



**THE CITY OF WINNIPEG**

# **BID OPPORTUNITY**

**BID OPPORTUNITY NO. 402-2018**

**SNOW CLEARING ON REGIONAL AND LOCAL STREETS WITHIN THE NORTH  
AREA (EAST)**

**Note to Bidders: Please be aware of revisions to B13.4**

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## **PART B - BIDDING PROCEDURES**

### **B1. CONTRACT TITLE**

B1.1 SNOW CLEARING ON REGIONAL AND LOCAL STREETS WITHIN THE NORTH AREA (EAST)

### **B2. SUBMISSION DEADLINE**

B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, July 12, 2018.

B2.2 Bids determined by the Manager of Materials to have been received later than the Submission Deadline will not be accepted and will be returned upon request.

B2.3 The Contract Administrator or the Manager of Materials may extend the Submission Deadline by issuing an addendum at any time prior to the time and date specified in B2.1.

### **B3. ENQUIRIES**

B3.1 All enquiries shall be directed to the Contract Administrator identified in D4.1.

B3.2 If the Bidder finds errors, discrepancies or omissions in the Bid Opportunity, or is unsure of the meaning or intent of any provision therein, the Bidder shall promptly notify the Contract Administrator of the error, discrepancy or omission at least five (5) Business Days prior to the Submission Deadline.

B3.3 If the Bidder is unsure of the meaning or intent of any provision therein, the Bidder should request clarification as to the meaning or intent prior to the Submission Deadline.

B3.4 Responses to enquiries which, in the sole judgment of the Contract Administrator, require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator to all Bidders by issuing an addendum.

B3.5 Responses to enquiries which, in the sole judgment of the Contract Administrator, do not require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator only to the Bidder who made the enquiry.

B3.6 The Bidder shall not be entitled to rely on any response or interpretation received pursuant to B3 unless that response or interpretation is provided by the Contract Administrator in writing.

### **B4. CONFIDENTIALITY**

B4.1 Information provided to a Bidder by the City or acquired by a Bidder by way of further enquiries or through investigation is confidential. Such information shall not be used or disclosed in any way without the prior written authorization of the Contract Administrator. The use and disclosure of the confidential information shall not apply to information which:

- (a) was known to the Bidder before receipt hereof; or
- (b) becomes publicly known other than through the Bidder; or
- (c) is disclosed pursuant to the requirements of a governmental authority or judicial order.

B4.2 The Bidder shall not make any statement of fact or opinion regarding any aspect of the Bid Opportunity to the media or any member of the public without the prior written authorization of the Contract Administrator.

## **B5. ADDENDA**

- B5.1 The Contract Administrator may, at any time prior to the Submission Deadline, issue addenda correcting errors, discrepancies or omissions in the Bid Opportunity, or clarifying the meaning or intent of any provision therein.
- B5.2 The Contract Administrator will issue each addendum at least two (2) Business Days prior to the Submission Deadline, or provide at least two (2) Business Days by extending the Submission Deadline.
- B5.2.1 Addenda will be available on the Bid Opportunities page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/bidopp.asp>
- B5.2.2 The Bidder is responsible for ensuring that he/she has received all addenda and is advised to check the Materials Management Division website for addenda regularly and shortly before the Submission Deadline, as may be amended by addendum.
- B5.3 The Bidder shall acknowledge receipt of each addendum in Paragraph 8 of Form A: Bid. Failure to acknowledge receipt of an addendum may render a Bid non-responsive.

## **B6. SUBSTITUTES**

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

- B6.6.1 The Contract Administrator will issue an Addendum, disclosing the approved materials, equipment, methods and products to all potential Bidders. The Bidder requesting and obtaining the approval of a substitute shall be responsible for disseminating information regarding the approval to any person or persons he/she wishes to inform.
- B6.7 If the Contract Administrator approves a substitute as an “approved equal”, any Bidder may use the approved equal in place of the specified item.
- B6.8 If the Contract Administrator approves a substitute as an “approved alternative”, any Bidder bidding that approved alternative may base his/her Total Bid Price upon the specified item but may also indicate an alternative price based upon the approved alternative. Such alternatives will be evaluated in accordance with B16.
- B6.9 No later claim by the Contractor for an addition to the 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.
- B6.10 Notwithstanding B6.2 to B6.9, and in accordance with B7.8, deviations inconsistent with the Bid Opportunity document shall be evaluated in accordance with B15.1(a).

## **B7. BID SUBMISSION**

- B7.1 The Bid shall consist of the following components:
- (a) Form A: Bid;
  - (b) Form B: Prices.
- B7.2 Further to B7.1, the Bidder should include the written correspondence from the Contract Administrator approving a substitute in accordance with B6.
- B7.3 All components of the Bid shall be fully completed or provided, and submitted by the Bidder no later than the Submission Deadline, with all required entries made clearly and completely.
- B7.4 The Bid may be submitted by mail, courier or personal delivery, or by facsimile transmission.
- B7.5 If the Bid is submitted by mail, courier or personal delivery, it shall be enclosed and sealed in an envelope clearly marked with the Bid Opportunity number and the Bidder's name and address, and shall be submitted to:
- The City of Winnipeg  
Corporate Finance Department  
Materials Management Division  
185 King Street, Main Floor  
Winnipeg MB R3B 1J1
- B7.5.1 Samples or other components of the Bid which cannot reasonably be enclosed in the envelope may be packaged separately, but shall be clearly marked with the Bid Opportunity number, the Bidder's name and address, and an indication that the contents are part of the Bidder's Bid Submission.
- B7.6 If the Bid is submitted by facsimile transmission, it shall be submitted to 204-949-1178.
- B7.6.1 The Bidder is advised that the City cannot take responsibility for the availability of the facsimile machine at any time.
- B7.7 Bidders are advised not to include any information/literature except as requested in accordance with B7.1.
- B7.8 Bidders are advised that inclusion of terms and conditions inconsistent with the Bid Opportunity document, including the General Conditions, will be evaluated in accordance with B16.1(a)
- B7.9 Bids submitted by internet electronic mail (e-mail) will not be accepted.

## **B8. BID**

- B8.1 The Bidder shall complete Form A: Bid, making all required entries.
- B8.2 Paragraph 2 of Form A: Bid shall be completed in accordance with the following requirements:
- (a) if the Bidder is a sole proprietor carrying on business in his/her own name, his/her name shall be inserted;
  - (b) if the Bidder is a partnership, the full name of the partnership shall be inserted;
  - (c) if the Bidder is a corporation, the full name of the corporation shall be inserted;
  - (d) if the Bidder is carrying on business under a name other than his/her own, the business name and the name of every partner or corporation who is the owner of such business name shall be inserted.
- B8.2.1 If a Bid is submitted jointly by two or more persons, each and all such persons shall identify themselves in accordance with B8.2.
- B8.3 In Paragraph 3 of Form A: Bid, the Bidder shall identify a contact person who is authorized to represent the Bidder for purposes of the Bid.
- B8.4 Paragraph 11 of Form A: Bid shall be signed in accordance with the following requirements:
- (a) if the Bidder is a sole proprietor carrying on business in his/her own name, it shall be signed by the Bidder;
  - (b) if the Bidder is a partnership, it shall be signed by the partner or partners who have authority to sign for the partnership;
  - (c) if the Bidder is a corporation, it shall be signed by its duly authorized officer or officers;
  - (d) if the Bidder is carrying on business under a name other than his/her own, it shall be signed by the registered owner of the business name, or by the registered owner's authorized officials if the owner is a partnership or a corporation.
- B8.4.1 The name and official capacity of all individuals signing Form A: Bid should be printed below such signatures.
- B8.4.2 All signatures shall be original.
- 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).

## **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 Bidders, by responding to this Bid Opportunity, declare that no Conflict of Interest currently exists, or is reasonably expected to exist in the future.

B11.2 Conflict of Interest means any situation or circumstance where a Bidder or employee of the Bidder proposed for the Work has:

- (a) other commitments;
- (b) relationships;
- (c) financial interests; or
- (d) involvement in ongoing litigation;

that could or would be seen to:

- (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 its participation in the Bid Opportunity process or the Work; or
- (f) has knowledge of confidential information (other than confidential information disclosed by the City in the normal course of the Bid Opportunity process) of strategic and/or material relevance to the Bid Opportunity process or to the Work that is not available to other bidders and that could or would be seen to give that Bidder an unfair competitive advantage.

B11.3 In connection with its Bid, each entity identified in B11.2 shall:

- (a) avoid any perceived, potential or actual Conflict of Interest in relation to the procurement process and the Work;
- (b) upon discovering any perceived, potential or actual Conflict of Interest at any time during the Bid Opportunity process, promptly disclose a detailed description of the Conflict of Interest to the City in a written statement to the Contract Administrator; and
- (c) provide the City with the proposed means to avoid or mitigate, to the greatest extent practicable, any perceived, potential or actual Conflict of Interest and shall submit any additional information to the City that the City considers necessary to properly assess the perceived, potential or actual Conflict of Interest.

B11.4 Without limiting B11.3, the City may, in its sole discretion, waive any and all perceived, potential or actual Conflicts of Interest. The City's waiver may be based upon such terms and conditions as the City, in its sole discretion, requires to satisfy itself that the Conflict of Interest has been appropriately avoided or mitigated, including requiring the Bidder to put into place such policies, procedures, measures and other safeguards as may be required by and be acceptable to the City, in its sole discretion, to avoid or mitigate the impact of such Conflict of Interest.

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

## **B12. QUALIFICATION**

- B12.1 The Bidder shall:
- (a) undertake to be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, or if the Bidder does not carry on business in Manitoba, in the jurisdiction where the Bidder does carry on business; and
  - (b) be financially capable of carrying out the terms of the Contract; and
  - (c) have all the necessary experience, capital, organization, and equipment to perform the Work in strict accordance with the terms and provisions of the Contract.
- B12.2 The Bidder and any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:
- (a) be responsible and not be suspended, debarred or in default of any obligations to the City. A list of suspended or debarred individuals and companies is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/debar.stm>
- B12.3 The Bidder and/or any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:
- (a) have successfully carried out work similar in nature, scope and value to the Work; and
  - (b) be fully capable of performing the Work required to be in strict accordance with the terms and provisions of the Contract;
  - (c) have a written workplace safety and health program, if required, pursuant to The Workplace Safety and Health Act (Manitoba);
  - (d) have performed snow clearing services under contract that utilize similar equipment complement as stated in E4.1.
- B12.4 Further to B12.3(c), the Bidder shall, within five (5) Business Days of a request by the Contract Administrator, provide proof satisfactory to the Contract Administrator that the Bidder/Subcontractor has a workplace safety and health program meeting the requirements of The Workplace Safety and Health Act (Manitoba), by providing:
- (a) Written confirmation of a safety and health certification meeting SAFE Work Manitoba's SAFE Work Certified Standard (e.g., COR™ and SECOR™) or

- (i) a copy of their valid Manitoba COR certificate and Letter of Good Standing (or Manitoba equivalency) as issued under the Certificate of Recognition (COR) Program administered by the Construction Safety Association of Manitoba or by the Manitoba Heavy Construction Association's WORKSAFELY™ COR™ Program; or
  - (ii) a copy of their valid Manitoba SECOR™ certificate and Letter of Good Standing (or Manitoba equivalency) as issued under the Small Employer Certificate of Recognition Program (SECOR™) administered by the Construction Safety Association of Manitoba or by the Manitoba Heavy Construction Association's WORKSAFELY™ COR™ Program or
- (b) a report or letter to that effect from an independent reviewer acceptable to the City. (A list of acceptable reviewers and the review template are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/>).

B12.5 The Bidder shall submit, within three (3) Business Days of a request by the Contract Administrator, proof satisfactory to the Contract Administrator of the qualifications of the Bidder and of any proposed Subcontractor.

B12.6 The Bidder shall provide, on the request of the Contract Administrator, full access to any of the Bidder's equipment and facilities to confirm, to the Contract Administrator's satisfaction, that the Bidder's equipment and facilities are adequate to perform the Work.

### **B13. OPENING OF BIDS AND RELEASE OF INFORMATION**

B13.1 Bid Submissions will not be opened publicly.

B13.2 Following the Submission Deadline, the names of the Bidders and their bid prices (unevaluated, and pending review and verification of conformance with requirements) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/>

B13.3 After award of Contract, the name(s) of the successful Bidder(s), their address(es) and the Contract amount(s) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/>

B13.4 The Bidder is advised that any information contained in any Bid may be released if required by The Freedom of Information and Protection of Privacy Act (Manitoba), by other authorities having jurisdiction, or by law or by City policy or procedures (which may include access by members of City Council).

B13.4.1 To the extent permitted, the City shall treat as confidential information, those aspects of a Bid Submission identified by the Bidder as such in accordance with and by reference to Part 2, Section 17 or Section 18 or Section 26 of The Freedom of Information and Protection of Privacy Act (Manitoba), as amended.

### **B14. IRREVOCABLE BID**

B14.1 The Bid(s) submitted by the Bidder shall be irrevocable for the time period specified in Paragraph 9 of Form A: Bid.

B14.2 The acceptance by the City of any Bid shall not release the Bids of the next two lowest evaluated responsive Bidders and these Bidders shall be bound by their Bids on such Work for the time period specified in Paragraph 9 of Form A: Bid.

## **B15. WITHDRAWAL OF BIDS**

- B15.1 A Bidder may withdraw his/her Bid without penalty by giving written notice to the Manager of Materials at any time prior to the Submission Deadline.
- B15.1.1 Notwithstanding C22.5, the time and date of receipt of any notice withdrawing a Bid shall be the time and date of receipt as determined by the Manager of Materials.
- B15.1.2 The City will assume that any one of the contact persons named in Paragraph 3 of Form A: Bid or the Bidder's authorized representatives named in Paragraph 11 of Form A: Bid, and only such person, has authority to give notice of withdrawal.
- B15.1.3 If a Bidder gives notice of withdrawal prior to the Submission Deadline, the Manager of Materials will:
- (a) retain the Bid until after the Submission Deadline has elapsed;
  - (b) open the Bid to identify the contact person named in Paragraph 3 of Form A: Bid and the Bidder's authorized representatives named in Paragraph 11 of Form A: Bid; and
  - (c) if the notice has been given by any one of the persons specified in B15.1.3(b), declare the Bid withdrawn.
- B15.2 A Bidder who withdraws his/her Bid after the Submission Deadline but before his/her Bid has been released or has lapsed as provided for in B14.2 shall be liable for such damages as are imposed upon the Bidder by law and subject to such sanctions as the Chief Administrative Officer considers appropriate in the circumstances. The City, in such event, shall be entitled to all rights and remedies available to it at law.

## **B16. EVALUATION OF BIDS**

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

## **B17. AWARD OF CONTRACT**

- B17.1 The City will give notice of the award of the Contract or will give notice that no award will be made.

- B17.2 The City will have no obligation to award a Contract to a Bidder, even though one or all of the Bidders are determined to be responsible and qualified, and the Bids are determined to be responsive.
- B17.2.1 Without limiting the generality of B17.2, the City will have no obligation to award a Contract where:
- (a) the prices exceed the available City funds for the Work;
  - (b) the prices are materially in excess of the prices received for similar work in the past;
  - (c) the prices are materially in excess of the City's cost to perform the Work, or a significant portion thereof, with its own forces;
  - (d) only one Bid is received; or
  - (e) in the judgment of the Award Authority, the interests of the City would best be served by not awarding a Contract.
- B17.3 Where an award of Contract is made by the City, the award shall be made to the responsible and qualified Bidder submitting the lowest evaluated responsive Bid in accordance with B16 .
- B17.3.1 Following the award of contract, a Bidder will be provided with information related to the evaluation of his/her Bid upon written request to the Contract Administrator.
- B17.4 Notwithstanding C4.1, the City may issue a Purchase Order to the successful Bidder in lieu of the execution of a Contract.
- B17.5 The Contract Documents, as defined in C1.1(n)(ii), in their entirety shall be deemed to be incorporated in and to form a part of the Purchase Order notwithstanding that they are not necessarily attached to or accompany said Purchase Order.

## PART C - GENERAL CONDITIONS

### C0. GENERAL CONDITIONS

- C0.1 The *General Conditions for Supply of Services* (Revision 2007 04 12) are applicable to the Work of the Contract.
- C0.1.1 The *General Conditions for Supply of Services* are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at [http://www.winnipeg.ca/matmgt/gen\\_cond.stm](http://www.winnipeg.ca/matmgt/gen_cond.stm)
- C0.2 A reference in the Bid Opportunity to a section, clause or subclause with the prefix “**C**” designates a section, clause or subclause in the *General Conditions for Supply of Services*.

## PART D - SUPPLEMENTAL CONDITIONS

### GENERAL

#### D1. GENERAL CONDITIONS

D1.1 In addition to the *General Conditions for Supply of Services*, 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 snow clearing supplemental to the City of Winnipeg's snow clearing operations for the period of October 15, 2018 to April 15, 2022, with a one (1) year extension at the option of the City, under mutually agreeable terms.

D2.1.1 Snow clearing shall be performed on those regional streets, bus route and collector streets, and residential streets listed in Appendix A, Appendix B, Appendix C, and shown on Drawing 1, where full width snow clearing is required on all or a major portion of the above streets.

D2.2 The Contractor shall perform the Work of this Contract on an "as-required" basis for four (4) winter seasons from October 15, 2018 to April 15, 2022 except as hereinafter specified:

- (a) the Contractor may be required to remove snow which has fallen prior to October 15th and is on the streets as of that date;
- (b) the Contractor shall continue and complete all authorized Work for a snowfall that begins on or before April 15th, notwithstanding that the Work occurs after April 15th; and,
- (c) the Contractor shall remedy all damage and deficiencies such as curb damage by June 30th following the Contract year;
- (d) the above requirements will apply also to any extension mutually agreed upon.

D2.3 The major components of the Work are as follows:

- (a) full width snow clearing and hauling on the Priority I (Regional) Streets System identified in Appendix A and Drawing 1;
- (b) full width snow clearing on the Priority II (Bus Routes and Collectors) Streets System identified in Appendix B and Drawing 1;
- (c) full width snow clearing on the Priority III (Residential) Street System identified in Appendix C and Drawing 1;
- (d) opening and keeping streets and lanes open during a major snowfall and/or snow blizzard;
- (e) snow clearing using truck plows on the Priority I, Priority II and Priority III streets noted in Appendices A, B and C and identified on Drawing 1;
- (f) other winter maintenance activities as required between major snowfalls.

D2.4 The Contract Administrator reserves the right to perform routine winter maintenance on the streets listed in Appendices A, B and C, shown on Drawing 1 using City forces. Routine winter maintenance includes:

- (a) curb lane spot plowing of street sections;
- (b) full width spot plowing of street sections;
- (c) curb lane truck plowing;
- (d) full width truck plowing;
- (e) widening for snow storage;
- (f) snow hauling;
- (g) clearing of drainage inlets in spring.

### D3. DEFINITIONS

#### D3.1 When used in this Bid Opportunity:

- (a) **"User"** means a person, department or other administrative unit of the City authorized by the Contract Administrator to order Work under this Contract.
- (b) **"Highway"** means any place or way, including any structure forming part thereof, which or any part of which the public is ordinarily entitled or permitted to use for the passage of vehicles or pedestrians, with or without fee or charge therefore, and includes all the space between the boundary lines thereof, whether or not used for vehicular or pedestrian traffic; and, without restricting the generality of the foregoing, includes roads, road allowances, streets, lanes, thoroughfares and other means of communication dedicated to the public use as highways as so defined, and also includes all bridges, subways, underpasses, grade separations, piers, wharves, ferries, and squares, and the road improvements thereon, dedicated to the public use.
- (c) **"Roadway"** means the paved portion of the street that is used exclusively for the passage of motorized vehicles.
- (d) **"Street"** means a highway over which the City of Winnipeg has jurisdiction.
- (e) **"Sidewalk"** means the paved portion of the street that is used exclusively for a passage of pedestrians.
- (f) **"Back lane"** means a highway situated wholly within the limits of any city, town or village or restricted speed area or reduced restricted speed area which has been designated, constructed and intended to provide access to and service at the rear of places of residence or business and includes alleys having a right-of-way width of not more than 9 metres.
- (g) **"Boulevard"** means the area between the street line and the nearest edge of a roadway and/or the area separating the roadways or a divided highway.
- (h) **"Street Right-of-Way"** means the limit of the publicly-owned land acquired for and devoted to streets, boulevards, appurtenances, as well as underground facilities.
- (i) **"Private approach"** and **"Approach"** means a roadway, culvert crossing or other structure theretofore and hereafter, erected, installed or maintained in a street between the property of an owner and the nearest curb or edge of a roadway in the said street, for the use or benefit of the owner or occupant of the property adjoining or connected therewith, but does not include a roadway or other structure constructed for such purpose within an alley.
- (j) **"Traffic lane"** means a 3.6 metre or greater width of pavement.
- (k) **"Pavement"** or the adjective "Paved" when used to describe a street, road, alley or other area, means an area which has a surface constructed of Portland Cement concrete, asphaltic concrete, brick, tile or similar material.
- (l) **"Bare pavement"** means that the Contractor shall endeavour to completely clear the full pavement width of snow.
- (m) **"Face to face"** of curb on Priority I and II streets means the periodic exposure of the barrier curb vertical face with a maximum horizontal deviation of 150 mm (6 inches). This will enable the full width of the curb lane to be available for vehicular traffic.
- (n) **"Face to face"** of curb on Priority III streets means the periodic exposure of the top of the roll curb with a maximum horizontal deviation of 300 mm (12 inches) from the top of the curb into the traffic lane. Where barrier curb exists on Priority III streets, "face to face" curb means the periodic exposure of the barrier curb vertical face with a maximum horizontal deviation of 150 mm (6 inches).
- (o) **"Hauling"** means the relocation of cleared snow volumes by equipment normally employed for the snow clearing activity, but does not include the use of trucks.
- (p) **"Hauling away"** means the relocation of cleared snow volumes by use of trucks for purposes of transporting to a distant storage location.

- (q) "**Snow**" means all forms of frozen precipitation including ice associated with such snow.
- (r) "**Wing Back**" means the Contractor shall push back the windrow to create storage space for snow in future plowing operations.
- (s) "**Cross walk**" means any sidewalk at street intersections or at signed corridors.
- (t) "**Compacted snow surface**" of back lanes means a level, dense compacted layer of snow that will only allow minimal rutting from vehicular traffic and has a maximum thickness of 200mm from the compacted snow surface to underlying pavement.
- (u) "**Clearing Operation**" In this Contract, means each such direction by the Contract Administrator for clearing and hauling services for snow removal and the performance thereof by the Contractor.

#### **D4. CONTRACT ADMINISTRATOR**

D4.1 The Contract Administrator is:

Jean-Luc Lambert, P.Eng.  
Support Services Engineer

Telephone No. 204- 986-7087

Email Address: jeanlambert@winnipeg.ca

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

#### **D5. CONTRACTOR'S SUPERVISOR**

D5.1 Further to C6.19, the Contractor shall employ and keep on the Work, at all times during the performance of the Work, a competent supervisor and assistants, if necessary, acceptable to the Contract Administrator. The supervisor shall represent the Contractor on the Site. The supervisor shall not be replaced without the prior consent of the Contract Administrator unless the supervisor proves to be unsatisfactory to the Contractor and ceases to be in his/her employ.

D5.2 Before commencement of Work, the Contractor shall identify his/her designated supervisor and any additional personnel representing the Contractor and their respective roles and responsibilities for the Work.

D5.2.1 Further to C5.5 Contract Administrator may give instructions or orders to the Contractor's supervisor and such instructions or orders shall be deemed to have been given to the Contractor.

#### **D6. OWNERSHIP OF INFORMATION, CONFIDENTIALITY AND NON DISCLOSURE**

D6.1 The Contract, all deliverables produced or developed, and information provided to or acquired by the Contractor are the property of the City and shall not be appropriated for the Contractors own use, or for the use of any third party.

D6.2 The Contractor shall not make any public announcements or press releases regarding the Contract, without the prior written authorization of the Contract Administrator.

D6.3 The following shall be confidential and shall not be disclosed by the Contractor to the media or any member of the public without the prior written authorization of the Contract Administrator;

- (a) information provided to the Contractor by the City or acquired by the Contractor during the course of the Work;
- (b) the Contract, all deliverables produced or developed; and
- (c) any statement of fact or opinion regarding any aspect of the Contract.

D6.4 A Contractor who violates any provision of D6 may be determined to be in breach of Contract.

## **D7. OPERATOR'S COMPETENCE AND PERFORMANCE**

- D7.1 The Contractor's operator shall maintain all equipment/trucks in good working order and shall perform all obligations expressed and implied in this Bid Opportunity in a good, safe and workmanlike manner. Where, in the opinion of the City Inspector, an operator fails to meet the obligations expressed or implied in this Bid Opportunity, and without limited the generality of the foregoing, the operator is:
- (a) unqualified, or
  - (b) operating in an unsafe manner, or
  - (c) not performing a satisfactory amount of Work, or
  - (d) engaged in activity outside the City's interests.
- D7.2 The equipment/truck and operator may be dismissed immediately and shall not be re-engaged until such time as the inadequacies that resulted in the dismissal have been remedied to the sole satisfaction of the Contract Administrator.

## **D8. NOTICES**

- D8.1 Notwithstanding C22.3, all notices of appeal to the Chief Administrative Officer shall be sent to the attention of the Chief Financial Officer.

## **SUBMISSIONS**

### **D9. AUTHORITY TO CARRY ON BUSINESS**

- D9.1 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.

### **D10. INSURANCE**

- D10.1 The Contractor shall provide and maintain the following insurance coverage:
- (a) commercial general liability insurance, in the amount of at least two million dollars (\$2,000,000.00) inclusive, with The City of Winnipeg added as an additional insured; such liability policy to also contain a cross-liability clause, contractual liability, unlicensed equipment liability (Contractor's equipment) non-owned automobile liability and products and completed operations cover, to remain in place at all times during the performance of the Work;
  - (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 Service. 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;
- D10.2 Deductibles for commercial general liability must be expressly stated on the certificate of insurance and must not exceed \$5,000.00.
- D10.3 Deductibles shall be borne by the Contractor.
- D10.4 The certificate must clearly state: "Operations include snow removal on City right-of-way's during winter months" (i.e. insurance to cover snow removal and ice control of streets, roadways, back lanes/alleys, sidewalks, etc.). And confirmation that the operations include loading, unloading, hauling and dumping.

- D10.5 The Contractor shall provide the Contract Administrator with a certificate(s) of insurance, in a form satisfactory to the City Solicitor, at least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.
- D10.6 The Contractor shall not cancel, materially alter, or cause the policy to lapse without providing at least thirty (30) Calendar Days prior written notice to the Contract Administrator.

## **SCHEDULE OF WORK**

### **D11. COMMENCEMENT**

- D11.1 The Contractor shall not commence any Work until he/she is in receipt of a notice of award from the City authorizing the commencement of the Work.
- D11.2 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 D9;
    - (ii) evidence of the workers compensation coverage specified in C6.14; and
    - (iii) evidence of the insurance specified in D10.
  - (b) the Contractor has attended a meeting with the Contract Administrator, or the Contract Administrator has waived the requirement for a meeting.

### **D12. TOTAL PERFORMANCE**

- D12.1 The Contractor shall achieve Total Performance by June 30, 2022, for work specified in D2.
- D12.2 When the Contractor or the Contract Administrator considers the Work to be totally performed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Contract Administrator for purposes of verifying Total Performance. Any defects or deficiencies in the Work noted during that inspection shall be remedied by the Contractor at the earliest possible instance and the Contract Administrator notified so that the Work can be reinspected.
- D12.3 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.

## **CONTROL OF WORK**

### **D13. PRIME CONTRACTOR – THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA)**

- D13.1 Further to C6.23, 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).

### **D14. THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA) – QUALIFICATIONS**

- D14.1 Further to B12.4, the Contractor/Subcontractor must, throughout the term of the Contract, have a Workplace Safety and Health Program meeting the requirements of The Workplace Safety and Health Act (Manitoba). At any time during the term of the Contract, the City may, at its sole discretion and acting reasonably, require updated proof of compliance, as set out in B12.4.

### **D15. SAFETY**

- D15.1 The Contractor shall be solely responsible for safety at the Site and for compliance with all laws, rules, regulations and practices required by the applicable safety legislation.

- D15.2 The Contractor shall be solely responsible for securing the Site, and any existing facility thereon, and for the proper care and protection of the Work already performed.
- D15.3 The Contractor shall do whatever is necessary to ensure that:
- (a) no person, property, right, easement or privilege is injured, damaged or infringed by reason of the Contractor's activities in performing the Work;
  - (b) the health and safety of all persons employed in the performance of the Work or otherwise is not endangered by the method or means of its performance;
  - (c) adequate medical services are available to all persons employed on the Work and at all times during the performance of the Work;
  - (d) adequate sanitation measures are taken with respect to the Work; and
  - (e) pedestrian and other traffic on any public or private road is not unduly endangered by the performance of the Work.

## **MEASUREMENT AND PAYMENT**

### **D16. PAYMENT**

- D16.1 Further to C11, the City may at its option pay the Contractor by direct deposit to the Contractor's banking institution.

## PART E - SPECIFICATIONS

### GENERAL

#### E1. APPLICABLE SPECIFICATIONS AND DRAWINGS

E1.1 These Specifications shall apply to the Work.

E1.2 The following are applicable to the Work:

<u>Drawing No.</u>	<u>Drawing Name/Title</u>
1	North Area (East) Snow Clearing Priority Streets

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.

#### E2. SNOW CLEARING REQUIREMENTS

E2.1 General Work

E2.1.1 The entire shoulder width of highway type pavement shall be cleared of snow during the snow clearing operation.

E2.1.2 The entire length of the curb along the centre median shall be cleared to the face of the curb.

E2.1.3 Snow shall be cleared from centre median crosswalks and shall be stored on the side boulevards.

E2.1.4 Snow from centre median openings and traffic storage lanes shall be removed and stored in the side boulevards.

E2.1.5 Windrows at all intersections, cross walks, corridors, railway crossing and private approaches shall be removed in the initial clearing operations. The windrows shall be pushed downstream of traffic or into available storage area on the street right-of-way in order to eliminate blind spots for motorists. Snow shall not be placed on boulevards at or near corners so as to block visibility of vehicles moving through the intersection.

E2.1.6 Windrows at pedestrian corridors shall be cleared for a distance of fifteen (15) metres approaching the corridor and five (5) metres leaving the corridor on undivided roadways and for a distance of fifteen (15) metres approaching the corridor on divided roadways.

E2.1.7 Windrows at bus stops shall be removed to a distance specified in E2.1.7(i) or E2.1.7(ii) from the bus stop sign. The bus stop platform and walk area connecting to the adjacent sidewalk shall be level to provide a safe footing for pedestrians.

(i) At bus stops that accommodates a non-articulated bus the windrow shall be removed to a distance of twelve (12) meters upstream of the bus stop sign;

(ii) At bus stops that accommodates an articulated bus the windrow shall be removed to a distance of eighteen (18) meters upstream of the bus stop sign;

E2.1.8 Snow windrows at hydrants shall be removed one (1) loader bucket width.

E2.1.9 Snow windrows shall be removed a loader bucket width and a path cleared by back blading to a hard surface from the curb to the sidewalk at a limited number of locations designated as handicapped access. Actual addresses will be supplied to the Contractor after Contract award.

- E2.1.10 Snow shall be removed around all G.R.E.A.T. (Guard Rail Energy Absorbing Terminal), Energite Barrel installations and between the curb and any adjacent guard rail that is within 3m of the curb and in the right-of-way. The G.R.E.A.T. units are used as crash cushions on the ends of guard rails to avoid abrupt stoppage of a vehicle. The Energite Barrel installations are used as crash cushions near overhead signs or any posts which do not have breakaway bases. This Work must be done carefully (by hand where necessary) such that the installations are not hit by snow clearing equipment or left covered in snow. The location of a limited number of installations will be supplied to the Contractor after the award.
- E2.1.11 Where adequate storage exists adjacent to the street, snow spillage onto the street as a result of the snow clearing operation shall be removed immediately by the Contractor. Any snow not removed may be removed by the City and the cost of the Work charged to the Contractor.
- E2.1.12 The City reserves the right, at its sole discretion, to allow windrow snow storage on the curb lane where no storage exists, provided that a reasonable attempt, satisfactory to the Contract Administrator or his designate, is made to minimize the extent of the encroachment during the Contractor's snow clearing operation. This storage shall only be utilized when specifically directed to do so by the Contract Administrator or his designate and only during unusual snow and blizzard conditions.
- E2.1.13 Snow shall not be deposited on islands between a yield or turnoff and the main roadway.
- E2.1.14 Snow shall not be stored or deposited on private property.
- E2.1.15 Snow from snow clearing operations shall not be deposited in sidewalk areas. All blocked sidewalk ends at intersections must be immediately cleared of snow in order to provide access for pedestrians and sidewalk plows. Any snow not immediately removed may be removed by the City and the resulting cost of the Work charged against the Contractor.
- E2.1.16 Snow from intersection windrows shall not be placed in bus stop areas.
- E2.1.17 The Contractor shall remove snow from the centre median (median cut) for snow storage and snow thaw purposes as directed by the Contract Administrator. The median cut shall be to a width of 0.6 m from the curb face and shall not expose, but be within 100 mm of the median surface. The median cut shall be carried out in conjunction with the adjacent grader plow operations, and shall be included in the lane km price.
- E2.1.18 Snow removal at traffic circles shall include the removal of snow from the inner shoulder area, which shall be considered incidental to the full width snow clearing operation.
- E2.1.19 Work for each snow clearing operation shall commence only upon the instructions of the Contract Administrator.
- E2.1.20 Normally, Priority I (Regional) Streets shall receive the highest priority for snow clearing followed by Priority II (Bus Routes and Collectors) Streets and then Priority III (Residential) Streets. However, the Contact Administrator may direct otherwise and the Contractor shall conform to all such directives, either oral or written.
- E2.1.21 The Contractor shall respond immediately to rectify snow clearing deficiencies which generate citizens' complaints. If in the opinion of the Contract Administrator, the response is inadequate, then the City shall have the option of performing the necessary Work and the costs of such Work shall be borne by the Contractor.
- E2.1.22 The Contractor shall coordinate residential plowing location to minimize conflicts with the Waste/Recycling collection. Where conflicts are unavoidable the Contract Administrator will give instructions to the Contractor to relocate Waste/Recycling containers during the plowing operations. The relocation work shall consist of moving the container behind area affected by snow clearing and then placing back to original position.

## E2.2 PRIORITY I (REGIONAL) STREETS (See Appendix A)

### E2.2.1 Snow clearing activities on Priority I streets includes:

- (a) full width snow clearing and hauling;
- (b) curb lane snow clearing;
- (c) truck plow snow clearing;
- (d) interim plowing during major snowfalls; and
- (e) other winter maintenance Work.

### E2.2.2 Snow clearing on Priority I streets may be required after:

- (a) a recent accumulation of 3 cm or more of snowfall;
- (b) poor street conditions caused by less than 3 cm of recent snow accumulation accompanied by snow drifting; and
- (c) a gradual accumulation of snowfall that results in poor street conditions.

### E2.2.3 Priority I streets, shall be completed within a twenty-four (24) hour period for a clearing operation following the time of commencement designated by the Contract Administrator.

### E2.2.4 Snow clearing on the Priority I street system shall normally be undertaken during the night shift (1900 hours to 0700 hours) unless otherwise directed.

### E2.2.5 Priority I streets shall be cleared to bare pavement over the full pavement width and plowed to the sides as shown in Appendix A. The Contractor shall wing back snow windrows in order to create the required storage as directed by the Contract Administrator.

### E2.2.6 The Contractor shall clear and haul away snow from the street and lane intersections, crosswalks, corridors, railroad crossings, private approaches and bus stops on those Priority I streets noted in Appendix A during the initial clearing operation. The snow must be hauled away immediately where there is insufficient site storage. The snow shall be removed to within 300 mm of the existing ground elevation. Where there is on-site storage within the street right-of-way, and the on-site storage will not cause interruptions to either vehicular or pedestrian traffic or create a safety hazard, the snow may be stored for up to seventy-two (72) hours from the time commencement designated by the Contract Administrator for a snow clearing operation on Priority I, II and III streets and up to thirty-six (36) hours for a snow clearing operation on Priority I and II streets and bus loops. Snow from bus stops on those Priority I streets listed for hauling away in Appendix A shall be hauled away immediately and hauling completed by 0700 hours on the day following the commencement.

### E2.2.7 Payment for the full width snow clearing and hauling away of snow on Priority I streets will be made at the unit price per lane kilometre and all the Work herein described shall be considered as incidental to the Contract and no further compensation will be considered.

## E2.3 PRIORITY II (BUS ROUTES/COLLECTORS) STREETS (See Appendix B)

### E2.3.1 Snow clearing activities on Priority II streets includes:

- (a) full width snow clearing and hauling;
- (b) curb lane snow clearing;
- (c) truck plow snow clearing;
- (d) interim plowing during major snowfalls; and
- (e) other winter maintenance Work.

### E2.3.2 Snow clearing on Priority II streets may be required after:

- (a) a recent accumulation of 5 cm or more of snowfall;
- (b) poor street conditions caused by less than 5 cm of recent snow accumulation accompanied by snow drifting; and
- (c) gradual accumulation of snowfall that results in poor street conditions.

- E2.3.3 Priority II streets shall be completed within a twenty-four (24) hour period for a clearing operation of a recent accumulation following the time of commencement designated by the Contract Administrator.
- E2.3.4 When Priority II streets are plowed within the same snow clearing operation as Priority I streets, the Priority II streets shall be completed within thirty-six (36) hours following the commencement time for the snow clearing operation.
- E2.3.5 Priority II streets shall be cleared to bare pavement over the full pavement width. The Contractor shall wing back snow windrows in order to create the required storage and perform the 0.6 m median cut as directed by the Contract Administrator. Where the Contractor is unable to meet the requirements of this specification due to parked vehicles, he shall arrange for a sign and tow operation with City forces to facilitate completion in these areas.
- E2.3.6 Payment for the full width snow clearing of Priority II streets will be made at the unit price per lane kilometre and all the Work herein described shall be considered as incidental to the Contract and no further compensation will be considered.
- E2.4 PRIORITY III (RESIDENTIAL) STREETS (See Appendix C)
- E2.4.1 Residential streets shall normally be cleared after:
- (a) a recent snow accumulation of 10 cm or more;
  - (b) poor street conditions caused by less than 10 cm of recent snow accumulation accompanied by snow drifting; and
  - (c) gradual accumulation of snowfall that results in poor street conditions.
- E2.4.2 Residential streets shall normally be cleared after Priority I and II streets.
- E2.4.3 Priority III streets shall be completed within a thirty-six (36) hour period following the commencement time designated by the Contract Administrator.
- E2.4.4 When Priority III streets are plowed within the same clearing operation as Priority II streets, the Priority III streets shall be completed within sixty (60) hours following the commencement time for the clearing of the Priority II streets.
- E2.4.5 When Priority III streets are plowed within the same snow clearing operation as Priority I and Priority II streets, the Priority III streets shall be completed within seventy-two (72) hours following the commencement time for the snow clearing of the Priority I and II streets.
- E2.4.6 Priority III streets shall be cleared to bare pavement over the full pavement width. The Contractor shall wing back snow windrows in order to create the required storage as directed by the Contract Administrator. Where the Contractor is unable to meet the requirements of this specification due to parked vehicles, he shall arrange for a sign and tow operation with City forces to facilitate completion in these areas.
- E2.4.7 Notwithstanding the requirements of this specification, abnormal snow and ice conditions may make it impossible to adequately clear the Priority III streets to bare pavement. On those occasions, the Contract Administrator shall determine the level of snow clearing required and the time required to complete the operation.
- E2.4.8 Payment for the full width snow clearing of Priority III streets will be made at the unit price per lane kilometre and all the Work herein described shall be considered as incidental to the Contract and no further compensation will be considered.
- E2.4.9 Prior to October 15<sup>th</sup> of the Contract year:
- (a) the Contract Administrator shall provide to the Contractor a grouping of streets to be completed in each twelve (12) hour shift. Each twelve (12) hour shift will be recognized as a Designated Snow Clearing Zone;

- (b) the Contract Administrator shall assign a letter to each Designated Snow Clearing Zone based upon the Residential Parking Ban. Commencement date and time will determine whether the Designated Snow Clearing Zone is cleared between 0700 to 1900 hours or 1900 to 0700 hours; and
- (c) the Contractor shall provide a start point and equipment deployment schedule for each Designated Snow Clearing Zones.

E2.4.10 The Contractor is responsible to ensure timeframes are adhered to when clearing operations have commenced as per the Residential Parking Ban.

### E3. HOURLY EQUIPMENT SERVICES

#### E3.1 General

- E3.1.1 Snow clearing equipment shall be supplied on an hourly basis when requested by the Contract Administrator for winter maintenance activities between storms and opening up streets, back lanes and sidewalks and keeping them open during major snow storms and blizzards.
- E3.1.2 Snow hauling equipment shall be supplied on an hourly basis when requested by the Contract Administrator for the loading and hauling away of snow between major snowfalls.
- E3.1.3 Any equipment supplied by the Contractor on an hourly basis shall meet the following specifications:
  - (a) **Semi-Trailer Dump Trucks:** Category 3 GVW 36,500 kg;
  - (b) **J2 Class Loaders:** Rubber Tired - 4 Wheel Drive Loader;
    - (i) SAE Net Horsepower Minimum 75 H.P.;
    - (ii) Operating Weight 15,000 - 21,000 lbs. (6803.9 kg – 9525.4 kg); and
    - (iii) Bucket Size 1.5 – 2.25 cu. yd.
  - (c) **J3 Class Loaders:** Rubber Tired - 4 Wheel Drive Loader;
    - (i) SAE Net Horsepower Minimum 100 H.P.;
    - (ii) Operating Weight 21,000 - 30,500 lbs. (9,525.4 kg – 13,834.6 kg); and
    - (iii) Bucket Size 2.25 – 3.0 cu. yd.
  - (d) **J5 Class Loaders:** Rubber Tired - 4 Wheel Drive Loader;
    - (i) SAE Net Horsepower Minimum 150 H.P.;
    - (ii) Operating Weight 30,500 – 42,500 lbs. (13,834.6 kg – 19,277.7 kg); and
    - (iii) Bucket Size 2.7m (8'9") width.
  - (e) **K4 Class Motor Graders:** Minimum 140 - 159 Flywheel Horsepower;
  - (f) **K5 Class Motor Graders:** Minimum 160 – 179 Flywheel Horsepower;
  - (g) **K6 Class Motor Graders:** Minimum 180 and over Flywheel Horsepower;
  - (h) **Truck Plows:** As specified in E3.2 and E4.7 of the Specifications.
- E3.1.4 Contract supervision shall be as specified in E6.
- E3.1.5 The Contract Administrator may request snow clearing equipment on an hourly basis up to the number and type of pieces of equipment specified in E4.
- E3.1.6 The Contractor shall respond to the assigned location within two (2) hours of official notice from the Contract Administrator or be subject to penalties as outlined in E14.
- E3.1.7 Contractors will be required to fill out approved Work tickets showing hours of Work, type of equipment, equipment model and serial number. All Work tickets must be signed by the City inspector and a representative of the Contractor to be valid.
- E3.1.8 Payment for hourly equipment will be made based on the hours actually worked and the unit price per hour shown in Form B: Prices. There will be no overtime premium for Work under this Contract.

## E3.2 TRUCK PLOW CLEARING OPERATIONS

- E3.2.1 Notwithstanding the requirements of E2 of the Specifications, the clearing of snow using truck plows shall be in accordance with the following:
- (a) Truck plowing on Priority I, Priority II and Priority III streets may be required during and after any measurable snowfall. The decision to perform a snow clearing operation will be made by the Contract Administrator or his designate;
  - (b) Priority I (Regional) streets shall normally receive the highest priority for snow clearing followed by Priority II (Bus Routes and Collectors) streets and then Priority III (Residential) streets. However, there may be circumstances when Collectors and Bus Routes would be cleared before Regional streets. This shall only be done when so directed by the Contract Administrator;
  - (c) Priority I, Priority II and Priority III streets shall be cleared to bare pavement over the full width, except at isolated locations where parked cars make the plowing of the curb lane(s) impossible;
  - (d) Notwithstanding E7 the Contractor may be directed to clear only the travel lanes;
  - (e) Windrows at all intersections, crosswalks, corridors, railway crossings and private approaches shall be removed if the Contract Administrator or his designate deem that they present a hazard to traffic;
  - (f) Reasonable care shall be taken so that snow from the truck plow clearing operations shall not be deposited in sidewalk areas. Snow deposited on the sidewalk areas unnecessarily shall be removed by the Contractor at his expense; and
  - (g) Snow may be deposited on centre medians when allowed by the Contract Administrator.

## E4. EQUIPMENT

- E4.1 The Contractor shall provide the following minimum quantity and type of equipment in first class working condition:
- (a) 11 motor graders;
  - (b) 14 loaders; and
  - (c) 8 truck plows.
- E4.2 All equipment shall be made available for inspection by the Contract Administrator or his designate prior to the award of Contract.
- E4.3 The Bidder is not required to own the equipment at the time of the Submission Deadline. The Bidder shall, however, provide the Contract Administrator, within seventy-two (72) hours of being requested, the name of the registered owner of each proposed piece of equipment and a copy of a binding contract, or option to purchase or to contract, for the use of the equipment for the duration of the Contract.

## E4.4 LIGHTING

- E4.4.1 Each vehicle and each piece of equipment shall be provided with all of the necessary lighting prescribed by the motor vehicle laws of the Province of Manitoba.
- E4.4.2 Notwithstanding the generality of the foregoing, the Contractor shall ensure that all equipment is equipped with working lighting systems sufficient to facilitate the Work. At a minimum, all equipment must be equipped with the following lighting:
- (a) at least two headlights;
  - (b) at least two rear running lights;
  - (c) turning signals front and rear;
  - (d) stop light at rear;

- (e) at least one flashing or oscillating blue or amber light, clearly visible in all directions (360 degrees);
- (f) if the machine is in excess of two (2) metres wide, at least four clearance lights (one blue or amber light on each side at the front, facing the front, and one red light on each side at the rear facing rear-ward).
- (g) All equipment must maintain proper lighting though out the entire shift or be removed from hired and contract work.

#### E4.5 IDENTIFICATION

- E4.5.1 All equipment shall be clearly labelled, indicating the Contractor's name and unit number. Letters and numbers used for identification purposes must be a minimum of 100 mm in height and positioned in such a manner as to be clearly visible when standing at either side of the machine.

#### E4.6 COMMUNICATION

- E4.6.1 At least one piece of equipment in a crew working in a specific area must have a means of two-way communications with the Contractor's Supervisor and office.

#### E4.7 TRUCK PLOWS

- E4.7.1 Each truck plow shall conform to the following:
  - (a) be capable of providing a level of performance consistent with the front-mounted truck plows currently in use by the City;
  - (b) be equipped with a hydraulically reversible straight blade that will ride on the pavement surface;
  - (c) the plow blade shall be suitable for clearing a minimum 2.4 m wide path when fully angled (approximately 40°); and
  - (d) the plow blade and/or cutting edges shall be spring loaded or flexible to allow deflection when an obstacle is encountered. This deflection shall cause the blade to raise to clear manholes, catch basins, curbs and other obstructions protruding above pavement, without damage.

### E5. DRIVERS LICENSE FOR ALL HIRED HOURLY EQUIPMENT

- E5.1 The City requires that the Contractor's supervisor is to ensure all drivers and operators have the appropriate driver's license for all Hired Hourly and Contract Equipment supplied under this contract.

### E6. CONTRACTOR'S SUPERVISION AND COMMUNICATION

- E6.1 The Contractor shall have a qualified Supervisor on duty during all snow clearing activities regardless of the type and magnitude of the operation. The Supervisor shall be able to attend, monitor and respond to all operational and equipment concerns throughout the contract area.
- E6.2 The Contractor's Supervisor shall have two-way communications with the Contractor's office and field crews, and continuously direct, coordinate and inspect the work of the field crews.
- E6.3 The Supervisor, or his designate, shall provide a means of cellular communications with City staff involved in the inspection of contract snow clearing operations. Failure by the Contractor to provide cellular communication to the City staff by first call-out will result in the City furnishing such equipment and deducting costs from the Contract payment.
- E6.4 The Contractor shall have the capability of receiving email, text, and facsimile transmission (fax machine) and shall supply the email address, cellular number, and facsimile number to the Contract Administrator.

## **E7. EXTREME SNOWFALL AND BLIZZARD CONDITIONS**

- E7.1 The Contractor shall provide snow clearing equipment to keep streets open during extreme snowfall events if requested by the Contract Administrator. The Contract Administrator shall evaluate field conditions and at his discretion, continue or terminate the hourly snow clearing operations.
- E7.2 Time utilized by the Contractor to keep streets open during the snow storm shall not be part of the time limits established in E2.2, E2.3, and E2.4.
- E7.3 During or after extreme snowfall and/or blizzards, the Contract Administrator may require that Regional and Collector streets be opened using both Contract and City forces in order to open such streets and emergency routes as quickly as possible. The Contractor may be required to dispatch his equipment to work inside and outside the contract area with and under the direction of City forces.
- E7.4 Once notified by the Contract Administrator of the official start time for the formal snow clearing operations following extreme snowfall and/or blizzards the Contractor shall immediately initiate the snow clearing operation.

## **E8. QUANTITIES**

- E8.1 Further to B9 of the Bidding Procedures, the estimated quantities identified on Form B: Prices for the clearing and hauling of snow on the Priority I, II and III street systems, are based on the following:
- (a) **Item No. 1 - Priority I (Regional) Street System:** The approximate quantity is based on 122.23 lane km of street for one (1) clearing operation of 0-10 cm;
  - (b) **Item No. 2 - Priority II (Bus Routes and Collector) Street System:** The approximate quantity is based on 73.97 lane km of street for three (3) clearing operations of 0-10 cm;
  - (c) **Item No. 3 - Priority III (Residential) Street System:** The approximate quantity is based on 137.81 lane km of street for three (3) clearing operations of 0-10 cm;
- E8.2 The total length of lane kilometres, as established by the Public Works Department, are provided in Appendix A - Priority I Streets, Appendix B - Priority II Streets, and Appendix C - Priority III Streets. Drawing 1 indicates the inventory of streets. In the event that streets are either added or deleted, then the total length shall be adjusted correspondingly for the purpose of measurement and payment.
- E8.3 Appendix D showing the annual accumulation of snow based on the meteorological summary of the Records kept by the City of Winnipeg for the last forty one (44) years is provided strictly for the information of Bidders.

## **E9. TRAFFIC MOVEMENT AND PARKING**

- E9.1 After a significant snowfall, overnight parking may be restricted on Priority I and II streets with the declaration of the Declared Snow Route Parking Ban. This By-Law, when declared by the Director of Public Works, prohibits parking on Priority I and Priority II streets between the hours of midnight and 07:00 am. The ban will normally last for twenty-four (24) hours but may be extended.
- E9.2 During snow clearing and hauling operations, the Contractor shall take all reasonable measures to facilitate the movement of traffic in accordance with the Manual of Temporary Traffic Control.

## **E10. MEASUREMENT AND PAYMENT**

- E10.1 This section will govern payment for full width street clearing of snow and hauling services for snow removal performed by the Contractor which include:
- (a) clearing and hauling services for snow after a recent accumulation of snow;

- (b) clearing and hauling services after a gradual accumulation of snow where, in the opinion of the Contract Administrator, such clearing and hauling services are warranted;
  - (c) clearing and hauling services after a recent accumulation of snow combined with a gradual accumulation of snow; and
  - (d) maintenance snow clearing services between storms and keeping streets and back lanes open during major snow storms and/or blizzards on the streets specified in this Contract.
- E10.2 If there is additional precipitation before the expiration of the specified time period, the Contract Administrator will define the end of the most recent snowfall and will set another time limit based on the quantity of precipitation.
- E10.3 Where in the opinion of the Contract Administrator the amount of snowfall and/or accompanying severe drifting conditions makes it impractical to complete the full width snow clearing, sidewalk clearing and back lane clearing operations with the Contractor's full complement of equipment and continuous effort, the Contract Administrator may, at his sole discretion, extend the time limits specified.
- E10.4 The Contract Administrator will have the authority to determine whether any clearing and hauling operation constitutes a recent accumulation, a gradual accumulation or a combination of the two. The guideline to be utilized by the Contract Administrator for determining whether a clearing operation is a recent accumulation or a gradual accumulation will be that, where 5 cm or more of snow has fallen over the forty-eight (48) hour period preceding the direction to commence clearing services, the accumulation will be considered a recent accumulation. Otherwise, the clearing operation will be considered a gradual accumulation.
- E10.5 Payment will be made for full width clearing and hauling operations on Priority I (Regional) Streets, Priority II (Collector) Streets, Priority III (Residential) streets based on the unit price per lane kilometre and a snow accumulation factor (F) which is dependent on the quantity of snowfall and the type of snow accumulation. The payment for all such clearing operations will be based on multiplying the unit price (R) for Item No. 1, 2, or 3, on Form B: Prices, as the case may be, by the length in kilometres cleared (L), as determined by the Contract Administrator, multiplied by the snow accumulation factor (F), as determined by the Contract Administrator; or  $\text{Payment} = R \times L \times F$ .
- E10.6 The snow accumulation for purposes of payment for a recent accumulation shall be the quantity of snow deemed to be cleared/hailed by the Contractor as determined by the Contract Administrator in accordance with this section. There may be hourly snow hauling, plowing and/or salting operations carried on by others on some portions of the street systems affected by this Contract. Therefore, the depth of the snow accumulation to be used for payment for the removal of a recent accumulation will be that portion of snow that has recently fallen immediately preceding the start of a clearing operation and during the said operation, but not including cleared or removed by others or by environmental processes, as determined solely by the Contract Administrator. The duration and depth of snowfall will be based on official reports from a weather consulting service. Notice of any dispute by the City arising from the amount of snow accumulation used to calculate payments for a recent clearing operation shall be forwarded to the Contract Administrator within fifteen (15) days of the City notifying the Contractor of the amounts used for payment for a given clearing operation. Failure by the Contractor to give notice of such dispute within the time specified shall preclude the Contractor from disputing the amount for which the City will pay.
- E10.7 The snow accumulation for purposes of payment for a gradual accumulation or combination of a recent and gradual accumulation shall be the quantity of snow deemed to be cleared/hailed by the Contractor as determined by the Contract Administrator in accordance with this section. There may be hourly snow hauling, plowing and/or salting operations carried on by others on some portions of the street systems affected by this Contract. Therefore, the depth of the snow accumulation to be used for payment for the removal of a gradual accumulation will not include snow that has been melted by environmental affects, chemical action, or both as determined by the Contract Administrator.

- E10.8 No payment will be made for gradual accumulation after March 15 of the Contract year in the event that all of the gradual accumulation has completely melted and does not physically exist on the street at the time of a plowing operation initiated by a recent accumulation. This determination will be made by the Contract Administrator.
- E10.9 The snow accumulation factor will be determined by the appropriate formula based on the type of accumulation and the quantity of snowfall. The formula to be used to calculate the snow accumulation factor for each payment scenario are identified in Table 1 below and are further detailed in E10.9.1, E10.9.2, E10.9.3, E10.9.4, and E10.9.5.

Type of Accumulation	Snowfall Measurement	Snow Accumulation Factor Calculation
(1) Recent	0-10.0 cm	$F = 1.000$
(2) Recent	Greater than 10.0 cm	$F = 1 + (0.90 \times (x - 10) / 10)$ where $x$ is the number of centimeters of recent accumulation snowfall. $F = 1 + \left[ 0.90 \left( \frac{x - 10}{10} \right) \right]$
(3) Gradual	Starting after December 15th of Contract year or since the preceding clearing operation, whichever is later.	$F = 1.000$ or $F = (0.30 \times y) / 10$ , whichever value is greater, where $y$ is the number of centimeters of gradual accumulation snowfall.
(4) Combination of Recent and Gradual	0-10.0 cm ( $x$ ) of recent and ( $y$ ) cm of gradual starting after December 15 <sup>th</sup> of Contract year or since the preceding clearing operation, whichever is later.	$F = 1.000$ or $F = (x + (0.30 \times y)) / 10$ , whichever value is greater, where $x$ is the number of centimeters of recent accumulation snowfall and $y$ is the number of centimeters of gradual accumulation snowfall.
(5) Combination of Recent and Gradual	Greater than 10.0 cm of recent ( $x$ ) and ( $y$ ) cm of gradual starting after December 15 <sup>th</sup> of Contract year or since the preceding clearing operation, whichever is later.	$F = 1 + (0.90 \times (x - 10) / 10) + ((0.30 \times y) / 10)$ , where $x$ is the number of centimeters of recent accumulation snowfall and $y$ is the number of centimeters of gradual accumulation snowfall.

E10.9.1 For a clearing operation required as a result of a Recent Accumulation of 10 cm or less (0-10 cm), the accumulation factor (F) is 1.00. Payment will be made at the unit price multiplied by the length in kilometres of traffic lanes cleared multiplied by 1.000.

Example: The total payment for a clearing operation after 9.3 cm of Recent Accumulation would be unit price × lane kilometres × 1.000).

E10.9.2 For a clearing operation required as a result of a Recent Accumulation in excess of 10 cm, the accumulation factor will be determined by adding 1.000 (which is the factor for the first 10 cm) to 90% of the snow accumulation in excess of 10 cm divided by ten (10). Payment will be made at the unit price multiplied by the length in kilometres of traffic lanes cleared multiplied by the snow accumulation factor.

Example: The snow accumulation factor for a clearing operation after 14.3 cm of Recent Accumulation, would be based on the calculation,  $F=1 + (0.9 \times (14.3 - 10)/10) = 1.387$ . The total payment for the clearing operation would be (unit price × lane kilometres × 1.387).

E10.9.3 For a clearing operation required as a result of a Gradual Accumulation, excluding salted or chemically cleared snow, the snow accumulation factor would be 1.000 or 30% of the Gradual Accumulation divided by ten (10), whichever value is greater. Payment will be made at the unit price multiplied by the length in kilometres of traffic lanes cleared multiplied by the snow accumulation factor.

Example: Assume that, on February 28<sup>th</sup>, the condition of the Priority III streets was such that a plowing operation was required and that no snowfall had occurred in the past 48 hours. The date of the last clearing operation was January 28<sup>th</sup> and 19 cm of snowfall (Gradual Accumulation) had fallen since that date. The snow accumulation factor would be 30% of 19 cm divided by 10, or  $F = (0.30 \times 19) / 10 = 0.570$ . Since the calculated factor is less than 1.000, the greater value of 1.000 would be used and the total payment for the clearing operation would be (unit price  $\times$  lane kilometres  $\times$  1.000).

E10.9.4 For a clearing operation required as result of a Recent Accumulation of 10 cm or less (0-10 cm) and where there has also been Gradual Accumulation, excluding Gradual Accumulation that was salted or chemically treated, measured starting after December 15<sup>th</sup> of the Contract year or since the immediately preceding clearing operation, whichever is later, the snow accumulation factor will be 1.000 or the value calculated by adding the recent accumulation to 30% of the Gradual Accumulation and dividing the sum by ten (10), whichever value is greater. Payment will be made at the unit price multiplied by the length in kilometres of traffic lanes cleared multiplied by the snow accumulation factor.

Example: Assume that during the Contract year there has been a snowfall on January 20<sup>th</sup> of 5.0 cm with severe winds, and in the opinion of the Contract Administrator, there is a need for a snow clearing operation. Assume further that 14.5 cm of snow has Gradually Accumulated between December 15<sup>th</sup> and the commencement of the Recent Accumulation on January 20<sup>th</sup>. The snow accumulation factor and payment would be calculated as follows:

- (i) The Recent Accumulation of 5.0 cm is added to 30% of the Gradual Accumulation of 14.5 cm and the sum divided by 10 or  $F = (5.0 + (0.30 \times 14.5)) / 10 = 0.935$ . Since the calculated factor is less than 1.000, the total payment for the clearing operation would be (unit price  $\times$  lane kilometres  $\times$  1.000).

Assume that in the above scenario the snowfall on January 20<sup>th</sup> was 8.0 cm. Then the snow accumulation factor and payment would be calculated as follows:

- (ii) The Recent Accumulation of 8.0 cm is added to 30% of the Gradual Accumulation of 14.5 cm and the sum divided by 10 or  $F = (8.0 + (0.30 \times 14.5)) / 10 = 1.235$ . The total payment for the clearing operation would be (unit price  $\times$  lane kilometres  $\times$  1.235).

E10.9.5 For a clearing operation required as result of a Recent Accumulation of greater than 10 cm and where there has also been Gradual Accumulation measured starting after December 15<sup>th</sup> of the Contract year or since the immediately preceding clearing operation, whichever is later, the snow accumulation factor will be determined by adding 1.000 (which is the factor for the first 10 cm of Recent Accumulation) to 90% of the Recent Accumulation in excess of 10 cm divided by ten (10) and then adding 30% of the Gradual Accumulation and divided by ten (10). Payment will be made at the unit price multiplied by the length in kilometres of traffic lanes cleared multiplied by the snow accumulation factor.

Example: Assume that during the Contract year there has been a snowfall on January 20<sup>th</sup> of 16.8 cm and, in the opinion of the Contract Administrator, there is need for a snow clearing operation. Assume further that 20.5 cm of snow has Gradually Accumulated between December 15<sup>th</sup> and the commencement of the Recent Accumulation on January 20<sup>th</sup>. The snow accumulation factor and payment would be calculated by adding 1.000 for the first 10 cm of Recent Accumulation to 90% of 6.8 cm (which is the Recent Accumulation in excess of 10 cm) divided by 10 and then adding 30% of 20.5 cm (which is the Gradual Accumulation) divided by 10, or  $F = 1.000 + (0.90 \times (16.8 - 10)) / 10 + ((0.30 \times 20.5) / 10) = 2.227$ . The total payment for the clearing operation would be (unit price  $\times$  lane kilometres  $\times$  2.227).

- E10.10 Payment shall be made for snow clearing services, such as truck plowing or maintenance snow clearing between snow storms and snow clearing during major storms/blizzards, as specified in E3 of the Specifications at the Bid hourly rate per equipment class on Form B: Prices, as the case may be, multiplied by the hours actually worked for each specific class as determined by the Contract Administrator.
- E10.11 Payment for wings, ice blades, and/or straight blades for Motor Graders engaged in snow clearing operations shall be included in the unit price per lane kilometre or kilometre respectively in Form B: Prices, Item no. 1, 2, and 3.
- E10.12 Ice blades and wings specifically requested for Hourly work by the Contract Administrator or his designate will be compensated for at the same rate per hour as those specified in the "Hourly Rental Rate for Public Works Department for the 2018 to 2019 Snow Season".
- E10.13 The City shall guarantee to pay to the Contractor a minimum amount, referred to as the "Guaranteed Minimum Amount", equal to 60% of the unit price shown on Form B: Prices.
- E10.13.1 Payment for Work done shall be as provided in E8 and all such payments shall be deducted from the Guaranteed Minimum Amount.
- E10.13.2 On December 31<sup>st</sup>, all payments received by the Contractor under this Contract will be totalled and the total compared with 10% of the Total Bid Price. If the total of the payments received is less than 10% of the Total Bid Price, then the difference between the aforesaid figures will be paid to the Contractor as an advance on the Guaranteed Minimum Amount. The amount of the advance will be set off against subsequent payments for work done by the Contractor.
- E10.13.3 On February 28<sup>th</sup>, all payments received by the Contractor under this Contract for Work done and as an advance on the Guaranteed Minimum Amount will be totalled and that total compared with 35% of the Total Bid Price. If the total of the payments received is less than 35% of the Total Bid Price, then the difference will be paid to the Contractor as an advance on the Guaranteed Minimum Amount. The amounts of any advances received by the Contractor will be set off against subsequent payments for Work done by the Contractor pursuant to the Contract.
- E10.13.4 At the conclusion of the Contract year, all payments received by the Contractor or under this Contract for Work done or as an advance on the Guaranteed Minimum Amount will be totalled and that total compared with the Guaranteed Minimum Amount. Only when the total of the payments received is less than the Guaranteed Minimum Amount will additional monies be payable by the City to the Contractor under the terms of this Contract.
- E10.13.5 The Contractor will not be compensated for any inconvenience and costs which may result from excavation Work on the streets, sidewalks or back lanes, the parking of vehicles on the roadway, vehicle movement, or any other obstruction to his Work.
- E10.13.6 The Contractor shall note that on the Regional Streets System portion of this Contract, the unit price shall include the cost of all necessary hauling for Priority I (Regional) Streets as specified in the Contract, identified in Appendix A with an asterisk.
- E10.13.7 The Contractor shall note that on the Priority I and Priority II street system portion of this Contract, the unit price bid shall include the cost of the 0.6 m median cut as specified in the contract.
- E10.13.8 It is the City of Winnipeg's intent to hold back five percent (5%) of progress estimates for all Work performed under this Contract as a damage deposit relating to E13 of the Specifications. These funds will be released when damages are rectified in accordance with E13.

## **E11. ANNUAL REVIEW – INFLATIONARY ADJUSTMENT**

- E11.1 The unit prices specified on Form B: Prices will be adjusted on the first Contract anniversary date, and subsequent anniversary dates based on the percentage increase or decrease in unit prices for the Contract year from the All-items Consumer Price Index for Winnipeg, normally referred to by Statistics Canada as Table 326-0001. The calculation of the adjustment will be based on October 1<sup>st</sup> of the previous year to October 1<sup>st</sup> of the current year. The first inflationary adjustment shall occur on October 1, 2019. The maximum annual adjustment shall not exceed ten percent (10%).
- E11.2 The index used will be that prepared by Statistics Canada. Since the index may not be available until sometime after the adjustment date, the adjustment will be retroactive.

## **E12. PRICE ADJUSTMENT – FUEL COSTS**

- E12.1 Notwithstanding C11.2, price adjustments for unforeseen fuel cost changes will include increases or decreases in the price of diesel fuel.
- E12.2 The City of Winnipeg will determine the Base Price of fuel costs based on the average diesel fuel price for the month of July of 2018 charged to the Streets Maintenance Division by the City of Winnipeg Fleet Management Agency.
- E12.3 Price adjustments will be assessed on October 1<sup>st</sup> and on January 1<sup>st</sup> of each contract year.
- E12.3.1 Price adjustments will only be made for any fuel price increase or decrease in excess of three percent (3%).
- E12.3.2 The actual diesel fuel price (Actual Price) will be determined on the dates indicated in E12.3 using the average fuel price of the previous month (e.g. for October 1<sup>st</sup> the average price for the month of September will be used and for January 1<sup>st</sup> the average price for December will be used).
- E12.4 Price adjustments will be applied to seventeen percent (17%) of the unit price by the Contractor on all items, which is the portion of the bid price that is attributable to fuel.
- E12.4.1 If fuel prices increase by more than three percent (3%) of the Base Price identified in E12.2, then a price adjustment for fuel will be made and paid for based on the quantity of eligible work on each progress estimate following the date of adjustment in accordance with the following formula:
- $$\text{Price Adjustment} = (\text{Actual Price} - (1.03 \times \text{Base Price}))$$
- E12.4.2 If fuel prices decrease by more than three percent (3%) of the Base Price, then a price adjustment for fuel will be made and paid for based on the quantity of eligible Work on each progress estimate following the date of adjustment in accordance with the following formula:
- $$\text{Price Adjustment} = ((0.97 \times \text{Base Price}) - \text{Actual Price})$$
- E12.4.3 Unit Price is as follows:
- $$\text{Unit Price Adjustment} = \text{Unit Price} - (\text{Price Adjustment} \times 0.17 \times \text{Unit Price}).$$

## **E13. DAMAGE TO PUBLIC AND PRIVATE PROPERTY**

- E13.1 The Contractor will be held responsible for any damage to City or private property sustained as a result of his snow clearing operation. Prior to commencement of the first clearing operation, the Contractor shall document and/or photograph all existing damage to pavements, curbs, utilities, street furniture, street signs, parking meters, etc., and shall provide this information to the Contract Administrator for verification.
- E13.2 The Contractor shall immediately report damages to City or private property to the Contract Inspector.

- E13.3 Any damage to pavements, boulevards, trees, etc. that in no way present a hazard to either pedestrian or vehicular traffic shall be reported to the Contract Administrator and rectified by the Contractor in accordance with City of Winnipeg specifications prior to June 30<sup>th</sup> following the snow clearing season. Damages not rectified by June 30<sup>th</sup> may be rectified by the City or its agents and all costs shall be borne by the Contractor and shall be deducted from monies owing.
- E13.4 The Contractor shall repair all curbs damaged as a result of snow clearing operations. The repairs will be conducted at the exact locations at which the curb damage was assessed. The Contractor shall remove and dispose of any loose curb material prior to April 15<sup>th</sup> of each year.
- E13.5 Any damage to street appurtenances such as, but not limited to, street light standards, signal lights, hydrants, valve boxes, railway signal arm protective devices shall be rectified immediately. If in the process of clearing snow from a street, the Contractor dislodges a manhole frame, it must be restored immediately. Failure to rectify damages immediately may result in the damages being rectified by the City or its agents and the associated costs borne by the Contractor. In the event that the manhole frame is damaged beyond replacement, the Contractor shall immediately install temporary warning devices to protect pedestrians and vehicles and notify the City at 311, so that a repair can be made by City forces. The costs for such repair will be borne totally by the Contractor.
- E13.6 The Contractor shall repair any sod damage caused by his snow clearing operations with top soil and seed or with sod as directed by the Contract Administrator. All restorations shall be in accordance with City of Winnipeg Standard Construction Specifications.
- E13.7 The Contractor shall replace with equal, any recycling bins or refuse containers destroyed, lost or misplaced by his operations at least one (1) day prior to the next refuse day cycle.

#### **E14. PENALTIES**

- E14.1 Where the Contractor does not satisfactorily complete the Work on Priority I, II or III streets, sidewalks or back lanes in accordance with the time and quality requirements specified in E2, the Contractor shall be assessed a penalty.
- E14.1.1 For Priority I streets, the penalty shall be in the amount of \$3,000.00 or an amount equal to fifty percent (50%) of the unit price per lane kilometre multiplied by the lane kilometres not satisfactorily completed multiplied by the snow accumulation factor, whichever is greater.
- E14.1.2 For Priority II and Priority III streets, the penalty shall be in the amount of \$2,000.00 or an amount equal to twenty-five percent (25%) of the unit price per lane kilometre multiplied by the lane kilometres not satisfactorily completed multiplied by the snow accumulation factor, whichever is greater.
- E14.1.3 Streets that the Contract Administrator deems to be deficient in whole and not in part will be considered incomplete and may be subject to the above penalty.
- E14.2 Where the Contractor does not supply up to the minimum quantity and type of equipment identified in E4 within two hours as outlined in E3.1.6 of the Specifications, the Contractor shall be assessed a penalty of five hundred dollars (\$500.00) per piece of equipment per call out below the minimum number as specified in E4. The minimum requirement shall apply throughout the duration of the operation from call-out to release of equipment.
- E14.3 Where the Contractor does not satisfactorily perform any snow clearing operation in accordance with the requirements of E2, particularly in reference to the quality of the Work following an inspection by the Contract Administrator the Work shall be declared a deficiency. The Contractor shall be requested to rectify the portion of streets, sidewalks or back lanes found to be unsatisfactory in quality within twenty-four (24) hours of notification or in a time period to be agreed to by the Contract Administrator. Failure to respond may result in the City performing the required Work and charging the cost of such Work back to the Contractor.

- E14.4 Any performance deficiency related to E2 such as, but not limited to, depositing snow in unauthorized locations, depositing snow on private property, or not removing snow windrows from approaches, shall be rectified immediately by the Contractor. Failure to respond will result in the City or its agent rectifying the deficiencies and charging the costs back to the Contractor.
- E14.5 Where the Contractor fails to replace recycling bins or refuse containers as described in E13.7, the City will replace these items and assess a penalty of \$100.00 per item.

## APPENDIX A – NORTH AREA (EAST) PRIORITY I STREETS

STREET NAME	FROM STREET	TO STREET	SNOW ROUTE	PRIORITY	LANE KM
* Albany St	Ness Av	Ness Av	Regional	P1	0.02
* Alexander Av	Keewatin St	Keewatin St	Regional	P1	0.04
* Amherst St	Ness Av	Ness Av	Regional	P1	0.02
* Bangor Av	Notre Dame Av	Notre Dame Av	Regional	P1	0.03
* Bannatyne Av W	Notre Dame Av	Notre Dame Av	Regional	P1	0.03
* Bannatyne Av W	Bannatyne Av W	Notre Dame Av	Regional	P1	0.03
* Belvidere St	Ness Av	Ness Av	Regional	P1	0.02
* Berry St	Wellington Av	Wellington Av	Regional	P1	0.02
* Berry St	Ness Av	Ness Av	Regional	P1	0.02
* Border St	Notre Dame Av	Notre Dame Av	Regional	P1	0.03
* Bradford St	Wellington Av	Wellington Av	Regional	P1	0.02
* Brooklyn St	Ness Av	Ness Av	Regional	P1	0.02
* Cecil St	Notre Dame Av	Notre Dame Av	Regional	P1	0.03
* Century St	Wellington Av	Wellington Av	Regional	P1	0.03
* Collegiate St	Ness Av	Ness Av	Regional	P1	0.02
* Conway St	Ness Av	Ness Av	Regional	P1	0.01
* Davidson St	Ness Av	Ness Av	Regional	P1	0.02
Dublin Av	Border St	St James St	Regional	P1	0.7
* Dublin Av	Midland St	Notre Dame Av	Regional	P1	0.17
Dublin Av	Field St	Dublin Av Bridge	Regional	P1	0.39
Dublin Av	Border St	King Edward St	Regional	P1	1.27
Dublin Av	Dublin Av Bridge	Orange St	Regional	P1	0.23
Dublin Av	Orange St	Notre Dame Av	Regional	P1	1.32
Dublin Av	Field St	St James St	Regional	P1	0.71
Dublin Av	Midland St	Notre Dame Av	Regional	P1	0.06
* Dublin Av	Notre Dame Av	Notre Dame Av	Regional	P1	0.11
* Dublin Av	King Edward St	King Edward St	Regional	P1	0.06

Dublin Av Bridge	Dublin Av	Dublin Av	Regional	P1	0.07
* Eastway Af	Empress St	Empress St E	Regional	P1	0.43
* Eastway Af	Eastway Af	Empress St E	Regional	P1	0.06
* Eastway Af	Empress St	Empress St	Regional	P1	0.04
* Eastway Af	Empress St E	Empress St E	Regional	P1	0.02
* Ellice Av	Ellice Av	St James St	Regional	P1	0.28
* Ellice Av	Century St	St James St	Regional	P1	0.35
* Ellice Av	St James St	St James St	Regional	P1	0.02
* Ellice Av	St James St	St James St	Regional	P1	0.02
* Ellice Av	Berry St	Marjorie St	Regional	P1	0.75
* Ellice Av	Marjorie St	Roseberry St	Regional	P1	0.7
* Ellice Av	Ferry Rd	Roseberry St	Regional	P1	0.71
* Ellice Av	Berry St	King Edward St	Regional	P1	0.64
* Ellice Av	Century St	King Edward St	Regional	P1	1.32
* Ellice Av	Empress St	Strathcona St	Regional	P1	0.74
* Ellice Av	Empress St	Strathcona St	Regional	P1	0.76
* Ellice Av	Empress St	Milt Stegall Dr	Regional	P1	0.68
* Ellice Av	Milt Stegall Dr	St James St	Regional	P1	0.34
* Ellice Av	Milt Stegall Dr	St James St	Regional	P1	0.29
* Ellice Av	Ashburn St	Strathcona St	Regional	P1	0.35
* Ellice Av	Erin St	Wall St	Regional	P1	0.64
* Ellice Av	Spruce St	Valour Rd	Regional	P1	0.31
* Ellice Av	Ashburn St	Valour Rd	Regional	P1	0.3
* Ellice Av	Clifton St	Erin St	Regional	P1	0.31
* Ellice Av	Clifton St	Telfer St N	Regional	P1	0.32
* Ellice Av	Telfer St N	Spruce St	Regional	P1	0.18
* Empress St	Yukon Av	Sargent Av	Regional	P1	0.4
* Empress St	Maroons Rd	St Matthews Av	Regional	P1	1.33
* Empress St	St Matthews Av	St Matthews Av	Regional	P1	0.05
* Empress St	Sargent Av	Wellington Av	Regional	P1	1.15
* Empress St	Portage Av	Eastway Af	Regional	P1	0.39

* Empress St	Maroons Rd	Empress St E	Regional	P1	0.23
* Empress St	Empress St E	Jack Blick Av	Regional	P1	0.09
* Empress St	Westway Af	Empress St E	Regional	P1	0.59
* Empress St	Empress St E	Empress St	Regional	P1	0.11
* Empress St	Jack Blick Av	Maroons Rd	Regional	P1	0.32
* Empress St	Empress St	Eastway Af	Regional	P1	0.06
* Empress St	Eastway Af	Westway Af	Regional	P1	0.28
* Empress St	Ellice Av	Yukon Av	Regional	P1	0.8
* Empress St	Ellice Av	St Matthews Av	Regional	P1	1.07
* Empress St	Jack Blick Av	Westway Af	Regional	P1	0.59
* Empress St	Westway Af	Eastway Af	Regional	P1	0.28
* Empress St	Eastway Af	Portage Av	Regional	P1	0.35
* Empress St E	East Way Af	Empress St E O/P Portage Av	Regional	P1	0.15
* Empress St E	Empress St E O/P Portage Av	East Way Af	Regional	P1	0.15
* Empress St E	St John Ambulance Wy	Empress St E O/P Portage Av	Regional	P1	0.86
* Empress St E	Empress St	Westway Af	Regional	P1	0.63
* Empress St E	Empress St	Empress St	Regional	P1	0.05
* Empress St E	Empress St E O/P Portage Av	St John Ambulance Wy	Regional	P1	0.8
* Empress St E	Westway Af	East Way Af	Regional	P1	0.29
* Empress St E	Eastway Af	Westway Af	Regional	P1	0.29
* Empress St E	Empress St E	Westway Af	Regional	P1	0.05
* Empress St E	Empress St E	Westway Af	Regional	P1	0.58
* Empress St E O/P Portage Av	St John Ambulance Wy	East Way Af	Regional	P1	0.11
* Empress St E O/P Portage Av	East Way Af	St John Ambulance Wy	Regional	P1	0.11
Erin St	Richard Av	Richard Av	Regional	P1	0.09
Erin St	Ellice Av	St Matthews Av	Regional	P1	1.07
Erin St	St Matthews Av	Wolever Av	Regional	P1	1.14
Erin St	Ellice Av	Sargent Av	Regional	P1	1.2
Erin St	Richard Av	Wellington Av	Regional	P1	1.09
Erin St	Sargent Av	Wellington Av	Regional	P1	1.15
Erin St	Portage Av	Wolever Av	Regional	P1	1.25

Erin St	Richard Av	Notre Dame Av	Regional	P1	1.58
* Ferry Rd	Silver Av	Silver Av	Regional	P1	0.03
* Ferry Rd	St Matthews Av	St Matthews Av	Regional	P1	0.02
* Ferry Rd	St Matthews Av	Ellice Av	Regional	P1	0.81
* Ferry Rd	Ness Av	Silver Av	Regional	P1	1.25
* Ferry Rd	Silver Av	St Matthews Av	Regional	P1	0.67
* Ferry Rd	Bruce Av	Ness Av	Regional	P1	0.95
* Ferry Rd	Bruce Av	Portage Av	Regional	P1	0.85
* Ferry Rd	Ness Av	Ness Av	Regional	P1	0.03
* Flint St	Notre Dame Av	Notre Dame Av	Regional	P1	0.03
* Guildford St	Ness Av	Ness Av	Regional	P1	0.02
* Hampton St	Ness Av	Ness Av	Regional	P1	0.02
* Inglewood St	Ness Av	Ness Av	Regional	P1	0.02
* Jack Blick Av	Empress St	Empress St E	Regional	P1	0.04
* Keewatin St	Notre Dame Av	William Av W	Regional	P1	0.13
* Keewatin St	William Av W	Elgin Av W	Regional	P1	0.19
* Keewatin St	Alexander Av	Logan Av	Regional	P1	0.18
* Keewatin St	William Av W	Notre Dame Av	Regional	P1	0.15
* Keewatin St	Ross Av W	Roy Av	Regional	P1	0.19
* Keewatin St	Alexander Av	Pacific Av W	Regional	P1	0.16
* Keewatin St	Ross Av W	Elgin Av W	Regional	P1	0.19
* Keewatin St	Elgin Av W	William Av W	Regional	P1	0.19
* Keewatin St	Roy Av	Ross Av W	Regional	P1	0.19
* Keewatin St	Pacific Av W	Roy Av	Regional	P1	0.08
* Keewatin St	Alexander Av	Pacific Av W	Regional	P1	0.16
* Keewatin St	Elgin Av W	Ross Av W	Regional	P1	0.19
* Keewatin St	Roy Av	Pacific Av W	Regional	P1	0.08
* Keewatin St	Logan Av	Alexander Av	Regional	P1	0.18
* King Edward St	Wellington Av	Wellington Av	Regional	P1	0.04
* King Edward St	Ness Av	Ness Av	Regional	P1	0.02
* Linwood St	Ness Av	Ness Av	Regional	P1	0.02

* Logan Av	Dee St	Keewatin St	Regional	P1	1.07
* Logan Av	Dee St	Keewatin St	Regional	P1	0.22
* Logan Av	King Edward St	Ada St	Regional	P1	1.24
* Logan Av	King Edward St	King Edward St	Regional	P1	0.06
* Logan Av	Keewatin St	Keewatin St	Regional	P1	0.08
* Logan Av	Ada St	Dee St	Regional	P1	1.13
* Lyle St	Ness Av	Ness Av	Regional	P1	0.02
* Madison St	Ness Av	Ness Av	Regional	P1	0.03
* Mandeville St	Ness Av	Ness Av	Regional	P1	0.02
* Marjorie St	Ness Av	Ness Av	Regional	P1	0.02
* Midland St	Dublin Av	Dublin Av	Regional	P1	0.02
* Moorgate St	Ness Av	Ness Av	Regional	P1	0.02
* Mount Royal Rd	Ness Av	Ness Av	Regional	P1	0.01
* Ness Av	Inglewood St	Ferry Rd	Regional	P1	0.17
* Ness Av	Century St	Queen St	Regional	P1	0.15
* Ness Av	Conway St	Moorgate St	Regional	P1	0.19
* Ness Av	Sackville St	Amherst St	Regional	P1	0.16
* Ness Av	St James St	St James St	Regional	P1	0.03
* Ness Av	St James St	St James St	Regional	P1	0.03
* Ness Av	Ferry Rd	Inglewood St	Regional	P1	0.17
* Ness Av	Davidson St	Strathmillan Rd	Regional	P1	0.18
* Ness Av	Davidson St	Mount Royal Rd	Regional	P1	0.64
* Ness Av	Parkview St	Roseberry St	Regional	P1	0.18
* Ness Av	Truro St	Albany St	Regional	P1	0.15
* Ness Av	Woodlawn St	Belvidere St	Regional	P1	0.16
* Ness Av	Linwood St	Winchester St	Regional	P1	0.19
* Ness Av	Century St	Queen St	Regional	P1	0.22
* Ness Av	Century St	Madison St	Regional	P1	0.43
* Ness Av	Hampton St	Marjorie St	Regional	P1	0.16
* Ness Av	Albany St	Truro St	Regional	P1	0.15
* Ness Av	Mandeville St	Overdale St	Regional	P1	0.17

* Ness Av	Winchester St	Linwood St	Regional	P1	0.19
* Ness Av	King Edward St	Queen St	Regional	P1	0.2
* Ness Av	Berry St	Hampton St	Regional	P1	0.21
* Ness Av	Strathmillan Rd	Davidson St	Regional	P1	0.18
* Ness Av	Kensington St	Century St	Regional	P1	0.17
* Ness Av	St James St	Madison St	Regional	P1	0.55
* Ness Av	Ness Av	St James St	Regional	P1	0.11
* Ness Av	Ness Av	Century St	Regional	P1	0.07
* Ness Av	Sharp Bv	Duffield St	Regional	P1	0.21
* Ness Av	Rutland St	Inglewood St	Regional	P1	0.17
* Ness Av	Amherst St	Rutland St	Regional	P1	0.17
* Ness Av	Madison St	Kensington St	Regional	P1	0.26
* Ness Av	Mount Royal Rd	Davidson St	Regional	P1	0.63
* Ness Av	Overdale St	Overdale St	Regional	P1	0.02
* Ness Av	Belvidere St	Mandeville St	Regional	P1	0.16
* Ness Av	Overdale St	Overdale St	Regional	P1	0.02
* Ness Av	Albany St	Lyle St	Regional	P1	0.17
* Ness Av	Century St	Century St	Regional	P1	0.05
* Ness Av	King Edward St	Brooklyn St	Regional	P1	0.16
* Ness Av	Brooklyn St	Berry St	Regional	P1	0.16
* Ness Av	Marjorie St	Parkview St	Regional	P1	0.17
* Ness Av	Amherst St	Sackville St	Regional	P1	0.16
* Ness Av	Guildford St	Woodlawn St	Regional	P1	0.17
* Ness Av	Duffield St	Guildford St	Regional	P1	0.18
* Ness Av	Collegiate St	Ferry Rd	Regional	P1	0.18
* Ness Av	Moorgate St	Conway St	Regional	P1	0.19
* Ness Av	Century St	Century St	Regional	P1	0.05
* Ness Av	Queen St	King Edward St	Regional	P1	0.2
* Ness Av	Truro St	Sackville St	Regional	P1	0.15
* Ness Av	Sharp Bv	Moorgate St	Regional	P1	0.21
* Ness Av	Conway St	Mount Royal Rd	Regional	P1	0.64

* Ness Av	Conway St	Mount Royal Rd	Regional	P1	0.64
* Ness Av	Roseberry St	Collegiate St	Regional	P1	0.18
* Ness Av	Ferry Rd	Collegiate St	Regional	P1	0.18
* Ness Av	Brooklyn St	King Edward St	Regional	P1	0.16
* Ness Av	Roseberry St	Parkview St	Regional	P1	0.18
* Ness Av	Parkview St	Marjorie St	Regional	P1	0.17
* Ness Av	Overdale St	Mandeville St	Regional	P1	0.17
* Ness Av	Overdale St	Winchester St	Regional	P1	0.19
* Ness Av	Collegiate St	Roseberry St	Regional	P1	0.18
* Ness Av	Rutland St	Amherst St	Regional	P1	0.17
* Ness Av	Moorgate St	Sharp Bv	Regional	P1	0.2
* Ness Av	Belvidere St	Woodlawn St	Regional	P1	0.16
* Ness Av	Berry St	Brooklyn St	Regional	P1	0.16
* Ness Av	Sackville St	Truro St	Regional	P1	0.15
* Ness Av	Ness Av	Century St	Regional	P1	0.1
* Ness Av	Hampton St	Berry St	Regional	P1	0.21
* Ness Av	Marjorie St	Hampton St	Regional	P1	0.16
* Ness Av	Linwood St	Lyle St	Regional	P1	0.16
* Ness Av	Lyle St	Albany St	Regional	P1	0.17
* Ness Av	Mandeville St	Belvidere St	Regional	P1	0.16
* Ness Av	Woodlawn St	Guildford St	Regional	P1	0.17
* Ness Av	Lyle St	Linwood St	Regional	P1	0.16
* Ness Av	Winchester St	Overdale St	Regional	P1	0.19
* Ness Av	Guildford St	Sharp Bv	Regional	P1	0.39
* Ness Av	Madison St	St James St	Regional	P1	0.55
* Ness Av	Inglewood St	Rutland St	Regional	P1	0.17
* Notre Dame Av	Dublin Av	Flint St	Regional	P1	0.26
* Notre Dame Av	Cecil St	Bangor Av	Regional	P1	0.15
* Notre Dame Av	King Edward St	Tentler St	Regional	P1	0.58
* Notre Dame Av	Notre Dame Av	Notre Dame Av	Regional	P1	0.03
* Notre Dame Av	Bannatyne Av W	Notre Dame Av	Regional	P1	0.22

* Notre Dame Av	Winnipeg Av	Dublin Av	Regional	P1	0.27
* Notre Dame Av	King Edward St	Tentler St	Regional	P1	0.58
* Notre Dame Av	Becker St	Border St	Regional	P1	0.16
* Notre Dame Av	Valour Rd	Flint St	Regional	P1	0.5
* Notre Dame Av	Keewatin St	Worth St	Regional	P1	0.26
* Notre Dame Av	Flint St	Valour Rd	Regional	P1	0.5
* Notre Dame Av	Notre Dame Av	Notre Dame Av	Regional	P1	0.03
* Notre Dame Av	Dublin Av	Dublin Av	Regional	P1	0.07
* Notre Dame Av	Notre Dame Av	Notre Dame Av	Regional	P1	0.08
* Notre Dame Av	Notre Dame Av	Dublin Av	Regional	P1	0.09
* Notre Dame Av	King Edward St	Tentler St	Regional	P1	0.03
* Notre Dame Av	Cecil St	Winnipeg Av W	Regional	P1	0.25
* Notre Dame Av	Weston St	Spruce St	Regional	P1	0.54
* Notre Dame Av	Wall St	Weston St	Regional	P1	0.85
* Notre Dame Av	Border St	Tentler St	Regional	P1	0.19
* Notre Dame Av	Worth St	Bannatyne Av W	Regional	P1	0.27
* Notre Dame Av	Becker St	St James St	Regional	P1	0.19
* Notre Dame Av	Spruce St	Valour Rd	Regional	P1	0.03
* Notre Dame Av	King Edward St	King Edward St	Regional	P1	0.03
* Notre Dame Av	Bangor Av	Cecil St	Regional	P1	0.15
* Notre Dame Av	Bannatyne Av W	Bangor Av	Regional	P1	0.19
* Notre Dame Av	Worth St	Bannatyne Av W	Regional	P1	0.27
* Notre Dame Av	Bangor Av	Bannatyne Av W	Regional	P1	0.19
* Notre Dame Av	Winnipeg Av	Cecil St	Regional	P1	0.26
* Notre Dame Av	Worth St	Keewatin St	Regional	P1	0.24
* Notre Dame Av	Bannatyne Av W	Keewatin St	Regional	P1	0.22
* Notre Dame Av	Keewatin St	Keewatin St	Regional	P1	0.03
* Notre Dame Av	St James St	Border St	Regional	P1	0.35
* Notre Dame Av	King Edward St	King Edward St	Regional	P1	0.03
* Notre Dame Av	Erin St	Wall St	Regional	P1	0.7
* Notre Dame Av	Bannatyne Av W	St James St	Regional	P1	0.31

* Notre Dame Av	Bannatyne Av W	St James St	Regional	P1	0.31
* Notre Dame Av	Border St	Tentler St	Regional	P1	0.19
* Notre Dame Av	Weston St	Erin St	Regional	P1	0.12
* Notre Dame Av	Keewatin St	Keewatin St	Regional	P1	0.04
* Notre Dame Av	Spruce St	Clifton St	Regional	P1	0.42
* Notre Dame Av	Clifton St	Weston St	Regional	P1	0.13
* Notre Dame Av	Valour Rd	Spruce St	Regional	P1	0.05
* Notre Dame Av	Flint St	Winnipeg Av	Regional	P1	0.25
* Notre Dame Av	Dublin Av	Winnipeg Av	Regional	P1	0.32
* Notre Dame Av	Notre Dame Av	Notre Dame Av	Regional	P1	0.03
* Overdale St	Ness Av	Ness Av	Regional	P1	0.02
* Overdale St	Ness Av	Ness Av	Regional	P1	0.02
* Pacific Av W	Keewatin St	Keewatin St	Regional	P1	0.04
* Parkview St	Ness Av	Ness Av	Regional	P1	0.02
* Portage Av	Portage Av	St James St	Regional	P1	0.07
* Portage Av	Portage Av	St John Ambulance Wy	Regional	P1	0.14
* Queen St	Ness Av	Ness Av	Regional	P1	0.02
* Roseberry St	Ness Av	Ness Av	Regional	P1	0.02
* Ross Av W	Keewatin St	Keewatin St	Regional	P1	0.04
* Roy Av	Keewatin St	Keewatin St	Regional	P1	0.04
* Rutland St	Ness Av	Ness Av	Regional	P1	0.02
* Sackville St	Ness Av	Ness Av	Regional	P1	0.02
* Sargent Av	Bradford St	Century St	Regional	P1	0.61
* Sargent Av	Century St	St James St	Regional	P1	0.36
* Sargent Av	St James St	Century St	Regional	P1	0.36
* Sargent Av	Ferry Rd	Flight Rd	Regional	P1	0.57
* Sargent Av	Berry St	Ferry Rd	Regional	P1	2.16
* Sargent Av	Berry St	King Edward St	Regional	P1	0.64
* Sargent Av	Bradford St	King Edward St	Regional	P1	0.71
* Sargent Av	Maintenance St	Cargo Rd	Regional	P1	0.53
* Sargent Av	Empress St	Sargent Av	Regional	P1	0.36

* Sargent Av	Empress St	Sargent Av	Regional	P1	0.33
* Sargent Av	Strathcona St	Sanford St	Regional	P1	0.74
* Sargent Av	Strathcona St	Sanford St	Regional	P1	0.23
* Sargent Av	Clifton St	Spruce St	Regional	P1	0.5
* Sargent Av	St James St	Milt Stegall Dr	Regional	P1	0.36
* Sargent Av	St James St	Milt Stegall Dr	Regional	P1	0.36
* Sargent Av	Ashburn St	Valour Rd	Regional	P1	0.3
* Sargent Av	Ashburn St	Strathcona St	Regional	P1	0.35
* Sargent Av	Spruce St	Valour Rd	Regional	P1	0.31
* Sargent Av	Clifton St	Erin St	Regional	P1	0.31
* Sargent Av	Sanford St	Empress St	Regional	P1	0.52
* Sargent Av	Erin St	Wall St	Regional	P1	0.64
Sharp Bv	Ness Av	Ness Av	Regional	P1	0.02
* Silver Av	St James St	St James St	Regional	P1	0.02
* Silver Av	St James St	St James St	Regional	P1	0.02
* Silver Av	Silver Av	St James St	Regional	P1	0.1
* Silver Av	Madison St	St James St	Regional	P1	0.37
* Silver Av	Madison St	Silver Av	Regional	P1	0.36
* Silver Av	Century St	Kensington St	Regional	P1	0.12
* Silver Av	Kensington St	Century St	Regional	P1	0.12
* Silver Av	Madison St	Kensington St	Regional	P1	0.18
* Silver Av	Century St	Century St	Regional	P1	0.03
* Silver Av	Century St	Century St	Regional	P1	0.03
* Silver Av	Kensington St	Madison St	Regional	P1	0.18
* Spruce St	Notre Dame Av	Notre Dame Av	Regional	P1	0.03
* St James Bridge SB	St James Bridge	Academy Rd	Regional	P1	0.22
* St James St	Notre Dame Av	Notre Dame Av	Regional	P1	0.03
* St James St	Notre Dame Av	Bangor Av	Regional	P1	1.23
* St James St	Notre Dame Av	Bangor Av	Regional	P1	1.23
* St James St	Geneva Av	Sargent Av	Regional	P1	1.5
* St James St	Silver Av	Maroons Rd	Regional	P1	0.16

* St James St	Ness Av	Ness Av	Regional	P1	0.02
* St James St	Portage Av	Ness Av	Regional	P1	0.71
* St James St	Silver Av	Silver Av	Regional	P1	0.81
* St James St	Silver Av	Silver Av	Regional	P1	0.02
* St James St	Silver Av	Silver Av	Regional	P1	0.81
* St James St	Silver Av	Silver Av	Regional	P1	0.02
* St James St	Sargent Av	Sargent Av	Regional	P1	0.04
* St James St	Ellice Av	St James St	Regional	P1	0.31
* St James St	Ellice Av	Ellice Av	Regional	P1	0.02
* St James St	Ellice Av	Ellice Av	Regional	P1	0.02
* St James St	St Matthews Av	St Matthews Av	Regional	P1	0.03
* St James St	St Matthews Av	St Matthews Av	Regional	P1	0.03
* St James St	Ellice Av	St Matthews Av	Regional	P1	0.7
* St James St	St James St	St Matthews Av	Regional	P1	0.65
* St James St	Saskatchewan Av	Dublin Av	Regional	P1	2.31
* St James St	St Matthews Av	Silver Av	Regional	P1	0.81
* St James St	Ness Av	Portage Av	Regional	P1	1.79
* St James St	Yukon Av	Ellice Av	Regional	P1	0.31
* St James St	Yukon Av	Ellice Av	Regional	P1	0.44
* St James St	Bangor Av	St James St (Omands Creek)	Regional	P1	0.33
* St James St	St James St (Omands Creek)	Dublin Av	Regional	P1	0.55
* St James St	St Matthews Av	Ellice Av	Regional	P1	0.7
* St James St	Ness Av	Ness Av	Regional	P1	0.02
* St James St	Wellington Av	Wellington Av	Regional	P1	0.02
* St James St	Sargent Av	Yukon Av	Regional	P1	0.5
* St James St	St James St	Ness Av	Regional	P1	0.07
* St James St	Saskatchewan Av	Wellington Av	Regional	P1	2.22
* St James St (Omands Creek)	Bangor Av	Dublin Av	Regional	P1	0.1
* St John Ambulance Wy	Empress St E	Portage Av	Regional	P1	0.3
* St Matthews Av	Century St	Kensington St	Regional	P1	0.13
* St Matthews Av	Madison St	St James St	Regional	P1	0.37

* St Matthews Av	St James St	Madison St	Regional	P1	0.37
* St Matthews Av	Kensington St	Madison St	Regional	P1	0.18
* St Matthews Av	Madison St	Century St	Regional	P1	0.32
* St Matthews Av	Century St	Century St	Regional	P1	0.03
* St Matthews Av	Century St	Century St	Regional	P1	0.03
* St Matthews Av	Milt Stegall Dr	Empress St	Regional	P1	0.34
* St Matthews Av	Milt Stegall Dr	Empress St	Regional	P1	0.34
* St Matthews Av	Milt Stegall Dr	St James St	Regional	P1	0.34
* St Matthews Av	St James St	St James St	Regional	P1	0.02
* St Matthews Av	St James St	Milt Stegall Dr	Regional	P1	0.34
* St Matthews Av	St James St	St James St	Regional	P1	0.02
* Tentler St	Notre Dame Av	Notre Dame Av	Regional	P1	0.03
* Truro St	Ness Av	Ness Av	Regional	P1	0.02
* Valour Rd	Notre Dame Av	Notre Dame Av	Regional	P1	0.02
Wall St	Notre Dame Av	Notre Dame Av	Regional	P1	0.02
Wall St	Wall St E	Notre Dame Av	Regional	P1	0.39
Wall St	Richard Av	Wall St E	Regional	P1	1.05
Wall St	St Matthews Av	Wolever Av	Regional	P1	1.14
Wall St	Ellice Av	St Matthews Av	Regional	P1	1.07
Wall St	Portage Av	Wolever Av	Regional	P1	1.12
Wall St	Sargent Av	Ellice Av	Regional	P1	1.2
Wall St	Sargent Av	Wellington Av	Regional	P1	1.15
Wall St	Wellington Av	Richard Av	Regional	P1	1.08
* Wellington Av	King Edward St	Berry St	Regional	P1	0.32
* Wellington Av	Century St	Bradford St	Regional	P1	0.3
* Wellington Av	King Edward St	Bradford St	Regional	P1	0.35
* Wellington Av	Bradford St	King Edward St	Regional	P1	0.35
* Wellington Av	Berry St	King Edward St	Regional	P1	0.05
* Wellington Av	Empress St	St James St	Regional	P1	1.41
* Wellington Av	St James St	Wellington Av	Regional	P1	0.06
* Wellington Av	Century St	St James St	Regional	P1	0.36

* Wellington Av	Wellington Av	Wellington Av	Regional	P1	0.02
* Wellington Av	St James St	Century St	Regional	P1	0.36
* Wellington Av	Bradford St	Century St	Regional	P1	0.3
* Wellington Av	Berry St	King Edward St	Regional	P1	0.32
* Wellington Av	Empress St	St James St	Regional	P1	0.1
* Weston St	Notre Dame Av	Notre Dame Av	Regional	P1	0.03
* Westway Af	Empress St E	Empress St	Regional	P1	0.32
* Westway Af	Empress St	Empress St	Regional	P1	0.04
* Westway Af	Westway Af	Empress St E	Regional	P1	0.03
* William Av W	Keewatin St	Keewatin St	Regional	P1	0.04
* Winchester St	Ness Av	Ness Av	Regional	P1	0.02
* Winnipeg Av W	Notre Dame Av	Notre Dame Av	Regional	P1	0.04
* Woodlawn St	Ness Av	Ness Av	Regional	P1	0.02
* Worth St	Notre Dame Av	Notre Dame Av	Regional	P1	0.03
<b>Total</b>					<b>122.23</b>

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**Note:** “\*” denotes snow to be cleared from streets and lane intersections, pedestrian crosswalks and corridors, private approaches, railway crossings and bus stops to be hauled away when street cleared.

## APPENDIX B - NORTH AREA (EAST) PRIORITY II STREETS

STREET NAME	FROM STREET	TO STREET	SNOW ROUTE	PRIORITY	LANE KM
Air Force Wy	Silver Av	Ness Av	Non-Regional	P2	0.66
Air Force Wy	Hangar Line Rd	Sharp Bv	Non-Regional	P2	0.57
Angood Av	Angood Av	Angood Av	Non-Regional	P2	0.03
Assiniboine Av	Winston Rd	Parkside Dr	Non-Regional	P3S	0.14
Bangor Av	Orange St	St James St	Non-Regional	P2	0.70
Bangor Av	Notre Dame Av	Orange St	Non-Regional	P2	0.26
Bannister Rd	King Edward St	Logan Av	Non-Regional	P2	1.60
Barratt Av	Clifton St	Spruce St	Non-Regional	P3S	0.25
Berry St	Sargent Av	Wellington Av	Non-Regional	P2	0.75
Berry St	Ness Av	Silver Av	Non-Regional	P2	0.84
Berry St	Saskatchewan Av	Wellington Av	Non-Regional	P2	0.88
Berry St	St Matthews Av	St Matthews Av	Non-Regional	P2	0.02
Berry St	Ness Av	Portage Av	Non-Regional	P2	1.09
Berry St	Ellice Av	St Matthews Av	Non-Regional	P2	0.82
Berry St	Silver Av	Silver Av	Non-Regional	P2	0.02
Berry St	Ellice Av	Sargent Av	Non-Regional	P2	0.80
Berry St	Silver Av	St Matthews Av	Non-Regional	P2	0.66
Border St	Border St	Century St	Non-Regional	P2	0.20
Border St	Notre Dame Av	Tabu Av	Non-Regional	P2	0.11
Border St	Century St	Dublin Av	Non-Regional	P2	1.06
Border St	Dublin Av	Powell Av	Non-Regional	P2	0.30
Border St	Tabu Av	Powell Av	Non-Regional	P2	0.66
Brooklyn St	Silver Av	Silver Av	Non-Regional	P2	0.02
Brooklyn St	St Matthews Av	St Matthews Av	Non-Regional	P2	0.02
Brookside Bv	Eagle Dr	Selkirk Av	Non-Regional	P2	0.10
Brookside Bv	Logan Av	Notre Dame Av	Non-Regional	P2	1.99
Brookside Bv	Logan Av	Omands Creek Bv	Non-Regional	P2	1.21

Bruce Av	Amherst St	Rutland St	Non-Regional	P2	0.17
Bruce Av	Duffield St	Sharp Bv	Non-Regional	P2	0.21
Bruce Av	Albany St	Linwood St	Non-Regional	P2	0.33
Bruce Av	Belvidere St	Woodlawn St	Non-Regional	P2	0.16
Bruce Av	Davidson St	Mclaughlin Av	Non-Regional	P2	0.18
Bruce Av	Conway St	Vavasour Av	Non-Regional	P2	0.18
Bruce Av	Sharp Bv	Moorgate St	Non-Regional	P2	0.20
Bruce Av	Mclaughlin Av	Mount Royal Rd	Non-Regional	P2	0.46
Bruce Av	Guildford St	Woodlawn St	Non-Regional	P2	0.17
Bruce Av	Moorgate St	Conway St	Non-Regional	P2	0.19
Bruce Av	Overdale St	Mandeville St	Non-Regional	P2	0.02
Bruce Av	Sackville St	Truro St	Non-Regional	P2	0.15
Bruce Av	Linwood St	Winchester St	Non-Regional	P2	0.19
Bruce Av	Mandeville St	Belvidere St	Non-Regional	P2	0.16
Bruce Av	Duffield St	Guildford St	Non-Regional	P2	0.18
Bruce Av	Overdale St	Winchester St	Non-Regional	P2	0.19
Bruce Av	Ferry Rd	Inglewood St	Non-Regional	P2	0.17
Bruce Av	Amherst St	Sackville St	Non-Regional	P2	0.16
Bruce Av	Davidson St	Strathmillan Rd	Non-Regional	P2	0.18
Bruce Av	Albany St	Truro St	Non-Regional	P2	0.15
Bruce Av	Mount Royal Rd	Vavasour Av	Non-Regional	P2	0.46
Bruce Av	Mandeville St	Overdale St	Non-Regional	P2	0.17
Bruce Av	Rutland St	Inglewood St	Non-Regional	P2	0.17
Cactus Jacks Pl	Maroons Rd	Jack Blick Av	Non-Regional	P2	0.29
Caithness Rd	Stevenson Rd	Notre Dame Av	Non-Regional	P2	0.49
Century St	Century St	Saskatchewan Av	Non-Regional	P2	0.03
Century St	Century St	Saskatchewan Av	Non-Regional	P2	0.03
Century St	Saskatchewan Av	Border St	Non-Regional	P2	0.17
Clifton St	Wellington Av	Clifton Pl	Non-Regional	P3S	0.19
Clifton St	Barratt Av	Wolever Av	Non-Regional	P3S	0.38
Clifton St	Sargent Av	Clifton Pl	Non-Regional	P3S	0.58

Collegiate St	Silver Av	Silver Av	Non-Regional	P2	0.02
Collegiate St	St Matthews Av	St Matthews Av	Non-Regional	P2	0.02
Dublin Av	Sherwin Rd	King Edward St	Non-Regional	P2	0.75
Empress St	Saskatchewan Av	Wellington Av	Non-Regional	P2	1.26
Ferry Rd	Assiniboine Av	Portage Av	Non-Regional	P2	0.88
Hampton St	Silver Av	Silver Av	Non-Regional	P2	0.02
Hampton St	St Matthews Av	St Matthews Av	Non-Regional	P2	0.02
Jack Blick Av	Cactus Jack Pl	Empress St	Non-Regional	P2	0.34
King Edward St	St Matthews Av	St Matthews Av	Non-Regional	P2	0.02
King Edward St	King Edward St	Logan Av	Non-Regional	P2	0.17
King Edward St	Silver Av	Silver Av	Non-Regional	P2	0.02
Linwood St	Bruce Av	Portage Av	Non-Regional	P2	0.78
Linwood St	Bruce Av	Ness Av	Non-Regional	P2	0.64
Lodge Av	Strathmillan Rd	Davidson St	Non-Regional	P2	0.18
Lodge Av	Keating Av	Mount Royal Rd	Non-Regional	P2	0.46
Lodge Av	Mount Royal Rd	Hind Av	Non-Regional	P2	0.46
Lodge Av	Conway St	Harmon Av	Non-Regional	P2	0.18
Lodge Av	Moorgate St	Sharp Bv	Non-Regional	P2	0.20
Lodge Av	Duffield St	Guildford St	Non-Regional	P2	0.18
Lodge Av	Davidson St	Hearne Av	Non-Regional	P2	0.18
Lodge Av	Duffield St	Sharp Bv	Non-Regional	P2	0.21
Lodge Av	Guildford St	Woodlawn St	Non-Regional	P2	0.17
Lodge Av	Conway St	Moorgate St	Non-Regional	P2	0.19
Logan Av	Ryan St	Moody St	Non-Regional	P2	0.84
Logan Av	Bannister Rd	King Edward St	Non-Regional	P2	1.01
Logan Av	Logan Av at Omands Creek	Omands Creek Bv	Non-Regional	P2	0.18
Logan Av	Omands Creek Bv	Parent St	Non-Regional	P2	0.28
Logan Av	Bannister Rd	Ryan St	Non-Regional	P2	0.21
Logan Av	Brookside Bv	Logan Av at Omands Creek	Non-Regional	P2	0.71
Logan Av Crossing of Omands Creek	Logan Av	Logan Av	Non-Regional	P2	0.06
Madison St	Ness Av	End	Non-Regional	P2	0.14

Marjorie St	St Matthews Av	St Matthews Av	Non-Regional	P2	0.02
Marjorie St	Silver Av	Silver Av	Non-Regional	P2	0.02
Maroons Rd	Maroons Rd	St James St	Non-Regional	P2	0.05
Maroons Rd	Cactus Jacks Pl	St James St	Non-Regional	P2	0.34
Maroons Rd	Cactus Jacks Pl	Empress St	Non-Regional	P2	0.33
Midland St	Saskatchewan Av	Dublin Av	Non-Regional	P2	0.84
Midland St	Midland St	Saskatchewan Av	Non-Regional	P2	0.09
Mount Royal Rd	Kane Av	Traill Av	Non-Regional	P2	0.15
Mount Royal Rd	Keating Av	Rowand Av	Non-Regional	P2	0.15
Mount Royal Rd	Turner Av	Turner Av	Non-Regional	P2	0.16
Mount Royal Rd	Harmon Av	Lodge Av	Non-Regional	P2	0.16
Mount Royal Rd	Bruce Av	Mclaughlin Av	Non-Regional	P2	0.16
Mount Royal Rd	Kane Av	Kane Av	Non-Regional	P2	0.15
Mount Royal Rd	Keating Av	Lodge Av	Non-Regional	P2	0.15
Mount Royal Rd	Palliser Av	Hearne Av	Non-Regional	P2	0.16
Mount Royal Rd	Fidler Av	Fidler Av	Non-Regional	P2	0.16
Mount Royal Rd	Palliser Av	Bruce Av	Non-Regional	P2	0.16
Mount Royal Rd	Garrioch Av	Mclaughlin Av	Non-Regional	P2	0.16
Mount Royal Rd	Ness Av	Garrioch Av	Non-Regional	P2	0.16
Mount Royal Rd	Portage Av	Traill Av	Non-Regional	P2	0.13
Notre Dame Av	Angood Av	Angood Av	Non-Regional	P2	0.29
Notre Dame Av	Angood Av	King Edward St	Non-Regional	P2	0.43
Notre Dame Av	Notre Dame Av	Sherwin Rd	Non-Regional	P2	0.04
Notre Dame Av	Dalton Cr	Sherwin Rd	Non-Regional	P2	0.07
Notre Dame Av	Sherwin Rd	Angood Av	Non-Regional	P2	0.18
Notre Dame Av	Notre Dame Av	Notre Dame Av	Non-Regional	P2	0.03
Notre Dame Av	Dalton Cr	Dalton Cr	Non-Regional	P2	0.10
Notre Dame Av	Sherwin Rd	Angood Av	Non-Regional	P2	0.18
Notre Dame Av	Caithness Rd	Airport Rd	Non-Regional	P2	0.37
Notre Dame Av	Angood Av	King Edward St	Non-Regional	P2	0.15
Notre Dame Av	Caithness Rd	Dalton Cr	Non-Regional	P2	0.45

Notre Dame Av	Airport Rd	Brookside Bv	Non-Regional	P2	1.63
Omands Creek Bv	Winfield Wy	Brookside Bv	Non-Regional	P2	0.59
Omands Creek Bv	Sylvan Wy	Winfield Wy	Non-Regional	P2	0.48
Omands Creek Bv	Sylvan Wy	Logan Av	Non-Regional	P2	0.66
Parkside Dr	Winston Rd	Assiniboine Av	Non-Regional	P3S	0.56
Parkview St	St Matthews Av	St Matthews Av	Non-Regional	P2	0.02
Parkview St	Silver Av	Silver Av	Non-Regional	P2	0.02
Portage Av	Portage Av	St James St	Non-Regional	P2	0.13
Queen St	Silver Av	Silver Av	Non-Regional	P2	0.02
Roseberry St	Ellice Av	St Matthews Av	Non-Regional	P2	0.81
Roseberry St	St Matthews Av	St Matthews Av	Non-Regional	P2	0.02
Roseberry St	Silver Av	Silver Av	Non-Regional	P2	0.02
Ross Av W	Butterworth Ln	King Edward St	Non-Regional	P3S	0.45
Ross Av W	Butterworth Ln	Oddy St	Non-Regional	P3S	0.22
Saskatchewan Av	Century St	Century St	Non-Regional	P2	0.01
Saskatchewan Av	Berry St	Sherwin Rd	Non-Regional	P2	0.38
Saskatchewan Av	Century St	St James St	Non-Regional	P2	0.38
Saskatchewan Av	Berry St	King Edward St	Non-Regional	P2	0.33
Saskatchewan Av	Bradford St	King Edward St	Non-Regional	P2	0.36
Saskatchewan Av	Century St	Bradford St	Non-Regional	P2	0.28
Saskatchewan Av	Midland St	Saskatchewan Av at Omands Creek	Non-Regional	P2	0.64
Saskatchewan Av	Saskatchewan Av at Omands Creek	Empress St	Non-Regional	P2	0.02
Saskatchewan Av	Empress St	St James St	Non-Regional	P2	0.72
Saskatchewan Av at Omands Creek	Midland St	Empress St	Non-Regional	P2	0.05
Sharp Bv	Bruce Av	Ness Av	Non-Regional	P2	0.64
Sharp Bv	Lodge Av	Portage Av	Non-Regional	P2	0.48
Sharp Bv	Bruce Av	Lodge Av	Non-Regional	P2	0.64
Sherwin Rd	Stevenson Rd	Dublin Av	Non-Regional	P2	0.49
Sherwin Rd	Sherwin Rd	Angood Av	Non-Regional	P2	0.01
Sherwin Rd	Notre Dame Av	Stevenson Rd	Non-Regional	P2	0.52
Sherwin Rd	Dublin Av	Saskatchewan Av	Non-Regional	P2	1.49

Silver Av	Roseberry St	Collegiate St	Non-Regional	P2	0.18
Silver Av	Collegiate St	Ferry Rd	Non-Regional	P2	0.18
Silver Av	Ferry Rd	Collegiate St	Non-Regional	P2	0.18
Silver Av	Queen St	King Edward St	Non-Regional	P2	0.20
Silver Av	Marjorie St	Parkview St	Non-Regional	P2	0.17
Silver Av	Marjorie St	Hampton St	Non-Regional	P2	0.16
Silver Av	Brooklyn St	King Edward St	Non-Regional	P2	0.16
Silver Av	Hampton St	Marjorie St	Non-Regional	P2	0.16
Silver Av	Berry St	Hampton St	Non-Regional	P2	0.21
Silver Av	Century St	Queen St	Non-Regional	P2	0.14
Silver Av	Roseberry St	Parkview St	Non-Regional	P2	0.18
Silver Av	Collegiate St	Roseberry St	Non-Regional	P2	0.18
Silver Av	Parkview St	Roseberry St	Non-Regional	P2	0.18
Silver Av	Parkview St	Marjorie St	Non-Regional	P2	0.17
Silver Av	Hampton St	Berry St	Non-Regional	P2	0.21
Silver Av	King Edward St	Brooklyn St	Non-Regional	P2	0.16
Silver Av	Brooklyn St	Berry St	Non-Regional	P2	0.16
Silver Av	Berry St	Brooklyn St	Non-Regional	P2	0.16
Silver Av	King Edward St	Queen St	Non-Regional	P2	0.20
Silver Av	Queen St	Century St	Non-Regional	P2	0.14
Silver Av	Ferry Rd	Inglewood St	Non-Regional	P2	0.17
Silver Av	Inglewood St	Ferry Rd	Non-Regional	P2	0.17
Silver Av	Silver Av	Inglewood St	Non-Regional	P2	0.02
Silver Av	Albany St	Lyle St	Non-Regional	P2	0.17
Silver Av	Sackville St	Truro St	Non-Regional	P2	0.15
Silver Av	Amherst St	Rutland St	Non-Regional	P2	0.17
Silver Av	Sackville St	Amherst St	Non-Regional	P2	0.16
Silver Av	Albany St	Truro St	Non-Regional	P2	0.16
Silver Av	Linwood St	Lyle St	Non-Regional	P2	0.16
Silver Av	Inglewood St	Rutland St	Non-Regional	P2	0.17
St James St	Richmond Wy	Wolseley Av W	Non-Regional	P2	0.17

St James St	Portage Av	Richmond Wy	Non-Regional	P2	0.10
St James St	Portage Av	Richmond Wy	Non-Regional	P2	0.15
St Matthews Av	Marjorie St	Parkview St	Non-Regional	P2	0.17
St Matthews Av	Brooklyn St	King Edward St	Non-Regional	P2	0.16
St Matthews Av	King Edward St	Brooklyn St	Non-Regional	P2	0.16
St Matthews Av	Collegiate St	Ferry Rd	Non-Regional	P2	0.18
St Matthews Av	Roseberry St	Parkview St	Non-Regional	P2	0.18
St Matthews Av	Roseberry St	Collegiate St	Non-Regional	P2	0.18
St Matthews Av	Marjorie St	Hampton St	Non-Regional	P2	0.16
St Matthews Av	Ferry Rd	Collegiate St	Non-Regional	P2	0.18
St Matthews Av	Hampton St	Marjorie St	Non-Regional	P2	0.16
St Matthews Av	Queen St	King Edward St	Non-Regional	P2	0.20
St Matthews Av	Brooklyn St	Berry St	Non-Regional	P2	0.16
St Matthews Av	Berry St	Brooklyn St	Non-Regional	P2	0.16
St Matthews Av	Century St	Queen St	Non-Regional	P2	0.13
St Matthews Av	Parkview St	Marjorie St	Non-Regional	P2	0.17
St Matthews Av	Collegiate St	Roseberry St	Non-Regional	P2	0.18
St Matthews Av	Hampton St	Berry St	Non-Regional	P2	0.21
St Matthews Av	Parkview St	Roseberry St	Non-Regional	P2	0.18
St Matthews Av	Berry St	Hampton St	Non-Regional	P2	0.21
St Matthews Av	King Edward St	Queen St	Non-Regional	P2	0.20
St Matthews Av	Queen St	Century St	Non-Regional	P2	0.13
St Matthews Av	Strathcona St	Empress St	Non-Regional	P2	0.37
St Matthews Av	Strathcona St	Empress St	Non-Regional	P2	0.38
St Matthews Av	Empress St	St Matthews Av	Non-Regional	P2	0.36
St Matthews Av	Spruce St	Valour Rd	Non-Regional	P2	0.31
St Matthews Av	Valour Rd	Ashburn St	Non-Regional	P2	0.30
St Matthews Av	Telfer St N	Spruce St	Non-Regional	P2	0.18
St Matthews Av	Clifton St	Telfer St N	Non-Regional	P2	0.32
St Matthews Av	Clifton St	Erin St	Non-Regional	P2	0.31
St Matthews Av	Erin St	Wall St	Non-Regional	P2	0.64

St Matthews Av	Ashburn St	Strathcona St	Non-Regional	P2	0.35
Stevenson Rd	Caithness Rd	Sherwin Rd	Non-Regional	P2	0.62
Valour Rd	Sargent Av	Wellington Av	Non-Regional	P2	0.77
Valour Rd	Dauphin Av	Ellice Av	Non-Regional	P2	0.26
Valour Rd	Riddle Av	Portage Av	Non-Regional	P2	0.32
Valour Rd	St Matthews Av	Dyson Av	Non-Regional	P2	0.33
Valour Rd	Wolever Av	Wolever Av	Non-Regional	P2	0.08
Valour Rd	Felix Av	St Matthews Av	Non-Regional	P2	0.31
Valour Rd	Dauphin Av	Sargent Av	Non-Regional	P2	0.53
Valour Rd	Dyson Av	Ellice Av	Non-Regional	P2	0.38
Valour Rd	Riddle Av	Wolever Av	Non-Regional	P2	0.63
Valour Rd	Felix Av	Wolever Av	Non-Regional	P2	0.46
Wellington Av	Ashburn St	Strathcona St	Non-Regional	P2	0.17
Wellington Av	Ashburn St	Valour Rd	Non-Regional	P2	0.15
Wellington Av	Wall St	Erin St	Non-Regional	P2	0.64
Wellington Av	Valour Rd	Spruce St	Non-Regional	P2	0.16
Wellington Av	Clifton St	Spruce St	Non-Regional	P2	0.25
Wellington Av	Clifton St	Erin St	Non-Regional	P2	0.15
Winchester St	Ness Av	Silver Av	Non-Regional	P2	0.91
Winchester St	Ness Av	Silver Av	Non-Regional	P2	0.09
Winston Rd	Parkside Dr	Assiniboine Av	Non-Regional	P3S	0.35
Winston Rd	Parkside Dr	Portage Av	Non-Regional	P3S	0.46
Wolever Av	Erin St	Wall St	Non-Regional	P2	0.32
Wolever Av	Clifton St	Erin St	Non-Regional	P3S	0.15
Wolseley Av W	St James St	End	Non-Regional	P2	0.34
Woodlawn St	Lodge Av	Portage Av	Non-Regional	P2	0.37
<b>Total</b>					<b>73.97</b>

## APPENDIX C – NORTH AREA (EAST) PRIORITY III STREETS

STREET NAME	FROM STREET	TO STREET	SNOW ROUTE	PRIORITY	LANE KM
Ada St	Alexander Av	Pacific Av W	N/A	P3	0.21
Ada St	Alexander Av	Logan Av	N/A	P3	0.16
Airport Rd	Stevenson Rd	End	N/A	P3	0.29
Airport Rd	Notre Dame Av	Stevenson Rd	N/A	P3	0.48
Albany St	Ness Av	Bruce Av	N/A	P3	0.64
Albany St	Ness Av	Silver Av	N/A	P3	0.84
Albany St	Bruce Av	Portage Av	N/A	P3	0.66
Albany St	Silver Av	End	N/A	P3	0.48
Alexander Av	Ada St	Dee St	N/A	P3	0.56
Alexander Av	Juba St	Keewatin St	N/A	P3	0.30
Alexander Av	Dee St	Juba St	N/A	P3	0.42
Alexander Av	Ada St	King Edward St	N/A	P3	0.54
Amherst St	Ness Av	Bruce Av	N/A	P3	0.64
Amherst St	Bruce Av	Portage Av	N/A	P3	0.61
Amherst St	Ness Av	Silver Av	N/A	P3	0.84
Ashburn St	Richard Av	End	N/A	P3	0.23
Ashburn St	Wolever Av	Riddle Av	N/A	P3	0.70
Ashburn St	Riddle Av	Portage Av	N/A	P3	0.37
Ashburn St	Ellice Av	St Matthews Av	N/A	P3	0.71
Ashburn St	Sargent Av	Wellington Av	N/A	P3	0.77
Ashburn St	Sargent Av	Ellice Av	N/A	P3	0.80
Ashburn St	St Matthews Av	Wolever Av	N/A	P3	0.77
Assiniboine Av	Cavell Dr	Winston Rd	N/A	P3	0.17
Assiniboine Av	Parkview St	Riveroaks Dr	N/A	P3	0.18
Assiniboine Av	Bourkevale Dr	Cavell Dr	N/A	P3	0.16
Assiniboine Av	Bourkevale Dr	Riveroaks Dr	N/A	P3	0.17
Assiniboine Av	Collegiate St	Ferry Rd	N/A	P3	0.19

Assiniboine Av	Collegiate St	Roseberry St	N/A	P3	0.19
Assiniboine Av	Parkview St	Roseberry St	N/A	P3	0.19
Bannatyne Av W	Oddy St	Tentler St	N/A	P3	0.25
Bannatyne Av W	Notre Dame Av	Tentler St	N/A	P3	0.98
Bannatyne Av W	King Edward St	Oddy St	N/A	P3	0.42
Becker St	Notre Dame Av	Mcdermot Av W	N/A	P3	0.16
Belvidere St	Bruce Av	Ness Av	N/A	P3	0.64
Belvidere St	Portage Av	Bruce Av	N/A	P3	1.00
Belvidere St	Ness Av	End	N/A	P3	0.20
Bourkevale Dr	Portage Av	Assiniboine Av	N/A	P3	0.70
Bradford St	Wellington Av	Sargent Av	N/A	P3	0.76
Bradford St	Saskatchewan Av	Wellington Av	N/A	P3	0.99
Brooklyn St	Ness Av	Silver Av	N/A	P3	0.84
Brooklyn St	Ness Av	Portage Av	N/A	P3	1.06
Brooklyn St	Silver Av	St Matthews Av	N/A	P3	0.66
Butterworth Ln	Pacific Av W	Ross Av W	N/A	P3	0.18
Cavell Dr	Assiniboine Av	Portage Av	N/A	P3	0.75
Century St	Century St	Madison St	N/A	P3	0.17
Clifton Pl	Clifton St	End	N/A	P3	0.17
Clifton St	Notre Dame Av	Richard Av	N/A	P3	1.12
Clifton St	Clifton St	Clifton St	N/A	P3	0.27
Clifton St	Barratt Av	Percy Av	N/A	P3	0.16
Clifton St	Clifton St	Clifton St	N/A	P3	0.27
Clifton St	Clifton St	Clifton St	N/A	P3	0.30
Clifton St	Clifton St	Clifton St	N/A	P3	0.28
Clifton St	Wolever Av	St Matthews Av	N/A	P3	0.76
Clifton St	Riddle Av	Portage Av	N/A	P3	0.18
Clifton St	Ellice Av	St Matthews Av	N/A	P3	0.71
Clifton St	Sargent Av	Ellice Av	N/A	P3	0.80
Clifton St	Wellington Av	Richard Av	N/A	P3	0.79
Clifton St	Riddle Av	Percy Av	N/A	P3	0.16

Collegiate St	Ness Av	Silver Av	N/A	P3	0.84
Collegiate St	Ness Av	Portage Av	N/A	P3	1.19
Collegiate St	Silver Av	St Matthews Av	N/A	P3	0.67
Collegiate St	Assiniboine Av	Portage Av	N/A	P3	0.84
Conway St	Lodge Av	Bruce Av	N/A	P3	0.64
Conway St	Lodge Av	Portage Av	N/A	P3	0.58
Conway St	Bruce Av	Ness Av	N/A	P3	0.64
Dauphin Av	Valour Rd	Spruce St	N/A	P3	0.16
Davidson St	Lodge Av	Portage Av	N/A	P3	0.83
Davidson St	Ness Av	Bruce Av	N/A	P3	0.64
Davidson St	Lodge Av	End	N/A	P3	0.14
Dee St	Alexander Av	Logan Av	N/A	P3	0.16
Deer Lodge Pl	Portage Av	Deer Lodge Pl	N/A	P3	0.34
Deer Lodge Pl	Deer Lodge Pl	Deer Lodge Pl	N/A	P3	0.24
Deer Lodge Pl	Portage Av	Deer Lodge Pl	N/A	P3	0.54
Deer Lodge Pl	Deer Lodge Pl	Deer Lodge Pl	N/A	P3	0.13
Deer Lodge Pl	Deer Lodge Pl	Deer Lodge Pl	N/A	P3	0.13
Denson Pl	Wolever Av	Riddle Av	N/A	P3	0.74
Douglas Park Rd	Portage Av	Portage Av	N/A	P3	0.99
Duffield St	Lodge Av	Bruce Av	N/A	P3	0.64
Duffield St	Ness Av	Bruce Av	N/A	P3	0.64
Duffield St	Portage Av	Lodge Av	N/A	P3	0.43
Dundas St	Sargent Av	Yukon Av	N/A	P3	0.26
Dyson Av	Valour Rd	Spruce St	N/A	P3	0.16
Elgin Av W	Keewatin St	Juba St	N/A	P3	0.58
Elgin Av W	Oddy St	Juba St	N/A	P3	0.67
Elgin Av W	King Edward St	Oddy St	N/A	P3	0.59
Elkhorn St	Pacific Av W	End	N/A	P3	0.13
Felix Av	Valour Rd	Spruce St	N/A	P3	0.16
Ferry Rd	Ellice Av	End	N/A	P3	0.29
Ferry Rd	Assiniboine Av	End	N/A	P3	0.10

Fidler Av	Mount Royal Rd	Mount Royal Rd	N/A	P3	1.06
Field St	Dublin Av	End	N/A	P3	0.26
Garden Rd	Portage Av	Riverbend Cr	N/A	P3	0.29
Garrioch Av	Mount Royal Rd	Mount Royal Rd	N/A	P3	1.06
Guildford St	Bruce Av	Lodge Av	N/A	P3	0.64
Guildford St	Bruce Av	Ness Av	N/A	P3	0.64
Guilford St	Ness Av	End	N/A	P3	0.15
Haddow St	Pacific Av W	End	N/A	P3	0.13
Hampton St	Silver Av	St Matthews Av	N/A	P3	0.35
Hampton St	Ness Av	Silver Av	N/A	P3	0.84
Hampton St	Silver Av	St Matthews Av	N/A	P3	0.32
Hampton St	Portage Av	Ness Av	N/A	P3	1.12
Harmon Av	Mount Royal Rd	Lodge Av	N/A	P3	0.61
Hearne Av	Lodge Av	Mount Royal Rd	N/A	P3	0.61
Hind Av	Lodge Av	Mount Royal Rd	N/A	P3	0.60
Hoban St	Pacific Av W	End	N/A	P3	0.11
Inglewood St	Silver Av	Silver Av	N/A	P3	0.01
Inglewood St	Bruce Av	Ness Av	N/A	P3	0.64
Inglewood St	Bruce Av	Portage Av	N/A	P3	0.58
Inglewood St	Silver Av	Ness Av	N/A	P3	0.83
Juba St	Pacific Av W	Ross Av W	N/A	P3	0.18
Juba St	Elgin Av W	Ross Av W	N/A	P3	0.17
Juba St	Elgin Av W	William Av W	N/A	P3	0.17
Juba St	Alexander Av	Pacific Av W	N/A	P3	0.21
Juba St	William Av W	End	N/A	P3	0.08
Kane Av	Mount Royal Rd	Mount Royal Rd	N/A	P3	1.05
Keating Av	Mount Royal Rd	Lodge Av	N/A	P3	0.60
Kensington St	Silver Av	Silver Av	N/A	P3	0.02
Kensington St	Ness Av	Silver Av	N/A	P3	0.84
Kensington St	Silver Av	St Matthews Av	N/A	P3	0.67
King Edward St	Silver Av	St Matthews Av	N/A	P3	0.66

King Edward St	Ness Av	Silver Av	N/A	P3	0.84
King Edward St	Portage Av	Ness Av	N/A	P3	1.04
King Edward St	King Edward St	King Edward St E	N/A	P3	0.17
King Edward St	St Matthews Av	King Edward St E	N/A	P3	0.69
Legion Av	Oddy St	Tentler St	N/A	P3	0.26
Legion Av	Oddy St	King Edward St	N/A	P3	0.32
Library Pl	Portage Av	End	N/A	P3	0.16
Linwood St	Ness Av	Silver Av	N/A	P3	0.84
Lismore Av	Oddy St	King Edward St	N/A	P3	0.33
Lismore Av	Tentler St	Lane	N/A	P3	0.14
Lyle St	Silver Av	Ness Av	N/A	P3	0.84
Lyle St	Portage Av	End	N/A	P3	0.38
Madison St	Ness Av	Silver Av	N/A	P3	0.84
Madison St	Silver Av	Silver Av	N/A	P3	0.02
Madison St	Century St	St Matthews Av	N/A	P3	0.64
Madison St	St Matthews Av	St Matthews Av	N/A	P3	0.03
Madison St	Silver Av	St Matthews Av	N/A	P3	0.70
Mandeville St	Bruce Av	Portage Av	N/A	P3	0.99
Mandeville St	Ness Av	Bruce Av	N/A	P3	0.64
Marjorie St	Portage Av	Ness Av	N/A	P3	1.14
Marjorie St	Silver Av	St Matthews Av	N/A	P3	0.67
Marjorie St	Ness Av	Silver Av	N/A	P3	0.84
Marjorie St	Ellice Av	St Matthews Av	N/A	P3	0.82
McDermot Av W	Tentler St	Becker St	N/A	P3	0.35
McDermot Av W	King Edward St	Oddy St	N/A	P3	0.32
McDermot Av W	Becker St	Oddy St	N/A	P3	0.26
McLaughlin Av	Mount Royal Rd	Bruce Av	N/A	P3	0.61
Milt Stegall Dr	Ellice Av	Yukon Av	N/A	P3	0.54
Milt Stegall Dr	Yukon Av	Sargent Av	N/A	P3	0.26
Milt Stegall Dr	Ellice Av	St Matthews Av	N/A	P3	0.71
Milt Stegall Dr	St Matthews Av	St Matthews Av	N/A	P3	0.03

Miriam Av	Ryan St	End	N/A	P3	0.16
Moorgate St	Bruce Av	Ness Av	N/A	P3	0.64
Moorgate St	Bruce Av	Lodge Av	N/A	P3	0.64
Moorgate St	Lodge Av	Portage Av	N/A	P3	0.53
Mount Royal Cr	Mount Royal Cr	Mount Royal Cr	N/A	P3	0.23
Mount Royal Cr	Portage Av	Portage Av	N/A	P3	0.69
Oddy St	Legion Av	Mcdermot Av W	N/A	P3	0.16
Oddy St	Legion Av	Lismore Av	N/A	P3	0.16
Oddy St	Elgin Av W	Ross Av W	N/A	P3	0.17
Oddy St	Bannatyne Av W	William Av W	N/A	P3	0.17
Oddy St	Elgin Av W	William Av W	N/A	P3	0.17
Oddy St	Ross Av W	Pacific Av W	N/A	P3	0.19
Oddy St	Bannatyne Av W	Lismore Av	N/A	P3	0.11
Orange St	Bangor Av	Dublin Av	N/A	P3	0.49
Overdale St	Ness Av	Bruce Av	N/A	P3	0.64
Overdale St	Bruce Av	Portage Av	N/A	P3	0.98
Overdale St	Portage Av	Bruce Av	N/A	P3	0.97
Overdale St	Bruce Av	Ness Av	N/A	P3	0.64
Pacific Av W	Haddow St	King Edward St	N/A	P3	0.16
Pacific Av W	Haddow St	Piccadilly St	N/A	P3	0.14
Pacific Av W	Keewatin St	Willowbank St	N/A	P3	0.27
Pacific Av W	Elkhorn St	Juba St	N/A	P3	0.14
Pacific Av W	Ada St	Butterworth Ln	N/A	P3	0.09
Pacific Av W	Ada St	Piccadilly St	N/A	P3	0.14
Pacific Av W	Butterworth Ln	Hoban St	N/A	P3	0.07
Pacific Av W	Juba St	Willowbank St	N/A	P3	0.14
Pacific Av W	Oddy St	Elkhorn St	N/A	P3	0.51
Palliser Av	Mount Royal Rd	Mount Royal Rd	N/A	P3	1.06
Parent St	Logan Av	Miriam Av	N/A	P3	0.24
Parkview St	Silver Av	St Matthews Av	N/A	P3	0.67
Parkview St	Ness Av	Silver Av	N/A	P3	0.84

Parkview St	Ness Av	Portage Av	N/A	P3	1.15
Parkview St	Assiniboine Av	Portage Av	N/A	P3	0.76
Percy Av	Clifton St	Spruce St	N/A	P3	0.25
Piccadilly St	Pacific Av W	End	N/A	P3	0.13
Portage Av	Portage Av	Riverbend Cr	N/A	P3	0.11
Portage Av	Riverbend Cr	End	N/A	P3	0.10
Powell Av	Border St	King Edward St	N/A	P3	0.68
Powell Av	Border St	End	N/A	P3	0.10
Queen St	Ness Av	Century St SB to Queen St SB	N/A	P3	0.73
Queen St	St Matthews Av	St Matthews Av	N/A	P3	0.02
Queen St	Silver Av	St Matthews Av	N/A	P3	0.66
Queen St	Century St SB to Queen St SB	Queen St	N/A	P3	0.09
Queen St	Silver Av	Ness Av	N/A	P3	0.83
Richard Av	Ashburn St	Valour Rd	N/A	P3	0.18
Richard Av	Clifton St	Erin St	N/A	P3	0.15
Richard Av	Erin St	Wall St	N/A	P3	0.32
Richard Av	Spruce St	Valour Rd	N/A	P3	0.19
Richard Av	Ashburn St	Valour Rd	N/A	P3	0.09
Richard Av	Ashburn St	Valour Rd	N/A	P3	0.03
Richard Av	Clifton St	Erin St	N/A	P3	0.15
Richard Av	Clifton St	Spruce St	N/A	P3	0.25
Richmond St	Richmond Wy	Wolseley Av W	N/A	P3	0.16
Richmond St	Portage Av	Richmond Wy	N/A	P3	0.24
Richmond Wy	St James St	Richmond St	N/A	P3	0.18
Riddle Av	Ashburn St	Valour Rd	N/A	P3	0.15
Riddle Av	Strathcona St	Ashburn St	N/A	P3	0.18
Riddle Av	Valour Rd	Spruce St	N/A	P3	0.16
Riddle Av	Denson Pl	Strathcona St	N/A	P3	0.14
Riddle Av	Clifton St	Spruce St	N/A	P3	0.25
Riverbend Cr	Garden Rd	Portage Av	N/A	P3	0.08
Riverbend Cr	Garden Rd	Portage Av	N/A	P3	0.47

Riverbend Cr	Garden Rd	Portage Av	N/A	P3	0.44
Riveroaks Dr	Portage Av	Assiniboine Av	N/A	P3	0.72
Roseberry St	Silver Av	St Matthews Av	N/A	P3	0.67
Roseberry St	Portage Av	Ness Av	N/A	P3	1.17
Roseberry St	Ness Av	Silver Av	N/A	P3	0.84
Roseberry St	Assiniboine Av	Portage Av	N/A	P3	0.80
Ross Av W	Juba St	Keewatin St	N/A	P3	0.49
Ross Av W	Oddy St	Juba St	N/A	P3	0.67
Rowand Av	Mount Royal Rd	Mount Royal Rd	N/A	P3	1.05
Rutland St	Ness Av	Silver Av	N/A	P3	0.84
Rutland St	Bruce Av	Ness Av	N/A	P3	0.64
Rutland St	Silver Av	End	N/A	P3	0.21
Rutland St	Bruce Av	Portage Av	N/A	P3	0.60
Ryan St	Miriam Av	End	N/A	P3	0.53
Ryan St	Logan Av	Miriam Av	N/A	P3	0.16
Sackville St	Bruce Av	Portage Av	N/A	P3	0.63
Sackville St	Ness Av	Silver Av	N/A	P3	0.84
Sackville St	Bruce Av	Ness Av	N/A	P3	0.64
Sanford St	Sargent Av	Wellington Av	N/A	P3	0.77
Selkirk Av	Brookside Bv	End	N/A	P3	0.11
Sharp Bv	Portage Av	End	N/A	P3	0.19
Spruce St	Notre Dame Av	Richard Av	N/A	P3	1.23
Spruce St	Richard Av	Wellington Av	N/A	P3	0.79
Spruce St	Sargent Av	Wellington Av	N/A	P3	0.77
Spruce St	Percy Av	Riddle Av	N/A	P3	0.16
Spruce St	Dyson Av	Ellice Av	N/A	P3	0.38
Spruce St	St Matthews Av	Felix Av	N/A	P3	0.31
Spruce St	Wolever Av	Barratt Av	N/A	P3	0.29
Spruce St	St Matthews Av	Dyson Av	N/A	P3	0.33
Spruce St	Riddle Av	Percy Av	N/A	P3	0.00
Spruce St	Barratt Av	Percy Av	N/A	P3	0.16

Spruce St	Dauphin Av	Ellice Av	N/A	P3	0.26
Spruce St	Sargent Av	Dauphin Av	N/A	P3	0.53
Spruce St	Riddle Av	Portage Av	N/A	P3	0.27
Spruce St	Felix Av	Telfer St N	N/A	P3	0.36
Spruce St	Telfer St N	Wolever Av	N/A	P3	0.18
Stevenson Rd	Airport Rd	End	N/A	P3	0.17
Stevenson Rd	Caithness Rd	End	N/A	P3	0.12
Strathcona St	St Matthews Av	Wolever Av	N/A	P3	0.77
Strathcona St	Denson Pl	Wolever Av	N/A	P3	0.70
Strathcona St	Sargent Av	Wellington Av	N/A	P3	0.77
Strathcona St	Sargent Av	Ellice Av	N/A	P3	0.80
Strathcona St	Portage Av	Riddle Av	N/A	P3	0.44
Strathcona St	Ellice Av	St Matthews Av	N/A	P3	0.71
Strathcona St	Wellington Av	End	N/A	P3	0.08
Sylvan Wy	Omands Creek Bv	End	N/A	P3	0.39
Tabu Av	Border St	End	N/A	P3	0.10
Telfer St N	St Matthews Av	Ellice Av	N/A	P3	0.71
Telfer St N	St Matthews Av	Spruce St	N/A	P3	0.75
Tentler St	Bannatyne Av W	William Av W	N/A	P3	0.17
Tentler St	Mcdermot Av W	Legion Av	N/A	P3	0.16
Tentler St	Lismore Av	Bannatyne Av W	N/A	P3	0.14
Tentler St	Notre Dame Av	Mcdermot Av W	N/A	P3	0.16
Tentler St	Legion Av	Lismore Av	N/A	P3	0.02
Traill Av	Mount Royal Rd	Portage Av	N/A	P3	0.66
Truro St	Bruce Av	Ness Av	N/A	P3	0.64
Truro St	Ness Av	Silver Av	N/A	P3	0.84
Turner Av	Mount Royal Rd	Mount Royal Rd	N/A	P3	1.06
Tylehurst St	Portage Av	Wolseley Av W	N/A	P3	0.38
Valour Rd	Richard Av	Wellington Av	N/A	P3	0.88
Valour Rd	Valour Rd	Valour Rd	N/A	P3	0.48
Valour Rd	Richard Av	Notre Dame Av	N/A	P3	1.27

Vavasour Av	Bruce Av	Mount Royal Rd	N/A	P3	0.61
Wellington Av	Sanford St	End	N/A	P3	0.09
Wellington Av	Strathcona St	End	N/A	P3	0.09
Wellington Av	Empress St	Sanford St	N/A	P3	0.25
William Av W	Oddy St	Tentler St	N/A	P3	0.26
William Av W	Juba St	Keewatin St	N/A	P3	0.66
William Av W	Juba St	Tentler St	N/A	P3	0.41
William Av W	King Edward St	Oddy St	N/A	P3	0.51
Willowbank St	Pacific Av W	End	N/A	P3	0.14
Winchester St	Portage Av	Bruce Av	N/A	P3	0.88
Winchester St	Bruce Av	Ness Av	N/A	P3	0.64
Winfield Wy	Omands Creek Bv	End	N/A	P3	0.39
Wolever Av	Ashburn St	Valour Rd	N/A	P3	0.15
Wolever Av	Ashburn St	Strathcona St	N/A	P3	0.18
Wolever Av	Spruce St	Valour Rd	N/A	P3	0.16
Wolever Av	Denson Pl	Strathcona St	N/A	P3	0.16
Wolseley Av W	Richmond St	St James St	N/A	P3	0.18
Wolseley Av W	Richmond St	Tylehurst St	N/A	P3	0.19
Woodlawn St	Ness Av	Bruce Av	N/A	P3	0.64
Woodlawn St	Ness Av	End	N/A	P3	0.39
Woodlawn St	Lodge Av	Bruce Av	N/A	P3	0.64
Yukon Av	Milt Stegall Dr	St James St	N/A	P3	0.36
Yukon Av	Milt Stegall Dr	Dundas St	N/A	P3	0.18
Yukon Av	Dundas St	Empress St	N/A	P3	0.17
				<b>Total</b>	<b>137.81</b>

## APPENDIX D – HISTORICAL WEATHER DATA

YEAR	TOTAL ANNUAL SNOWFALL [CENTIMETER]
1974-1975	125.2
1975-1976	136.2
1976-1977	64.4
1977-1978	73.1
1978-1979	148.6
1979-1980	108
1980-1981	72.5
1981-1982	77.2
1982-1983	77.4
1983-1984	56.3
1984-1985	93.2
1985-1986	124.2
1986-1987	120.2
1987-1988	65.4
1988-1989	153.6
1989-1990	96.4
1990-1991	120.5
1991-1992	133
1992-1993	111.6
1993-1994	82
1994-1995	88.6
1995-1996	202.5
1996-1997	211.4
1997-1998	104.1
1998-1999	144.7
1999-2000	71.4
2000-2001	109.7
2001-2002	105.4
2002-2003	90.9
2003-2004	149.8
2004-2005	136.6
2005-2006	151.2
2006-2007	135.6
2007-2008	111.9
2008-2009	129.2
2009-2010	81.6
2010-2011	149.1
2011-2012	72.6
2012-2013	151
2013-2014	177
2014-2015	82.0
2015-2016	124.0
2016-2017	81.2
2017-2018	48.8