviewed and will be returned to the Contractor for re-submission.
- E25.10 Allow five (5) Business Days for review by the Contract Administrator.

FEEDER MAIN OPERATIONAL LIMITATIONS

- E25.11 Feeder main shutdowns are scheduled based on a number of factors including water demand, weather, reservoir operation, routine maintenance and repair work within the regional distribution system, and other factors. If feeder main shutdowns are required, the City shall endeavour to make requested time periods available to the Contractor to schedule his/her work requiring removal of the feeder main from service, without limiting the City's control over the operation of the feeder main to complete other work, maintain adequate water supply and storage of water and maintain the integrity of the infrastructure. The City shall reserve the right to cancel and/or delay these schedule dates at any time, due to any circumstances that could adversely affect the feeder main or water supply including, but not limited to, high water demand, abnormal weather, failures of related water system components and/or security concerns.
- E25.12 Scheduling Restrictions:
- (a) Temporary feeder main shutdowns are typically limited to off-peak demand seasons (September 15th to May 15th) and low demand hours including evenings or other low demand periods.
- E25.13 The Contractor shall provide Notice to the Contract Administrator in writing, a minimum of fifteen (15) Business Days prior to requiring the shutdown. The City will endeavour to schedule the shutdown as requested.

FEEDER MAIN COVER

- E25.14 The Chalmers Feeder Main has limited cover for the length of this project ranging from 1.0 metres to approximately 1.5 metres below finish centerline grade of proposed street.

PRE-WORK, PLANNING, AND GENERAL EXECUTION

- E25.15 No work shall commence in close proximity to feeder mains, chambers, and critical infrastructure until the equipment specifications and construction method statement have been submitted and accepted, and feeder main locations have been clearly delineated in the field. Work over feeder mains shall only be carried out with equipment that has been reviewed and quantified in terms of its loading implications on the pipe.
- E25.15.1 Contact the City of Winnipeg Water and Waste Department, Construction Services Coordinator prior to construction.

- E25.16 Locate feeder mains and water mains and confirm their position horizontally and vertically prior to undertaking work in close proximity to the feeder main and aqueduct. Note, exact locations to be identified in the field. Deviations from the elevations noted on the Drawings shall be reported to Contract Administrator for review prior to proceeding with work.
- E25.17 Visually delineate all critical infrastructure identified herein on Site by use of paint, staking/flagging, construction fencing, snow fencing, or other suitable methods.
- E25.18 Only utilize construction practices and procedures that do not impart excessive vibratory loads on feeder mains and chambers or that would cause settlement of the subgrade below feeder mains and critical pipelines.
- E25.19 Where the existing road structure must be removed, crossing of critical infrastructure shall be prohibited from the time the existing roadway structure is removed until the completion of granular base construction. At all times prior to completion of final paving; reduce equipment speeds to levels that minimize the effects of impact loading to the critical infrastructure.
- E25.20 Only equipment and construction practices stipulated in the accepted construction method statement and the supplemental requirements noted herein may be utilized in close proximity to feeder mains, chambers, and other critical infrastructure identified herein.
- E25.21 Construction operations should be staged in such a manner as to limit multiple construction loads at one time, (e.g., offset crossings sufficiently from each other, rollers should remain a sufficient distance behind spreaders to limit loads. A reasonable offset distance is 3 m between loads).
- E25.22 Granular material, construction material, soil, and/or other material shall not be stockpiled on the pipelines or within 5 m of any feeder main, valve chamber, or other critical infrastructure identified herein.
- E25.23 The Contractor shall ensure that all crew members understand and observe the requirements of working near feeder mains, valve chambers, and critical infrastructure. Prior to commencement of on-Site work, the Contractor shall jointly conduct an orientation meeting with the Contract Administer, all superintendents, foreman, and heavy equipment operators to make all workers on the Site fully cognizant of the limitations of altered loading on, the ramifications of inadvertent damage to, and the constraints associated with work in close proximity to feeder mains and critical pipelines. New personnel introduced after commencement of the Project need to be formally orientated as outlined herein. It is recommended that restrictions associated with the crossing, consistent with the Contractor's submitted method statement be posted on Site and near the crossing.

DEMOLITION, EXCAVATION, AND SHORING

- E25.24 Use of pneumatic concrete breakers within 3 m of a feeder main, valve chamber, or critical pipeline is prohibited. Pavement shall be full depth sawcut and carefully removed. Use of hand held jackhammers for pavement removal will be allowed.
- E25.25 Offset excavation equipment a minimum of 3 m from the centerline of critical pipelines when undertaking excavations where there is less than 2.4 m of earth cover over the pipeline.
- E25.26 Excavation:
- (a) Utilize only smooth edged excavation buckets, soft excavation, or hand excavation techniques where there is less than 1.5 m of earth cover over the pipeline.
 - (b) Where there is less than 1.0 m of soil cover above the pipeline, provide full time supervision and complete the excavation utilizing hand excavation, soft excavation methods, or machine excavation. Where machine excavation is to be used the crown of the pipeline must be exposed (or suitable located) using hand or soft excavation methods a minimum of every 1.8 m.

- (c) Where there is less than 0.5 m of soil cover above the pipeline, provide full time supervision and complete the excavation utilizing hand excavation or soft excavation methods only.

- E25.27 Equipment should not be allowed to operate while positioned directly over a feeder main or critical pipeline except were permitted herein, outlined in the reviewed and accepted construction method statement.
- E25.28 Excavations within 3 m of the outside edge of a feeder main (hydrovac holes for confirming trenchless installations excluded) and which extend below obvert of the feeder main shall utilize shoring methods that precludes the movement of native in-situ soils (i.e. a tight shoring system).
- E25.29 Excavation and base placement for sidewalks and approaches shall be completed shall be completed remotely with limitations as specified herein.

UNDERGROUND CONSTRUCTION AND TRENCHLESS PIPE INSTALLATION

- E25.30 Where removing existing catch basins are noted on the Drawings, expose feeder main where catch basin is closer than 3 metres from Feeder Main. Where Contract Administrator determines removal of catch basin may undermine pipe foundation, remove catch basin to the to of the feeder main and abandon catch basin in place.
- E25.31 Where excavation is required within the feeder main's embedment zone, the Contractor shall take steps to ensure the granular embedment material bounding the feeder main remains stable during the work and the feeder main outside of the excavation is not undermined.

SUBGRADE CONSTRUCTION

- E25.32 Subgrade and backfill compaction within 3 metres (horizontal) of a critical pipeline or valve chamber shall be limited to non-vibratory methods only. Small walk behind vibratory packers will be permitted.
- E25.33 Subgrade, sub-base and base course construction shall be kept in a rut free condition at all times. Construction equipment is prohibited from crossing pipelines if the grade is insufficient to support the equipment without rutting.
- E25.34 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 feeder main, 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.
- E25.35 Fill material shall not be dumped directly on pipelines but shall be stockpiled outside the limits noted in these recommendations and shall be carefully bladed in-place.
- E25.36 Only use compaction equipment approved by the contract administrator to compact fill materials above critical pipelines. Compaction of fill materials shall be completed using static methods only, no vibratory compaction will be allowed within the limits noted in these recommendations.
- E25.37 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 to minimize the impact of wet weather.

SUBBASE AND BASE COURSE CONSTRUCTION

- E25.38 Subbase or base course materials shall not be dumped directly on pipelines but shall be stockpiled outside limits noted in these recommendations and shall be carefully bladed in-place.

- E25.39 Subbase compaction within 3 m horizontal of the centreline of a critical pipeline shall be either carried out by static methods (without vibration) or with smaller approved equipment such as hand held plate packers or smaller roller equipment.

PAVING

- E25.40 When constructing asphalt pavements only non-vibratory compaction should be used within 3 m (horizontal) of the center of critical pipelines.

FEEDER MAIN AND AQUEDUCT INSPECTION

- E25.41 The Contractor shall support third party inspections of the infrastructure throughout completion of the work.
- E25.42 The pipeline shall be exposed as specified herein using soft dig or hand excavation methods down to springline of the pipe. The excavation shall be completed in such a manner as to permit inspection by third party staff.
- E25.43 The Contractor is responsible for any shoring required to complete the inspection.
- E25.44 The Contractor shall have means of washing off the exterior of the pipe using a pressure washer or similar.
- E25.45 The Contractor shall have provisions on site to repair cracking in the feeder main's mortar coating or grout diapers. This shall include but is not limited to the use of Type HS cement mortar products.
- E25.46 Upon completion of the inspection, the Contractor shall replace any of the pipeline's bedding that was damaged or disturbed as part of the inspection (below springline). Above springline, the Contractor shall place and compact Bedding Sand up to the top of the sub grade. Compaction shall be completed using small hand held/walk behind packers in such a manner as to preclude damage to the pipeline.

E26. SOFT EXCAVATION TO EXPOSE UNDERGROUND UTILITIES

DESCRIPTION

- E26.1 This specification shall cover the removal of earthen material immediately adjacent to underground infrastructure by means of high pressure water spray, and the recovery of excavated material by vacuum type means or equivalent method as approved by the Contract Administrator.
- E26.2 This Specification covers the soft excavation to expose underground utilities to confirm location and determine the depth of the underground utility and whether it will interfere with the installation of proposed Works on site.
- E26.3 These underground utilities include, but are not limited to, Manitoba Hydro cables, BellMTS cables, existing sewers, and existing watermains.

EQUIPMENT

- E26.4 The equipment shall be capable of maintaining a minimum working pressure of 10,000 psi, at a rate of flow of 10 to 12 gallons per minute. The unit should be adjustable, so as to provide adequate pressure to remove earthen material identified by the Contract Administrator.
- E26.5 Spray head shall be equipped with a rotating type nozzle in order to provide a wider path of cut.

MATERIALS

- E26.6 Backfill Material

- E26.6.1 Backfill material for backfill of shafts after hydro-excavation has been completed shall consist of sand as per City of Winnipeg Standard Construction Specification CW 2030.

CONSTRUCTION METHODS

- E26.7 Prior to commencement of any construction works adjacent to underground utilities, the Contractor shall use soft excavation or hand excavation to expose the underground utilities.
- E26.8 Once the elevation of the top of the pipe or duct has been determined the resulting excavation shall be backfilled with bedding sand to the elevation of existing ground.

MEASUREMENT AND PAYMENT

- E26.9 Soft excavation to expose underground utilities will be considered incidental to the Work. No measurement and payment will be made within this section.
- E26.9.1 Further to E21.6, payment for soft excavation of feeder mains and aqueducts shall be measured on an hourly basis and paid for at the Contract Unit Price per hour for "Hydro Excavation". The hours to be paid for will be the total number of hours of Hydro Excavation in accordance with this specification, accepted and measured by the Contract Administrator. Travel to and from the Site will be considered incidental to "Hydro Excavation".

E27. WATER AND WASTE SEWER REPAIRS

- E27.1 Sewer repairs are subject to approval by the Water and Waste Department and may be removed if not required.

E28. SUPPLY AND INSTALL WATERMAIN AND WATER SERVICE INSULATION

DESCRIPTION

- E28.1 Notwithstanding 3.12 of CW 2110, this specification covers the supply and installation of insulation in roadway excavations over watermains and water services.
- E28.2 Referenced Standard Construction Specifications
- (a) CW 2030 – Excavation Bedding and Backfill
 - (b) CW 3110 – Sub –grade, Sub-base and Base Course Construction
- E28.3 Referenced Standard Details
- (a) SD-018 - Watermain and Water Service Insulation

MATERIALS

- E28.4 Acceptable insulation is:
- (a) Extruded Polystyrene rigid foam insulation – Type 4, 4" in thickness.
DOW - Roofmate or Highload 40
Owen's Corning - Foamular 350 or Foamular 400.
2" X 48" X 96", 2" X 24" X 96", 4" X 24" X 96"

- E28.5 Sand Bedding:
- (a) In accordance with CW 2030

CONSTRUCTION METHODS

- E28.6 Prior to the installation of any sub-base material or geotextile material, locate all existing water services. Further to SD-018, where directed by the Contract Administrator, excavate the sub-grade to allow the top of the insulation to be installed flush with the surrounding sub-grade.

Install the insulation on a level surface centered over the located watermain or water service for the full width of the roadway excavation. Install sand bedding if required to level the surface. Stockpile and dispose of excavated material in accordance with CW 3110.

- E28.7 Thickness of insulation is 100 mm (4"). If using 50 mm (2") panels 2 layers are required. Total width of insulation to be as directed by the Contract Administrator. Place sufficient full width panels to meet or exceed the specified width.
- E28.8 Place insulation panels adjacent to each other over the specified area with no gaps between panels and less than 15mm of elevation difference along the adjoining edges. Where 2" thick panels are being used, offset the top layer to prevent the panel joints from aligning with the joints in the lower layer.
- E28.9 Use full panels of insulation where possible. Where necessary cut insulation panels to obtain coverage to specified lengths. Insulation pieces shall be a minimum of dimension of 300 mm in width or length.
- E28.10 Take appropriate measures to ensure panels are not displaced when installing geotextiles and during backfilling operations.

MEASUREMENT AND PAYMENT

- E28.11 Watermain and Water Service Insulation shall be measured on an area basis and paid for at the Contract Unit Price per square metre of "Watermain and Water Service Insulation". The area to be paid for shall be the total square meters of watermain and water service insulation supplied and installed in accordance with this specification, accepted and measured by the Contract Administrator.
- (a) Excavation of the roadway subgrade in accordance with E28.6 will not be measured for payment and will be included in the payment for "Watermain and Water Service Insulation".

E29. PARTIAL SLAB PATCHES FOR LDS WORKS

- E29.1 "Partial Slab Patches" shall be constructed, measured and paid for as per CW 3230 except that no differentiation will be made for class of patch. Furthermore, no separate measurement or payment will be made for Drilled Dowels or Tie Bars, the cost for which shall be included in the unit price for "Partial Slab Patches".

E30. PRUNING OF EXISTING TREES AND SHRUBS

DESCRIPTION

- E30.1 Provide all labour, materials, methods, equipment and accessories for pruning of existing trees and shrubs within the limit of Work.

QUALITY ASSURANCE

- E30.2 Pruning of trees shall be provided by a person with a Manitoba Arborists Certificate with demonstrable experience sourcing and Work.
- E30.3 Contact the City of Winnipeg Forestry Branch at 204 986 2004 to arrange an on site meeting to review trees to be pruned. Meeting to include the Contract Administrator.

PRUNING METHODOLOGY

- E30.4 Prune horizontal and vertical within the limits of construction to ensure construction equipment can be operated without interfering with trees to remain.
- E30.5 Prune as required to remove dead, broken or damaged limbs.
- E30.6 Prune back to healthy growth while maintaining balanced crown shape.

- E30.7 Employ clean, sharp tools.
- E30.8 Make cuts smooth and flush with outer edge of branch collar near the main stem or branch.
- E30.9 Cuts must be smooth and sloping to prevent accumulation of water on cut.
- E30.10 Do not leave little stumps (“horns”) on trunks or main branches.
- E30.11 Prune according to accepted horticultural practices as outlined in “The Pruning Manual”, Publication No. 1505-1977 by Agriculture Canada.

MEASUREMENT AND PAYMENT

- E30.12 No payment shall be made for pruning of existing trees. Pruning of existing trees shall be considered incidental to the Work.

E31. TREE AND STUMP REMOVAL

DESCRIPTION

- E31.1 Further to CW 3010 and the City of Winnipeg “Tree Removal Guidelines”, this specification shall cover the removal of stumps as specified on the Drawings and as directed by the Contract Administrator.

CONSTRUCTION METHODS

- E31.2 Remove trees and stumps in accordance with CW 3010
- E31.3 Further to CW 3010, Stumps are to be ground to a depth of 300mm below final sidewalk or boulevard grade.

MEASUREMENT AND PAYMENT

- E31.4 Tree removal will be measured on a unit basis and will be paid for at the Contract Unit Price per unit for “Tree Removal” and “Stump Removal” which price shall be payment in full for performing all operations herein described and all other items incidental to the Work included in this Specification and accepted by the Contract Administrator.

E32. BLACK GRANITE STONE

DESCRIPTION

- E32.1 Provide all labour, materials, methods, equipment and accessories for the supply and installation of black granite stone.

MATERIAL

- (a) Granite Stone: granite stone, black in colour.
- (b) Contractor to provide a sample to the Contract Administrator prior to installation for approval.

MEASUREMENT AND PAYMENT

- E32.2 Black granite stone will be measured on an area basis and paid for at the Contract Unit Price per square metre for “Black Granite Stone”. The area to be paid shall be the total square metre area in accordance with this specification, accepted and measured by the Contract Administrator.

E33. TACHE AVENUE LDS INSTALLATION AND PAVEMENT RECONSTRUCTION

- E33.1 Tache Avenue LDS installation and pavement reconstruction is a federally funded project and must be completed in 2026.
- E33.2 Tache Avenue is part of the City of Winnipeg's Primary Line of Defence for flooding.
- E33.3 The Tache Avenue LDS and road design are only preliminary and is subject to change as information becomes available and approvals are received.
- E33.3.1 A geotechnical report will be completed in April and provided prior to construction.
- E33.3.2 The road cross section will be confirmed with the City's Research and Standards Engineer upon receipt of the geotechnical report.
- E33.3.3 A seepage analysis will to be completed prior to construction which may impact the proposed clay key detail.
- E33.3.4 A waterways permit application will be submitted as a portion of the project is within the limits requiring permit approval.
- (a) No work shall commence on site until the permit has been approved.

E34. PANET ROAD LDS INSTALLATION

- E34.1 The installation of LDS on Panet Road between Nairn Ave and the CN tracks to the south is in preparation for the reconstruction of the roadway in 2027.
- (a) The LDS installation on Panet Road must be completed in 2026.
- E34.2 The Panet Road LDS design is only preliminary and is subject to change as information becomes available and approvals are received.