



THE CITY OF WINNIPEG

BID OPPORTUNITY

BID OPPORTUNITY NO. 401-2018

**SNOW CLEARING ON REGIONAL AND LOCAL STREETS, BACK LANES AND
SIDEWALKS WITHIN THE EAST AREA (SOUTH WEST)**

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, BACK LANES AND SIDEWALKS WITHIN THE EAST AREA (SOUTH WEST)

B2. SUBMISSION DEADLINE

- B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, June 25, 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 at 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
- 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, residential streets, back lanes and sidewalks listed in Appendix A, Appendix B, Appendix C, shown on Drawing 1, Drawing 2 and Drawing 3, 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 season 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) 2.7 metre width snow clearing on back lanes identified on Drawing 2;
- (e) 1.5 metre width snow clearing on sidewalks on Priority II and III streets identified on Drawing 3;
- (f) opening and keeping streets and lanes open during a major snowfall and/or snow blizzard;
- (g) 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;
- (h) 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, back lanes shown on Drawing 2, and sidewalks shown on Drawing 3 using City forces. Routine winter maintenance includes:

- (a) curb lane spot plowing of street sections;
- (b) full width spot plowing of street sections;
- (c) spot plowing of back lane sections;
- (d) spot plowing of sidewalk sections;

- (e) curb lane truck plowing;
- (f) full width truck plowing;
- (g) widening for snow storage;
- (h) snow hauling;
- (i) 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	East Area (South West) Snow Clearing Priority Streets
2	East Area (South West) Snow Clearing Back Lanes
3	East Area (South West) Snow Clearing Sidewalks

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 Back lane and sidewalk snow clearing operations will normally be undertaken concurrently with street and street priority operations. However, the Contract Administrator may direct otherwise and the contractor shall conform to all such directives.
- E2.1.22 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.
- E2.1.23 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 will consist of moving the container behind area affected by snow clearing and then placing back to the 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 15th 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.

E2.5 BACK LANES (see Drawing 2)

E2.5.1 Back lanes shall normally be cleared after:

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

E2.5.2 Back lanes shall normally be cleared concurrently with Priority I and II street snow clearing operations and shall normally be undertaken during the day shift (0700 hours to 1900 hours) unless otherwise directed by the Contract Administrator.

E2.5.3 Back lanes shall be completed within a forty-eight (48) hour period following the commencement time designated by the Contract Administrator.

E2.5.4 Back lanes shall be cleared to a width of 2.7m and maintained to a compacted snow surface as defined in D3.

E2.5.5 Payment for back lane snow clearing will be made at the unit price per kilometre and all work herein described shall be considered incidental to the contract and no further compensation will be considered.

E2.6 SIDEWALKS (see Drawing 3)

E2.6.1 Sidewalks shall normally be cleared after:

- (a) a recent snow accumulation of 5 cm or more for sidewalks on Priority II streets and 8 cm or more for sidewalks on Priority III streets;
- (b) poor sidewalk conditions caused by less than 5 cm of recent snow accumulation accompanied by snow drifting, and
- (c) gradual accumulation of snowfall resulting in poor sidewalk conditions.

E2.6.2 Sidewalks on Priority II streets shall normally be cleared concurrently with Priority II street clearing operations.

E2.6.3 Sidewalk snow clearing on Priority II streets shall be completed within a thirty-six (36) hour period following the commencement time designated by the Contract Administrator. Sidewalk snow clearing on Priority III streets shall be completed within one hundred and twenty (120) hours of the commencement time designated by the Contract Administrator.

E2.6.4 Sidewalks in the immediate vicinity of schools, hospitals and seniors complexes shall be given their highest priority when scheduling and routing sidewalk clearing operations. Where a senior complex is situated on a Priority III street, the sidewalk to the most logical Priority I or II street shall be cleared within thirty-six (36) hours of any walk clearing operation.

E2.6.5 Sidewalks shall be cleared to a width of 1.5 m and maintained to a compacted snow surface.

E2.6.6 Payment for sidewalk snow clearing will be made at the unit price per kilometre and all work herein described shall be considered incidental to the contract and no further compensation will be considered.

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) **J14 Sidewalk Plows:** Trackless Tractors for Sidewalk Snow Clearing;
 - (i) Snow Blade – maximum 60" width;
 - (ii) Two way blade controlled inside cab; and
 - (iii) Minimum 30" blade height.
 - (i) **V4 Sidewalk Blowers:** Snow Blowers Mounted on Trackless Tractors;
 - (i) Cutting Width – Maximum 60";
 - (ii) Cutting Height – Approximately 30";
 - (iii) Discharge Chute – Minimum 270-degree rotation; and
 - (iv) Full remote control from inside cab for chute while blowing snow.
 - (j) **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) 9 motor graders;
- (b) 12 loaders;
- (c) 6 truck plows;
- (d) 2 sidewalk snow plows; and
- (e) 1 sidewalk snow blower.

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, sidewalks and back lanes 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, sidewalks and back lanes open during the snow storm shall not be part of the time limits established in E2.2, E2.3, E2.4, E2.5, and E2.6.

E7.3 During or after extreme snowfall and/or blizzards, the Contract Administrator may require that Regional and Collector streets, sidewalks and back lanes 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, sidewalks and back lanes are based on the following:

- (a) **Item No. 1 - Priority I (Regional) Street System:** The approximate quantity is based on 97.64 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 66.24 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 219.63 lane km of street for three (3) clearing operations of 0-10 cm;
- (d) **Item No. 4 – Back Lanes:** The approximate quantity is based on 40.99 linear km of back lanes for six (6) clearing operations of 0-10 cm;
- (e) **Item No. 5 – Sidewalks (on Priority II Streets):** The approximate quantity is based on 45.39 km of sidewalks for eight (8) clearing operations of 0-10 cm; and
- (f) **Item No. 6 – Sidewalks (on Priority III Streets):** The approximate quantity is based on 46.53 km of sidewalks 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, Drawing 2 indicates the inventory of back lanes, and Drawing 3 indicates the inventory of sidewalks. In the event that streets, back lanes or sidewalks 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 and back lane 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 Payment will be made for back lane and sidewalk clearing operations based on the unit price per kilometre. The payment for such clearing operations will be based on multiplying the unit bid price for Item No. 4, 5, or 6 on Form B: Prices by the length in kilometres of back lanes and sidewalk cleared.
- E10.5 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.
- E10.6 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 $\text{Payment} = R \times L \times F$.

- E10.7 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.
- E10.8 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.
- E10.9 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.
- E10.10 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 E10.10.1, E10.10.2, E10.10.3, E10.10.4, and E10.10.5.

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 th 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 th 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.
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E10.10.1 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).

E10.10.2 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).

E10.10.3 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 28th, 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 28th 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 × lane kilometres × 1.000).

E10.10.4 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 15th 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 20th 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 15th and the commencement of the Recent Accumulation on January 20th. 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 × lane kilometres × 1.000).

Assume that in the above scenario the snowfall on January 20th 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 x lane kilometres x 1.235).

E10.10.5 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 15th 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 20th 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 15th and the commencement of the Recent Accumulation on January 20th. 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 x lane kilometres x 2.227).

- E10.11 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 E2.6.6 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.
- E10.12 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.
- E10.13 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".
- E10.14 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.
- E10.14.1 Payment for Work done shall be as provided in E8 and all such payments shall be deducted from the Guaranteed Minimum Amount.
- E10.14.2 On December 31st, 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.
- E10.14.3 On February 28th, 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.
- E10.14.4 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.

- E10.14.5 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.
- E10.14.6 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.
- E10.14.7 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.
- E10.14.8 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 1st of the previous year to October 1st 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 1st and on January 1st 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 1st the average price for the month of September will be used and for January 1st 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 30th following the snow clearing season. Damages not rectified by June 30th 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 15th 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 For sidewalks and back lanes, the penalty shall be in the amount of \$1,500.00 or an amount equal to twenty-five percent (25%) of the unit price per kilometre times the kilometres not satisfactorily completed, whichever is greater for each back lane.
- E14.1.4 Streets, sidewalks and back lanes 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 – EAST AREA (SOUTH WEST) PRIORITY I STREETS

STREET NAME	FROM STREET	TO STREET	SNOW ROUTE	PRIORITY	LANE KM
* Access Rd	Dakota St	Dakota St	Regional	P1	0.03
* Access Rd	Dakota St	Dakota St	Regional	P1	0.03
* Arden Av	St Marys Rd	St Marys Rd	Regional	P1	0.02
* Avalon Rd	St Marys Rd	St Marys Rd	Regional	P1	0.03
* Barrington Av	Dunkirk Dr	Dunkirk Dr	Regional	P1	0.03
* Barton Av	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Beliveau Rd	Dakota St	Dakota St	Regional	P1	0.03
* Beliveau Rd	St Marys Rd	St Marys Rd	Regional	P1	0.02
* Beliveau Rd E	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Berrydale Av	St Marys Rd	St Marys Rd	Regional	P1	0.02
* Berrydale Av	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Bishop Grandin Bv	St Marys Rd	St Marys Rd	Regional	P1	0.03
* Bishop Grandin Bv	St Marys Rd	St Marys Rd	Regional	P1	0.04
* Bishop Grandin Bv	Dakota St	Dakota St	Regional	P1	0.03
* Bonita Av	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Britannica Rd	St Marys Rd	St Marys Rd	Regional	P1	0.03
* Britannica Rd	St Marys Rd	St Marys Rd	Regional	P1	0.03
* Burland Av	St Marys Rd	St Marys Rd	Regional	P1	0.03
* Burland Av	St Marys Rd	St Marys Rd	Regional	P1	0.03
* Chesterfield Av	Dakota St	Dakota St	Regional	P1	0.02
* Chesterfield Av	St Marys Rd	St Marys Rd	Regional	P1	0.02
* Craddock Av	St Marys Rd	St Marys Rd	Regional	P1	0.02
* Dakota St	Aldgate Rd	John Forsyth Rd	Regional	P1	0.82
* Dakota St	Hyatt Pl	Novavista Dr	Regional	P1	0.17
* Dakota St	Hyatt Pl	Paddington Rd	Regional	P1	1.47
* Dakota St	Greenwood Av	Hazelwood Cr	Regional	P1	0.17
* Dakota St	Warde Av	John Forsyth Rd	Regional	P1	0.74
* Dakota St	Hazelwood Av	Greenwood Av	Regional	P1	0.17

* Dakota St	Dakota St	Meadowood Dr	Regional	P1	0.04
* Dakota St	Bishop Grandin Bv	Access Rd	Regional	P1	0.62
* Dakota St	Access Rd	Bishop Grandin Bv	Regional	P1	0.62
* Dakota St	Access Rd	Meadowood Dr	Regional	P1	0.47
* Dakota St	Dakota St	Dakota St	Regional	P1	0.02
* Dakota St	Hyatt Pl	Southglen Bv	Regional	P1	1.47
* Dakota St	Dakota St	Southglen Bv	Regional	P1	0.53
* Dakota St	Dakota St	Warde Av	Regional	P1	0.58
* Dakota St	John Forsyth Rd	John Forsyth Rd	Regional	P1	0.02
* Dakota St	Abbotsford Cr	Greenwood Av	Regional	P1	0.17
* Dakota St	Warde Av	Dakota St	Regional	P1	0.30
* Dakota St	Dakota St	John Forsyth Rd	Regional	P1	0.11
* Dakota St	Access Rd	Access Rd	Regional	P1	0.02
* Dakota St	Meadowood Dr	Meadowood Dr	Regional	P1	0.02
* Dakota St	Novavista Dr	Hawkins Cr	Regional	P1	0.42
* Dakota St	Meadowood Dr	Abbotsford Cr	Regional	P1	0.23
* Dakota St	Dakota St	John Forsyth Rd	Regional	P1	0.14
* Dakota St	Dakota St	Paddington Rd	Regional	P1	0.12
* Dakota St	Meadowood Dr	Access Rd	Regional	P1	0.47
* Dakota St	Dakota St	Warde Av	Regional	P1	0.09
* Dakota St	Dakota St	Aldgate Rd	Regional	P1	0.12
* Dakota St	Bishop Grandin Bv	Bishop Grandin Bv	Regional	P1	0.04
* Dakota St	Dakota St	Dakota St	Regional	P1	0.02
* Dakota St	Access Rd	Access Rd	Regional	P1	0.02
* Dakota St	Bishop Grandin Bv	Bishop Grandin Bv	Regional	P1	0.04
* Dakota St	Greenwood Av	Wales Av	Regional	P1	0.17
* Dakota St	Hyatt Pl	Novavista Dr	Regional	P1	0.17
* Dakota St	Hazelwood Av	Woodydell Av	Regional	P1	0.17
* Dakota St	Meadowood Dr	Meadowood Dr	Regional	P1	0.02
* Dakota St	Wales Av	Meadowood Dr	Regional	P1	0.23
* Dakota St	Hawkins Cr	Woodydell Av	Regional	P1	0.17
* Dakota St	Dakota St	Warde Av	Regional	P1	0.14

* Dakota St	Novavista Dr	Hawkins Cr	Regional	P1	0.42
* Dakota St	Woodydell Cr	Hawkins Cr	Regional	P1	0.17
* Dakota St	Hazelwood Av	Woodydell Av	Regional	P1	0.17
* Dakota St	Paddington Rd	Warde Av	Regional	P1	1.00
* Dakota St	Dakota St	Dakota St	Regional	P1	0.03
* Dakota St	Chesterfield Av	Bishop Grandin Bv	Regional	P1	0.47
* Dakota St	Beliveau Rd	St Marys Rd	Regional	P1	0.32
* Dakota St	Bishop Grandin Bv	Chesterfield Av	Regional	P1	0.47
* Dakota St	Chesterfield Av	Beliveau Rd	Regional	P1	0.16
* Dakota St	St Marys Rd	St Marys Rd	Regional	P1	0.02
* Dakota St	Dakota St	St Marys Rd	Regional	P1	0.06
* Dakota St	St Marys Rd	St Marys Rd	Regional	P1	0.02
* Dakota St	Beliveau Rd	Chesterfield Av	Regional	P1	0.16
* Dakota St	Dakota St	Dakota St	Regional	P1	0.02
* Dakota St	St Marys Rd	Beliveau Rd	Regional	P1	0.30
* Dunkirk Dr	St Vital Bridge	Kingston Rw WB to Dunkirk Dr	Regional	P1	0.48
* Dunkirk Dr	Dunkirk Dr SB to Kingston Rw	Kingston Rw WB to Dunkirk Dr	Regional	P1	0.11
* Dunkirk Dr	Edinburgh St	Dunkirk Dr NB to Kingston Rw	Regional	P1	0.12
* Dunkirk Dr	Fermor Av	Dunkirk Dr NB to Kingston Rw	Regional	P1	0.70
* Dunkirk Dr	Edinburgh St	Dunkirk Dr	Regional	P1	0.46
* Dunkirk Dr	Kingston Rw WB to Dunkirk Dr	Fermor Av	Regional	P1	0.72
* Dunkirk Dr	Dunkirk Dr	Dunkirk Dr	Regional	P1	0.03
* Dunkirk Dr	Moore Av	Hastings Bv	Regional	P1	0.30
* Dunkirk Dr	Dunkirk Dr	Dunkirk Dr	Regional	P1	0.03
* Dunkirk Dr	Fermor Av	West Fernwood Av	Regional	P1	1.05
* Dunkirk Dr	Fermor Av	West Fernwood Av	Regional	P1	1.07
* Dunkirk Dr	Norberry Dr	Kenwood Pl	Regional	P1	0.65
* Dunkirk Dr	St Vital Rd	Barrington Av	Regional	P1	0.15
* Dunkirk Dr	Parkville Dr	St Marys Rd	Regional	P1	0.23
* Dunkirk Dr	Parkville Dr	St Marys Rd	Regional	P1	0.25
* Dunkirk Dr	Barrington Av	St Vital Rd	Regional	P1	0.15
* Dunkirk Dr	Dunkirk Dr	St Marys Rd	Regional	P1	0.07

* Dunkirk Dr	Barrington Av	Woodbury Dr	Regional	P1	0.15
* Dunkirk Dr	Hastings Bv	Moore Av	Regional	P1	0.30
* Dunkirk Dr	Woodbury Dr	Moore Av	Regional	P1	0.15
* Dunkirk Dr	Hastings Bv	Maralbo Av W	Regional	P1	0.16
* Dunkirk Dr	Kenwood Pl	St Vital Rd	Regional	P1	0.23
* Dunkirk Dr	West Fernwood Av	Norberry Dr	Regional	P1	0.37
* Dunkirk Dr	Moore Av	Oustic Av W	Regional	P1	0.15
* Dunkirk Dr	Barrington Av	Oustic Av W	Regional	P1	0.15
* Dunkirk Dr	Fermor Av	Fermor Av	Regional	P1	0.05
* Dunkirk Dr	Hastings Bv	Parkville Dr	Regional	P1	0.30
* Dunkirk Dr	Parkville Dr	Maralbo Av W	Regional	P1	0.14
* Dunkirk Dr	Norberry Dr	St Vital Rd	Regional	P1	0.89
* Dunkirk Dr	Norberry Dr	West Fernwood Av	Regional	P1	0.38
* Dunkirk Dr NB to Kingston Rw	Dunkirk Dr	Elm Park Rd	Regional	P1	0.17
* Dunkirk Dr NB to Kingston Rw	Elm Park Rd	Kingston Rw	Regional	P1	0.10
* Dunkirk Dr SB to Kingston Rw	Dunkirk Dr	Kingston Rw	Regional	P1	0.27
* Dunkirk Dr SB to Kingston Rw	Dunkirk Dr	Kingston Rw	Regional	P1	0.12
* Edinburgh St	Kingston Rw	Dunkirk Dr	Regional	P1	0.57
* Fermor Av	Fermor Av	St David Rd	Regional	P1	0.04
* Fermor Av	Fermor Av	St Annes Rd	Regional	P1	0.08
* Fermor Av	Dunkirk Dr	Dunkirk Dr	Regional	P1	0.06
* Fernwood Av	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Fernwood Av	St Marys Rd	St Marys Rd	Regional	P1	0.03
* Forrester Av	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Frederick Av	St Marys Rd	St Marys Rd	Regional	P1	0.02
* Glen Av	St Marys Rd	St Marys Rd	Regional	P1	0.02
* Gosford Av	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Granby By	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Greendell Av	St Marys Rd	St Marys Rd	Regional	P1	0.03
* Greenwood Av	Dakota St	Dakota St	Regional	P1	0.03
* Greenwood Av	St Marys Rd	St Marys Rd	Regional	P1	0.03
* Hastings Bv	Dunkirk Dr	Dunkirk Dr	Regional	P1	0.03

* Havelock Av	St Marys Rd	St Marys Rd	Regional	P1	0.02
* Hawkins Cr	Dakota St	Dakota St	Regional	P1	0.03
* Hazelwood Av	Dakota St	Dakota St	Regional	P1	0.03
* Hindley Av	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Hindley Av	St Marys Rd	St Marys Rd	Regional	P1	0.03
* Hull Av	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Hull Av	St Marys Rd	St Marys Rd	Regional	P1	0.02
* Hyatt Pl	Dakota St	Dakota St	Regional	P1	0.03
* John Bruce Rd	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Jubilee Av	Osborne St	Osborne St	Regional	P1	0.03
* Kingston Rw WB to Dunkirk Dr	Kingston Rw	Kingston Rw WB to Dunkirk Dr	Regional	P1	0.30
* Kingston Rw WB to Dunkirk Dr	Kingston Rw WB to Dunkirk Dr	Dunkirk Dr	Regional	P1	0.30
* Kingston Rw WB to Dunkirk Dr	Dunkirk Dr SB to Kingston Rw	Kingston Rw WB to Dunkirk Dr	Regional	P1	0.23
* Lavalee Rd	St Annes Rd	St Annes Rd	Regional	P1	0.02
* Lennox Av	St Marys Rd	St Marys Rd	Regional	P1	0.03
* Lennox Av	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Maralbo Av E	St Marys Rd	St Marys Rd	Regional	P1	0.03
* Meadowood Dr	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Meadowood Dr	Dakota St	Dakota St	Regional	P1	0.03
* Meadowood Dr	St Marys Rd	St Marys Rd	Regional	P1	0.02
* Meadowood Dr	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Meadowood Dr	St Marys Rd	St Marys Rd	Regional	P1	0.02
* Meadowood Dr	Dakota St	Dakota St	Regional	P1	0.03
* Moore Av	Dunkirk Dr	Dunkirk Dr	Regional	P1	0.03
* Morrow Av	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Niakwa Rd	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Nichol Av	St Marys Rd	St Marys Rd	Regional	P1	0.02
* Nicollet Av	St Marys Rd	St Marys Rd	Regional	P1	0.03
* Norberry Dr	Dunkirk Dr	Dunkirk Dr	Regional	P1	0.03
* Normand Av	St Marys Rd	St Marys Rd	Regional	P1	0.03
* Normand Park Dr	St Marys Rd	St Marys Rd	Regional	P1	0.03
* Novavista Dr	St Annes Rd	St Annes Rd	Regional	P1	0.03

* Novavista Dr	Dakota St	Dakota St	Regional	P1	0.03
* Novavista Dr	St Marys Rd	St Marys Rd	Regional	P1	0.03
* Novavista Dr	St Marys Rd	St Marys Rd	Regional	P1	0.03
* Osborne St	Jubilee Av	Osborne St SB to Churchill Dr	Regional	P1	0.18
* Osborne St	Hyatt Pl	Southglen Bv	Regional	P1	0.43
* Osborne St	Osborne St	St Vital Bridge	Regional	P1	0.53
* Osborne St	Clare Av	Churchill Dr WB to Osborne St	Regional	P1	0.18
* Osborne St	Osborne St	Osborne St	Regional	P1	0.03
* Osborne St	Clare Av	Jubilee Av	Regional	P1	0.10
* Oustic Av E	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Oustic Av E	St Marys Rd	St Marys Rd	Regional	P1	0.03
* Parkville Dr	Dunkirk Dr	Dunkirk Dr	Regional	P1	0.03
* Poplarwood Av	St Marys Rd	St Marys Rd	Regional	P1	0.02
* Poplarwood Av	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Portland Av	St Marys Rd	St Marys Rd	Regional	P1	0.02
* Redview Dr	St Marys Rd	St Marys Rd	Regional	P1	0.03
* Richfield Av	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Riel Av	St Marys Rd	St Marys Rd	Regional	P1	0.02
* River Rd	Mcnulty Cr	Millfield Dr	Regional	P1	0.52
* River Rd	Harry Collins Av	Winslow Dr	Regional	P1	0.19
* River Rd	St Marys Rd	Darwin St	Regional	P1	0.33
* River Rd	River Rd	Bishop Grandin Bv EB	Regional	P1	0.17
* River Rd	Bishop Grandin Bv EB	Avalon Rd	Regional	P1	0.29
* River Rd	Avalon Rd	Blackmore Av	Regional	P1	0.06
* River Rd	Riel Av	River Pointe Dr	Regional	P1	0.10
* River Rd	River Rd	Bishop Grandin Bv	Regional	P1	0.06
* River Rd	River Rd	St Marys Rd	Regional	P1	0.11
* River Rd	Darwin St	Nicollet Av	Regional	P1	0.50
* River Rd	Blackmore Av	Riel Av	Regional	P1	0.13
* River Rd	Harry Collins Av	River Pointe Dr	Regional	P1	0.53
* River Rd	Winslow Dr	Settlers Rd	Regional	P1	0.21
* River Rd	Mcnulty Cr	Settlers Rd	Regional	P1	0.31

* River Rd	Millfield Dr	Mcnulty Pl	Regional	P1	0.20
* River Rd	Minnetonka St	Nicollet Av	Regional	P1	0.56
* River Rd	Mcnulty Pl	Minnetonka St	Regional	P1	0.47
* River Rd	Bishop Grandin Bv WB	River Rd	Regional	P1	0.21
* River Rd	Hardy By	Harry Wyatt Pl	Regional	P1	0.17
* River Rd	Bishop Grandin Bv	St Michael Rd	Regional	P1	0.54
* River Rd	Arden Av	River Ln	Regional	P1	0.20
* River Rd	St. Vital Park West Entrance	St Michael Rd	Regional	P1	0.64
* River Rd	River Rd	Bishop Grandin Bv	Regional	P1	0.07
* River Rd	Harry Wyatt Pl	Falconer By	Regional	P1	0.16
* River Rd	Kilmarnock By	Kilmarnock By	Regional	P1	0.17
* River Rd	St. Vital Park East Entrance	Falconer By	Regional	P1	0.13
* River Rd	Arden Av	River Ln	Regional	P1	0.70
* River Rd	St. Vital Park East Entrance	Falconer By	Regional	P1	0.08
* River Rd	River Park Cs	St Vital Rd	Regional	P1	0.28
* River Rd	Falconer By	Kilmarnock By	Regional	P1	0.17
* River Rd	Arden Av	River Ln	Regional	P1	0.02
* River Rd	Moore Av	River Park Cs	Regional	P1	0.18
* River Rd	Kilmarnock By	St. Vital Park West Entrance	Regional	P1	0.26
* Sadler Av	St Marys Rd	St Marys Rd	Regional	P1	0.02
* Sadler Av	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Southglen Bv	Dakota St	Dakota St	Regional	P1	0.03
* St Annes Rd	Gosford Av	Woodydell Av	Regional	P1	0.17
* St Annes Rd	Granby By	Wales Av	Regional	P1	0.17
* St Annes Rd	Forrester Av	Wales Av	Regional	P1	0.17
* St Annes Rd	Aldgate Rd	Aldgate Rd	Regional	P1	0.02
* St Annes Rd	Warde Av	Aldgate Rd	Regional	P1	1.07
* St Annes Rd	Aldgate Rd	Warde Av	Regional	P1	1.07
* St Annes Rd	Southglen Bv	Southglen Bv	Regional	P1	0.03
* St Annes Rd	Shorehill Dr	Shorehill Dr	Regional	P1	0.03
* St Annes Rd	Warde Av	Southglen Bv	Regional	P1	0.96
* St Annes Rd	St Annes Rd	Aldgate Rd	Regional	P1	0.12

* St Annes Rd	Sterling Av	Bishop Grandin Bv	Regional	P1	0.27
* St Annes Rd	John Bruce Rd	Meadowood Dr	Regional	P1	0.19
* St Annes Rd	Richfield Av	Sterling Av	Regional	P1	0.08
* St Annes Rd	Creek Bend Rd	Aldgate Rd	Regional	P1	1.01
* St Annes Rd	Aldgate Rd	Aldgate Rd	Regional	P1	0.02
* St Annes Rd	Richfield Av	Meadowood Dr	Regional	P1	0.61
* St Annes Rd	Woodydell Av	Novavista Dr	Regional	P1	0.80
* St Annes Rd	Meadowood Dr	John Bruce Rd	Regional	P1	0.19
* St Annes Rd	St Annes Rd	St Annes Rd	Regional	P1	0.02
* St Annes Rd	St Annes Rd	St Annes Rd	Regional	P1	0.03
* St Annes Rd	St Annes Rd	St Annes Rd	Regional	P1	0.03
* St Annes Rd	St Annes Rd	St Annes Rd	Regional	P1	0.03
* St Annes Rd	Compark Rd	Southglen Bv	Regional	P1	0.65
* St Annes Rd	St Annes Rd	St Annes Rd	Regional	P1	0.03
* St Annes Rd	Novavista Dr	Compark Rd	Regional	P1	0.59
* St Annes Rd	Southglen Bv	Compark Rd	Regional	P1	0.65
* St Annes Rd	Novavista Dr	Compark Rd	Regional	P1	0.59
* St Annes Rd	Southglen Bv	Warde Bv	Regional	P1	0.97
* St Annes Rd	Warde Av	Warde Av	Regional	P1	0.03
* St Annes Rd	Warde Av	Warde Av	Regional	P1	0.03
* St Annes Rd	Creek Bend Rd	Harrison Rd	Regional	P1	0.44
* St Annes Rd	Novavista Dr	Woodydell Av	Regional	P1	0.80
* St Annes Rd	Bishop Grandin Bv	Bishop Grandin Bv	Regional	P1	0.04
* St Annes Rd	Bishop Grandin Bv	Bishop Grandin Bv	Regional	P1	0.04
* St Annes Rd	St Annes Rd	Meadowood Dr	Regional	P1	0.06
* St Annes Rd	Southglen Bv	Warde Av	Regional	P1	0.09
* St Annes Rd	Wales Av	Forrester Av	Regional	P1	0.17
* St Annes Rd	Gosford Av	Granby By	Regional	P1	0.17
* St Annes Rd	Meadowood Dr	Meadowood Dr	Regional	P1	0.01
* St Annes Rd	Forrester Av	John Bruce Rd	Regional	P1	0.06
* St Annes Rd	John Bruce Rd	Forrester Av	Regional	P1	0.06
* St Annes Rd	Wales Av	Granby By	Regional	P1	0.17

* St Annes Rd	Granby By	Gosford Av	Regional	P1	0.17
* St Annes Rd	Sterling Av	Richfield Av	Regional	P1	0.09
* St Annes Rd	Meadowood Dr	Meadowood Dr	Regional	P1	0.01
* St Annes Rd	Woodydell Av	Gosford Av	Regional	P1	0.17
* St Annes Rd	St Annes Rd	St Annes Rd	Regional	P1	0.03
* St Annes Rd	St Annes Rd	St Annes Rd	Regional	P1	0.03
* St Annes Rd	St Annes Rd	St Annes Rd	Regional	P1	0.03
* St Annes Rd	St Annes Rd	St Annes Rd	Regional	P1	0.03
* St Annes Rd	Meadowood Dr	Richfield Av	Regional	P1	0.61
* St Annes Rd	St Annes Rd	St Annes Rd	Regional	P1	0.03
* St Annes Rd	Bishop Grandin Bv	Sterling Av	Regional	P1	0.27
* St Annes Rd	St Annes Rd	St Annes Rd	Regional	P1	0.03
* St Annes Rd	Creek Bend Rd	Aldgate Rd	Regional	P1	0.53
* St Annes Rd	Bonita Av	Clayton Dr	Regional	P1	0.10
* St Annes Rd	Clayton Dr	Barton Av	Regional	P1	0.08
* St Annes Rd	Portland Av	Poplarwood Av	Regional	P1	0.16
* St Annes Rd	Berrydale Av	Oustic Av E	Regional	P1	0.15
* St Annes Rd	Worthington Av	Beliveau Rd E	Regional	P1	0.48
* St Annes Rd	Fermor Av	Niakwa Rd	Regional	P1	0.28
* St Annes Rd	Ashton Av	Barton Av	Regional	P1	0.18
* St Annes Rd	Rose Av	Bishop Grandin Bv	Regional	P1	0.29
* St Annes Rd	Niakwa Rd	Hull Av	Regional	P1	0.30
* St Annes Rd	Bishop Grandin Bv	Lavalee Rd	Regional	P1	0.40
* St Annes Rd	St Annes Rd	St Annes Rd	Regional	P1	0.03
* St Annes Rd	Niakwa Rd	Fermor Av	Regional	P1	0.29
* St Annes Rd	Hull Av	Niakwa Rd	Regional	P1	0.29
* St Annes Rd	Barton Av	Fernwood Av	Regional	P1	0.36
* St Annes Rd	St Annes Rd	St Annes Rd	Regional	P1	0.02
* St Annes Rd	St Annes Rd	St Annes Rd	Regional	P1	0.03
* St Annes Rd	St Annes Rd	Fermor Av	Regional	P1	0.07
* St Annes Rd	Beliveau Rd E	Lavalee Rd	Regional	P1	0.23
* St Annes Rd	Lennox Av	Fernwood Av	Regional	P1	0.18

* St Annes Rd	Poplarwood Av	Wingham Av	Regional	P1	0.14
* St Annes Rd	Poplarwood Av	Berrydale Av	Regional	P1	0.23
* St Annes Rd	Fernwood Av	Lennox Av	Regional	P1	0.17
* St Annes Rd	Hull Av	Morrow Av	Regional	P1	0.08
* St Annes Rd	Oustic Av E	Sadler Av	Regional	P1	0.15
* St Annes Rd	Hindley Av	Worthington Av	Regional	P1	0.30
* St Annes Rd	Hindley Av	Sadler Av	Regional	P1	0.30
* St Annes Rd	Beliveau Rd E	Worthington Av	Regional	P1	0.49
* St Annes Rd	Berrydale Av	Bayfield Av	Regional	P1	0.16
* St Annes Rd	Lavalee Rd	Beliveau Rd E	Regional	P1	0.22
* St Annes Rd	Sadler Av	Oustic Av E	Regional	P1	0.15
* St Annes Rd	Wingham Av	Bonita Av	Regional	P1	0.19
* St Annes Rd	Bayfield Av	Poplarwood Av	Regional	P1	0.08
* St Annes Rd	Morrow Av	Hull Av	Regional	P1	0.10
* St Annes Rd	Barton Av	Havelock Av	Regional	P1	0.17
* St Annes Rd	Havelock Av	Portland Av	Regional	P1	0.16
* St Annes Rd	Oustic Av E	Berrydale Av	Regional	P1	0.15
* St Annes Rd	Worthington Av	Hindley Av	Regional	P1	0.30
* St Annes Rd	Sadler Av	Hindley Av	Regional	P1	0.30
* St Annes Rd	Lavalee Rd	Rose Av	Regional	P1	0.11
* St Annes Rd	Morrow Av	Lennox Av	Regional	P1	0.11
* St Annes Rd	Lennox Av	Morrow Av	Regional	P1	0.12
* St Annes Rd	Fernwood Av	Ashton Av	Regional	P1	0.18
* St Marys Rd	Woodlawn Av	Meadowood Dr	Regional	P1	0.20
* St Marys Rd	St Marys Rd	St Marys Rd	Regional	P1	0.03
* St Marys Rd	St Marys Rd	Redview Dr	Regional	P1	0.27
* St Marys Rd	Meadowood Dr	Woodlawn Av	Regional	P1	0.20
* St Marys Rd	Frobisher Rd	PTH 100	Regional	P1	0.17
* St Marys Rd	Meadowood Dr	Riel Av	Regional	P1	0.41
* St Marys Rd	Britannica Rd	Normand Av	Regional	P1	1.19
* St Marys Rd	Novavista Av	Nicollet Av	Regional	P1	0.17
* St Marys Rd	Britannica Rd	Novavista Av	Regional	P1	1.20

* St Marys Rd	River Rd	Rivergate Dr	Regional	P1	1.02
* St Marys Rd	Bishop Grandin Bv	Avalon Rd	Regional	P1	0.28
* St Marys Rd	Avalon Rd	Bishop Grandin Bv	Regional	P1	0.29
* St Marys Rd	Avalon Rd	Riel Av	Regional	P1	0.59
* St Marys Rd	Riel Av	Avalon Rd	Regional	P1	0.59
* St Marys Rd	Normand Park Dr	Warde Av	Regional	P1	0.54
* St Marys Rd	Burland Av	Normand Park Dr	Regional	P1	0.48
* St Marys Rd	Bishop Grandin Bv	Bishop Grandin Bv	Regional	P1	0.04
* St Marys Rd	Normand Av	Britannica Rd	Regional	P1	1.21
* St Marys Rd	Meadowood Dr	Meadowood Dr	Regional	P1	0.02
* St Marys Rd	Woodlawn Av	Greenwood Av	Regional	P1	0.15
* St Marys Rd	Greendell Av	Woodydell Av	Regional	P1	0.31
* St Marys Rd	St Marys Rd	Avalon Rd	Regional	P1	0.13
* St Marys Rd	Frobisher Rd	Redview Dr	Regional	P1	0.11
* St Marys Rd	Warde Av	Normand Av	Regional	P1	0.77
* St Marys Rd	Greenwood Av	Greendell Av	Regional	P1	0.06
* St Marys Rd	Nicollet Av	Novavista Av	Regional	P1	0.17
* St Marys Rd	St Marys Rd	Burland Av	Regional	P1	0.06
* St Marys Rd	Britannica Rd	Britannica Rd	Regional	P1	0.01
* St Marys Rd	St Marys Rd	St Marys Rd	Regional	P1	0.03
* St Marys Rd	St Marys Rd	St Marys Rd	Regional	P1	0.03
* St Marys Rd	St Marys Rd	Warde Av	Regional	P1	0.07
* St Marys Rd	Britannica Rd	Britannica Rd	Regional	P1	0.02
* St Marys Rd	Riel Av	Riverbend Av	Regional	P1	0.42
* St Marys Rd	Novavista Av	Novavista Av	Regional	P1	0.02
* St Marys Rd	Woodydell Av	Greendell Av	Regional	P1	0.31
* St Marys Rd	Greenwood Av	Woodlawn Av	Regional	P1	0.15
* St Marys Rd	Burland Av	Redview Dr	Regional	P1	0.21
* St Marys Rd	Warde Av	Warde Av	Regional	P1	0.03
* St Marys Rd	Warde Av	Warde Av	Regional	P1	0.03
* St Marys Rd	Burland Av	Burland Av	Regional	P1	0.02
* St Marys Rd	Warde Av	Normand Park Dr	Regional	P1	0.54

* St Marys Rd	Burland Av	Burland Av	Regional	P1	0.02
* St Marys Rd	Woodydell Av	Nicollet Av	Regional	P1	0.09
* St Marys Rd	Greendell Av	Greenwood Av	Regional	P1	0.06
* St Marys Rd	Nicollet Av	Woodydell Av	Regional	P1	0.09
* St Marys Rd	River Rd	River Rd	Regional	P1	0.02
* St Marys Rd	Riverbend Av	Riverbend Av	Regional	P1	0.02
* St Marys Rd	Bishop Grandin Bv	Bishop Grandin Bv	Regional	P1	0.04
* St Marys Rd	Rivergate Dr	Britannica Rd	Regional	P1	0.19
* St Marys Rd	St Marys Rd	St Marys Rd	Regional	P1	0.02
* St Marys Rd	St Marys Rd	St Marys Rd	Regional	P1	0.04
* St Marys Rd	Normand Av	Warde Av	Regional	P1	0.77
* St Marys Rd	Normand Park Dr	Burland Av	Regional	P1	0.49
* St Marys Rd	St Marys Rd	St Marys Rd	Regional	P1	0.05
* St Marys Rd	St Marys Rd	St Marys Rd	Regional	P1	0.05
* St Marys Rd	Frobisher Rd	Redview Dr	Regional	P1	1.56
* St Marys Rd	Redview Dr	Burland Av	Regional	P1	0.22
* St Marys Rd	St Marys Rd	Dunkirk Dr	Regional	P1	0.05
* St Marys Rd	Portland Av	Havelock Av	Regional	P1	0.18
* St Marys Rd	Craddock Av	Bishop Grandin Bv	Regional	P1	0.42
* St Marys Rd	Worthington Av	Maralbo Av W	Regional	P1	0.18
* St Marys Rd	Maralbo Av W	Parkville Dr	Regional	P1	0.17
* St Marys Rd	Parkville Dr	Dunkirk Dr	Regional	P1	0.28
* St Marys Rd	Bishop Grandin Bv	Craddock Av	Regional	P1	0.39
* St Marys Rd	Lennox Av	Hull Av	Regional	P1	0.22
* St Marys Rd	Hindley Av	Sadler Av	Regional	P1	0.35
* St Marys Rd	Sadler Av	Oustic Av E	Regional	P1	0.17
* St Marys Rd	Fermor Av	Glen Av	Regional	P1	0.22
* St Marys Rd	St Marys Rd	Dunkirk Dr	Regional	P1	0.05
* St Marys Rd	Dunkirk Dr	Dunkirk Dr	Regional	P1	0.03
* St Marys Rd	Moore Av	Oustic Av W	Regional	P1	0.17
* St Marys Rd	Chesterfield Av	Chesterfield Av	Regional	P1	0.08
* St Marys Rd	Dakota St	Parkville Dr	Regional	P1	0.30

* St Marys Rd	Arden Av	Dakota St	Regional	P1	0.15
* St Marys Rd	Dunkirk Dr	Arden Av	Regional	P1	0.14
* St Marys Rd	St Marys Rd	St Marys Rd	Regional	P1	0.02
* St Marys Rd	Beliveau Rd	Chesterfield Av	Regional	P1	0.23
* St Marys Rd	St Michael Rd	Craddock Av	Regional	P1	0.15
* St Marys Rd	Lennox Av	Fernwood Av	Regional	P1	0.19
* St Marys Rd	Bronstone Bv	West Fernwood Av	Regional	P1	0.19
* St Marys Rd	Moore Av	Hastings Bv	Regional	P1	0.35
* St Marys Rd	Poplarwood Av	Portland Av	Regional	P1	0.18
* St Marys Rd	Fermor Av	Fermor Av	Regional	P1	0.03
* St Marys Rd	Hull Av	Nichol Av	Regional	P1	0.24
* St Marys Rd	Poplarwood Av	St Vital Rd	Regional	P1	0.09
* St Marys Rd	St Vital Rd	Poplarwood Av	Regional	P1	0.09
* St Marys Rd	Molgat Av	Portland Av	Regional	P1	0.17
* St Marys Rd	Oustic Av E	Berrydale Av	Regional	P1	0.16
* St Marys Rd	Nichol Av	Glen Av	Regional	P1	0.25
* St Marys Rd	Glenview Av	Bronstone Bv	Regional	P1	0.22
* St Marys Rd	Westdale Pl	Norberry Dr	Regional	P1	0.24
* St Marys Rd	Thorndale Av	Frederick Av	Regional	P1	0.24
* St Marys Rd	Berrydale Av	St Vital Rd	Regional	P1	0.17
* St Marys Rd	Portland Av	Poplarwood Av	Regional	P1	0.18
* St Marys Rd	Norberry Dr	Molgat Av	Regional	P1	0.22
* St Marys Rd	Craddock Av	St Michael Rd	Regional	P1	0.15
* St Marys Rd	Fermor Av	Fermor Av	Regional	P1	0.03
* St Marys Rd	Nichol Av	Glenview Av	Regional	P1	0.25
* St Marys Rd	Dakota St	Dakota St	Regional	P1	0.03
* St Marys Rd	Thorndale Av	Fernwood Av	Regional	P1	0.19
* St Marys Rd	West Fernwood Av	Westdale Pl	Regional	P1	0.19
* St Marys Rd	Arden Av	Beliveau Rd	Regional	P1	0.17
* St Marys Rd	Chesterfield Av	Beliveau Rd	Regional	P1	0.23
* St Marys Rd	Beliveau Rd	Arden Av	Regional	P1	0.17
* St Marys Rd	Chesterfield Av	St Michael Rd	Regional	P1	0.08

* St Marys Rd	Glen Av	Nichol Av	Regional	P1	0.25
* St Marys Rd	Havelock Av	Frederick Av	Regional	P1	0.22
* St Marys Rd	Barrington Av	Oustic Av W	Regional	P1	0.16
* St Marys Rd	Hastings Bv	Maralbo St W	Regional	P1	0.18
* St Marys Rd	Maralbo St E	Hindely Av	Regional	P1	0.18
* St Marys Rd	Glen Av	Fermor Av	Regional	P1	0.23
* St Marys Rd	St Vital Rd	Barrington Av	Regional	P1	0.17
* St Michael Rd	St Marys Rd	St Marys Rd	Regional	P1	0.02
* St Vital Bridge	Dunkirk Dr	Osborne St	Regional	P1	0.31
* St Vital Bridge	Dunkirk Dr	Osborne St	Regional	P1	0.31
* St Vital Bridge	Dunkirk Dr	Osborne St	Regional	P1	0.33
* St Vital Bridge	Dunkirk Dr	Osborne St	Regional	P1	0.33
* St Vital Rd	Dunkirk Dr	Dunkirk Dr	Regional	P1	0.03
* St Vital Rd	St Marys Rd	St Marys Rd	Regional	P1	0.02
* Sterling Av	St Annes Rd	St Annes Rd	Regional	P1	0.02
* Thorndale Av	St Marys Rd	St Marys Rd	Regional	P1	0.03
* Van Hull Wy	St Mary's Rd	Van Hull Wy	Regional	P1	0.07
* Wales Av	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Wales Av	Dakota St	Dakota St	Regional	P1	0.03
* Warde Av	Barlow Cr	Ashworth St S	Regional	P1	0.61
* Warde Av	Paddington Rd	St Marys Rd	Regional	P1	1.22
* Warde Av	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Warde Av	Barlow Cr	Dakota St	Regional	P1	0.72
* Warde Av	Warde Av	St Marys Rd	Regional	P1	0.43
* Warde Av	Warde Av	Dakota St	Regional	P1	0.11
* Warde Av	Dakota St	John Forsyth Rd	Regional	P1	0.96
* Warde Av	Warde Av	Dakota St	Regional	P1	0.11
* Warde Av	St Marys Rd	St Marys Rd	Regional	P1	0.03
* Warde Av	Dakota St	Dakota St	Regional	P1	0.02
* Warde Av	St Marys Rd	Warde Av	Regional	P1	0.06
* Warde Av	St Marys Rd	St Marys Rd	Regional	P1	0.03
* Warde Av	John Forsyth Rd	Paddington Rd	Regional	P1	0.97

* Warde Av	Warde Av	Warde Av	Regional	P1	0.04
* Warde Av	Lanyon Dr	Ashworth St S	Regional	P1	0.58
* Warde Av	Warde Av	St Annes Rd	Regional	P1	0.14
* Warde Av	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Warde Av	St Annes Rd	Lanyon Dr	Regional	P1	0.57
* Warde Av	Lanyon Dr	St Annes Rd	Regional	P1	0.41
* West Fernwood Av	Dunkirk Dr	Dunkirk Dr	Regional	P1	0.03
* Woodlawn Av	St Marys Rd	St Marys Rd	Regional	P1	0.02
* Woodydell Av	Dakota St	Dakota St	Regional	P1	0.03
* Woodydell Av	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Woodydell Av	St Marys Rd	St Marys Rd	Regional	P1	0.03
* Worthington Av	St Annes Rd	St Annes Rd	Regional	P1	0.03
* Worthington Av	St Marys Rd	St Marys Rd	Regional	P1	0.03
Total					97.64

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 - EAST AREA (SOUTH WEST) PRIORITY II STREETS

STREET NAME	FROM STREET	TO STREET	SNOW ROUTE	PRIORITY	LANE KM
Access Rd	Meadowood Dr	Access Rd	Non-Regional	P2	0.02
Ashworth St	Brixford Cr	Novavista Dr	Non-Regional	P2	0.39
Ashworth St	Greenwood Av	Brentford Rd	Non-Regional	P2	0.17
Ashworth St	Compark Rd	Harlesden Dr	Non-Regional	P2	0.06
Ashworth St	Greenwood Av	Wales Av	Non-Regional	P2	0.17
Ashworth St	Harlesden Dr	Novavista Dr	Non-Regional	P2	0.49
Ashworth St	Meadowood Dr	Wales Av	Non-Regional	P2	0.42
Ashworth St	Whitley Dr	Brixford Cr	Non-Regional	P2	0.08
Ashworth St	Brentford Rd	Woodydell Av	Non-Regional	P2	0.17
Ashworth St	Whitley Dr	Woodydell Av	Non-Regional	P2	0.33
Ashworth St S	Southglen Bv	Satinwood Pl	Non-Regional	P2	0.25
Ashworth St S	Eastmount Dr	Hedgestone Cr	Non-Regional	P2	0.18
Ashworth St S	Warde Av	Eastmount Dr	Non-Regional	P2	0.12
Ashworth St S	Satinwood Pl	Alderbrook Rd	Non-Regional	P2	0.21
Avalon Rd	Fernleaf Dr	Sandralin By	Non-Regional	P2	0.19
Avalon Rd	Darwin St	Glen Meadow St	Non-Regional	P2	0.52
Avalon Rd	Fernleaf Dr	Warrendale Pl	Non-Regional	P2	0.09
Avalon Rd	Twin Pine Rd	Sandralin By	Non-Regional	P2	0.10
Avalon Rd	Mcmurray By	Twin Pine Rd	Non-Regional	P2	0.16
Avalon Rd	Glen Meadow St	St Marys Rd	Non-Regional	P2	0.54
Avalon Rd	Mcmurray By	River Rd	Non-Regional	P2	0.32
Avalon Rd	Buckley By	Cromer By	Non-Regional	P2	0.18
Avalon Rd	Golden Willow Cr	Warrendale Pl	Non-Regional	P2	0.21
Avalon Rd	Cromer By	Metz St	Non-Regional	P2	0.08
Avalon Rd	Metz St	Darwin St	Non-Regional	P2	0.50
Avalon Rd	Buckley By	Minnetonka St	Non-Regional	P2	0.16
Avalon Rd	Golden Willow Cr	Oakleaf Dr	Non-Regional	P2	0.15

Avalon Rd	Minnetonka St	Oakleaf Dr	Non-Regional	P2	0.41
Beliveau Rd	Behnke Rd	Trafford Pk	Non-Regional	P2	0.38
Beliveau Rd	Dakota St	Eric St	Non-Regional	P2	0.76
Beliveau Rd	Beechtree Cr	Eric St	Non-Regional	P2	0.37
Beliveau Rd	Beechtree Cr	Behnke Rd	Non-Regional	P2	0.17
Beliveau Rd	Beechtree Cr	Kearney St	Non-Regional	P2	0.65
Beliveau Rd	Beechtree Cr	Kearney St	Non-Regional	P2	0.20
Beliveau Rd	St Annes Rd	Trafford Pk	Non-Regional	P2	0.17
Britannica Rd	Briar Del Pl	St Marys Rd	Non-Regional	P2	0.29
Britannica Rd	Britannica Rd	Rivergate Dr	Non-Regional	P2	0.05
Britannica Rd	Sandrington Dr	Paddington Rd	Non-Regional	P2	0.34
Britannica Rd	Briar Del Pl	Sandrington Dr	Non-Regional	P2	0.13
Britannica Rd	Briar Del Pl	St Marys Rd	Non-Regional	P2	0.15
Compark Rd	St Annes Rd	Ashworth St	Non-Regional	P2	1.01
Compark Rd	St Annes Rd	St Annes Rd	Non-Regional	P2	0.02
Dallner By	Shorehill Dr	Shorehill Dr	Non-Regional	P2	0.01
Darwin St	Bright Oaks By	Bright Oaks By	Non-Regional	P3S	0.19
Darwin St	Bright Oaks By	Riel Av	Non-Regional	P3S	0.17
Darwin St	Avalon Rd	Bright Oaks By	Non-Regional	P3S	0.19
Dunkirk Dr	Dunkirk Dr	St Vital Rd	Non-Regional	P2	0.05
Edenwood Pl	Shorehill Dr	Shorehill Dr	Non-Regional	P2	0.03
Greenwood Av	Wyoming St	Dakota St	Non-Regional	P3S	0.41
Greenwood Av	Abbotsford Cr	St Marys Rd	Non-Regional	P3S	0.20
Greenwood Av	Wyoming St	Iowa St	Non-Regional	P3S	0.41
Greenwood Av	Abbotsford Cr	Iowa St	Non-Regional	P3S	0.61
Harbinger By	Shorehill Dr	Shorehill Dr	Non-Regional	P2	0.03
Harbinger By	Shorehill Dr	Shorehill Dr	Non-Regional	P2	0.03
Hastings Bv	Dunkirk Dr	End	Non-Regional	P3S	0.14
Havelock Av	Bonita Av	St Andrew Rd	Non-Regional	P3S	0.37
Havelock Av	St Andrew Rd	St George Rd	Non-Regional	P3S	0.40
High Ridge Rd	Shorehill Dr	Shorehill Dr	Non-Regional	P2	0.03

High Ridge Rd	Shorehill Dr	Shorehill Dr	Non-Regional	P2	0.03
John Bruce Rd E	Shorehill Dr	Shorehill Dr	Non-Regional	P2	0.03
John Forsyth Rd	Thornewood Av	Paddington Rd	Non-Regional	P2	0.43
John Forsyth Rd	Ashford Dr	Warde Av	Non-Regional	P2	0.57
John Forsyth Rd	Ashford Dr	Thornewood Av	Non-Regional	P2	0.26
Meadowood Dr	Meadowood Dr	St Annes Rd	Non-Regional	P2	0.06
Meadowood Dr	St Marys Rd	Dakota St	Non-Regional	P2	1.52
Meadowood Dr	Dakota St	St Marys Rd	Non-Regional	P2	1.51
Meadowood Dr	Knightsbridge Dr	St Annes Rd	Non-Regional	P2	0.82
Meadowood Dr	Woodford BY	Woodford By	Non-Regional	P2	0.16
Meadowood Dr	Ashworth St	Knightsbridge Dr	Non-Regional	P2	0.30
Meadowood Dr	Brentford Rd	Lodgepine By	Non-Regional	P2	0.16
Meadowood Dr	Plumtree Pl	Dakota St	Non-Regional	P2	0.17
Meadowood Dr	Meadowood Dr	St Marys Rd	Non-Regional	P2	0.03
Meadowood Dr	Meadowood Dr	Wales Av	Non-Regional	P2	0.03
Meadowood Dr	Ashworth St	Woodford By	Non-Regional	P2	0.18
Meadowood Dr	Hollyhock Rd	Wakopa St	Non-Regional	P2	0.12
Meadowood Dr	Lodgepine By	Lodgepine By	Non-Regional	P2	0.12
Meadowood Dr	Wakopa St	Lodgepine By	Non-Regional	P2	0.16
Meadowood Dr	Brentford Rd	Knightsbridge Dr	Non-Regional	P2	0.22
Meadowood Dr	Dakota St	Meadowood Dr	Non-Regional	P2	0.17
Meadowood Dr	Meadowood Dr	Meadowood Dr	Non-Regional	P2	0.03
Meadowood Dr	Meadowood Dr	Meadowood Dr	Non-Regional	P2	0.02
Meadowood Dr	Hollyhock Rd	Plumtree Pl	Non-Regional	P2	0.05
Meadowood Dr	Knightsbridge Dr	St Annes Rd	Non-Regional	P2	0.16
Minnetonka St	Riverbend Av	Woodlawn Av	Non-Regional	P2	0.05
Minnetonka St	Greendell Av	Woodlawn Av	Non-Regional	P2	0.19
Minnetonka St	River Rd	Greendell Av	Non-Regional	P2	0.36
Minnetonka St	Blue Spruce Cr	Weeping Willow Dr	Non-Regional	P2	0.18
Minnetonka St	Avalon Rd	Weeping Willow Dr	Non-Regional	P2	0.20
Minnetonka St	Millfield Dr	Riel Av	Non-Regional	P2	0.35

Minnetonka St	Millfield Dr	Riverbend Av	Non-Regional	P2	0.21
Minnetonka St	Blue Spruce Cr	Riel Av	Non-Regional	P2	0.17
Norberry Dr	Dunkirk Dr	St Marys Rd	Non-Regional	P3S	0.58
Norcross Cr	Shorehill Dr	Shorehill Dr	Non-Regional	P2	0.03
Norcross Cr	Shorehill Dr	Shorehill Dr	Non-Regional	P2	0.03
Novavista Dr	Kennington By	Kennington By	Non-Regional	P2	0.17
Novavista Dr	Dakota St	Beckinsale By	Non-Regional	P2	0.21
Novavista Dr	Vista Av	St Marys Rd	Non-Regional	P2	0.17
Novavista Dr	Beckinsale By	Carriage House Rd	Non-Regional	P2	0.12
Novavista Dr	Vista Av	St Marys Rd	Non-Regional	P2	0.33
Novavista Dr	Nicollet Av	Novavista Av	Non-Regional	P2	0.04
Novavista Dr	Vista Av	Sandrington Dr	Non-Regional	P2	0.25
Novavista Dr	Vista Av	St Marys Rd	Non-Regional	P2	0.16
Novavista Dr	Ashworth St	Haresford Cr	Non-Regional	P2	0.49
Novavista Dr	Rillwillow Pl	Rillwood Pl	Non-Regional	P2	0.19
Novavista Dr	Bramton St	St Annes Rd	Non-Regional	P2	0.27
Novavista Dr	Kerwell Pl	Rillwood Pl	Non-Regional	P2	0.10
Novavista Dr	Kennington By	Turnham Dr	Non-Regional	P2	0.35
Novavista Dr	Novavista Dr	Novavista Dr	Non-Regional	P2	0.03
Novavista Dr	Haresford Cr	Hawkins Cr	Non-Regional	P2	0.16
Novavista Dr	Kennington By	Ashworth St	Non-Regional	P2	0.18
Novavista Dr	Sandrington Dr	Beckinsale By	Non-Regional	P2	0.12
Novavista Dr	Dakota St	Hyatt Pl	Non-Regional	P2	0.44
Novavista Dr	Rillwillow Pl	Rillwillow Pl	Non-Regional	P2	0.19
Novavista Dr	Kerwell Pl	Rillwood Pl	Non-Regional	P2	0.19
Novavista Dr	Kerwell Pl	Scotsborough Pl	Non-Regional	P2	0.09
Novavista Dr	Polydore Rd	Hyatt Pl	Non-Regional	P2	0.29
Novavista Dr	Novavista Av	Sandrington Dr	Non-Regional	P2	0.25
Novavista Dr	Carriage House Rd	Scotsborough Pl	Non-Regional	P2	0.08
Novavista Dr	Bramton St	Turnham Dr	Non-Regional	P2	0.11
Novavista Dr	Kerwell Pl	Scotsborough Pl	Non-Regional	P2	0.09

Orchard Hill Dr	Shorehill Dr	Shorehill Dr	Non-Regional	P2	0.03
Paddington Rd	Dakota St	Tufnell Dr	Non-Regional	P2	0.26
Paddington Rd	John Forsyth Rd	Tufnell Dr	Non-Regional	P2	0.19
Paddington Rd	Regis Dr	Grimsby Pl	Non-Regional	P2	0.33
Paddington Rd	Maitland Dr	Tufnell Dr	Non-Regional	P2	0.49
Paddington Rd	Longford Av	Willowbend Cr	Non-Regional	P2	0.20
Paddington Rd	Grimsby Pl	Longford Av	Non-Regional	P2	0.25
Paddington Rd	Charing Cross Cr	Warde Av	Non-Regional	P2	0.28
Paddington Rd	Alburg Dr	Britannica Rd	Non-Regional	P2	0.18
Paddington Rd	Willowbend Cr	Charing Cross Cr	Non-Regional	P2	0.17
Paddington Rd	Alburg Dr	Regis Dr	Non-Regional	P2	0.20
Paddington Rd	Britannica Rd	Charing Cross Cr	Non-Regional	P2	0.24
Paddington Rd	John Forsyth Rd	Maitland Dr	Non-Regional	P2	0.29
Parkville Dr	Parkville By	Triton By	Non-Regional	P2	0.16
Parkville Dr	Dunkirk Dr	Pulberry St	Non-Regional	P2	0.63
Parkville Dr	Parkville By	Weaver By	Non-Regional	P2	0.17
Parkville Dr	Parkville By	Parkville By	Non-Regional	P2	0.51
Parkville Dr	Weaver By	Pulberry St	Non-Regional	P2	0.58
Parkville Dr	Dunkirk Dr	St Marys Rd	Non-Regional	P2	0.28
Parkville Dr	Arden Av	River Ln	Non-Regional	P2	0.05
Parkville Dr	Arden Av	Triton By	Non-Regional	P2	0.28
Pulberry St	Moore Av	Crofton By	Non-Regional	P2	0.15
Pulberry St	Barrington Av	St Vital Rd	Non-Regional	P2	0.15
Pulberry St	Parkville Dr	Weaver By	Non-Regional	P2	0.15
Pulberry St	Barrington Av	Woodbury Dr	Non-Regional	P2	0.15
Pulberry St	Weaver By	Crofton By	Non-Regional	P2	0.15
Pulberry St	Crofton By	Crofton By	Non-Regional	P2	0.15
Pulberry St	Weaver By	Arden Av	Non-Regional	P2	0.16
Pulberry St	Bethune Wy	St Michael Rd	Non-Regional	P2	0.35
Pulberry St	Parkville Dr	Weaver By	Non-Regional	P2	0.15
Pulberry St	Woodbury Dr	Moore Av	Non-Regional	P2	0.15

Riel Av	Fernleaf Dr	Twin Pine Rd	Non-Regional	P2	0.27
Riel Av	Fernleaf Dr	Oakleaf Dr	Non-Regional	P2	0.42
Riel Av	Glen Meadow St	St Marys Rd	Non-Regional	P2	0.29
Riel Av	Twin Pine Rd	St Germain St	Non-Regional	P2	0.30
Riel Av	Minnetonka St	Winslow Dr	Non-Regional	P2	0.34
Riel Av	Darwin St	Metz St	Non-Regional	P2	0.50
Riel Av	Oakleaf Dr	Winslow Dr	Non-Regional	P2	0.19
Riel Av	Darwin St	Robertson Cr	Non-Regional	P2	0.55
Riel Av	River Rd	St Germain St	Non-Regional	P2	0.22
Riel Av	Metz St	Minnetonka St	Non-Regional	P2	0.44
Riverbend Av	St Marys Rd	Darwin St	Non-Regional	P2	0.68
Riverbend Av	Darwin St	Meadowood Dr	Non-Regional	P2	0.16
Riverbend Av	Riverbend Av	St Marys Rd	Non-Regional	P2	0.04
Riverbend Av	Minnetonka St	Bethray By	Non-Regional	P2	0.27
Riverbend Av	Bethray By	Metz St	Non-Regional	P2	0.25
Riverbend Av	Riverbend Av	Riverbend Av	Non-Regional	P2	0.02
Riverbend Av	Darwin St	Metz St	Non-Regional	P2	0.52
Sauve Cr	Southglen Bv	Southglen Bv	Non-Regional	P2	0.03
Shorehill Dr	St Annes Rd	Shorehill Dr Bridge	Non-Regional	P2	0.08
Shorehill Dr	Harbinger By	Harbinger By	Non-Regional	P2	0.18
Shorehill Dr	Norcross Cr	Harbinger By	Non-Regional	P2	0.18
Shorehill Dr	John Bruce Rd E	Tasca Rd	Non-Regional	P2	0.19
Shorehill Dr	Aubin Dr	Norcross Cr	Non-Regional	P2	0.18
Shorehill Dr	Demetriooff Dr	Eastoak Dr	Non-Regional	P2	0.20
Shorehill Dr	Eastoak Dr	Waldport By	Non-Regional	P2	0.18
Shorehill Dr	Westwater Dr	Yorkwood Dr	Non-Regional	P2	0.26
Shorehill Dr	Yorkwood Dr	Stonecourt Pl	Non-Regional	P2	0.21
Shorehill Dr	Waldport By	Tasca Rd	Non-Regional	P2	0.20
Shorehill Dr	Orchard Hill Dr	Bishop Grandin Bv	Non-Regional	P2	0.28
Shorehill Dr	Orchard Hill Dr	Bishop Grandin Bv	Non-Regional	P2	0.27
Shorehill Dr	Harbinger By	Beaudry By	Non-Regional	P2	0.18

Shorehill Dr	Beaudry By	Harbinger By	Non-Regional	P2	0.18
Shorehill Dr	John Bruce Rd E	Wildfire Dr	Non-Regional	P2	0.44
Shorehill Dr	John Bruce Rd E	Haverhill Cr	Non-Regional	P2	0.19
Shorehill Dr	Shorehill Dr	Dallner By	Non-Regional	P2	0.11
Shorehill Dr	Edenwood Pl	Dallner By	Non-Regional	P2	0.11
Shorehill Dr	Dallner By	Edenwood Pl	Non-Regional	P2	0.10
Shorehill Dr	Westwater Dr	Southside Dr	Non-Regional	P2	0.20
Shorehill Dr	Edenwood Pl	Tascona Rd	Non-Regional	P2	0.22
Shorehill Dr	Haverhill Cr	Edenwood Pl	Non-Regional	P2	0.22
Shorehill Dr	Shorehill Dr Bridge	Westwater Dr	Non-Regional	P2	0.65
Shorehill Dr	Shorehill Dr	River Valley Dr	Non-Regional	P2	0.12
Shorehill Dr	River Valley Dr	Dallner By	Non-Regional	P2	0.15
Shorehill Dr	St Annes Rd	Westwater Dr	Non-Regional	P2	0.65
Shorehill Dr	St Annes Rd	Shorehill Dr Bridge	Non-Regional	P2	0.09
Shorehill Dr	High Ridge Rd	Norcross Cr	Non-Regional	P2	0.18
Shorehill Dr	Bedard Cr	High Ridge Rd	Non-Regional	P2	0.15
Shorehill Dr	Norcross Cr	Bridgeway Cr	Non-Regional	P2	0.18
Shorehill Dr	Orchard Hill Dr	High Ridge Rd	Non-Regional	P2	0.17
Shorehill Dr	High Ridge Rd	John Bruce Rd E	Non-Regional	P2	0.73
Shorehill Dr	Harbinger By	Norcross Cr	Non-Regional	P2	0.18
Shorehill Dr	Norcross Cr	High Ridge Rd	Non-Regional	P2	0.18
Shorehill Dr	Norcross Cr	Harbinger By	Non-Regional	P2	0.18
Shorehill Dr	High Ridge Rd	Orchard Hill Dr	Non-Regional	P2	0.16
Shorehill Dr	Stonecourt Pl	Yorkwood Dr	Non-Regional	P2	0.21
Shorehill Dr	St Annes Rd	St Annes Rd	Non-Regional	P2	0.02
Shorehill Dr	Demetriooff Dr	Southside Dr	Non-Regional	P2	0.32
Shorehill Dr	Wildfire Dr	Bedard Cr	Non-Regional	P2	0.17
Shorehill Dr Bridge	St Annes Rd	Westwater Dr	Non-Regional	P2	0.12
Shorehill Dr Bridge	St Annes Rd	Westwater Dr	Non-Regional	P2	0.12
Southglen Bv	Hirt Cr	Munn Rd	Non-Regional	P2	0.17
Southglen Bv	Dakota St	Southglen Bv	Non-Regional	P2	0.12

Southglen Bv	Sauve Cr	St Annes Rd	Non-Regional	P2	0.16
Southglen Bv	Sheldon Dr	Sauve Cr	Non-Regional	P2	0.23
Southglen Bv	Sand Lily Dr	Sheldon Dr	Non-Regional	P2	0.20
Southglen Bv	Sauve Cr	St Annes Rd	Non-Regional	P2	0.16
Southglen Bv	Sheldon Dr	Sauve Cr	Non-Regional	P2	0.24
Southglen Bv	Amersham Cr	Munn Rd	Non-Regional	P2	0.28
Southglen Bv	Dakota St	Queensbury By	Non-Regional	P2	0.27
Southglen Bv	Amersham Cr	Greenford Av	Non-Regional	P2	0.17
Southglen Bv	Greenford Av	Goldthorpe Cr	Non-Regional	P2	0.17
Southglen Bv	Satinwood Pl	Shoal Pl	Non-Regional	P2	0.18
Southglen Bv	Ashworth St S	Hirt Cr	Non-Regional	P2	0.30
Southglen Bv	Shoal Pl	Sundial Cr	Non-Regional	P2	0.16
Southglen Bv	Sand Lily Dr	Sundial Cr	Non-Regional	P2	0.18
Southglen Bv	Ashworth St S	Satinwood Pl	Non-Regional	P2	0.18
Southglen Bv	St Annes Rd	St Annes Rd	Non-Regional	P2	0.02
St George Rd	Fernwood Av	Lennox Av	Non-Regional	P3S	0.16
St George Rd	Fernwood Av	Fernwood Av	Non-Regional	P3S	0.13
St George Rd	Frederick Av	Thorndale Av	Non-Regional	P3S	0.20
St George Rd	Fernwood Av	Fernwood Av	Non-Regional	P3S	0.03
St George Rd	Frederick Av	Havelock Av	Non-Regional	P3S	0.20
St George Rd	Lennox Av	Hull Av	Non-Regional	P3S	0.18
St Michael Rd	River Rd	Tracy Cr	Non-Regional	P2	0.14
St Michael Rd	Jaquet By	Tyrone By	Non-Regional	P2	0.17
St Michael Rd	Tracy Cr	Tracy Cr	Non-Regional	P2	0.56
St Michael Rd	Don Craik Cv	William Nock Pl	Non-Regional	P2	0.13
St Michael Rd	Glen Meadow St	Wright St	Non-Regional	P2	0.38
St Michael Rd	Traynor By	Traynor By	Non-Regional	P2	0.17
St Michael Rd	Darwin St	William Nock Pl	Non-Regional	P2	0.46
St Michael Rd	Pulberry St	St Marys Rd	Non-Regional	P2	0.27
St Michael Rd	Tyrone By	Tyrone By	Non-Regional	P2	0.18
St Michael Rd	Traynor By	Tyrone By	Non-Regional	P2	0.17

St Michael Rd	Pulberry St	Wright St	Non-Regional	P2	0.38
St Michael Rd	Darwin St	Glen Meadow St	Non-Regional	P2	0.52
St Michael Rd	Don Craik Cv	Jaquet By	Non-Regional	P2	0.16
St Michael Rd	Traynor By	Tracy Cr	Non-Regional	P2	0.16
St Vital Rd	Dunkirk Dr	Kenwood Pl	Non-Regional	P2	0.37
St Vital Rd	Dunkirk Dr	Tod Dr	Non-Regional	P2	0.15
St Vital Rd	Pulberry St	Salme Dr	Non-Regional	P2	0.10
St Vital Rd	St Marys Rd	Kenwood Pl	Non-Regional	P2	0.47
St Vital Rd	Talon By	Victoria Cr	Non-Regional	P2	0.18
St Vital Rd	Victoria Cr	Salme Dr	Non-Regional	P2	0.79
St Vital Rd	Pulberry St	Tod Dr	Non-Regional	P2	0.11
St Vital Rd	Tod Dr	Tod Dr	Non-Regional	P2	0.37
St Vital Rd	River Rd	Talon By	Non-Regional	P2	0.19
Tascona Rd	Shorehill Dr	Shorehill Dr	Non-Regional	P2	0.03
Vista Av	Novavista Dr	St Marys Rd	Non-Regional	P2	0.02
Woodlawn Av	Minnetonka St	Areisa By	Non-Regional	P2	0.20
Woodlawn Av	Areisa By	Millfield Dr	Non-Regional	P2	0.46
Woodlawn Av	Settlers Rd	Millfield Dr	Non-Regional	P2	0.76
Worthington Av	St George Rd	St Annes Rd	Non-Regional	P2	0.63
Worthington Av	Eric St	St Marys Rd	Non-Regional	P2	0.75
Worthington Av	Fitzpatrick Rd	St George Rd	Non-Regional	P2	0.66
Worthington Av	Eric St	Fitzpatrick Rd	Non-Regional	P2	0.68
Worthington Av	St George Rd	St George Rd	Non-Regional	P2	0.04
				Total	66.24

APPENDIX C – EAST AREA (SOUTH WEST) PRIORITY III STREETS

STREET NAME	FROM STREET	TO STREET	SNOW ROUTE	PRIORITY	LANE KM
Abbotsford Cr	Greenwood Av	Iowa St	N/A	P3	0.77
Abbotsford Cr	Dakota St	Wyoming St	N/A	P3	0.41
Abbotsford Cr	Wyoming St	Iowa St	N/A	P3	0.41
Alburg Dr	Paddington Rd	Lechman Pl	N/A	P3	0.18
Alburg Dr	Lechman Pl	Tralee Pl	N/A	P3	0.73
Alburg Dr	Highgate Cr	Tralee Pl	N/A	P3	0.34
Alburg Dr	Highgate Cr	Longford Av	N/A	P3	0.34
Alderbrook Rd	Barlow Cr	Ashworth St S	N/A	P3	0.48
Ambroise Ln	Ravine Dr	Settlers Rd	N/A	P3	0.42
Amersham Cr	Greenford Av	Peadin Pl	N/A	P3	0.74
Amersham Cr	Peadin Pl	Southglen Bv	N/A	P3	0.13
Appelmans By	Brixford Cr	Brixford Cr	N/A	P3	0.55
Arden Av	Parkville Dr	Triton By	N/A	P3	0.18
Arden Av	Darwin St	Triton By	N/A	P3	0.61
Arden Av	Pulberry St	Darwin St	N/A	P3	1.28
Arden Av	Pulberry St	St Marys Rd	N/A	P3	0.62
Areisa By	Woodlawn Av	End	N/A	P3	0.13
Ashford Dr	Mansfield Cr	Nutley Cl	N/A	P3	0.46
Ashford Dr	Thornewood Av	Thornewood Av	N/A	P3	0.54
Ashford Dr	John Forsyth Rd	Nutley Cl	N/A	P3	0.18
Ashford Dr	Thornewood Av	Mansfield Cr	N/A	P3	0.21
Ashford Dr	Mansfield Cr	Nutley Cl	N/A	P3	0.23
Ashton Av	St Andrew Rd	St Annes Rd	N/A	P3	0.38
Ashworth St	Pembridge By	Knightsbridge Dr	N/A	P3	0.32
Ashworth St	Meadowood Dr	Pembridge By	N/A	P3	0.18
Ashworth St	Knightsbridge Dr	Sterling Av	N/A	P3	0.20
Ashworth St S	Hirt Cr	End	N/A	P3	0.08

Ashworth St S	Hirt Cr	Southglen Bv	N/A	P3	0.19
Aubin Dr	Orchard Hill Dr	Bunton Ct	N/A	P3	0.20
Aubin Dr	Shorehill Dr	Orchard Hill Dr	N/A	P3	0.29
Aubin Dr	Bunton Ct	Orchard Hill Dr	N/A	P3	0.29
Bailley Av	Glen Meadow St	End	N/A	P3	0.35
Balham St	Barlow Cr	Queensbury By	N/A	P3	0.21
Bantry Pl	Regis Dr	End	N/A	P3	0.16
Barlow Cr	Barlow Cr	Pelham Rd	N/A	P3	0.41
Barlow Cr	Alderbrook Rd	Ashworth St S	N/A	P3	0.27
Barlow Cr	Hollingbury Pl	Pelham Rd	N/A	P3	0.18
Barlow Cr	Warde Av	Barlow Cr	N/A	P3	0.12
Barlow Cr	Balham St	Hollingbury Pl	N/A	P3	0.71
Barlow Cr	Pelham Rd	Barlow Cr	N/A	P3	0.19
Barlow Cr	Balham St	Pelham Rd	N/A	P3	0.14
Barlow Cr	Barlow Cr	Browton Pl	N/A	P3	0.18
Barlow Cr	Alderbrook Rd	Browton Pl	N/A	P3	0.18
Barrington Av	Flynn St	Talon By	N/A	P3	0.49
Barrington Av	St Marys Rd	Dunkirk Dr	N/A	P3	0.77
Barrington Av	Dunkirk Dr	Pulberry St	N/A	P3	0.63
Barrington Av	Flynn St	Wakefield By	N/A	P3	0.18
Barrington Av	Pulberry St	Wakefield By	N/A	P3	0.40
Barton Av	St Annes Rd	St Andrew Rd	N/A	P3	0.38
Baywood Pl	Thunder By	End	N/A	P3	0.16
Beaudry By	Shorehill Dr	Shorehill Dr	N/A	P3	0.68
Beckinsale By	Novavista Dr	Scotsborough Pl	N/A	P3	0.32
Beckinsale By	Kerwell Pl	Scotsborough Pl	N/A	P3	0.18
Beckinsale By	Kerwell Pl	Novavista Dr	N/A	P3	0.80
Bedard Cr	High Ridge Rd	Shorehill Dr	N/A	P3	0.49
Beechtree Cr	Boxwood Cv	Chokecherry Cv	N/A	P3	0.15
Beechtree Cr	Beliveau Rd	Boxwood Cv	N/A	P3	0.22
Beechtree Cr	Beliveau Rd	Chokecherry Cv	N/A	P3	0.85

Beechtree Cr	Beechtree Cr	End	N/A	P3	0.10
Behnke Rd	Chesterfield Av	Beliveau Rd	N/A	P3	0.08
Beliveau Rd	St Marys Rd	Dakota St	N/A	P3	0.41
Bernadette Av	Hollyhock Rd	Wakopa Pl	N/A	P3	0.14
Bernadette Av	Olivewood Cr	Wakopa Pl	N/A	P3	0.16
Berrydale Av	St David Rd	St George Rd	N/A	P3	0.39
Berrydale Av	St Annes Rd	St George Rd	N/A	P3	0.72
Berrydale Av	St David Rd	St Marys Rd	N/A	P3	1.25
Bethray By	Riverbend Av	Metz St	N/A	P3	0.52
Bethune Wy	Darwin St	Glen Meadow St	N/A	P3	0.52
Bethune Wy	Wright St	Glen Meadow St	N/A	P3	0.35
Blackmore Av	River Rd	End	N/A	P3	0.46
Blackwater By	Blackwater By	End	N/A	P3	0.22
Blackwater By	Charing Cross Cr	Blackwater By	N/A	P3	0.47
Blackwater By	Blackwater By	Charing Cross Cr	N/A	P3	0.17
Blue Spruce Cr	Minnetonka St	Weeping Willow Dr	N/A	P3	0.46
Boxwood Cv	Beechtree Cr	End	N/A	P3	0.20
Bramton St	Novavista Dr	End	N/A	P3	0.10
Bramton St	Thunder By	Woodydell Av	N/A	P3	0.17
Bramton St	Thunder By	Brixford Cr	N/A	P3	0.22
Braswell By	Wildfire Dr	Wildfire Dr	N/A	P3	0.66
Breland By	Willmington Dr	Willmington Dr	N/A	P3	0.50
Brentford Rd	Ashworth St	Greenwood Av	N/A	P3	0.64
Brentford Rd	Wales Av	Meadowood Dr	N/A	P3	0.37
Brentford Rd	Wales Av	Greenwood Av	N/A	P3	0.17
Brentford Rd	Willowmeade Cr	Meadowood Dr	N/A	P3	0.18
Breton By	Southside Dr	Southside Dr	N/A	P3	0.22
Briar Del Pl	Britannica Rd	End	N/A	P3	0.16
Bridgetown Dr	Waterton Dr	SouthSide Dr	N/A	P3	0.18
Bridgetown Dr	Bridgetown Dr	Waterton Dr	N/A	P3	0.18
Bridgetown Dr	Bridgetown Dr	Bridgetown Dr	N/A	P3	0.07

Bridgetown Dr	Waterton Dr	Bridgetown Dr	N/A	P3	0.63
Bridgetown Dr	Waterton Dr	Shorehill Dr	N/A	P3	0.26
Bridgetown Dr	Bridgetown Dr	Bridgetown Dr	N/A	P3	0.03
Bridgeway Cr	Bridgeway Cr	Bridgeway Cr	N/A	P3	0.08
Bridgeway Cr	Shorehill Dr	Willmington Dr	N/A	P3	0.42
Bridgeway Cr	John Bruce Rd E	Willmington Dr	N/A	P3	0.46
Bright Oaks By	Darwin St	Darwin St	N/A	P3	0.84
Brixford Cr	Lafortune By	Lafortune By	N/A	P3	0.17
Brixford Cr	Appelmans By	Lafortune By	N/A	P3	0.17
Brixford Cr	Ashworth St	Lafortune By	N/A	P3	0.17
Brixford Cr	Appelmans By	Appelmans By	N/A	P3	0.16
Brixford Cr	Bramton St	Appelmans By	N/A	P3	0.23
Bronstone Bv	St Marys Rd	West Fernwood Av	N/A	P3	0.74
Browton Pl	Barlow Cr	End	N/A	P3	0.27
Buckley By	Avalon Rd	End	N/A	P3	0.11
Bunton Ct	Aubin Dr	End	N/A	P3	0.17
Burke By	Burke By	End	N/A	P3	0.20
Burke By	Southside Dr	Burke By	N/A	P3	0.27
Burke By	Southside Dr	Burke By	N/A	P3	0.35
Cabot Cr	Triton By	Triton By	N/A	P3	0.88
Cabot Cr	Moore Av	Triton By	N/A	P3	0.15
Carriage House Rd	Novavista Dr	Sandrington Dr	N/A	P3	0.58
Charing Cross Cr	Paddington Rd	Regis Dr	N/A	P3	0.18
Charing Cross Cr	Blackwater By	Blackwater By	N/A	P3	0.31
Charing Cross Cr	Southwalk By	Strand Cl	N/A	P3	0.34
Charing Cross Cr	Paddington Rd	Blackwater By	N/A	P3	0.18
Charing Cross Cr	Maitland Dr	Strand Cl	N/A	P3	0.36
Charing Cross Cr	Blackwater By	Southwalk By	N/A	P3	0.21
Charing Cross Cr	Strand Cl	Strand Cl	N/A	P3	0.16
Chesterfield Av	Dakota St	St Marys Rd	N/A	P3	0.58
Chokecherry Cv	Beechtree Cr	End	N/A	P3	0.21

Corton Pl	Sandrington Dr	End	N/A	P3	0.10
Craddock Av	St Marys Rd	End	N/A	P3	0.13
Crofton By	Pulberry St	Pulberry St	N/A	P3	1.29
Cromer By	Avalon Rd	End	N/A	P3	0.10
Dallner By	Shorehill Dr	Tascona Rd	N/A	P3	0.43
Darwin St	Riverbend Av	Robertson Cr	N/A	P3	0.17
Darwin St	English Pl	Riel Av	N/A	P3	0.16
Darwin St	Glenthorne Cr	Nicollet Av	N/A	P3	0.18
Darwin St	English Pl	Robertson Cr	N/A	P3	0.09
Darwin St	Nicollet Av	River Rd	N/A	P3	0.17
Darwin St	Arden Av	Bethune Wy	N/A	P3	0.17
Darwin St	Bethune Wy	St Michael Rd	N/A	P3	0.19
Dells Cr	Hazelwood Av	Hazelwood Av	N/A	P3	0.81
Dells Cr	Greenwood Av	Wales Av	N/A	P3	0.17
Dells Cr	Greenwood Av	Hazelwood Av	N/A	P3	0.17
Delmar St	Victoria Cr	Victoria Cr	N/A	P3	0.24
Demetrioff Dr	Demetrioff Dr	Demetrioff Dr	N/A	P3	0.24
Demetrioff Dr	Demetrioff Dr	Shorehill Dr	N/A	P3	0.36
Don Craik Cv	St Michael Rd	End	N/A	P3	0.17
Earlton Pl	Waterton Dr	Waterton Dr	N/A	P3	0.16
Eastmount Dr	Simon Dr	Simon Dr	N/A	P3	0.82
Eastmount Dr	Hedgestone Cr	Simon Dr	N/A	P3	0.17
Eastmount Dr	Ashworth St S	Hedgestone Cr	N/A	P3	0.41
Eastoak Dr	Shorehill Dr	River Valley Dr	N/A	P3	0.72
Eastoak Dr	End	River Valley Dr	N/A	P3	0.25
Edenwood Pl	End	Haverhill Cr	N/A	P3	0.30
Edenwood Pl	Haverhill Cr	Shorehill Dr	N/A	P3	0.49
Elsbury By	Sandrington Dr	Sandrington Dr	N/A	P3	0.54
Elstree Ct	Waldport By	End	N/A	P3	0.08
English Pl	Bethray By	Darwin St	N/A	P3	0.50
Eric St	Beliveau Rd	End	N/A	P3	0.34

Eric St	Beliveau Rd	Worthington Av	N/A	P3	0.47
Eric St	Worthington Av	Maralbo Av E	N/A	P3	0.19
Falconer By	River Rd	River Rd	N/A	P3	0.61
Fennbark Pl	Bernadette Av	End	N/A	P3	0.24
Fermor Av	St George Rd	St Thomas Rd	N/A	P3	0.20
Fermor Av	St David Rd	St Louis Rd	N/A	P3	0.19
Fermor Av	St Thomas Rd	St Andrew Rd	N/A	P3	0.20
Fermor Av	St Andrew Rd	St Elmo Rd	N/A	P3	0.20
Fermor Av	Fermor Av	St Elmo Rd	N/A	P3	0.04
Fermor Av	St Louis Rd	St George Rd	N/A	P3	0.19
Fernleaf Dr	Avalon Rd	Golden Willow Cr	N/A	P3	0.17
Fernleaf Dr	Riel Av	St Germain St	N/A	P3	0.67
Fernleaf Dr	Golden Willow Cr	Riel Av	N/A	P3	0.12
Fernwood Av	St George Rd	St Andrew Rd	N/A	P3	0.40
Fernwood Av	St Marys Rd	St David Rd	N/A	P3	0.68
Fernwood Av	St Andrew Rd	St Annes Rd	N/A	P3	0.39
Fernwood Av	St George Rd	St David Rd	N/A	P3	0.39
Fitzpatrick Rd	Hindley Av	Sadler Av	N/A	P3	0.30
Fitzpatrick Rd	Hindley Av	Worthington Av	N/A	P3	0.30
Flynn St	Moore Av	Talon By	N/A	P3	0.15
Flynn St	Barrington Av	Talon By	N/A	P3	0.15
Forrester Av	St Annes Rd	Gascon Rd	N/A	P3	0.71
Frederick Av	St David Rd	St George Rd	N/A	P3	0.39
Frederick Av	Neepawa St	St Marys Rd	N/A	P3	0.49
Frederick Av	Neepawa St	St David Rd	N/A	P3	0.43
Gascon Rd	Wales Av	Gosford Av	N/A	P3	0.35
Gascon Rd	Forrester Av	Wales Av	N/A	P3	0.14
Gascon Rd	Woodydell Av	Gosford Av	N/A	P3	0.17
Glen Av	Killarney St	St Marys Rd	N/A	P3	0.48
Glen Av	Killarney St	End	N/A	P3	0.61
Glen Meadow St	Avalon Rd	End	N/A	P3	0.09

Glen Meadow St	Riel Av	Bailley Av	N/A	P3	0.37
Glen Meadow St	Avalon Rd	Bailley Av	N/A	P3	0.18
Glen Meadow St	St Michael Rd	End	N/A	P3	0.13
Glen Meadow St	Bethune Wy	St Michael Rd	N/A	P3	0.19
Glenthorne Cr	Greendell Av	Woodlawn Av	N/A	P3	0.19
Glenthorne Cr	Greendell Av	Darwin St	N/A	P3	0.45
Glenthorne Cr	Darwin St	Greendell Av	N/A	P3	0.48
Glenview Av	St Marys Rd	Killarney St	N/A	P3	0.21
Glenview Av	Killarney St	End	N/A	P3	0.57
Golden Willow Cr	Avalon Rd	Fernleaf Dr	N/A	P3	0.52
Goldthorpe Cr	Southglen Bv	Greenford Av	N/A	P3	0.93
Goldthorpe Cr	Greenford Av	Lambeth Rd	N/A	P3	0.33
Goldthorpe Cr	Lambeth Rd	End	N/A	P3	0.04
Gosford Av	Gascon Rd	St Annes Rd	N/A	P3	0.69
Granby By	St Annes Rd	Wales Av	N/A	P3	0.69
Grassington By	Whitley Dr	Whitley Dr	N/A	P3	0.71
Greendell Av	Glenthorne Cr	Glenthorne Cr	N/A	P3	0.55
Greendell Av	Glenthorne Cr	Minnetonka St	N/A	P3	0.67
Greendell Av	Minnetonka St	Millfield Dr	N/A	P3	0.65
Greendell Av	Glenthorne Cr	St Marys Rd	N/A	P3	0.24
Greendell Av	Glenthorne Cr	Glenthorne Cr	N/A	P3	0.01
Greenford Av	Amersham Cr	Goldthorpe Cr	N/A	P3	0.20
Greenford Av	Goldthorpe Cr	End	N/A	P3	0.09
Greenford Av	Amersham Cr	Southglen Bv	N/A	P3	0.50
Greenwood Av	Dells Cr	Wakopa St	N/A	P3	0.33
Greenwood Av	Ashworth St	Brentford Rd	N/A	P3	0.48
Greenwood Av	Dakota St	Wakopa St	N/A	P3	0.34
Gretna By	Ashworth St	Ashworth St	N/A	P3	0.66
Grimsby Pl	Paddington Rd	End	N/A	P3	0.15
Harbinger By	Shorehill Dr	Shorehill Dr	N/A	P3	0.49
Hardman Ct	End	John Bruce Rd E	N/A	P3	0.24

Hardy By	River Rd	End	N/A	P3	0.24
Haresford Cr	Hawkins Cr	Novavista Dr	N/A	P3	0.45
Harlesden Dr	Hobart Pl	Polydore Rd	N/A	P3	0.57
Harlesden Dr	Lambeth Rd	Polydore Rd	N/A	P3	0.17
Harlesden Dr	Ashworth St	Hobart Pl	N/A	P3	0.18
Harlesden Dr	Lambeth Rd	End	N/A	P3	0.08
Harmony Cv	Sterling Av	End	N/A	P3	0.16
Harry Collins Av	St Germain St	Winslow Dr	N/A	P3	0.58
Harry Collins Av	River Rd	St Germain St	N/A	P3	0.19
Harry Wyatt Pl	River Rd	End	N/A	P3	0.55
Hastings Bv	Dunkirk Dr	St Marys Rd	N/A	P3	0.47
Havelock Av	St Marys Rd	Neepawa St	N/A	P3	0.58
Havelock Av	St David Rd	St George Rd	N/A	P3	0.39
Havelock Av	Neepawa St	St David Rd	N/A	P3	0.43
Haverhill Cr	Shorehill Dr	Edenwood Pl	N/A	P3	0.55
Hawkins Cr	Haresford Cr	Novavista Dr	N/A	P3	0.30
Hawkins Cr	Whitley Dr	Haresford Cr	N/A	P3	0.16
Hawkins Cr	Dakota St	Whitley Dr	N/A	P3	0.19
Hawkins Cr	Whitley Dr	Whitley Dr	N/A	P3	0.65
Hazelwood Av	Dells Cr	Wakopa St	N/A	P3	0.33
Hazelwood Av	Dells Cr	Wakopa St	N/A	P3	0.16
Hazelwood Av	Dakota St	Dells Cr	N/A	P3	0.19
Hazelwood Cr	Iowa St	Wyoming St	N/A	P3	0.38
Hazelwood Cr	Dakota St	Wyoming St	N/A	P3	0.41
Hedgestone Cr	Ashworth St S	Eastmount Dr	N/A	P3	0.55
High Ridge Rd	Bedard Cr	Shorehill Dr	N/A	P3	0.25
High Ridge Rd	Aubin Dr	Bedard Cr	N/A	P3	0.10
High Ridge Rd	Aubin Dr	Bedard Cr	N/A	P3	0.10
High Ridge Rd	Aubin Dr	Bedard Cr	N/A	P3	0.10
High Ridge Rd	Shorehill Dr	Bedard Cr	N/A	P3	1.54
Highgate Cr	Alburg Dr	Longford Av	N/A	P3	0.37

Hindley Av	Fitzpatrick Rd	St George Rd	N/A	P3	0.66
Hindley Av	St Annes Rd	St George Rd	N/A	P3	0.66
Hindley Av	St Marys Rd	Fitzpatrick Rd	N/A	P3	1.24
Hindley Av	St George Rd	St George Rd	N/A	P3	0.04
Hirt Cr	Ashworth St S	Southglen Bv	N/A	P3	0.42
Hobart Pl	Harlesden Dr	End	N/A	P3	0.17
Holborn Pl	Sonning By	End	N/A	P3	0.10
Hollingbury Pl	Barlow Cr	End	N/A	P3	0.22
Hollyhock Rd	Willowmeade Cr	Meadowood Dr	N/A	P3	0.18
Hollyhock Rd	Bernadette Av	Fernbark Pl	N/A	P3	0.29
Homewood Dr	Sterling Av	Willowmeade Cr	N/A	P3	0.38
Homewood Dr	Knightsbridge Dr	Willowmeade Cr	N/A	P3	0.17
Hull Av	St Andrew Rd	St Elmo Rd	N/A	P3	0.20
Hull Av	St George Rd	St Thomas Rd	N/A	P3	0.20
Hull Av	St Thomas Rd	St Andrew Rd	N/A	P3	0.20
Hull Av	St Marys Rd	St David Rd	N/A	P3	0.46
Hull Av	St Louis Rd	St David Rd	N/A	P3	0.19
Hull Av	St Annes Rd	St Elmo Rd	N/A	P3	0.21
Hull Av	St George Rd	St Louis Rd	N/A	P3	0.19
Hyatt Pl	Dakota St	Novavista Dr	N/A	P3	0.45
Iowa St	Abbotsford Cr	Greenwood Av	N/A	P3	0.17
Iowa St	Woodydell Av	Vista Av	N/A	P3	0.24
Iowa St	Hazelwood Cr	Woodydell Av	N/A	P3	0.19
Jaquet By	St Michael Rd	End	N/A	P3	0.17
John Bruce Rd	St Annes Rd	John Bruce Rd Bridge at Seine	N/A	P3	0.58
John Bruce Rd	Willmington Dr	End	N/A	P3	0.25
John Bruce Rd Bridge at Seine	John Bruce Rd	John Bruce Rd	N/A	P3	0.14
John Bruce Rd E	Hardman Ct	Lardon Ct	N/A	P3	0.33
John Bruce Rd E	Willmington Dr	Bridgeway Cr	N/A	P3	0.28
John Bruce Rd E	Shorehill Dr	Wildfire Dr	N/A	P3	0.62
John Bruce Rd E	John Bruce Rd E	John Bruce Rd E	N/A	P3	0.11

John Bruce Rd E	Lardon Ct	Shorehill Dr	N/A	P3	0.45
Kearney St	Beliveau Rd	End	N/A	P3	0.36
Kennington By	Novavista Dr	Turnham Dr	N/A	P3	0.93
Kennington By	Novavista Dr	Turnham Dr	N/A	P3	0.19
Kenwood Pl	Dunkirk Dr	St Vital Rd	N/A	P3	0.52
Kerwell Pl	Beckinsale By	Novavista Dr	N/A	P3	0.18
Kevin Pl	Simon Dr	End	N/A	P3	0.22
Kilburn Pl	Longford Av	Longford Av	N/A	P3	0.13
Killarney St	Glen Av	Nichol Av	N/A	P3	0.21
Killarney St	Fermor Av	Glen Av	N/A	P3	0.14
Killarney St	Glenview Av	Nichol Av	N/A	P3	0.21
Kilmarnock By	River Rd	River Rd	N/A	P3	0.55
Knightsbridge Dr	Meadowood Dr	Pembridge By	N/A	P3	0.64
Knightsbridge Dr	Homewood Dr	Meadowood Dr	N/A	P3	0.49
Knightsbridge Dr	Ashworth St	Pembridge By	N/A	P3	0.16
Knightsbridge Dr	Ashworth St	Pembridge By	N/A	P3	0.16
Knightsbridge Dr	Homewood Dr	Pembridge By	N/A	P3	0.16
Lafortune By	Brixford Cr	Brixford Cr	N/A	P3	0.56
Lambeth Rd	Harlesden Dr	Marinus Pl	N/A	P3	0.36
Lambeth Rd	Goldthorpe Cr	Harlesden Dr	N/A	P3	0.18
Lardon Ct	John Bruce Rd E	End	N/A	P3	0.24
Lechman Pl	Alburg Dr	End	N/A	P3	0.41
Lennox Av	St Andrew Rd	St Annes Rd	N/A	P3	0.39
Lennox Av	St David Rd	St Marys Rd	N/A	P3	0.58
Lennox Av	St George Rd	St Andrew Rd	N/A	P3	0.40
Lennox Av	St David Rd	St George Rd	N/A	P3	0.39
Leston Pl	Dakota St	Rillwillow Pl	N/A	P3	0.21
Lodgepine By	Meadowood Dr	Meadowood Dr	N/A	P3	0.35
Longford Av	Alburg Dr	End	N/A	P3	0.06
Longford Av	Highgate Cr	Paddington Rd	N/A	P3	0.18
Longford Av	Kilburn Pl	Kilburn Pl	N/A	P3	0.03

Longford Av	Kilburn Pl	Alburg Dr	N/A	P3	0.15
Longford Av	Highgate Cr	Kilburn Pl	N/A	P3	0.16
Lotus Ln	Victoria Cr	End	N/A	P3	0.23
Lotus Ln	Victoria Cr	Salme Dr	N/A	P3	0.16
Maitland Dr	Paddington Rd	Charing Cross Cr	N/A	P3	0.56
Mansfield Cr	Ashford Dr	Ashford Dr	N/A	P3	0.55
Maralbo Av E	Eric St	St Marys Rd	N/A	P3	0.61
Maralbo Av W	Dunkirk Dr	St Marys Rd	N/A	P3	0.37
Marguerite Rd	Ravine Dr	River Pointe Dr	N/A	P3	0.20
Marinus Pl	Lambeth Rd	Polydore Rd	N/A	P3	0.23
Marinus Pl	Lambeth Rd	End	N/A	P3	0.21
McMurray By	Avalon Rd	End	N/A	P3	0.10
McNulty Cr	McNulty Cv	River Rd	N/A	P3	0.44
McNulty Cr	McNulty Cv	River Rd	N/A	P3	0.45
McNulty Cv	McNulty Cr	End	N/A	P3	0.04
McNulty Pl	River Rd	End	N/A	P3	0.06
Metz St	Oakridge By	Riel Av	N/A	P3	0.17
Metz St	Oakridge By	Oakridge By	N/A	P3	0.17
Metz St	Avalon Rd	Oakridge By	N/A	P3	0.20
Metz St	Bethray By	Riverbend Av	N/A	P3	0.15
Metz St	Riel Av	English Pl	N/A	P3	0.15
Millfield Dr	Minnetonka St	Woodlawn Av	N/A	P3	0.91
Millfield Dr	Greendell Av	River Rd	N/A	P3	0.05
Millfield Dr	Greendell Av	Woodlawn Av	N/A	P3	0.21
Molgat Av	Scouters Ln	St Marys Rd	N/A	P3	0.28
Montvale Cr	Montvale Cr	Montvale Cr	N/A	P3	0.64
Montvale Cr	Montvale Cr	Montvale Cr	N/A	P3	0.03
Montvale Cr	Southside Dr	Montvale Cr	N/A	P3	0.12
Montvale Cr	Montvale Cr	Montvale Cr	N/A	P3	0.05
Montvale Cr	Montvale Cr	Montvale Cr	N/A	P3	0.11
Montvale Cr	Montvale Cr	Southside Dr	N/A	P3	0.17

Montvale Cr	Montvale Cr	Montvale Cr	N/A	P3	0.15
Moore Av	River Rd	End	N/A	P3	0.18
Moore Av	Dunkirk Dr	Pulberry St	N/A	P3	0.63
Moore Av	Dunkirk Dr	St Marys Rd	N/A	P3	0.64
Moore Av	Flynn St	Pulberry St	N/A	P3	0.58
Moore Av	Cabot Cr	River Rd	N/A	P3	0.55
Moore Av	Cabot Cr	Flynn St	N/A	P3	0.17
Munn Rd	Southglen Bv	End	N/A	P3	0.19
Nakomis By	Woodydell Av	Wisconsin St	N/A	P3	0.61
Neepawa St	Poplarwood Av	Portland Av	N/A	P3	0.16
Neepawa St	Frederick Av	Havelock Av	N/A	P3	0.20
Neepawa St	Poplarwood Av	End	N/A	P3	0.09
Neepawa St	Havelock Av	Portland Av	N/A	P3	0.16
Nichol Av	Killarney St	End	N/A	P3	0.57
Nichol Av	Killarney St	St Marys Rd	N/A	P3	0.35
Nicollet Av	Darwin St	River Rd	N/A	P3	0.65
Nicollet Av	Darwin St	St Marys Rd	N/A	P3	0.39
Norcross Cr	Shorehill Dr	Shorehill Dr	N/A	P3	1.11
Northport By	Southside Dr	Southside Dr	N/A	P3	0.65
Northwood Ct	Southside Dr	Southside Dr	N/A	P3	0.28
Nutley Cir	Ashford Dr	Mansfield Cr	N/A	P3	0.78
Oakleaf Dr	Avalon Rd	Weeping Willow Dr	N/A	P3	0.20
Oakleaf Dr	Weeping Willow Dr	Riel Av	N/A	P3	0.28
Oakridge By	Metz St	Metz St	N/A	P3	0.68
Olivewood Cr	Willowmeade Cr	Bernadette Av	N/A	P3	0.36
Orchard Hill Dr	Aubin Dr	Aubin Dr	N/A	P3	0.72
Orchard Hill Dr	Shorehill Dr	Picton Ct	N/A	P3	0.35
Orchard Hill Dr	Picton Ct	Picton Ct	N/A	P3	0.07
Orchard Hill Dr	Orchard Hill Dr	Orchard Hill Dr	N/A	P3	0.10
Orchard Hill Dr	Picton Ct	Aubin Dr	N/A	P3	0.66
Oustic Av E	Clayton Dr	End	N/A	P3	0.11

Oustic Av E	St Marys Rd	End	N/A	P3	0.48
Oustic Av W	St Marys Rd	Access Rd	N/A	P3	0.40
Oustic Av W	Access Rd	Dunkirk Dr	N/A	P3	0.31
Pambrun Pl	Wildfire Dr	Wildfire Dr	N/A	P3	0.13
Parkville By	Parkville Dr	Parkville Dr	N/A	P3	0.80
Peadin Pl	Amersham Cr	End	N/A	P3	0.19
Pear Tree By	Pear Tree By	Pear Tree By	N/A	P3	0.10
Pear Tree By	Sandrington Dr	Sandrington Dr	N/A	P3	0.76
Pelham Rd	Barlow Cr	Barlow Cr	N/A	P3	0.29
Pembridge By	Ashworth St	Knightsbridge Dr	N/A	P3	0.47
Pembridge By	Ashworth St	Knightsbridge Dr	N/A	P3	0.46
Picton Ct	Orchard Hill Dr	Orchard Hill Dr	N/A	P3	0.15
Plumtree Pl	Meadowood Dr	End	N/A	P3	0.16
Polydore Rd	Marinus Pl	Novavista Dr	N/A	P3	0.21
Polydore Rd	Harlesden Dr	Marinus Pl	N/A	P3	0.30
Poplarwood Av	St Andrew Rd	St George Rd	N/A	P3	0.40
Poplarwood Av	St George Rd	St David Rd	N/A	P3	0.39
Poplarwood Av	Neepawa St	St Marys Rd	N/A	P3	0.72
Poplarwood Av	St Andrew Rd	St Annes Rd	N/A	P3	0.34
Poplarwood Av	St David Rd	Neepawa St	N/A	P3	0.43
Port Pl	Thunder By	End	N/A	P3	0.16
Portland Av	St Andrew Rd	St George Rd	N/A	P3	0.40
Portland Av	St Annes Rd	St Andrew Rd	N/A	P3	0.36
Portland Av	St David Rd	St George Rd	N/A	P3	0.39
Portland Av	Neepawa St	St Marys Rd	N/A	P3	0.65
Portland Av	St David Rd	Neepawa St	N/A	P3	0.43
Queensbury By	Balham St	Southglen Bv	N/A	P3	0.69
Queensbury By	Balham St	Greenford Av	N/A	P3	0.60
Rattai Pl	Vista Av	End	N/A	P3	0.14
Ravine Dr	Ambroise Ln	Marguerite Rd	N/A	P3	0.10
Ravine Dr	Ambroise Ln	River Pointe Dr	N/A	P3	0.63

Ravine Dr	Marguerite Rd	River Haven Gr	N/A	P3	0.17
Ravine Dr	River Haven Gr	Settlers Rd	N/A	P3	0.34
Regis Dr	Bantry Pl	Paddington Rd	N/A	P3	0.33
Regis Dr	Charing Cross Cr	Bantry Pl	N/A	P3	0.49
Richfield Av	St Annes Rd	End	N/A	P3	0.40
Rillwillow Pl	Novavista Dr	End	N/A	P3	0.24
Rillwillow Pl	Novavista Dr	Leston Pl	N/A	P3	0.17
Rillwillow Pl	Novavista Dr	End	N/A	P3	0.25
Rillwillow Pl	Leston Pl	End	N/A	P3	0.07
Rillwood Pl	Novavista Dr	End	N/A	P3	0.24
River Haven Gr	River Haven Gr	End	N/A	P3	0.22
River Haven Gr	River Haven Gr	End	N/A	P3	0.22
River Haven Gr	Ravine Dr	River Haven Gr	N/A	P3	0.33
River Ln	River Rd	End	N/A	P3	0.19
River Park Cs	River Rd	End	N/A	P3	0.16
River Pointe Dr	Marguerite Rd	Ravine Dr	N/A	P3	0.83
River Pointe Dr	Ravine Dr	River Rd	N/A	P3	0.26
River Pointe Dr	Marguerite Rd	End	N/A	P3	0.15
River Valley Dr	Waldport By	River Valley Dr	N/A	P3	0.48
River Valley Dr	River Valley Dr	River Valley Dr	N/A	P3	0.09
River Valley Dr	Eastoak Dr	River Valley Dr	N/A	P3	0.21
River Valley Dr	River Valley Dr	River Valley Dr	N/A	P3	0.03
River Valley Dr	Waldport By	Shorehill Dr	N/A	P3	0.31
Rivergate Dr	St Marys Rd	End	N/A	P3	0.21
Robertson Cr	Darwin St	Riel Av	N/A	P3	0.78
Rose Av	St Annes Rd	Behnke Rd	N/A	P3	0.10
Sachet Pl	Southglen Bv	End	N/A	P3	0.21
Sadler Av	St David Rd	St George Rd	N/A	P3	0.38
Sadler Av	Fitzpatrick Rd	St David Rd	N/A	P3	0.32
Sadler Av	St Annes Rd	St George Rd	N/A	P3	0.69
Sadler Av	St Marys Rd	Fitzpatrick Rd	N/A	P3	1.06

Salme Dr	St Vital Rd	Sandee By	N/A	P3	0.60
Salme Dr	Sandee By	Lotus Ln	N/A	P3	0.48
Sand Lily Dr	Sand Lily Dr	Sand Lily Dr	N/A	P3	0.10
Sand Lily Dr	Sauve Cr	Southglen Bv	N/A	P3	0.47
Sandee By	Salme Dr	End	N/A	P3	0.15
Sandralin By	Avalon Rd	End	N/A	P3	0.11
Sandrington Dr	Pear Tree By	Upton Pl	N/A	P3	0.11
Sandrington Dr	Britannica Rd	Upton Pl	N/A	P3	0.17
Sandrington Dr	Elsbury By	Novavista Dr	N/A	P3	0.16
Sandrington Dr	Elsbury By	Corton Pl	N/A	P3	0.46
Sandrington Dr	Corton Pl	Pear Tree By	N/A	P3	0.14
Sandrington Dr	Carriage House Rd	Elsbury By	N/A	P3	0.20
Satinwood Pl	Ashworth St S	Southglen Bv	N/A	P3	0.43
Satinwood Pl	Satinwood Pl	End	N/A	P3	0.15
Sauve Cr	Simon Dr	Sand Lily Dr	N/A	P3	0.63
Sauve Cr	Sand Lily Dr	Southglen Bv	N/A	P3	0.28
Scotsborough Pl	Beckinsale By	Novavista Dr	N/A	P3	0.18
Scotsborough Pl	Nova	End	N/A	P3	0.25
Settlers Rd	Ravine Dr	Ambroise Ln	N/A	P3	0.18
Settlers Rd	Ravine Dr	River Rd	N/A	P3	0.40
Settlers Rd	Ambroise Ln	Ravine	N/A	P3	0.45
Sheldon Dr	Southglen Bv	End	N/A	P3	0.12
Sheridan Pl	Turnham Dr	End	N/A	P3	0.17
Shoal Pl	Southglen Bv	End	N/A	P3	0.15
Shorehill Dr	Shorehill Dr	Shorehill Dr	N/A	P3	0.15
Shorehill Dr	Shorehill Dr	Shorehill Dr	N/A	P3	0.28
Shorehill Dr	Shorehill Dr	Shorehill Dr	N/A	P3	0.33
Shorehill Dr	Shorehill Dr	Shorehill Dr	N/A	P3	0.26
Shorehill Dr	Shorehill Dr	Shorehill Dr	N/A	P3	0.60
Shorehill Dr	Shorehill Dr	Shorehill Dr	N/A	P3	0.20
Shorehill Dr	Shorehill Dr	Shorehill Dr	N/A	P3	0.27

Siferts Cv	Sterling Av	End	N/A	P3	0.18
Simon Dr	Eastmount Dr	Kevin Pl	N/A	P3	0.21
Simon Dr	Kevin Pl	Southglen Bv	N/A	P3	0.26
Simon Dr	Eastmount Dr	Eastmount Dr	N/A	P3	0.18
Sonning By	Holborn Pl	Holborn Pl	N/A	P3	0.70
Sonning By	Holborn Pl	Willowbend Cr	N/A	P3	0.16
Southglen Bv	Southglen Bv	Southglen Bv	N/A	P3	0.26
Southside Dr	Bridgetown Dr	Montvale Cr	N/A	P3	0.15
Southside Dr	Shorehill Dr	Burke By	N/A	P3	0.19
Southside Dr	Burke By	Burke By	N/A	P3	0.17
Southside Dr	Northport By	Mountvale Cr	N/A	P3	0.17
Southside Dr	Northport By	Montvale Cr	N/A	P3	0.20
Southside Dr	Montvale Cr	Northwood Ct	N/A	P3	0.24
Southside Dr	Southside Dr	Southside Dr	N/A	P3	0.26
Southside Dr	Southside Dr	Southside Dr	N/A	P3	0.35
Southside Dr	Bridgetown Dr	Warde Av	N/A	P3	0.13
Southside Dr	Warde Av	Warde Av	N/A	P3	0.03
Southside Dr	Burke By	Northport By	N/A	P3	0.17
Southwalk By	Charing Cross Cr	Charing Cross Cr	N/A	P3	0.99
St Andrew Rd	Poplarwood Av	End	N/A	P3	0.08
St Andrew Rd	Fernwood Av	Ashton Av	N/A	P3	0.18
St Andrew Rd	Hull Av	Lennox Av	N/A	P3	0.19
St Andrew Rd	Ashton Av	Barton Av	N/A	P3	0.18
St Andrew Rd	Havelock Av	Barton Av	N/A	P3	0.17
St Andrew Rd	Poplarwood Av	Portland Av	N/A	P3	0.16
St Andrew Rd	Havelock Av	Portland Av	N/A	P3	0.16
St Andrew Rd	Hull Av	Fermor Av	N/A	P3	0.53
St Andrew Rd	Fernwood Av	Lennox Av	N/A	P3	0.18
St David Pl	St David Rd	St David Rd	N/A	P3	0.31
St David Rd	Frederick Av	Thorndale Av	N/A	P3	0.20
St David Rd	St David Pl	Fermor Av	N/A	P3	0.02

St David Rd	St David Pl	St David Pl	N/A	P3	0.15
St David Rd	Fermor Av	St David Pl	N/A	P3	0.21
St David Rd	Berrydale Av	Sadler Av	N/A	P3	0.30
St David Rd	Hull Av	Lennox Av	N/A	P3	0.18
St David Rd	Fernwood Av	Thorndale Av	N/A	P3	0.16
St David Rd	Poplarwood Av	Portland Av	N/A	P3	0.16
St David Rd	Hull Av	St David Pl	N/A	P3	0.18
St David Rd	Frederick Av	Havelock Av	N/A	P3	0.20
St David Rd	Berrydale Av	Poplarwood Av	N/A	P3	0.23
St David Rd	Fernwood Av	Lennox Av	N/A	P3	0.16
St David Rd	Fermor Av	St David Pl	N/A	P3	0.03
St David Rd	Havelock Av	Portland Av	N/A	P3	0.16
St Elmo Rd	Fermor Av	Hull Av	N/A	P3	0.53
St George Rd	Hindley Av	Sadler Av	N/A	P3	0.30
St George Rd	Hindley Av	Worthington Av	N/A	P3	0.30
St George Rd	Sadler Av	Berrydale Av	N/A	P3	0.30
St George Rd	Berrydale Av	Poplarwood Av	N/A	P3	0.23
St George Rd	Hull Av	Fermor Av	N/A	P3	0.54
St George Rd	Poplarwood Av	Portland Av	N/A	P3	0.16
St George Rd	Havelock Av	Portland Av	N/A	P3	0.16
St George Rd	Worthington Av	End	N/A	P3	0.36
St Germain St	Fernleaf Dr	Riel Av	N/A	P3	0.18
St Germain St	Fernleaf Dr	Harry Collins Av	N/A	P3	0.45
St Louis Rd	Hull Av	Fermor Av	N/A	P3	0.54
St Thomas Rd	Hull Av	Fermor Av	N/A	P3	0.53
Sterling Av	Ashworth St	Homewood Dr	N/A	P3	0.68
Sterling Av	Siferts Cv	St Annes Rd	N/A	P3	1.00
Sterling Av	Harmony Cv	Siferts Cv	N/A	P3	0.13
Sterling Av	Ashworth St	Harmony Cv	N/A	P3	0.10
Sterling Av	Homewood Dr	End	N/A	P3	0.38
Stonecourt Pl	Shorehill Dr	End	N/A	P3	0.18

Strand Cir	Charing Cross Cr	Charing Cross Cr	N/A	P3	0.61
Sundial Cr	Southglen Bv	Southglen Bv	N/A	P3	0.65
Talon By	Barrington Av	St Vital Rd	N/A	P3	0.16
Talon By	Barrington Av	Flynn St	N/A	P3	0.63
Tascona Rd	Tascona Rd	Tascona Rd	N/A	P3	0.03
Tascona Rd	Tascona Rd	Dallner By	N/A	P3	0.69
Tascona Rd	Shorehill Dr	Tascona Rd	N/A	P3	0.22
Tascona Rd	Shorehill Dr	Dallner By	N/A	P3	0.21
Tascona Rd	Tascona Rd	Tascona Rd	N/A	P3	0.08
Thorndale Av	St David Rd	St Marys Rd	N/A	P3	0.79
Thorndale Av	St David Rd	St George Rd	N/A	P3	0.39
Thornewood Av	Ashford Dr	Ashford Dr	N/A	P3	0.29
Thornewood Av	Ashford Dr	John Forsyth Rd	N/A	P3	0.18
Thunder By	Port Pl	Woodydell Av	N/A	P3	0.39
Thunder By	Baywood Pl	Port Pl	N/A	P3	0.42
Thunder By	Baywood Pl	Bramton St	N/A	P3	0.16
Tod Dr	St Vital Rd	St Vital Rd	N/A	P3	0.74
Tracy Cr	St Michael Rd	St Michael Rd	N/A	P3	0.74
Trafford Pk	Beliveau Rd	End	N/A	P3	0.29
Tralee Pl	Alburg Dr	End	N/A	P3	0.06
Traynor By	St Michael Rd	St Michael Rd	N/A	P3	0.51
Triton By	Arden Av	Parkville Dr	N/A	P3	0.46
Triton By	Cabot Cr	Cabot Cr	N/A	P3	0.72
Triton By	Parkville Dr	Cabot Cr	N/A	P3	0.23
Tufnell Dr	Tufnell Dr	Tufnell Dr	N/A	P3	0.10
Tufnell Dr	Tufnell Dr	Whicker St	N/A	P3	0.77
Tufnell Dr	Tufnell Dr	Paddington Rd	N/A	P3	0.18
Tufnell Dr	Paddington Rd	Whicker St	N/A	P3	0.71
Tufnell Dr	Tufnell Dr	End	N/A	P3	0.32
Turnham Dr	Novavista Dr	Sheridan Pl	N/A	P3	0.21
Turnham Dr	Kennington By	Sheridan Pl	N/A	P3	0.89

Twin Pine Rd	Avalon Rd	Riel Av	N/A	P3	0.18
Tyrone By	St Michael Rd	St Michael Rd	N/A	P3	0.54
Upton Pl	Sandrington Dr	End	N/A	P3	0.27
Victor Wyatt Pl	Whitley Dr	End	N/A	P3	0.14
Victoria Cr	Victoria Rw	Delmar St	N/A	P3	0.19
Victoria Cr	St Vital Rd	Lotus Ln	N/A	P3	0.49
Victoria Cr	Lotus Ln	Victoria Gr	N/A	P3	0.40
Victoria Cr	St Vital Rd	Lotus Ln	N/A	P3	0.48
Victoria Cr	Delmar St	Lotus Ln	N/A	P3	0.22
Victoria Cr	Delmar St	Victoria Rw	N/A	P3	1.61
Victoria Gr	Delmar St	End	N/A	P3	0.50
Victoria Rw	Victoria Cr	End	N/A	P3	0.29
Vista Av	Novavista Dr	Vista Av	N/A	P3	0.07
Vista Av	Iowa St	Rattai Pl	N/A	P3	0.30
Vista Av	Iowa St	Wyoming St	N/A	P3	0.41
Vista Av	Rattai Pl	Wisconsin St	N/A	P3	0.11
Vista Av	Wisconsin St	Novavista Dr	N/A	P3	0.45
Vista Av	Wyoming St	End	N/A	P3	0.35
Wakefield By	Pulberry St	Barrington Av	N/A	P3	0.55
Wakopa Pl	Wakopa Pl	Wakopa Pl	N/A	P3	0.11
Wakopa Pl	Bernadette Av	End	N/A	P3	0.42
Wakopa St	Wales Av	Meadowood Dr	N/A	P3	0.25
Wakopa St	Greenwood Av	Wales Av	N/A	P3	0.17
Wakopa St	Greenwood Av	Hazelwood Av	N/A	P3	0.17
Waldport By	River Valley Dr	Elstree Ct	N/A	P3	0.47
Waldport By	Shorehill Dr	Elstree Ct	N/A	P3	0.26
Wales Av	Granby By	St Annes Rd	N/A	P3	0.52
Wales Av	Forrester Av	Granby By	N/A	P3	0.17
Wales Av	Dakota St	Wakopa St	N/A	P3	0.34
Wales Av	Wakopa St	Dells Cr	N/A	P3	0.33
Wales Av	Brentford Rd	Dells Cr	N/A	P3	0.14

Wales Av	Ashworth St	Gascon Rd	N/A	P3	0.43
Wales Av	Ashworth St	Brentford Rd	N/A	P3	0.50
Warde Av	Southside Dr	Evelyne Reese Bv	N/A	P3	0.28
Warrendale Pl	Avalon Rd	End	N/A	P3	0.09
Waterton Dr	Earlton Pl	Bridgetown Dr	N/A	P3	0.38
Waterton Dr	Earlton Pl	Bridgetown Dr	N/A	P3	0.23
Weaver By	Parkville Dr	Pulberry St	N/A	P3	0.72
Weaver By	Parkville Dr	Pulberry St	N/A	P3	0.72
Weeping Willow Dr	Blue Spruce Cr	Minnetonka St	N/A	P3	0.30
Weeping Willow Dr	Blue Spruce Cr	Oakleaf Dr	N/A	P3	0.11
West Fernwood Av	St Marys Rd	Bronstone Bv	N/A	P3	0.51
West Fernwood Av	Bronstone Bv	Dunkirk Dr	N/A	P3	0.18
Westdale Pl	West Fernwood Av	St Marys Rd	N/A	P3	0.59
Westwater Dr	Shorehill Dr	Shorehill Dr	N/A	P3	0.97
Whicker St	Paddington Rd	Tufnell Dr	N/A	P3	0.31
Whitley Dr	Grassington By	Grassington By	N/A	P3	0.16
Whitley Dr	Hawkins Cr	Hawkins Cr	N/A	P3	0.99
Whitley Dr	Ashworth St	Grassington By	N/A	P3	0.15
Whitley Dr	Victor Wyatt Pl	Grassington By	N/A	P3	0.15
Whitley Dr	Hawkins Cr	Victor Wyatt Pl	N/A	P3	0.17
Wildfire Dr	Wildfire Dr	Wildfire Dr	N/A	P3	0.11
Wildfire Dr	Braswell By	Pambrun Pl	N/A	P3	0.21
Wildfire Dr	Pambrun Pl	Pambrun Pl	N/A	P3	0.03
Wildfire Dr	Braswell By	Pambrun Pl	N/A	P3	0.36
Wildfire Dr	Shorehill Dr	Braswell By	N/A	P3	0.19
Wildfire Dr	John Bruce Rd E	Braswell By	N/A	P3	0.23
William Nock Cv	St Michael Rd	End	N/A	P3	0.51
Willmington Dr	Breland By	John Bruce Rd	N/A	P3	0.51
Willmington Dr	Bridgeway Cr	Breland By	N/A	P3	0.18
Willmington Dr	Breland By	Breland By	N/A	P3	0.45
Willowbend Cr	Paddington Rd	Sonning By	N/A	P3	0.54

Willowbend Cr	Paddington Rd	Sonning By	N/A	P3	0.76
Willowmeade Cr	Hollyhock Rd	Brentford Rd	N/A	P3	0.50
Willowmeade Cr	Brentford Rd	Olivewood Cr	N/A	P3	0.27
Willowmeade Cr	Homewood Dr	Olivewood Cr	N/A	P3	0.19
Winslow Dr	Harry Collins Av	River Rd	N/A	P3	0.87
Winslow Dr	Harry Collins Av	Riel Av	N/A	P3	0.71
Wisconsin St	Woodydell Av	Vista Av	N/A	P3	0.24
Woodbury Dr	Pulberry St	Dunkirk Dr	N/A	P3	0.63
Woodford By	Meadowood Dr	Meadowood Dr	N/A	P3	0.63
Woodlawn Av	Glenthorne Cr	Minnetonka St	N/A	P3	0.71
Woodlawn Av	St Marys Rd	Glenthorne Cr	N/A	P3	0.83
Woodydell Av	Iowa St	Wyoming St	N/A	P3	0.41
Woodydell Av	Nakomis By	Iowa St	N/A	P3	0.41
Woodydell Av	Nakomis By	Wisconsin St	N/A	P3	0.29
Woodydell Av	Nakomis By	St Marys Rd	N/A	P3	0.25
Woodydell Av	Dakota St	Wyoming St	N/A	P3	0.41
Woodydell Av	Thunder By	Ashworth St	N/A	P3	0.16
Woodydell Av	Gascon Rd	Thunder By	N/A	P3	0.27
Woodydell Av	Gascon Rd	Bramton St	N/A	P3	0.46
Woodydell Av	Bramton St	St Annes Rd	N/A	P3	0.23
Wright St	St Michael Rd	Bethune Wy	N/A	P3	0.20
Wyoming St	Vista Av	Woodydell Av	N/A	P3	0.24
Wyoming St	Hazelwood Cr	Woodydell Av	N/A	P3	0.17
Wyoming St	Abbotsford Cr	Greenwood Av	N/A	P3	0.17
Wyoming St	Greenwood Av	Hazelwood Cr	N/A	P3	0.17
Yorkwood Dr	Shorehill Dr	Shorehill Dr	N/A	P3	0.92
				Total	219.63

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