



THE CITY OF WINNIPEG

BID OPPORTUNITY

BID OPPORTUNITY NO. 690-2011

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

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PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

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

B2. SUBMISSION DEADLINE

B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, September 16, 2011.

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 D3.1(a).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. ADDENDA

B4.1 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.

B4.2 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.

B4.2.1 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>

B4.2.2 The Bidder is responsible for ensuring that he 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.

B4.3 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.

B5. SUBSTITUTES

- B5.1 The Work is based on the Plant, Materials and methods specified in the Bid Opportunity.
- B5.2 Substitutions shall not be allowed unless application has been made to and prior approval has been granted by the Contract Administrator in writing.
- B5.3 Requests for approval of a substitute will not be considered unless received in writing by the Contract Administrator at least five (5) Business Days prior to the Submission Deadline.
- B5.4 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.
- B5.5 The Contract Administrator, after assessing the request for approval of a substitute, may in his 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.
- B5.6 The Contract Administrator will provide a response in writing, at least two (2) Business Days prior to the Submission Deadline, only to the Bidder who requested approval of the substitute.
- B5.6.1 The Bidder requesting and obtaining the approval of a substitute shall be entirely responsible for disseminating information regarding the approval to any person or persons he wishes to inform.
- B5.7 If the Contract Administrator approves a substitute as an “approved equal”, any Bidder may use the approved equal in place of the specified item.
- B5.8 If the Contract Administrator approves a substitute as an “approved alternative”, any Bidder bidding that approved alternative may base his 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 B13.
- B5.9 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.
- B5.10 Notwithstanding B5.2 to B5.9, and in accordance with B6.5, deviations inconsistent with the Bid Opportunity document shall be evaluated in accordance with B13.1(a).

B6. BID SUBMISSION

- B6.1 The Bid shall consist of the following components:

- (a) Form A: Bid;
 - (b) Form B: Prices;
- B6.2 Further to B6.1, the Bidder should include the written correspondence from the Contract Administrator approving a substitute in accordance with B5.
- B6.3 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 in ink, to constitute a responsive Bid.
- B6.4 Bidders are advised not to include any information/literature except as requested in accordance with B6.1.
- B6.5 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 B13.1(a)
- B6.6 The Bid may be submitted by mail, courier or personal delivery, or by facsimile transmission.
- B6.7 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
- B6.7.1 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.
- B6.8 If the Bid is submitted by facsimile transmission, it shall be submitted to (204) 949-1178.
- B6.8.1 The Bidder is advised that the City cannot take responsibility for the availability of the facsimile machine at any time.
- B6.9 Bids submitted by internet electronic mail (e-mail) will not be accepted.
- B7. BID**
- B7.1 The Bidder shall complete Form A: Bid, making all required entries.
- B7.2 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 own name, his 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 own, the business name and the name of every partner or corporation who is the owner of such business name shall be inserted.
- B7.2.1 If a Bid is submitted jointly by two or more persons, each and all such persons shall identify themselves in accordance with B7.2.
- B7.3 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.
- B7.4 Paragraph 10 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 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 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.

B7.4.1 The name and official capacity of all individuals signing Form A: Bid should be printed below such signatures.

B7.4.2 All signatures shall be original.

B7.5 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.

B8. PRICES

B8.1 The Bidder shall state a price in Canadian funds for each item of the Work identified on Form B: Prices.

B8.1.1 Notwithstanding C11.1.1, prices on Form B: Prices shall not include the Goods and Services Tax (GST) or Manitoba Retail Sales Tax (MRST, also known as PST), which shall be extra where applicable.

B8.2 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.

B8.3 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.

B8.4 Payments to Non-Resident Contractors are subject to Non-Resident Withholding Tax pursuant to the Income Tax Act (Canada).

B9. QUALIFICATION

B9.1 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.

B9.2 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>

B9.3 The Bidder and/or any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:

- (a) have successfully carried out work similar in nature, scope and value to the Work; and
- (b) be fully capable of performing the Work required to be in strict accordance with the terms and provisions of the Contract; and
- (c) have a written workplace safety and health program, if required, pursuant to The Workplace Safety and Health Act (Manitoba);

B9.4 Further to B9.3(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) a valid COR certification number under the Certificate of Recognition (COR) Program administered by the Manitoba Construction Safety Association or by the Manitoba Heavy Construction Association's Safety, Health and Environment 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>)

B9.5 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.

B9.6 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.

B10. OPENING OF BIDS AND RELEASE OF INFORMATION

B10.1 Bid Submissions will not be opened publicly.

B10.2 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>

B10.3 After award of Contract, the name(s) of the successful Bidder(s) 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>

B10.4 The Bidder is advised that any information contained in any Bid may be released if required by City policy or procedures, The Freedom of Information and Protection of Privacy Act (Manitoba), or by other authorities having jurisdiction.

B11. IRREVOCABLE BID

B11.1 The Bid(s) submitted by the Bidder shall be irrevocable for the time period specified in Paragraph 9 of Form A: Bid.

B11.2 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.

B12. WITHDRAWAL OF BIDS

B12.1 A Bidder may withdraw his Bid without penalty by giving written notice to the Manager of Materials at any time prior to the Submission Deadline.

- B12.1.1 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.
- B12.1.2 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 10 of Form A: Bid, and only such person, has authority to give notice of withdrawal.
- B12.1.3 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 10 of Form A: Bid; and
 - (c) if the notice has been given by any one of the persons specified in B12.1.3(b), declare the Bid withdrawn.
- B12.2 A Bidder who withdraws his Bid after the Submission Deadline but before his Bid has been released or has lapsed as provided for in B11.2 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.

B13. EVALUATION OF BIDS

- B13.1 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 B9 (pass/fail);
 - (c) Total Bid Price;
 - (d) economic analysis of any approved alternative pursuant to B5;
- B13.2 Further to B13.1(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.
- B13.3 Further to B13.1(b), the Award Authority shall reject any Bid submitted by a Bidder who does not demonstrate, in his Bid or in other information required to be submitted, that he is responsible and qualified.
- B13.4 Further to B13.1(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.
- B13.4.1 If there is any discrepancy between the Total Bid Price written in figures, the Total Bid Price written in words and the sum of the quantities multiplied by the unit prices for each item, the sum of the quantities multiplied by the unit prices for each item shall take precedence.
- B13.4.2 Further to B13.1(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.
- B13.5 This Contract will be awarded as a whole.

B14. AWARD OF CONTRACT

- B14.1 The City will give notice of the award of the Contract or will give notice that no award will be made.

- B14.2 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.
- B14.2.1 Without limiting the generality of B14.2, 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.
- B14.3 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 B13 .
- B14.3.1 Following the award of contract, a Bidder will be provided with information related to the evaluation of his Bid upon written request to the Contract Administrator.
- B14.4 Notwithstanding C4.1, the City will issue a Purchase Order to the successful Bidder in lieu of the execution of a Contract.
- B14.5 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.
- D1.2 The General Conditions are amended by striking out "The City of Winnipeg Act" wherever it appears in the General Conditions and substituting "The City of Winnipeg Charter".
- D1.3 The General Conditions are amended by striking out "Board of Commissioners" or "Commissioner" wherever it appears in the General Conditions and substituting the "Chief Administrative Officer".
- D1.4 The General Conditions are amended by striking out "Tender Package" wherever it appears in the General Conditions and substituting "Bid Opportunity".
- D1.5 The General Conditions are amended by striking out "Tender Submission" wherever it appears in the General Conditions and substituting "Bidding Procedures".
- D1.6 The General Conditions are amended by striking out "Bidding Instructions" wherever it appears in the General conditions and substituting "Bidding Procedures".

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, 2011 to April 15, 2013, 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, but route, collector and residential streets listed in Appendices A, B and C 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 two (2) winter seasons from October 15, 2011 to April 15, 2013 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 on the Priority I (Regional) Streets System identified in Appendix A;
 - (b) full width snow clearing on the Priority II (Bus Routes and Collectors) Street System identified in Appendix B;
 - (c) full width snow clearing on the Priority III (Residential) Street System identified in Appendix C;
 - (d) 2.7m width snow clearing on backlanes identified on Drawing 1 "Backlanes";
 - (e) snow clearing using truck plows on the Priority I, Priority II and Priority III streets noted in Appendices A, B and C.

- (f) Other winter maintenance activities as required between major snowfalls.

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

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

D3. DEFINITIONS

D3.1 When used in this Bid Opportunity:

- (a) "**Business Day**" means any Calendar Day, other than a Saturday, Sunday, or a Statutory or Civic Holiday;
- (b) "**Submission Deadline**" and "**Time and Dates Set for the Final Receipt of Bids**" means the time and date set out in the Bidding Procedures for final receipt of Bids;
- (c) "**User**" means a person, department or other administrative unit of the City authorized by the Contract Administrator to order Work under this Contract;
- (d) "**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.
- (e) "**Roadway**" means the paved portion of the street that is used exclusively for the passage of motorized vehicles.
- (f) "**Street**" means a highway over which the City of Winnipeg has jurisdiction.
- (g) "**Sidewalk**" means the paved portion of the street that is used exclusively for a passage of pedestrians.
- (h) "**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.
- (i) "**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.
- (j) "**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.
- (k) "**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.

- (l) "**Traffic Lane**" means a 3.6 metre or greater width of pavement.
- (m) "**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.
- (n) "**Bare Pavement**" means that the Contractor shall endeavour to completely clear the full pavement width of snow.
- (o) "**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.
- (p) "**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).
- (q) "**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.
- (r) "**Hauling away**" means the relocation of cleared snow volumes by use of trucks for purposes of transporting to a distant storage location.
- (s) "**Snow**" means all forms of frozen precipitation including ice associated with such snow.
- (t) "**Wing back**" means the Contractor shall push back the windrow to create storage space for snow in future plowing operations.
- (u) "**Cross Walk**" means any sidewalk at street intersections or at signed corridors.
- (v) "**Compacted Snow Surface**" of backlanes 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.

D4. CONTRACT ADMINISTRATOR

D4.1 The Contract Administrator is:

Jim Berezowsky
Support Services Supervisor
104-1155 Pacific Avenue
Winnipeg, MB R3E 3P1
Telephone No. (204) 986-5076
Facsimile No. (204) 986-5566

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 employ.

D5.2 Before commencement of Work, the Contractor shall identify his 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. OPERATOR'S COMPETENCE AND PERFORMANCE

- D6.1 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.
- D6.2 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.

D7. NOTICES

- D7.1 Notwithstanding C22.3, all notices of appeal to the Chief Administrative Officer shall be sent to the attention of the Chief Financial Officer at the following facsimile number:

The City of Winnipeg
Chief Financial Officer
Facsimile No.: (204) 949-1174

SUBMISSIONS

D8. AUTHORITY TO CARRY ON BUSINESS

- D8.1 The Contractor shall be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, or if the Contractor does not carry on business in Manitoba, in the jurisdiction where the Contractor does carry on business, throughout the term of the Contract, and shall provide the Contract Administrator with evidence thereof upon request.

D9. INSURANCE

- D9.1 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, non-owned automobile liability and products and completed operations cover, to remain in place at all times during the performance of the Work;
 - (b) if required, automobile liability insurance for owned automobiles used for or in connection with the Work in the amount of at least two million dollars (\$2,000,000.00), to remain in place at all times during the performance of the Work;
- D9.2 Deductibles shall be borne by the Contractor.
- D9.3 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.

- D9.4 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

D10. COMMENCEMENT

- D10.1 The Contractor shall not commence any Work until he is in receipt of a notice of award from the City authorizing the commencement of the Work.
- D10.2 The Contractor shall not commence any Work on the Site until:
- (a) the Contract Administrator has confirmed receipt and approval of:
 - (i) evidence of authority to carry on business specified in D8;
 - (ii) evidence of the workers compensation coverage specified in C6.14;
 - (iii) evidence of the insurance specified in D9; and
 - (b) the Contractor has attended a meeting with the Contract Administrator, or the Contract Administrator has waived the requirement for a meeting.

D11. TOTAL PERFORMANCE

- D11.1 The Contractor shall achieve Total Performance by June 30, 2013 for Work specified in D2.
- D11.2 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.
- D11.3 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.

D12. PRIME CONTRACTOR – THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA)

- D12.1 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).

PART E - SPECIFICATIONS

GENERAL

E1. APPLICABLE SPECIFICATIONS AND DRAWINGS

E1.1 The following are applicable to the Work:

<u>Drawing No.</u>	<u>Drawing Name/Title</u>
1	Backlanes
2	PI, PII, PIII Streets

E1.2 Bidders are reminded that requests for approval of substitutes as an approved equal or an approved alternative shall be made in accordance with B5.

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 of 12 m upstream 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.

E2.1.8 Snow windrows at hydrants shall be removed a 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 and where directed, by the Contract Administrator. The median cut shall be to a width of 0.6m from the curb face and shall not expose, but be within 100mm of the median surface. The median cut shall be carried out in conjunction with the adjacent grader plow operations, and shall be included in the lane km price.
- E2.1.18 Snow removal at traffic circles shall include the removal of snow from the inner shoulder area, which shall be considered incidental to the full width snow clearing operation.
- E2.1.19 Work for each snow clearing operation shall commence only upon the instructions of the Contract Administrator.
- E2.1.20 Normally, Priority I (Regional) Streets shall receive the highest priority for snow clearing followed by Priority II (Bus Routes and Collectors) Streets and then Priority III (Residential) Streets. However, the Contact Administrator may direct otherwise and the Contractor shall conform to all such directives, either oral or written.
- E2.1.21 The Contractor shall respond immediately to rectify snow clearing deficiencies which generate citizens' complaints. If in the opinion of the Contract Administrator, the response is inadequate, then the City shall have the option of performing the necessary Work and the costs of such Work shall be borne by the Contractor.
- E2.1.22 The Contractor shall coordinate residential plowing location to minimize conflicts with the Garbage / Recycling collection.
- 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.
 - (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.

- (c) A gradual accumulation of snowfall 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 Bid 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.
 - (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.
 - (c) Gradual accumulation of snowfall 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 0.6m 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 Bid 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.
- (c) Gradual accumulation of snowfall resulting in poor street conditions.

E2.4.2 Residential streets shall normally be cleared after Priority 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 Bid 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 The Contractor shall provide zone requirements consisting of no less than two and no greater than 3 12hr shift plow zone to assist the City of Winnipeg's Residential Parking Ban By-law Residential Parking Ban will consist of two time frames, 07:00 – 19:00 and 19:00 – 07:00.

E2.5 BACKLANES (see Drawing 1)

E2.5.1 Backlanes shall normally be cleared after:

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

E2.5.2 Backlanes 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 Backlanes shall be completed within 48 hour period following the commencement time designated by the Contract Administrator.

- E2.5.4 Backlanes 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 backlanes snow clearing will be made at the unit price bid 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 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,

SAE Net	Horsepower	Minimum 75 H.P.
Operating Weight	15,000-20,000 lbs.	
Bucket Size	1.5 – 2.25 cu. yd.	
 - (c) **J3 Class Loaders:** Rubber Tired - 4 Wheel Drive Loader

SAE Net	Horsepower	Minimum 100 H.P.
Operating Weight	21,000-28,000 lbs. (9500 kg to 13000 kg)	
Bucket Size	2.25 – 3.0 cu. yd.	
 - (d) **J5 Class Loaders:** Rubber Tired - 4 Wheel Drive Loader

SAE Net	Horsepower	Minimum 160 H.P.
Operating Weight	31,000 – 41,000 lbs (14000 kg – 18500 kg)	
Bucket Size	2.7 m (8' 9') width	
 - (e) **K4 Class Motor Graders:** Minimum 140 Flywheel Horsepower
 - (f) **K5 Class Motor Graders:** Minimum 160 Flywheel Horsepower
 - (g) **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 hours of official notice from the Contract Administrator or be subject to penalties as outlined in E12.
- 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: Schedule of 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, excluding median turning lanes and at isolated locations where parked cars make the plowing of the curb lane(s) impossible.
 - (d) Notwithstanding E6 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.
 - (g) Snow may be deposited on centre medians when requested 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) 10 motor graders (K4/K5);
 - (b) 12 loaders (J2/J3/J5)
 - (c) 6 truck plows
- E4.2 All equipment shall be made available for inspection by the Contract Administrator or his designate prior to the award of Contract.
- E4.3 The Bidder is not required to own the equipment at the time of the Submission Deadline. The Bidder shall, however, provide the Contract Administrator, within 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 2 metres wide, at least four clearance lights (one green 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 throughout 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

- (a) The truck plows shall be capable of providing a level of performance consistent with the front-mounted truck plows currently in use by the City.
- (b) The truck plows shall 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 2.6 m wide path when fully angled (approximately 40°).
- (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 two-way communications with City staff involved in the inspection of contract snow clearing operations. Failure by the Contractor to supply two-way 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 facsimile transmission (fax machine) and shall supply the facsimile number to the Contract Administrator.

E7. EXTREME SNOWFALL AND BLIZZARD CONDITIONS

- E7.1 The Contractor shall provide snow clearing equipment to keep streets open during the extreme snowfall event if requested by the Contract Administrator. The Contract Administrator shall

evaluate field conditions and at his discretion, continue or terminate the hourly snow clearing operations.

E7.2 Time utilized by the Contractor to keep streets open during the snow storm shall not be part of the time limits established in E2.2 and E2.4.

E7.3 During or after extreme snowfall and/or blizzards, the Contract Administrator may require that streets be opened using both Contract and City forces in order to open such streets and emergency routes as quickly as possible. The Contractor may be required to dispatch his equipment to work inside and outside the contract area with and under the direction of City forces.

E7.4 Once notified by the Contract Administrator of the official start time for the formal snow clearing operations following extreme snowfall and/or blizzards the Contractor shall immediately initiate the snow clearing operation.

E8. QUANTITIES

E8.1 Further to B8 of the Bidding Procedures, the estimated quantities identified on Form B: Schedule of Prices (Unit Price) for the clearing and hauling of snow on the Priority II and III street systems are based on the following:

- (a) **Item No. 1 – Priority I (Regional) Street System:** The approximate quantity is based on 82.01 lane kms 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 128.99 lane kms 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 218.94 lane kms of street for three (3) clearing operations of 0-10 cm.
- (d) **Item No. 4 – Backlanes:** The approximate quantity is based on 28.1 linear kms of backlanes for 6 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 Regional Streets System, Appendix "B" - Priority II Street System and Appendix "C" - Priority III Street System. In the event that streets are either added or deleted, then the total length shall be adjusted correspondingly for the purpose of measurement and payment.

E8.3 Appendix "D" showing the precipitation of snow based on the meteorological summary of the Environment Canada Atmospheric Environment Services for the last 40 years is provided strictly for the information of Bidders.

E9. TRAFFIC MOVEMENT AND PARKING RESTRICTIONS

E9.1 After a significant snowfall, overnight parking may be restricted on Priority I & II streets with the declaration of the Declared Snow Route Parking Ban. This By-Law, when declared by the Director of Public Works, prohibits parking on Priority I and Priority II streets between the hours of midnight and 07:00 am. The ban will normally last for twenty-four (24) hours but may be extended.

E9.2 During snow clearing and hauling operations, the Contractor shall take all reasonable measures to facilitate the movement of traffic in accordance with the Manual of Temporary Traffic Control.

E10. MEASUREMENT AND PAYMENT

E10.1 This section will govern payment for full width street clearing of snow and hauling services for snow removal performed by the Contractor which include:

- (a) Clearing and hauling services for snow after a recent accumulation of snow;
 - (b) Clearing and hauling services after a gradual accumulation of snow where, in the opinion of the Contract Administrator, such clearing and hauling services are warranted;
 - (c) Clearing and hauling services after a recent accumulation of snow combined with a gradual accumulation of snow; and
 - (d) Maintenance snow clearing services between storms and keeping streets open during major snow storms and/or blizzards on the streets specified in this Contract.
- E10.2 In this Contract, each such direction by the Contract Administrator for clearing and hauling services for snow removal and the performance thereof by the Contractor shall be referred to as a "clearing operation".
- E10.3 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.
- E10.4 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 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.
- E10.5 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 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), Priority II (Collector) Streets, and 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 Bid (R) for items (1) to (3), on Form B: Schedule of Prices (Unit Price), 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 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 No payment will be made for gradual accumulation after March 15 of the Contract year in the event that all of the gradual accumulation has completely melted and does not physically exist on the street at the time of a plowing operation initiated by a recent accumulation. This determination will be made by the Contract Administrator.

E10.9 The snow accumulation factor will be determined by the appropriate formula based on the type of accumulation and the quantity of snowfall. The formula to be used to calculate the snow accumulation factor for each payment scenario are identified in the following table and are further detailed in the sections and examples following the table:

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 centimetres of recent accumulation snowfall.
(3) Gradual	Up to but not including Dec. 15 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 centimetres of gradual accumulation snowfall.
(4) Combination of recent and gradual	0-10.0 cm (x) of recent and y cm of gradual up to but not including Dec. 15 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 centimetres of recent accumulation snowfall and y is the number of centimetres of gradual accumulation snowfall.
(5) Combination of recent and gradual	Greater than 10.0 cm of recent (x) and y cm of gradual up to but not including Dec. 15 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 centimetres of recent accumulation snowfall and y is the number of centimetres of gradual accumulation snowfall.

E10.9.1 For a clearing operation required as a result of a recent accumulation of ten (10) cm or less (0-10 cm), the accumulation factor (F) is 1.00. Payment will be made at the unit price Bid 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 Bid x lane kilometres x 1.000).

E10.9.2 For a clearing operation required as a result of a recent accumulation in excess of ten (10) cm, the accumulation factor will be determined by adding 1.000 (which is the factor for the first ten (10) cm) to 90% of the snow accumulation in excess of 10 centimetres divided by 10. Payment will be made at the unit price Bid 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 Bid x lane kilometres x 1.387).

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

Example: Assume that, on February 28, the condition of the Priority III streets was such that a plowing operation was required and that no snowfall had occurred in the past 48 hours. The date of the last clearing operation was January 28 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 Bid x lane kilometres x 1.000).

E10.9.4 For a clearing operation required as result of a recent accumulation of 10.0 cm or less (0-10 cm) and where there has also been gradual accumulation measured up to but not including December 15 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 10, whichever value is greater. Payment will be made at the unit price Bid multiplied by the length in kilometres of traffic lanes cleared multiplied by the snow accumulation factor.

Example: Assume that during the Contract year there has been a snowfall on January 20 of 5.0 cm with severe winds, and in the opinion of the Contract Administrator, there is need for a snow clearing operation. Assume further that 14.5 centimetres 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 Bid x lane kilometres x 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 Bid x lane kilometres x 1.235).

E10.9.5 For a clearing operation required as result of a recent accumulation of greater than 10.0 cm and where there has also been gradual accumulation measured up to but not including December 15 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 ten (10) cm of recent accumulation) to 90% of the recent snow accumulation in excess of 10 centimetres divided by 10 and then adding 30% of the gradual accumulation and divided by 10. Payment will be made at the unit price Bid multiplied by the length in kilometres of traffic lanes cleared multiplied by the snow accumulation factor.

Example - Assume that during the Contract year there has been a snowfall on January 20 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 snow 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 Bid x lane kilometres x 2.227).

E10.10 Payment shall be made for snow clearing services or maintenance snow clearing between snow storms and snow clearing during major storms/blizzards, as specified in E3 of the Specifications at the hourly rate Bid per equipment class on Form B: Schedule of Prices (Unit Price), as the case may be, multiplied by the hours actually worked for each specific class as determined by the Contract Administrator.

- E10.11 Payment for wings, ice blades, and/or straight blades for Motor Graders engaged in a full width snow clearing operation shall be included in the unit price Bid per lane kilometre or kilometre respectively.
- E10.12 Those attachments specifically requested 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 2011 Snow Season".
- E10.13 The City shall guarantee to pay to the Contractor a minimum amount (referred to as the "guaranteed minimum amount") equal to 60% of the Bid price shown on Form B: Schedule of Prices (Unit Price).
- E10.13.1 Payment for Work done shall be as provided in E8 and all such payments shall be deducted from the guaranteed minimum amount.
- E10.13.2 On December 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.
- E10.13.3 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.
- E10.13.4 At the conclusion of the Contract year, all payments received by the Contract or under this Contract for Work done or as an advance on the guaranteed minimum amount will be totalled and that total compared with the guaranteed minimum amount. Only when the total of the payments received is less than the guaranteed minimum amount will additional monies be payable by the City to the Contractor under the terms of this Contract.
- E10.13.5 The Contractor will not be compensated for any inconvenience and costs which may result from excavation Work on the streets, the parking of vehicles on the roadway, vehicle movement, or any other obstruction to his Work.
- E10.13.6 The Contractor shall note that on the P2 street system portion of this Contract, the unit price bid shall include the cost of the 0.6m median cut as specified in the contract.
- E10.13.7 It is the City of Winnipeg's intent to hold back five (5) percent of progress estimates for all Work performed under this Contract as a damage deposit relating to E11 of the Specifications. These funds will be released when damages are rectified in accordance with E11.

E11. DAMAGE TO PUBLIC AND PRIVATE PROPERTY

- E11.1 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 City for verification.
- E11.2 The Contractor shall immediately report damages to City or private property to the Contract Inspector.
- E11.3 Any damage to pavements, boulevards, trees, etc. that in no way present a hazard to either pedestrian or vehicular traffic shall be reported to the Contract Administrator and rectified by the Contractor in accordance with City of Winnipeg specifications prior to June 30 following the

snow clearing season. Damages not rectified by June 30 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.

- E11.4 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 each year.
- E11.5 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.
- E11.6 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.
- E11.7 The Contractor shall replace with equal, any recycling bins or refuse containers destroyed, lost or misplaced by his operations at least (1) day prior to the next refuse day cycle.

E12. PENALTIES

- E12.1 Where the Contractor does not satisfactorily complete the Work on Priority II or III streets in accordance with the time and quality requirements specified in E2, the Contractor shall be assessed a penalty.
- E12.1.1 For Priority I, Priority II and Priority III streets, the penalty shall be in the amount of \$1,500.00 or an amount equal to twenty-five percent (25%) of the unit price bid per lane kilometre multiplied by the lane kilometres not satisfactorily completed multiplied by the snow accumulation factor, whichever is greater.
- E12.1.2 Streets that the Contract Administrator deems to be deficient in whole and not in part will be considered incomplete and may be subject to the above penalty.
- E12.2 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.
- E12.3 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 found to be unsatisfactory in quality within 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.
- E12.4 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.
- E12.5 Where the Contractor fails to replace recycling bins or refuse containers as described in E11.7, the City will replace these items and assess a penalty of \$100.00 per item.

PART F - APPENDICES

APPENDIX A – NORTH AREA (WEST) PRIORITY I

NORTH AREA (WEST) PRIORITY I					
Street Name	From Street	To Street	Snow Route	Priority	Lane Kms
Silver Av	Hamilton Av	Murray Park Rd	Regional	P1	1.56
Portage Av	Thompson Dr	Windham Rd	Regional	P1	0.36
Portage Av	Olive St	Whytefold Rd	Regional	P1	0.54
Portage Av	Best St	Raquette St	Regional	P1	0.27
Portage Av	David St	Bedson St	Regional	P1	0.56
Roblin Bv	Roblin Bv	Moray St	Regional	P1	0.11
Moray St	Ness Av	Ness Av	Regional	P1	0.02
Harris Bv	Portage Av	Portage Av	Regional	P1	0.03
Golf Bv	Portage Av	Portage Av	Regional	P1	0.04
Portage Av	Woodlands Cr	Woodlands Cr	Regional	P1	0.37
Portage Av	Country Club Bv	Woodlands Cr	Regional	P1	0.46
Portage Av	Portage Av	Portage Av	Regional	P1	0.04
Portage Av	Portage Av	Portage Av	Regional	P1	0.03
David St	Portage Av	Portage Av	Regional	P1	0.04
Moray St	Portage Av	Lodge Av	Regional	P1	0.03
Portage Av	Raquette St	Best St	Regional	P1	0.27
Cavalier Dr	Sumach St	Cavalier Dr	Regional	P1	0.03
Ness Av	Sturgeon Rd	Sturgeon Rd	Regional	P1	0.02
Shelley St	Portage Av	Portage Av	Regional	P1	0.04
Assiniboine Cr	Portage Av	Portage Av	Regional	P1	0.03
Moray St	Portage Av	Lodge Av	Regional	P1	0.03
Portage Av	Portage Av	Portage Av	Regional	P1	0.05
Wallasey St	Portage Av	Portage Av	Regional	P1	0.03
Thompson Dr	Portage Av	Portage Av	Regional	P1	0.04
Saskatchewan Av	Hamilton Av	Cavalier Dr	Regional	P1	2.22
Best St	Portage Av	Portage Av	Regional	P1	0.03
Sturgeon Rd	Sturgeon Rd	Sturgeon Rd	Regional	P1	0.03
Caron Av	Sturgeon Rd	Sturgeon Rd	Regional	P1	0.02
Portage Av	Parkdale St	Westwood Dr	Regional	P1	0.38
Portage Av	Greenway Cr E	Golf Bv	Regional	P1	0.12
Portage Av	Daer Bv	Golf Bv	Regional	P1	0.38
Portage Av	Kirkfield St	School Rd	Regional	P1	0.17
Parkdale St	Parkhill St	Parkdale St	Regional	P1	0.03
Portage Av	School Rd	Shelley St	Regional	P1	0.55
Portage Av	Vimy Rd	Westwood Dr	Regional	P1	0.32
Portage Av	Rouge Rd	Parkdale St	Regional	P1	0.88
Saskatchewan Av	Cub Rd	Hamilton Av	Regional	P1	0.66
Sturgeon Rd	Flamingo Av	Ness Av	Regional	P1	0.35
Sturgeon Rd	Caron Av	Flamingo Av	Regional	P1	0.36
Westwood Dr	Portage Av	Portage Av	Regional	P1	0.03
Moray St	Ness Av	Ness Av	Regional	P1	0.02
Sturgeon Rd	Sturgeon Rd	Sturgeon Rd	Regional	P1	0.02
Oakdean Bv	Portage Av	Portage Av	Regional	P1	0.03
Portage Av	Shelley St	Kirkfield St	Regional	P1	0.38
School Rd	Portage Av	Portage Av	Regional	P1	0.04

Sturgeon Rd	Sturgeon Rd	Sturgeon Rd	Regional	P1	0.02
Ness Av	Ness Av	Ness Av	Regional	P1	0.02
Woodbridge Rd	Portage Av	Portage Av	Regional	P1	0.04
Hallonquist Dr	Sturgeon Rd	Sturgeon Rd	Regional	P1	0.02
Woodlands Cr	Portage Av	Portage Av	Regional	P1	0.04
Sturgeon Rd	Booth Dr	Caron Av	Regional	P1	0.21
Booth Dr	Sturgeon Rd	Sturgeon Rd	Regional	P1	0.02
Sturgeon Rd	Woodgreen Pl	Murray Park Rd	Regional	P1	0.79
Ness Av	Whytefold Rd	Strathmillan Rd	Regional	P1	0.49
Sturgeon Rd	Saskatchewan Av	Saskatchewan Av	Regional	P1	0.02
Strathmillan Rd	Portage Av	Portage Av	Regional	P1	0.04
Raquette St	Portage Av	Portage Av	Regional	P1	0.03
Seaton St	Portage Av	Portage Av	Regional	P1	0.03
Saskatchewan Av	Cavalier Dr	Summit Rd	Regional	P1	0.37
Saskatchewan Av	Hamilton Av	Hamilton Av	Regional	P1	0.02
Saskatchewan Av	Quail Ridge Rd	Cub Rd	Regional	P1	0.38
Portage Av	Parkhill St	Parkdale St	Regional	P1	0.39
Portage Av	Banting Dr	Daer Bv	Regional	P1	0.49
Portage Av	School Rd	Banting Dr	Regional	P1	0.27
Portage Av	School Rd	School Rd	Regional	P1	0.03
School Rd	Portage Av	Portage Av	Regional	P1	0.04
Portage Av	Parkdale St	Muriel St	Regional	P1	0.68
Country Club Bv	Portage Av	Portage Av	Regional	P1	0.04
Ness Av	Whytefold Rd	Olive St	Regional	P1	0.33
Sturgeon Rd	Emerald Grove Dr	Thornton Av	Regional	P1	0.16
Ness Av	Olive St	Rita St	Regional	P1	0.11
Isbister St	Portage Av	Portage Av	Regional	P1	0.03
Portage Av	Westwood Dr	Shelley St	Regional	P1	0.52
Portage Av	Bedson St	David St	Regional	P1	0.56
Portage Av	Country Club Bv	Greenacre Bv	Regional	P1	0.38
Saskatchewan Av	Cavalier Dr	Cavalier Dr	Regional	P1	0.02
Portage Av	Golf Bv	Greenacre Bv	Regional	P1	0.40
Banting Dr	Portage Av	Portage Av	Regional	P1	0.04
Ness Av	Braintree Rd	Moray St	Regional	P1	0.29
Portage Av	Knox St	Buchanan Bv	Regional	P1	0.31
Portage Av	Westwood Dr	Parkhill St	Regional	P1	0.12
Portage Av	Westwood Dr	Westwood Dr	Regional	P1	0.04
Portage Av	Banting Dr	School Rd	Regional	P1	0.27
Portage Av	Shelley St	Vimy Rd	Regional	P1	0.19
Booth Dr	Portage Av	Portage Av	Regional	P1	0.04
Portage Av	Windham Rd	Wallasey St	Regional	P1	0.11
Portage Av	Greenacre Bv	Country Club Bv	Regional	P1	0.39
Ronald St	Portage Av	Portage Av	Regional	P1	0.04
Portage Av	Greenacre Bv	Greenway Cr E	Regional	P1	0.27
Thompson Dr	Ness Av	Ness Av	Regional	P1	0.01
Ness Av	Thompson Dr	Wallasey St	Regional	P1	0.24
Portage Av	Sturgeon Rd	Harris Bv	Regional	P1	0.59
Portage Av	St Charles St	Portage Av WB to PTH 101 NB	No	P1	0.22
Portage Av	Buchanan Bv	Stewart St	Regional	P1	0.29
Portage Av	Stewart St	Isbister St	Regional	P1	0.27
Portage Av	Stewart St	Buchanan Bv	Regional	P1	0.29
Saskatchewan Av	Saskatchewan Av	Buchanan Bv	Regional	P1	0.32

Portage Av	Isbister St	St Charles St	Regional	P1	0.16
Greenacre Bv	Portage Av	Portage Av	Regional	P1	0.04
Portage Av	Woodlands Cr	Country Club Bv	Regional	P1	0.46
Portage Av	Harris Bv	Oakdean Bv	Regional	P1	0.40
St Charles St	Portage Av	Portage Av	Regional	P1	0.03
Country Club Bv	Portage Av	Portage Av	Regional	P1	0.04
Bedson St	Portage Av	Portage Av	Regional	P1	0.03
Stewart St	Portage Av	Portage Av	Regional	P1	0.03
Portage Av	Buchanan Bv	Buchanan Bv	Regional	P1	0.03
Portage Av	Isbister St	Stewart St	Regional	P1	0.27
Portage Av	Buchanan Bv	Buchanan Bv	Regional	P1	0.03
Portage Av	PTH 100 NB to Portage Av EB	St Charles St	No	P1	0.50
Buchanan Bv	Portage Av	Portage Av	Regional	P1	0.03
Buchanan Bv	Portage Av	Portage Av	Regional	P1	0.03
Portage Av	Oakdean Bv	Harris Bv	Regional	P1	0.40
Portage Av	Country Club Bv	Country Club Bv	Regional	P1	0.08
Daer Bv	Portage Av	Portage Av	Regional	P1	0.04
Saskatchewan Av	Buchanan Bv	Buchanan Bv	Regional	P1	0.02
Moray St	Ness Av	Bruce Av	Regional	P1	0.63
Portage Av	Country Club Bv	Country Club Bv	Regional	P1	0.08
Wallasey St	Ness Av	Ness Av	Regional	P1	0.01
Moray St	Moray St	Roblin Bv	Regional	P1	0.21
Sturgeon Rd	Portage Av	Portage Av	Regional	P1	0.03
Portage Av	Golf Bv	Greenway Cr W	Regional	P1	0.42
Lodge Av	Moray St	Moray St	Regional	P1	0.03
Sturgeon Rd	Ness Av	Ness Av	Regional	P1	0.02
Flamingo Av	Sturgeon Rd	Sturgeon Rd	Regional	P1	0.02
Portage Av	Sumach St	Cavalier Dr	Regional	P1	0.37
Sturgeon Rd	Woodgreen Pl	Thornton Av	Regional	P1	0.20
Sturgeon Rd	Sturgeon Rd	Sturgeon Rd	Regional	P1	0.02
Ness Av	Sturgeon Rd	Sturgeon Rd	Regional	P1	0.02
Portage Av	Sturgeon Rd	Woodlands Cr	Regional	P1	0.57
Sturgeon Rd	Ness Av	Ness Av	Regional	P1	0.02
Portage Av	Portage Av	Portage Av	Regional	P1	0.04
Portage Av	Portage Av	Sturgeon Rd	Regional	P1	0.06
Sturgeon Rd	Sturgeon Rd	Ness Av	Regional	P1	0.09
Buchanan Bv	Buchanan Bv	Saskatchewan Av	Non Regional	P1	0.08
Westwood Dr	Portage Av	Portage Av	Regional	P1	0.04
Portage Av	St Charles St	Isbister St	Regional	P1	0.16
Portage Av	St Charles St	St Charles St	No	P1	0.19
Portage Av	Portage Av Twin Bridge Over Sturgeon Creek	Booth Dr	Regional	P1	0.22
Saskatchewan Av	Highwood St	Summit Rd	Regional	P1	1.00
Moray St	Moray St	Portage Av	Regional	P1	0.06
Sturgeon Rd	Portage Av	Portage Av	Regional	P1	0.04
Saskatchewan Av	Sturgeon Rd	Sturgeon Rd	Regional	P1	0.05
Saskatchewan Av	Saskatchewan Av	Sturgeon Rd	Regional	P1	0.43
Saskatchewan Av	Sturgeon Rd	Sturgeon Rd	Regional	P1	0.03
Rouge Rd	Portage Av	Portage Av	Regional	P1	0.04
Portage Av	Wallasey St	Lake St	Regional	P1	0.30
Lake St	Portage Av	Portage Av	Regional	P1	0.04

Ness Av	Strathmillan Rd	Whytefold Rd	Regional	P1	0.49
Whytefold Rd	Ness Av	Ness Av	Regional	P1	0.02
Portage Av	Westwood Dr	Westwood Dr	Regional	P1	0.03
Portage Av	School Rd	School Rd	Regional	P1	0.03
Portage Av	Greenway Cr W	Banting Dr	Regional	P1	0.47
Portage Av	Woodlands Cr	Sturgeon Rd	Regional	P1	0.20
Ness Av	Ness Av	Sturgeon Rd	Regional	P1	0.10
Portage Av	Wallasey St	Thompson Dr	Regional	P1	0.53
Portage Av	Aldine St	Wallasey St	Regional	P1	0.34
Portage Av	Rita St	Olive St	Regional	P1	0.37
Rita St	Portage Av	Portage Av	Regional	P1	0.03
Portage Av	Whytefold Rd	Olive St	Regional	P1	0.52
Portage Av	Bedson St	Best St	Regional	P1	0.27
Portage Av	Vernon Rd	Assiniboine Cr	Regional	P1	0.19
Moray St	Portage Av	Portage Av	Regional	P1	0.04
Portage Av	Assiniboine Cr	Whytefold Rd	Regional	P1	0.39
Ness Av	Moray St	Moray St	Regional	P1	0.03
Moray St	Bruce Av	Ness Av	Regional	P1	0.63
Portage Av	Old Mill Rd	Ronald St	Regional	P1	0.45
Olive St	Portage Av	Portage Av	Regional	P1	0.04
Ness Av	Moray St	Moray St	Regional	P1	0.03
Portage Av	Portage Av	Portage Av	Regional	P1	0.04
Strathmillan Rd	Ness Av	Ness Av	Regional	P1	0.01
Moray St	Lodge Av	Bruce Av	Regional	P1	0.64
Portage Av	Harcourt St	Old Mill Rd	Regional	P1	0.15
Portage Av	Old Mill Rd	Harcourt St	Regional	P1	0.15
Portage Av	Portage Av	Portage Av	Regional	P1	0.04
Sturgeon Rd	Hallonquist Dr	Booth Dr	Regional	P1	0.22
Portage Av	Raquette St	Seaton St	Regional	P1	0.26
Prairie View Rd	Ness Av	Ness Av	Regional	P1	0.02
Portage Av	Woodhaven Bv	Ronald St	Regional	P1	0.26
Portage Av	Portage Av	Moray St	Regional	P1	0.08
Ness Av	Thompson Dr	Thompson Dr	Regional	P1	0.03
Ness Av	Harcourt St	Thompson Dr	Regional	P1	0.40
Sturgeon Rd	Saskatchewan Av	Saskatchewan Av	Regional	P1	0.03
Thompson Dr	Ness Av	Ness Av	Regional	P1	0.01
Ness Av	Wallasey St	Thompson Dr	Regional	P1	0.24
Ness Av	Thompson Dr	Thompson Dr	Regional	P1	0.03
Ness Av	Prairie View Rd	Harcourt St	Regional	P1	0.57
Portage Av	Woodbridge Rd	Thompson Dr	Regional	P1	0.36
Portage Av	Thompson Dr	Woodbridge Rd	Regional	P1	0.33
Moray St	Moray St	Portage Av	Regional	P1	0.05
Portage Av	Woodlands Cr	Sturgeon Rd	Regional	P1	0.04
Moray St	Portage Av	Portage Av	Regional	P1	0.04
Portage Av	Moray St	Moray St	Regional	P1	0.06
Portage Av	Moray St	Moray St	Regional	P1	0.06
Ness Av	Moray St	Ainslie St	Regional	P1	0.18
Ness Av	Ness Av	Ness Av	Regional	P1	0.03
Portage Av	Ronald St	Woodhaven Bv	Regional	P1	0.26
Ness Av	Sturgeon Rd	Prairie View Rd	Regional	P1	0.81
Whytefold Rd	Portage Av	Portage Av	Regional	P1	0.03
Portage Av	Moray St	Rita St	Regional	P1	1.47
Portage Av	Cavalier Dr	Rouge Rd	Regional	P1	0.36

Portage Av	Rouge Rd	Cavalier Dr	Regional	P1	0.40
Portage Av	Muriel St	Rouge Rd	Regional	P1	0.44
Ness Av	Thompson Dr	Prairie View Rd	Regional	P1	0.97
Ness Av	Prairie View Rd	Sturgeon Rd	Regional	P1	0.81
Sturgeon Rd	Caron Av	Booth Dr	Regional	P1	0.21
Ness Av	Rita St	Olive St	Regional	P1	0.11
Bruce Av	Moray St	Moray St	Regional	P1	0.06
Ness Av	Olive St	Whytefold Rd	Regional	P1	0.25
Ness Av	Olive St	Olive St	Regional	P1	0.08
Old Mill Rd	Portage Av	Portage Av	Regional	P1	0.04
Portage Av	Woodhaven Bv	Booth Dr	Regional	P1	0.41
Portage Av	Seaton St	Raquette St	Regional	P1	0.26
Portage Av	Seaton St	Sumach St	Regional	P1	0.26
Woodhaven Bv	Portage Av	Portage Av	Regional	P1	0.04
Portage Av	Woodbridge RD	Harcourt St	Regional	P1	0.53
Portage Av	Whytefold Rd	Assiniboine Cr	Regional	P1	0.39
Portage Av	Olive St	Rita St	Regional	P1	0.39
Portage Av	Harcourt St	Woodbridge Rd	Regional	P1	0.53
Portage Av	Best St	Bedson St	Regional	P1	0.27
Portage Av	David St	Knox St	Regional	P1	1.21
Portage Av	Booth Dr	Woodhaven Bv	Regional	P1	0.41
Portage Av	Portage Av	Moray St	Regional	P1	0.06
Moray St	Bruce Av	Lodge Av	Regional	P1	0.64
Saskatchewan Av	PTH 101	Saskatchewan Av	Regional	P1	0.65
Portage Av	Buchanan Bv	David St	Regional	P1	1.51
Sturgeon Rd	Booth Dr	Hallonquist Dr	Regional	P1	0.22
Harcourt St	Portage Av	Portage Av	Regional	P1	0.04
Sturgeon Rd	Sturgeon Rd	Saskatchewan Av	Regional	P1	0.60
Sturgeon Rd	Saskatchewan Av	Sturgeon Rd	Regional	P1	0.58
Sturgeon Rd	Ness Av	Flamingo Av	Regional	P1	0.35
Sturgeon Rd	Flamingo Av	Caron Av	Regional	P1	0.36
Portage Av	Ronald St	Old Mill Rd	Regional	P1	0.45
Ness Av	Wallasey St	Moray St	Regional	P1	0.34
Portage Av	Harris Bv	Sturgeon Rd	Regional	P1	0.57
Portage Av	Lake St	Moray St	Regional	P1	0.46
Portage Av	Moray St	Aldine St	Regional	P1	0.39
Portage Av	Ainslie St	Moray St	Regional	P1	0.40
Portage Av	Rita St	Ainslie St	Regional	P1	1.07
Moray St	Moray St Bridge	Roblin Bv	Regional	P1	0.78
Moray St	Portage Av	Lodge Av	Regional	P1	1.02
Portage Av	Cavalier Dr	Sumach St	Regional	P1	0.63
Portage Av	Portage Av	Portage Av	Regional	P1	0.04
Portage Av	Assiniboine Cr	Strathmillan Rd	Regional	P1	0.61
Portage Av	Strathmillan Rd	Vernon Rd	Regional	P1	0.43
Sturgeon Rd	Ness Av	Sturgeon Rd	Regional	P1	0.25
Ness Av	Ainslie St	Rita St	Regional	P1	0.53
Sturgeon Rd	Emerald Grove Dr	Ness Av	Regional	P1	0.39
Moray St	Lodge Av	Portage Av	Regional	P1	1.01
Moray St Bridge	Moray St	Moray St	Regional	P1	0.35
Moray St	Pinewood Dr	Portage Av	Regional	P1	0.24
Moray St	Moray St Bridge	Roblin Bv	Regional	P1	0.77
Ness Av	Rita St	Braintree Rd	Regional	P1	0.42
Ness Av	Moray St	Wallasey St	Regional	P1	0.35

Portage Av	Oakdean Bv	Portage Av Twin Bridge Over Sturgeon Creek	Regional	P1	0.14
Saskatchewan Av	PTH 101	Buchanan Bv	Regional	P1	0.96
Saskatchewan Av	Buchanan Bv	Highwood St	Regional	P1	0.33
Saskatchewan Av	Sturgeon Rd	Quail Ridge Rd	Regional	P1	0.46
Sturgeon Rd	Murray Park Rd	Saskatchewan Av	Regional	P1	1.49
Sturgeon Rd	Saskatchewan Av	Four Mile Rd	Regional	P1	6.57
Portage Av Twin Bridge Over Sturgeon Creek	Portage Av	Portage Av	Regional	P1	0.24
Portage Av	Booth Dr	Portage Av Twin Bridge Over Sturgeon Creek	Regional	P1	0.23
Portage Av	Portage Av Twin Bridge Over Sturgeon Creek	Oakdean Bv	Regional	P1	0.10
Portage Av Twin Bridge Over Sturgeon Creek	Portage Av	Portage Av	Regional	P1	0.23
Sturgeon Rd Crossing of Sturgeon Creek	Sturgeon Rd	Sturgeon Rd	Regional	P1	0.10
Moray St Bridge	Moray St	Moray St	Regional	P1	0.35
Moray St	Portage Av	Moray St Bridge	Regional	P1	0.58
Moray St	Pinewood Dr	Moray St Bridge	Regional	P1	0.33
Sturgeon Rd	Portage Av	Sturgeon Rd Crossing of Sturgeon Creek	Regional	P1	0.15
Sturgeon Rd	Sturgeon Rd Crossing of Sturgeon Creek	Hallonquist Dr	Regional	P1	0.48
Sturgeon Rd Crossing of Sturgeon Creek	Sturgeon Rd	Sturgeon Rd	Regional	P1	0.10
Sturgeon Rd	Sturgeon Rd Crossing of Sturgeon Creek	Portage Av	Regional	P1	0.15
Sturgeon Rd	Hallonquist Dr	Sturgeon Rd Crossing of Sturgeon Creek	Regional	P1	0.47

TOTAL	82.01
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APPENDIX B – NORTH AREA (WEST) PRIORITY II

NORTH AREA (WEST) PRIORITY II					
Street Name	From Street	To Street	Snow Route	Priority	Lane Kms
Valley View Dr	Heritage Bv	Valley View Pl	No	P2	0.70
Moray St	Murray Park Rd	Strauss Dr	Non Regional	P2	1.41
Voyageur Av	Cavalier Dr	Bissett Cr	Non Regional	P2	0.18
Crestview Park Dr	Inch By	Voyageur Av	Non Regional	P2	0.26
Flamingo Av	Athlone Dr	Meadowlark Pl	No	P2	0.44
Murray Park Rd	Cree Cr	Moray St	Non Regional	P2	0.27
Country Club Bv	Pinehurst Cr	Hagen Dr	No	P2	0.15
Booth Dr	Meadowlark Pl	Bruce Av	Non Regional	P2	0.32
Westwood Dr	Sandburg By	Thackeray Av	Non Regional	P2	0.18
Ness Av	Setter St	Sturgeon Rd	Non Regional	P2	0.25
Harris Bv	Armour Cr	Emo Av	Non Regional	P2	0.26
Lodge Av	Olive St	Whytefold Rd	Non Regional	P2	0.25
Browning Bv	Pinehurst Cr	Wordsworth Wy	Non Regional	P2	0.17
Augier Av	Gagnon St	Oxbow Bend Rd	Non Regional	P2	0.42
Ness Av	Heritage Bv	Pebblewood Ln	Non Regional	P2	0.16
Chapman Rd	Hamilton Av	South Lake Dr	No	P2	0.12
Buchanan Bv	Livinia Av	Fairlane Av	Non Regional	P2	0.53
Buchanan Bv	Buchanan Bv	Buchanan Bv	Non Regional	P2	0.02
Isbister St	Fairlane Av	Ness Av	Non Regional	P2	0.51
Westwood Dr	Frost Av	Haliburton By	Non Regional	P2	0.18
Bruce Av	Nightingale Rd	Thompson Dr	Non Regional	P2	0.22
Lodge Av	Harcourt St	Nightingale Rd	Non Regional	P2	0.18
Assiniboine Av	Rouge Rd	Scalena Pl	Non Regional	P2	0.18
Country Club Bv	Country Club Bv	Country Club Bv	Non Regional	P2	0.04
Country Club Bv	Country Club Bv	Country Club Bv	Non Regional	P2	0.04
Assiniboine Av	Longfellow By	Scalena Pl	Non Regional	P2	0.17
Stradford St	Capulet Cr	Hamilton Av	No	P2	0.16
Lodge Av	Nightingale Rd	Thompson Dr	Non Regional	P2	0.22
Hamilton Av	Apple Ln	Saskatchewan Av	Non Regional	P2	0.28
Hamilton Av	Dohaney Cr	Sonnichsen Pl	Non Regional	P2	0.31
Westwood Dr	Browning Bv	Wordsworth Wy	Non Regional	P2	0.17
Isbister St	Downs Av	Livinia Av	Non Regional	P2	0.29
Isbister St	Bernadine Cr	Fairlane Av	Non Regional	P2	0.06
St Charles St	Lepine Av	Sansome Av	Non Regional	P2	0.33
Fairlane Av	Freemont By	Ridley St	Non Regional	P2	0.40
Fairlane Av	Cavalier Dr	Ridley St	Non Regional	P2	0.36
Hamilton Av	Chapman Rd	Redfern Rd	Non Regional	P2	0.54
Buchanan Bv	Fairlane Av	Livinia Av	Non Regional	P2	0.53
Hamilton Av	Sonnichsen Pl	Apple Ln	Non Regional	P2	0.31
Cavalier Dr	Bancroft By	Hillary Cr	Non Regional	P2	0.28
Cavalier Dr	Danbury By	Fairlane Av	Non Regional	P2	0.13
Hamilton Av	Isbister St	Stradford St	No	P2	0.18
Hamilton Av	Parkhill St	Vimy Rd	Non Regional	P2	0.24
Cavalier Dr	Hamilton Av	Hamilton Av	Non Regional	P2	0.02
McBey Av	Westwood Dr	Westwood Dr	Non Regional	P2	0.02
Morgan Cr	Carson By	Doran By	No	P2	0.46

Rouge Rd	Peary Cr	Sansome Av	Non Regional	P2	0.19
Rouge Rd	Jolliett Cr	Sansome Av	Non Regional	P2	0.19
Sansome Av	Westwood Dr	Westwood Dr	Non Regional	P2	0.02
Hamilton Av	Valley View Pl	Silver Av	Non Regional	P2	0.39
Apple Ln	Hamilton Av	Hamilton Av	Non Regional	P2	0.02
Browning Bv	Westwood Dr	Westwood Dr	Non Regional	P2	0.02
Hamilton Av	Redfern Rd	Chapman Rd	Non Regional	P2	0.55
Cavalier Dr	Moccasin By	Voyageur Av	Non Regional	P2	0.16
Browning Bv	Reynolds By	Whitegates Cr	No	P2	0.23
Country Club Bv	Pine Valley Dr	Park Meadows Dr	No	P2	0.03
Bruce Av	Olive St	Whytefold Rd	Non Regional	P2	0.25
Moray St	Murray Park Rd	Murray Park Rd	Non Regional	P2	0.03
St Charles St	Augier Av	Sansome Av	Non Regional	P2	0.34
Heritage Bv	Harvest Ln	Fieldstone By	Non Regional	P2	0.36
Wihuri Rd	Whytefold St	Saskatchewan Av	Non Regional	P2	1.77
Bedson St	Coleridge Park Dr	Holt Dr	Non Regional	P2	0.59
Moray St	Murray Park Rd	Murray Park Rd	Non Regional	P2	0.03
Moray St	Saskatchewan Av	Saulteaux Cr	Non Regional	P2	0.99
McBey Av	Banting Dr	Daer Bv	Non Regional	P2	0.24
Saulteaux Cr	Moray St	Moray St	Non Regional	P2	1.35
Murray Park Rd	Murray Park Rd	Murray Park Rd	Non Regional	P2	0.02
Crestview Park Dr	Cavalier Dr	Carberry Cr	Non Regional	P2	0.18
Saskatchewan Av	Saskatchewan Av	Moray St	Non Regional	P2	0.24
Moray St	Saskatchewan Av	Saskatchewan Av	Non Regional	P2	0.02
Valley View Pl	Carriage Rd	Valley View Dr	No	P2	0.12
Heritage Bv	Valley View Dr	Valley View Dr	Non Regional	P2	0.16
Browning Bv	Raquette St	Whitegates Cr	No	P2	0.35
Browning Bv	Rouge Rd	Wordsworth Wy	Non Regional	P2	0.17
Fairlane Av	David St	Goswell Rd	Non Regional	P2	0.14
Silver Av	Whytefold Rd	End	No	P2	0.26
Ness Av	Parkdale St	Sage Cr	Non Regional	P2	0.19
Browning Bv	Westwood Dr	Wordsworth Wy	Non Regional	P2	0.81
Lumsden Av	Buchanan Bv	Risbey Cr	Non Regional	P2	0.20
Cavalier Dr	Ashern Rd	Bissett Cr	Non Regional	P2	0.29
Westwood Dr	Henday By	Magellan By	Non Regional	P2	0.16
School Rd	Amarynth Cr	Ness Av	Non Regional	P2	0.37
Westwood Dr	Westwood Dr	Westwood Dr	Non Regional	P2	0.02
Browning Bv	Shelley St	Westwood Dr	Non Regional	P2	0.15
Browning Bv	Reynolds By	Rouge Rd	No	P2	0.26
Rouge Rd	Browning Bv	Jolliett Cr	Non Regional	P2	0.52
Hamilton Av	Sonnichsen Pl	Silver Av	Non Regional	P2	0.46
Hamilton Av	Saskatchewan Av	Dohaney Cr	Non Regional	P2	0.28
McBey Av	Greenacre Bv	Country Club Bv	Non Regional	P2	0.19
Saskatchewan Av	Moray St	West Hangar Rd	Non Regional	P2	0.02
Rouge Rd	Assiniboine Av	Scalena Pl	Non Regional	P2	0.17
St Charles St	Allard Av	Oxbow Bend Rd	Non Regional	P2	0.29
St Charles St	Allard Av	Lepine Av	Non Regional	P2	0.34
Isbister St	Capulet Cr	Hamilton Av	Non Regional	P2	0.54
McBey Av	Shelley St	Kirkfield St	Non Regional	P2	0.19
Fairlane Av	Buchanan Bv	Stewart St	Non Regional	P2	0.19
Heritage Bv	Harvest Ln	Carriage Rd	Non Regional	P2	0.16
Fairlane Av	David St	Freemont By	Non Regional	P2	0.50
Buchanan Bv	Risbey Cr	Lumsden Av	Non Regional	P2	0.51

Westwood Dr	Amundsen By	Henday By	Non Regional	P2	0.16
Voyageur Av	Crestview Park Dr	Deerhorn Ln	Non Regional	P2	0.17
Thompson Dr	Thompson Dr	Thompson Dr	Non Regional	P2	0.03
Westwood Dr	Byrd Av	Amundsen By	Non Regional	P2	0.16
Muriel St	Portage Av	Ness Av	No	P2	1.36
Cavalier Dr	Fairlane Av	Portage Av	Non Regional	P2	0.72
Silver Av	Hamilton Av	Hamilton Av	Non Regional	P2	0.02
McBey Av	Summerlands Bv	Woodlands Cr	Non Regional	P2	0.19
Quail Ridge Rd	Apple Ln	Opal Pl	Non Regional	P2	1.21
Risbey Cr	Isbister St	Stradford St	No	P2	0.18
Sonnichsen Pl	Hamilton Av	Hamilton Av	Non Regional	P2	0.02
Buchanan Bv	Buchanan Bv	Buchanan Bv	Non Regional	P2	0.02
Lumsden Av	Buchanan Bv	Buchanan Bv	Non Regional	P2	0.02
Rogan Dr	Hamilton Av	Hamilton Av	Non Regional	P2	0.02
Hamilton Av	Hamilton Av	Hamilton Av	Non Regional	P2	0.02
Bedson St	Dickens Dr	Sansome Av	Non Regional	P2	0.18
Valley View Pl	Carriage Rd	Hamilton Av	No	P2	0.09
Parkdale St	Hamilton Av	Hamilton Av	Non Regional	P2	0.02
Hamilton Av	Silver Av	Valley View Pl	Non Regional	P2	0.39
Cree Cr	Murray Park Rd	Murray Park Rd	Non Regional	P2	0.02
Rouge Rd	Erlandson Dr	West Av	Non Regional	P2	0.26
Hallonquist Dr	Setter St	Sturgeon Rd	Non Regional	P2	0.25
Hamilton Av	Hamilton Av	Hamilton Av	Non Regional	P2	0.02
Lumsden Av	Kay Cr	Lake Ridge Rd	Non Regional	P2	0.32
Buchanan Bv	Buchanan Bv	Buchanan Bv	Non Regional	P2	0.02
Buchanan Bv	Hamilton Av	Risbey Cr	Non Regional	P2	0.18
Sansome Av	Rouge Rd	Whitegates Cr	Non Regional	P2	0.49
Isbister St	Risbey Cr	End	No	P2	0.09
Bedson St	Allard Av	Twain Dr	Non Regional	P2	0.33
Rouge Rd	Byrd Av	Davis Cr	Non Regional	P2	0.16
Apple Ln	Cub Rd	Quail Ridge Rd	Non Regional	P2	0.37
Buchanan Bv	Buchanan Bv	Buchanan Bv	Non Regional	P2	0.02
Isbister St	Dundurand Av	Portage Av	Non Regional	P2	0.24
Cavalier Dr	Deloraine Dr	Saskatchewan Av	Non Regional	P2	0.12
Cavalier Dr	Saskatchewan Av	Deloraine Dr	Non Regional	P2	0.12
Cavalier Dr	Hedges By	Hollingsworth Av	Non Regional	P2	0.16
Bruce Av	Harcourt St	Nightingale Rd	Non Regional	P2	0.18
Country Club Bv	Pine Valley Dr	Pinehurst Cr	No	P2	0.19
Westwood Dr	Magellan By	Sansome Av	Non Regional	P2	0.18
Buchanan Bv	Ness Av	Fairlane Av	Non Regional	P2	0.51
Buchanan Bv	Fairlane Av	Ness Av	Non Regional	P2	0.51
Lumsden Av	Galbraith Cr	Risbey Cr	Non Regional	P2	0.18
Lumsden Av	Lake Ridge Rd	Normandy Dr	Non Regional	P2	0.16
Lumsden Av	Ashern Rd	Normandy Dr	Non Regional	P2	0.16
Allard Av	Raquette St	Best St	Non Regional	P2	0.17
Hamilton Av	Buchanan Bv	Buchanan Bv	Non Regional	P2	0.02
Meadowlark Pl	Athlone Dr	Flamingo Av	No	P2	0.38
Kay Cr	North Lake Dr	South Lake Dr	No	P2	0.27
South Lake Dr	Kay Cr	Chapman Rd	No	P2	0.16
Ness Av	School Rd	Kirby Dr	Non Regional	P2	0.43
Kay Cr	Galbraith Cr	North Lake Dr	No	P2	0.05
Buchanan Bv	Peltier Av	Risbey Cr	Non Regional	P2	0.32
Buchanan Bv	Risbey Cr	Peltier Av	Non Regional	P2	0.32

Stradford St	Capulet Cr	Capulet Cr	No	P2	0.37
Hamilton Av	Buchanan Bv	Stewart St	Non Regional	P2	0.19
Bruce Av	Sinawik By	Sinawik By	Non Regional	P2	0.12
Country Club Bv	Park Meadows Dr	Pinehurst Cr	No	P2	0.18
Bedson St	Shakespeare By	Shakespeare By	Non Regional	P2	0.16
Cavalier Dr	Bissett Cr	Lumsden Av	Non Regional	P2	0.32
Assiniboine Av	Barron Dr	Raquette St	Non Regional	P2	0.18
Assiniboine Av	Barron Dr	Maureen St	Non Regional	P2	0.18
Bedson St	Addison Av	Assiniboine Gr	Non Regional	P2	0.37
Bedson St	Assiniboine Gr	Coleridge Park Dr	Non Regional	P2	0.17
McBey Av	Shelley St	Westwood Dr	Non Regional	P2	0.26
Assiniboine Av	Longfellow By	Longfellow By	Non Regional	P2	0.18
Assiniboine Av	Carroll Rd	Westwood Dr	Non Regional	P2	0.44
Bedson St	Addison Av	Shakespeare By	Non Regional	P2	0.16
Whytewold Rd	Beaverbend Cr	Dallas Rd	Non Regional	P2	0.16
Bruce Av	Wallasey St	Thompson Dr	Non Regional	P2	0.25
Cavalier Dr	Hamilton Av	Hillary Cr	Non Regional	P2	0.31
Heritage Bv	Fieldstone By	Fieldstone By	Non Regional	P2	0.16
Westwood Dr	Amundsen By	McBey Av	Non Regional	P2	0.07
Moray St	Saulteaux Cr	Saulteaux Cr	Non Regional	P2	0.44
Prairie View Rd	Athlone Dr	Ness Av	No	P2	0.20
Whytewold Rd	Bruce Av	Baffin Cr	Non Regional	P2	0.16
Whytewold Rd	Bourkewood Pl	Ness Av	Non Regional	P2	0.15
Voyageur Av	Bellavista Cr	Sandylands Pl	Non Regional	P2	0.21
Crestview Park Dr	Carberry Cr	Makinak By	Non Regional	P2	0.31
Crestview Park Dr	Leisure By	Inch By	Non Regional	P2	0.17
Wharton Bv	Hamilton Av	Hamilton Av	Non Regional	P2	0.02
Westwood Dr	Thackeray Av	Carlyle By	Non Regional	P2	0.20
Ness Av	Sage Cr	Muriel St	Non Regional	P2	0.15
Parkhill St	Hamilton Av	Crestview Park Dr	Non Regional	P2	0.02
Hamilton Av	Hamilton Av	Knox St	Non Regional	P2	0.18
Cavalier Dr	Danbury By	Ness Av	Non Regional	P2	0.44
Fairlane Av	Buchanan Bv	Buchanan Bv	Non Regional	P2	0.02
Ness Av	School Rd	Wharton Bv	Non Regional	P2	0.17
School Rd	Amarynth Cr	Wharton Bv	Non Regional	P2	0.42
School Rd	Alguire Av	Antoine Av	Non Regional	P2	0.16
Country Club Bv	Mcbey Av	Meadowside Dr	Non Regional	P2	0.56
Assiniboine Av	Rouge Rd	Maureen St	Non Regional	P2	0.52
Westwood Dr	Magellan By	Henday By	Non Regional	P2	0.33
Westwood Dr	Westwood Dr	Westwood Dr	Non Regional	P2	0.02
Westwood Dr	McBey Av	Amundsen By	Non Regional	P2	0.09
Isbister St	Hamilton Av	Ness Av	Non Regional	P2	0.53
Bedson St	Sansome Av	Twain Dr	Non Regional	P2	0.18
Bedson St	Keats Wy	Twain Dr	Non Regional	P2	0.16
Heritage Bv	Pebblewood Ln	Ness Av	Non Regional	P2	0.15
Westwood Dr	Kilmer Av	Haliburton By	Non Regional	P2	0.18
Westwood Dr	Haliburton By	Robert Service By	Non Regional	P2	0.18
Lodge Av	Booth Dr	Ronald St	Non Regional	P2	0.06
Quail Ridge Rd	Apple Ln	Hollyburn Rd	Non Regional	P2	0.17
McBey Av	Golf Bv	Greenacre Bv	Non Regional	P2	0.20
Isbister St	Lumsden Av	Risbey Cr	Non Regional	P2	0.45
Stradford St	Risbey Cr	Risbey Cr	No	P2	0.25
Isbister St	Livinia Av	Dundurand Av	Non Regional	P2	0.46

Fairlane Av	Goswell Rd	Knox St	Non Regional	P2	0.64
Woodhaven Bv	Wooddale Dr	Assiniboine Av	Non Regional	P2	0.49
Buchanan Bv	Lumsden Av	Risbey Cr	Non Regional	P2	0.51
Westwood Dr	Magellan By	Magellan By	Non Regional	P2	0.16
Isbister St	Bernadine Cr	Downs Av	Non Regional	P2	0.17
Cree Cr	Murray Park Rd	Saulteaux Cr	Non Regional	P2	0.02
Cree Cr	Murray Park Rd	Murray Park Rd	Non Regional	P2	1.99
Moray St	Saulteaux Cr	Moray St	Non Regional	P2	0.33
Allard Av	Pontiac By	Pontiac By	Non Regional	P2	0.16
Sansome Av	Jolliett Cr	Peary Cr	Non Regional	P2	0.34
Sansome Av	Peary Cr	Rouge Rd	Non Regional	P2	0.35
Rouge Rd	Galinee By	Galinee By	Non Regional	P2	0.16
Isbister St	Capulet Cr	Lumsden Av	Non Regional	P2	0.51
McBey Av	Daer Bv	Golf Bv	Non Regional	P2	0.19
Hamilton Av	Silver Av	Sonnichsen Pl	Non Regional	P2	0.46
Thornton Av	Carriage Rd	Sturgeon Rd	Non Regional	P2	0.26
Hamilton Av	Rogan Dr	Parkdale St	Non Regional	P2	0.25
Westwood Dr	Henday By	Amundsen By	Non Regional	P2	0.33
Hamilton Av	Redfern Rd	Knox St	Non Regional	P2	0.38
Kay Cr	North Lake Dr	Lumsden Av	No	P2	0.15
Kay Cr	Galbraith Cr	North Lake Dr	No	P2	0.11
Westwood Dr	Leacock Av	Frost Av	Non Regional	P2	0.18
Bedson St	Allard Av	Keats Wy	Non Regional	P2	0.17
Apple Ln	Hamilton Av	Hamilton Meadows Dr	Non Regional	P2	0.11
Harris Bv	Armour Cr	Armour Cr	Non Regional	P2	0.59
McBey Av	Country Club Bv	Summerlands Bv	Non Regional	P2	0.04
Cavalier Dr	Gerrond By	Hamilton Av	Non Regional	P2	0.15
Hamilton Av	Parkdale St	Rogan Dr	Non Regional	P2	0.25
Hamilton Av	Crestview Park Dr	Parkdale St	Non Regional	P2	0.19
Bruce Av	Sinawik By	Ainslie St	Non Regional	P2	0.20
Harris Bv	Portage Av	Armour Cr	Non Regional	P2	0.05
Rouge Rd	Galinee By	Peary Cr	Non Regional	P2	0.16
Booth Dr	Bruce Av	Lodge Av	Non Regional	P2	0.51
Westwood Dr	Henday By	Henday By	Non Regional	P2	0.16
Bruce Av	Rita St	Sinawik By	Non Regional	P2	0.21
Fairlane Av	Isbister St	Stewart St	Non Regional	P2	0.18
Bedson St	Twain Dr	Portage Av	Non Regional	P2	0.55
Allard Av	Seaton St	Sumach St	Non Regional	P2	0.17
Crestview Park Dr	Inch By	Inch By	Non Regional	P2	0.21
Westwood Dr	Amundsen By	McBey Av	Non Regional	P2	0.09
Bedson St	Keats Wy	Keats Wy	Non Regional	P2	0.16
Strauss Dr	Moray St	Moray St	Non Regional	P2	0.03
PTH 100	Augier Av	Oxbox Bend Rd	Non Regional	P2	0.03
Hamilton Av	Knox St	Redfern Rd	Non Regional	P2	0.38
Voyageur Av	Radar Pl	Sandylands Pl	Non Regional	P2	0.14
Apple Ln	Hamilton Meadows Dr	Quail Ridge Rd	Non Regional	P2	0.19
Hamilton Av	Parkdale St	Parkhill St	Non Regional	P2	0.19
Rouge Rd	Browning Bv	Erlandson Dr	Non Regional	P2	0.49
School Rd	Portage Av	School Rd	Non Regional	P2	0.15
McBey Av	Country Club Bv	Country Club Bv	Non Regional	P2	0.04
Meadowlark Pl	Athlone Dr	Booth Dr	No	P2	0.20

Setter St	Hallonquist Dr	End	Non Regional	P2	0.22
Voyageur Av	Deerhorn Ln	Radar Pl	Non Regional	P2	0.26
Crestview Park Dr	Carberry Cr	Inwood Cr	Non Regional	P2	0.09
Lumsden Av	Ashern Rd	Cavalier Dr	Non Regional	P2	0.19
Cavalier Dr	Ashern Rd	Cavalier Dr	No	P2	0.11
St Charles St	St Charles St	St Charles St	No	P2	0.17
Buchanan Bv	Buchanan Bv	Lumsden Av	Non Regional	P2	0.13
Hamilton Av	Wharton Bv	Vimy Rd	Non Regional	P2	0.16
Lumsden Av	Kay Cr	Sabine Cr	Non Regional	P2	0.54
Murray Park Rd	Murray Park Rd	Saulteaux Cr	Non Regional	P2	0.09
Rouge Rd	Allard Av	Galinee By	Non Regional	P2	0.16
Saulteaux Cr	Saulteaux Cr	Murray Park Rd	Non Regional	P2	0.09
Voyageur Av	Bissett Cr	Moccasin By	Non Regional	P2	0.27
Moray St	Murray Park Rd	Moray St	Non Regional	P2	0.14
Augier Av	Oxbow Bend Rd	Augier Av	Non Regional	P2	0.03
Morgan Cr	Highcliff By	Doran By	No	P2	0.52
Ness Av	Parkdale St	Parkhill St	Non Regional	P2	0.19
Allard Av	Pontiac By	Rouge Rd	Non Regional	P2	0.22
Bedson St	Dickens Dr	Shakespeare By	Non Regional	P2	0.16
Whytewold Rd	Bruce Av	Beaverbend Cr	Non Regional	P2	0.16
Voyageur Av	Bellavista Cr	Moccasin By	Non Regional	P2	0.18
Country Club Bv	Meadowside Dr	Mcbey Av	Non Regional	P2	0.56
Lodge Av	Ronald St	Harcourt St	Non Regional	P2	0.29
Allard Av	Bedson St	Best St	Non Regional	P2	0.18
Sansome Av	Raquette St	Whitegates Cr	Non Regional	P2	0.35
Westwood Dr	Wordsworth Wy	Browning Bv	Non Regional	P2	0.17
Allard Av	Pontiac By	Sumach St	Non Regional	P2	0.10
Allard Av	Raquette St	Seaton St	Non Regional	P2	0.17
Sansome Av	Jolliett Cr	Westwood Dr	Non Regional	P2	0.16
Westwood Dr	McBey Av	Byrd Av	Non Regional	P2	0.24
Westwood Dr	Sansome Av	Magellan By	Non Regional	P2	0.18
McBey Av	Banting Dr	Kirkfield St	Non Regional	P2	0.23
Booth Dr	Sturgeon Rd	Meadowlark Pl	Non Regional	P2	0.37
Setter St	Ness Av	Ness Av	Non Regional	P2	0.01
Quail Ridge Rd	Hollyburn Rd	Saskatchewan Av	Non Regional	P2	0.14
Hamilton Av	Valley View Pl	Hamilton Av	Non Regional	P2	0.26
		Crossing of Sturgeon Creek			
Hamilton Av	Hamilton Av	Hamilton Av	Non Regional	P2	0.08
Crossing of Sturgeon Creek					
Hamilton Av	Hamilton Av	Wharton Bv	Non Regional	P2	0.09
	Crossing of Sturgeon Creek				
Rouge Rd	Columbus Cr	Scalena Pl	No	P2	0.12
Ness Av	Setter St	Pebblewood Ln	Non Regional	P2	0.25
Hamilton Av	Vimy Rd	Wharton Bv	Non Regional	P2	0.17
Sansome Av	Bedson St	Raquette St	Non Regional	P2	0.35
Moray St	Moray St	Murray Park Rd	Non Regional	P2	0.13
Country Club Bv	Hagen Dr	Pinehurst Cr	No	P2	0.38
Stradford St	Capulet Cr	Risbey Cr	No	P2	0.69
Westwood Dr	Assiniboine Av	Connor Pl	Non Regional	P2	0.17
Crestview Park Dr	Voyageur Av	Inwood Cr	Non Regional	P2	0.36

Lodge Av	Bruce Av	Lodge Av	Non Regional	P2	0.10
Thompson Dr	Thompson Dr	Ness Av	Non Regional	P2	0.06
Saskatchewan Av	Sturgeon Rd	Saskatchewan Av	Non Regional	P2	0.32
Ness Av	Pebblewood Ln	Setter St	Non Regional	P2	0.25
Crestview Park Dr	Inwood Cr	Makinak By	Non Regional	P2	0.21
Lodge Av	Wallasey St	Thompson Dr	Non Regional	P2	0.25
Apple Ln	Quail Ridge Rd	Cub Rd	Non Regional	P2	0.38
Whytefold Rd	Ness Av	Baffin Cr	Non Regional	P2	0.17
Lodge Av	Aldine St	Wallasey St	Non Regional	P2	0.16
Crestview Park Dr	Inwood Cr	Carberry Cr	Non Regional	P2	0.40
Murray Park Rd	Murray Park Rd	Cree Cr	Non Regional	P2	0.30
Westwood Dr	Westwood Dr	Westwood Dr	Non Regional	P2	0.03
Country Club Bv	Pine Valley Dr	End	No	P2	0.26
Harris Bv	Assiniboine Av	Emo Av	Non Regional	P2	0.72
Rouge Rd	West Av	Columbus Cr	Non Regional	P2	0.30
St Charles St	Oxbow Bend Rd	Portage Av	Non Regional	P2	0.14
Setter St	Setter St	Setter St	No	P2	0.07
Buchanan Bv	Hamilton Av	Ness Av	Non Regional	P2	0.53
Whytefold Rd	Cornwall Av	Bourkewood Pl	Non Regional	P2	0.41
Augier Av	Gagnon St	St Charles St	Non Regional	P2	0.19
Chapman Rd	South Lake Dr	South Lake Dr	No	P2	0.23
Cavalier Dr	Lumsden Av	Voyageur Av	Non Regional	P2	0.13
Buchanan Bv	Ness Av	Hamilton Av	Non Regional	P2	0.54
Browning Bv	Shelley St	Wordsworth Wy	Non Regional	P2	0.33
Crestview Park Dr	Leisure By	Leisure By	Non Regional	P2	0.16
Whytefold Rd	Silver Av	Jameswood Dr	Non Regional	P2	0.11
Silver Av	Whytefold Rd	End	No	P2	0.03
Assiniboine Av	Longfellow By	Carroll Rd	Non Regional	P2	0.35
Cavalier Dr	Hollingsworth Av	Moccasin By	Non Regional	P2	0.16
Cavalier Dr	Deloraine Dr	Ashern Rd	Non Regional	P2	0.16
Westwood Dr	Westwood Dr	Wordsworth Wy	Non Regional	P2	0.15
Lodge Av	Golden Gate By	Golden Gate By	Non Regional	P2	0.16
Lodge Av	Ainslie St	Golden Gate By	Non Regional	P2	0.18
Moray St	Ness Av	Strauss Dr	Non Regional	P2	0.43
Lodge Av	Booth Dr	Ronald St	Non Regional	P2	0.29
Whytefold Rd	Cornwall Av	Jameswood Dr	Non Regional	P2	0.16
Banting Dr	McBey Av	Portage Av	Non Regional	P2	0.59
Bruce Av	Aldine St	Moray St	Non Regional	P2	0.18
Lodge Av	Aldine St	Moray St	Non Regional	P2	0.19
Valley View Pl	Hamilton Av	Hamilton Av	Non Regional	P2	0.02
School Rd	Alguire Av	Amarynth Cr	Non Regional	P2	0.17
Rouge Rd	Byrd Av	Portage Av	Non Regional	P2	0.44
Fairlane Av	Buchanan Bv	Knox St	Non Regional	P2	0.20
Bruce Av	Athlone Dr	Booth Dr	Non Regional	P2	0.28
Bruce Av	Strathmillan Rd	Whytefold Rd	Non Regional	P2	0.49
Hamilton Av	Isbister St	Stewart St	Non Regional	P2	0.18
Whytefold Rd	Carnarvan Rd	Baffin Cr	Non Regional	P2	0.15
Ness Av	Cavalier Dr	Muriel St	Non Regional	P2	0.55
Ness Av	Vimy Rd	Wharton Bv	Non Regional	P2	0.19
School Rd	Antoine Av	Amarynth Cr	Non Regional	P2	0.20
Vimy Rd	Hamilton Av	Hamilton Av	Non Regional	P2	0.02
Rouge Rd	Davis Cr	Ericsson By	Non Regional	P2	0.16
Rouge Rd	Allard Av	Ericsson By	Non Regional	P2	0.17

Country Club Bv	Country Club Bv	Meadowside Dr	Non Regional	P2	0.14
Hamilton Av	Vimy Rd	Parkhill St	Non Regional	P2	0.24
Bruce Av	Moray St	Ainslie St	Non Regional	P2	0.19
Ness Av	Parkhill St	Vimy Rd	Non Regional	P2	0.24
Cavalier Dr	Bancroft By	Ness Av	Non Regional	P2	0.28
Athlone Dr	Flamingo Av	Prairie View Rd	No	P2	0.18
Assiniboine Av	Bedson St	Raquette St	Non Regional	P2	0.35
St Charles St	Augier Av	End	Non Regional	P2	0.33
Moray St	Moray St	Ness Av	Non Regional	P2	0.06
Moray St	Moray St	Moray St	Non Regional	P2	0.02
Bruce Av	Aldine St	Wallasey St	Non Regional	P2	0.16
Ronald St	Portage Av	Lodge Av	Non Regional	P2	0.54
Whytefold Rd	Beaverbend Cr	Lodge Av	Non Regional	P2	0.16
Whytefold Rd	Lodge Av	Portage Av	Non Regional	P2	0.96
Whytefold Rd	Beaverbend Cr	Dallas Rd	Non Regional	P2	0.17
Thompson Dr	Ness Av	Strauss Dr	Non Regional	P2	0.77
Bruce Av	Ronald St	Harcourt St	Non Regional	P2	0.28
Bruce Av	Athlone Dr	Ronald St	Non Regional	P2	0.26
Lodge Av	Golden Gate By	Golden Gate By	Non Regional	P2	0.19
Ness Av	Kirby Dr	Heritage Bv	Non Regional	P2	0.42
Morgan Cr	Cavalier Dr	Highcliff By	No	P2	0.59
Bruce Av	Olive St	Rita St	Non Regional	P2	0.19
Crestview Park Dr	Hamilton Av	Leisure By	Non Regional	P2	0.12
Whytefold Rd	Carnarvan Rd	Baffin Cr	Non Regional	P2	0.16
Lodge Av	Strathmillan Rd	Vernon Rd	Non Regional	P2	0.21
Lodge Av	Ainslie St	Moray St	Non Regional	P2	0.19
Heritage Bv	Carriage By	Pebblewood Ln	Non Regional	P2	0.03
Lodge Av	Olive St	Rita St	Non Regional	P2	0.19
Moray St	Strauss Dr	Murray Park Rd	Non Regional	P2	1.22
Ness Av	Sturgeon Rd	Setter St	Non Regional	P2	0.25
Morgan Cr	Carson By	Cavalier Dr	No	P2	0.26
Buchanan Bv	Lumsden Av	Peltier Av	Non Regional	P2	0.54
Murray Park Rd	Cree Cr	Cree Cr	Non Regional	P2	1.15
Buchanan Bv	Risbey Cr	Hamilton Av	Non Regional	P2	0.18
Thompson Dr	Bruce Av	Lodge Av	No	P2	0.65
Thompson Dr	Strauss Dr	Ness Av	Non Regional	P2	0.54
Country Club Bv	Mcbey Av	Portage Av	Non Regional	P2	0.45
Quail Ridge Rd	Quail Ridge Rd	Quail Ridge Rd	No	P2	0.18
Heritage Bv	Carriage By	Carriage By	Non Regional	P2	0.26
Lodge Av	Whytefold Rd	Vernon Rd	Non Regional	P2	0.28
Saskatchewan Av	Moray St	Saskatchewan Av	Non Regional	P2	0.60
Strauss Dr	Thompson Dr	Moray St	Non Regional	P2	1.39
Strathmillan Rd	Bruce Av	Lodge Av	No	P2	0.64
Booth Dr	Lodge Av	Portage Av	Non Regional	P2	0.36
Booth Dr	Bruce Av	Lodge Av	Non Regional	P2	0.07
Buchanan Bv	Livinia Av	Portage Av	Non Regional	P2	0.61
Buchanan Bv	Portage Av	Livinia Av	Non Regional	P2	0.61
Buchanan Bv	Peltier Av	Lumsden Av	Non Regional	P2	0.55
Buchanan Bv	Saskatchewan Av	Risbey Cr	Non Regional	P2	0.13
Rouge Rd	Scalena Pl	Columbus Cr	Non Regional	P2	0.17
Westwood Dr	Wordsworth Wy	Carlyle Cr	Non Regional	P2	0.18
Hamilton Av	Rogan Dr	Cavalier Dr	Non Regional	P2	0.78
Buchanan Bv	Risbey Cr	Saskatchewan Av	Non Regional	P2	0.13

Moray St	Moray St	Moray St	Non Regional	P2	0.34
Moray St	Moray St	Moray St	Non Regional	P2	0.23
Country Club Bv	Meadowside Dr	Pine Valley Dr	No	P2	0.30
Moray St	Strauss Dr	Ness Av	Non Regional	P2	0.43
Hamilton Av	Knox St	Buchanan Bv	Non Regional	P2	0.20
Westwood Dr	Byrd Av	Portage Av	Non Regional	P2	0.44
Country Club Bv	Portage Av	Mcbey Av	Non Regional	P2	0.45
Westwood Dr	Browning Bv	Sansome Av	Non Regional	P2	0.47
Westwood Dr	Portage Av	Byrd Av	Non Regional	P2	0.44
School Rd	Wharton Bv	Portage Av	Non Regional	P2	0.19
Woodhaven Bv	Woodhaven Cr	Emo Av	Non Regional	P2	0.36
Hamilton Av	Cavalier Dr	Rogan Dr	Non Regional	P2	0.78
Murray Park Rd	Saulteaux Cr	Cree Cr	Non Regional	P2	1.15
Murray Park Rd	Moray St	Saulteaux Cr	Non Regional	P2	0.30
Moray St	Moray St	Murray Park Rd	Non Regional	P2	0.17
Westwood Dr	Browning Bv	Sansome Av	Non Regional	P2	0.48
Hamilton Av	Chapman Rd	Cavalier Dr	Non Regional	P2	1.03
Hamilton Av	Cavalier Dr	Chapman Rd	Non Regional	P2	1.03
Woodhaven Bv	Emo Av	Wooddale Dr	Non Regional	P2	0.39
Saskatchewan Av	Sturgeon Rd	Moray St	Non Regional	P2	2.35
Saulteaux Cr	Murray Park Rd	Moray St	Non Regional	P2	1.16
Setter St	Setter St	Hallonquist Dr	Non Regional	P2	0.29
Saskatchewan Av	Moray St	Wihuri Rd	Non Regional	P2	1.18
Quail Ridge Rd	Apple Ln	Opal Pl	Non Regional	P2	0.32
Murray Park Rd	Cree Cr	Silver Av	Non Regional	P2	0.85
Saskatchewan Av	Wihuri Rd	End	Non Regional	P2	0.45
Whytefold Rd	Silver Av	Wihuri Rd	Non Regional	P2	1.34
Hamilton Av	Hamilton Av	Hamilton Av	Non Regional	P2	0.08
Crossing of Sturgeon Creek					
Hamilton Av	Wharton Bv	Hamilton Av Crossing of Sturgeon Creek	Non Regional	P2	0.10
Hamilton Av	Hamilton Av Crossing of Sturgeon Creek	Valley View Pl	Non Regional	P2	0.28
Woodhaven Bv	Woodhaven Bv	Woodhaven Bv	Non Regional	P2	0.19
Woodhaven Bv	Woodhaven Cr	Woodhaven Cr	Non Regional	P2	0.15
Woodhaven Bv	Woodhaven Cr	Woodhaven Cr	Non Regional	P2	0.12
Woodhaven Bv	Portage Av	Woodhaven Bridge (Sturgeon Cr.)	Non Regional	P2	0.16

TOTAL 128.99

APPENDIX C – NORTH AREA (WEST) PRIORITY III

NORTH AREA (WEST) PRIORITY III					
Street Name	From Street	To Street	Snow Route	Priority	Lane Kms
Valley View Dr	Heritage Bv	Heritage Bv	No	P3	0.61
Leicester Sq	Leicester Sq	Leicester Sq	No	P3	0.45
Old Mill Rd	Portage Av	Woodbridge Rd	No	P3	0.79
Opal Pl	Hamilton Meadows Dr	Quail Ridge Rd	No	P3	0.17
Amarynth Cr	Alguire Av	Antoine Av	No	P3	0.20
Amarynth Cr	School Rd	Antoine Av	No	P3	0.69
Lonsdale Dr	Setter St	Stillwell St	No	P3	0.15
Athlone Dr	Flamingo Av	Flamingo Av	No	P3	0.60
Greenway Cr W	Portage Av	End	No	P3	0.62
Pinehurst Cr	Country Club Bv	Hagen Dr	No	P3	0.31
Thackeray Av	Carroll Rd	Westwood Dr	No	P3	0.38
Wordsworth Pl	Wordsworth Wy	End	No	P3	0.13
Belcourt By	Whitegates Cr	Whitegates Cr	No	P3	0.76
McCarthy St	Oxbow Bend Rd	Ramp Portage EB to PTH 100 SB	No	P3	0.23
Knox St	Livinia Av	Fairlane Av	No	P3	0.53
Mackie By	Gowler Rd	Gowler Rd	No	P3	0.63
Costello Dr	Goswell Rd	Gowler Rd	No	P3	0.24
Athlone Dr	Flamingo Av	Meadowlark Pl	No	P3	0.54
Shakespeare By	Bedson St	Bedson St	No	P3	0.66
Whitegates Cr	Belcourt By	Belcourt By	No	P3	0.17
Raquette St	Addison Cr	Haultain Cr	No	P3	0.33
Ashcroft Pt	Glendale Bv	End	No	P3	0.74
Stewart St	Hamilton Av	Ness Av	No	P3	0.53
Woodgreen Pl	Emerald Grove Dr	Sturgeon Rd	No	P3	0.15
Red Robin Pl	Athlone Dr	Athlone Dr	No	P3	0.46
Augier Av	Oxbow Bend Rd	Perimeter 100 Hw	No	P3	0.10
Assiniboine Av	Oakdean Bv	Sunnyside Bv	No	P3	0.24
Augier Av	St Charles St	End	No	P3	0.10
Lepine Av	St Charles St	End	No	P3	0.10
Olson Wy	Optimist Wy	Bernadine Cr	No	P3	0.23
Bernadine Cr	Downs Av	Olson Wy	No	P3	0.27
Stradford St	Hamilton Av	Ness Av	No	P3	0.37
Dickens Dr	Bedson St	Bedson St	No	P3	1.31
Twain Dr	Allard Av	Bedson St	No	P3	0.91
Keats Wy	Bedson St	Bedson St	No	P3	0.65
Downs Av	Bernadine Cr	Bernadine Cr	No	P3	0.20
Corbett Dr	Costello Dr	Costello Dr	No	P3	0.85
Bernadine Cr	Stradford St	Isbister St	No	P3	0.18
Stradford St	Bernadine Cr	Ness Av	No	P3	0.57
Hamilton Av	Stradford St	Stradford St	No	P3	0.57
Sunnyside Bv	Assiniboine Av	Emo Av	No	P3	0.74
Normandy Dr	Gibraltar By	Lumsden Av	No	P3	0.18
Stewart St	Fairlane Av	Livinia Av	No	P3	0.53
Sansome Av	St Charles St	End	No	P3	0.10

West Av	Maureen St	Whitegates Cr	No	P3	0.31
Livinia Av	Buchanan Bv	Knox St	No	P3	0.20
Barron Dr	Assiniboine Av	Maureen St	No	P3	0.80
Wharton Bv	Hamilton Av	Ness Av	No	P3	1.08
Stewart St	Fairlane Av	Ness Av	No	P3	0.51
School Rd	Ness Av	End	No	P3	0.29
Wordsworth Wy	Browning Bv	Westwood Dr	No	P3	0.56
Armour Cr	Harris Bv	Harris Bv	No	P3	0.93
Meadowside Dr	Park Meadows Dr	Greenacre Bv	No	P3	0.12
Coleridge Park Dr	Bedson St	Galsworthy Pl	No	P3	0.58
Hedges By	Hollingsworth Av	Cavalier Dr	No	P3	0.50
Shelley St	Mcbey Av	Wordsworth Wy	No	P3	0.79
Peltier Av	Buchanan Bv	Risbey Cr	No	P3	0.20
Whitegates Cr	Barron Dr	Browning Bv	No	P3	0.82
Stradford St	Hamilton Av	Hamilton Av	No	P3	0.17
Heritage Bv	Heritage Bv	Heritage Bv	No	P3	0.14
Lumsden Av	Buchanan Bv	Russenholt St	No	P3	0.19
Meadowside Dr	Golf Bv	Park Meadows Dr	No	P3	0.08
Oakdean Bv	Oakdean Cr	Portage Av	No	P3	0.21
Poole Cr	Shelley St	End	No	P3	0.05
Aldrich Av	Shelley St	Wordsworth Wy	No	P3	0.33
Kirkfield St	Byron By	Mcbey Av	No	P3	0.45
Bissett Cr	Cavalier Dr	Voyageur Av	No	P3	0.52
Olive St	Assiniboine Cr	Portage Av	No	P3	0.33
Knox St	Hamilton Av	Hamilton Av	Non	P3	0.02
			Regional		
Cortez By	Erlandson Dr	Erlandson Dr	No	P3	0.73
Bering Av	Erlandson Dr	Cook Rd	No	P3	0.53
Cook Rd	Bering Av	Erlandson Dr	No	P3	0.16
Meadowside Dr	Country Club Bv	Greenacre Bv	No	P3	0.19
Maureen St	Whitegates Cr	Assiniboine Av	No	P3	0.19
Knox St	Livinia Av	Portage Av	No	P3	0.56
Risbey Cr	Buchanan Bv	Russenholt St	No	P3	0.19
Raquette St	Assiniboine Av	Holt Dr	No	P3	0.24
Coleridge Park Dr	Galsworthy Pl	Masefield Pl	No	P3	0.18
Barron Dr	Maureen St	Whitegates Cr	No	P3	0.30
Risbey Cr	Buchanan Bv	Lumsden Av	No	P3	0.73
Sansome Av	Gagnon St	St Charles St	No	P3	0.19
Jeannette By	Gagnon St	End	No	P3	0.09
Suzanne By	Gagnon St	End	No	P3	0.08
Capulet Cr	Isbister St	Stradford St	No	P3	0.18
Cora Av	Whitegates Cr	Maureen St	No	P3	0.31
Valley View Dr	Harvest Ln	Ness Av	No	P3	0.92
Paisley Pl	Jameswood Dr	Leicester Sq	No	P3	0.42
Jameswood Dr	Paisley Pl	Whytewold Rd	No	P3	0.16
Alguire Av	Amarynth Cr	School Rd	No	P3	0.46
Oxbox Bend Rd	Augier Av	Gagnon St	No	P3	1.45
Dennis By	Gagnon St	End	No	P3	0.08
Cornwall Bv	Braintree Cr	Ladywood Dr	No	P3	0.56
Hillary By	Hillary Cr	Hillary Cr	No	P3	0.53
Fieldstone By	Heritage Bv	Heritage Bv	No	P3	0.88
Westboine Pl	Assiniboine Av	End	No	P3	0.08

Assiniboine Av	Westboine Pl	Westwood Dr	No	P3	0.14
Connor Pl	Westwood Dr	End	No	P3	0.11
Greenway Cr E	Portage Av	End	No	P3	0.40
Allard Av	St Charles St	Stewart St	No	P3	0.28
Longfellow By	Assiniboine Av	Kilmer Av	No	P3	0.24
Carriage Rd	Calpine Pl	Granada Cr	No	P3	0.16
Hamilton Meadows Dr	Apple Ln	Opal Pl	No	P3	0.30
Silverwood By	Ladywood Dr	Braintree Cr	No	P3	0.56
Holt Dr	Bedson St	Raquette St	No	P3	0.72
Addison Av	Addison Cr	Bedson St	No	P3	0.18
Galbraith Cr	Kay Cr	Lumsden Av	No	P3	0.84
Pebblewood Ln	Heritage Bv	Carriage Rd	No	P3	0.45
Carriage Rd	Pebblewood Ln	Heritage Bv	No	P3	0.29
Parkhill St	Livinia Av	Ness Av	No	P3	1.03
Livinia Av	Parkdale St	Parkhill St	No	P3	0.19
Ashern Rd	Deloraine Dr	Cavalier Dr	No	P3	0.56
Sayer Av	Setter St	Stillwell St	No	P3	0.16
Stillwell St	Lonsdale Dr	Sayer Av	No	P3	0.52
Antoine Av	Amarynth Cr	School Rd	No	P3	0.50
Emerald Grove Dr	Prairie View Rd	Woodgreen Pl	No	P3	1.01
Assiniboine Av	Glendale Bv	Woodhaven Bv	No	P3	0.25
Wordsworth Wy	Browning Bv	Jolliett Cr	No	P3	0.50
Downs Av	Bernadine Cr	Isbister St	No	P3	0.19
Golf Bv	McBey Av	Portage Av	No	P3	0.52
Lonsdale Dr	Sayer Av	Stillwell St	No	P3	0.65
Wordsworth Wy	Browning Bv	Carroll Rd	No	P3	0.84
Ladywood Dr	Silver Av	Cornwall Bv	No	P3	0.09
Trigwell By	Raquette St	Raquette St	No	P3	0.50
West Av	Rouge Rd	Whitegates Cr	No	P3	0.18
Byrd Av	Davis Cr	Westwood Dr	No	P3	0.50
Bernadine Cr	Olson Wy	St Charles St	No	P3	0.44
Carriage By	Heritage Bv	Heritage Bv	No	P3	0.55
Gagnon St	Augier Av	Jeannette By	No	P3	0.19
Lepine Av	Gagnon St	St Charles St	No	P3	0.19
Hagen Dr	Country Club Bv	Pinehurst Cr	No	P3	0.73
Erlandson Dr	Bering Av	Cortez By	No	P3	0.26
Kirby Dr	Pebblewood Ln	Setter St	No	P3	0.25
Lonsdale Dr	Kirby Dr	Sayer Av	No	P3	0.16
Kirby Dr	Lonsdale Dr	Ness Av	No	P3	0.52
Gerrond By	Cavalier Dr	Cavalier Dr	No	P3	0.63
Sandylands Pl	Deerhorn Ln	End	No	P3	0.09
Henday By	Westwood Dr	Westwood Dr	No	P3	0.82
Goswell Rd	Buffie By	Costello Dr	No	P3	0.17
Goswell Rd	Buffie By	Corbett Dr	No	P3	0.18
Goswell Rd	Buffie By	Fairlane Av	No	P3	0.17
Livinia Av	David St	End	No	P3	0.10
David St	Fairlane Av	Livinia Av	No	P3	0.50
Ridley St	Ridley Pl	Ridley Pl	No	P3	0.24
Oakdean Bv	Emo Av	Assiniboine Av	No	P3	0.74
Whitegates Cr	Browning Bv	Reynolds By	No	P3	0.18
Whitegates Cr	Cora Av	West Av	No	P3	0.17
Columbus Cr	Carroll Rd	Erlandson Dr	No	P3	0.17

Goodridge Cr	Arthur Creak Dr	Acheson Dr	No	P3	0.39
Ainslie St	Bruce Av	Ness Av	No	P3	0.63
Amundsen By	Westwood Dr	Westwood Dr	Non	P3	0.02
			Regional		
Magellan By	Westwood Dr	Westwood Dr	Non	P3	0.02
			Regional		
Pine Valley Dr	Vardon Pl	Country Club Bv	No	P3	0.28
Peltier Av	Buchanan Bv	Buchanan Bv	Non	P3	0.02
			Regional		
Setter St	Kirby Dr	Ness Av	No	P3	0.17
Leisure By	Crestview Park Dr	Crestview Park Dr	No	P3	0.70
Hollingsworth Av	Cavalier Dr	Hedges By	No	P3	0.27
Nemy Cr	Harvlong Av	Topaz Rd	No	P3	0.61
Acheson Dr	Dohaney Cr	Goodridge Cr	No	P3	0.17
North Lake Dr	Kay Cr	Kay Cr	No	P3	0.79
Woodlands Cr	Woodlands Cr	Woodlands Cr	No	P3	0.18
Risbey Cr	Lumsden Av	Peltier Av	No	P3	0.55
Harvlong Av	Lake Ridge Rd	Nemy Cr	No	P3	0.16
Lake St	Portage Av	Assiniboine Cr	No	P3	0.56
Normandy Dr	Hollingsworth Av	Hollingsworth Av	No	P3	0.57
Rogan Dr	Radar Pl	Bellavista Cr	No	P3	0.37
Lumsden Av	Russenholt St	Isbister St	No	P3	0.17
Normandy Dr	Gibraltar By	Gibraltar By	No	P3	0.16
Wharton Bv	Ness Av	School Rd	No	P3	1.46
Dohaney Cr	Hamilton Av	Acheson Dr	No	P3	0.18
Risbey Cr	Buchanan Bv	Buchanan Bv	Non	P3	0.02
			Regional		
Moccasin By	Cavalier Dr	Voyageur Av	No	P3	0.53
South Lake Dr	Chapman Rd	Chapman Rd	No	P3	0.50
Haliburton By	Westwood Dr	Westwood Dr	No	P3	0.41
Oakdean Cr	Oakdean Bv	Oakdean Bv	No	P3	0.45
Whitegates Cr	Belcourt By	Sansome Av	No	P3	0.18
Parkdale St	Hamilton Av	Ness Av	No	P3	1.05
Erlandson Dr	Cook Rd	Rouge Rd	No	P3	0.17
Woodlands Cr	Portage Av	Woodlands Cr	No	P3	0.83
Kirby Dr	Lonsdale Dr	Pebblewood Ln	No	P3	0.18
Caron Av	Setter St	Sturgeon Rd	No	P3	0.25
Lake Ridge Rd	Lumsden Av	Harvlong Av	No	P3	0.16
Arthur Creak Dr	Acheson Dr	Acheson Dr	No	P3	0.65
Manitou By	Sumach St	Sumach St	No	P3	0.77
Twain Dr	Allard Av	Bedson St	No	P3	0.75
Whitegates Cr	Barron Dr	West Av	No	P3	0.22
Kay Cr	Redfern Rd	South Lake Dr	No	P3	0.59
Nemy Cr	Topaz Rd	Topaz Rd	No	P3	0.57
Kirkfield St	Byron By	Wordsworth Wy	No	P3	0.15
Cub Rd	Apple Ln	Hollyburn Rd	No	P3	0.17
Gibraltar By	Normandy Dr	Normandy Dr	No	P3	0.60
Ness Av	Buchanan Bv	Stewart St	No	P3	0.19
Redfern Rd	Hamilton Av	Hamilton Av	Non	P3	0.02
			Regional		
Carroll Rd	Columbus Cr	Kilmer Av	No	P3	0.42
Carroll Rd	Columbus Cr	Frost Av	No	P3	0.08

Carroll Rd	Leacock Av	Frost Av	No	P3	0.16
Carroll Rd	Leacock Av	Thackeray Av	No	P3	0.16
Leacock Av	Carroll Rd	Westwood Dr	No	P3	0.45
Canoe By	Sumach St	Sumach St	No	P3	0.77
Sabine Cr	Lumsden Av	Topaz Rd	No	P3	0.46
Ashern Rd	Deloraine Dr	Lumsden Av	No	P3	0.18
Columbus Cr	Erlandson Dr	Franklin By	No	P3	0.19
Chapman Rd	Costello Dr	Hamilton Av	No	P3	0.12
Gowler Rd	Costello Dr	Mackie By	No	P3	0.17
Gowler Rd	Mackie By	Mackie By	No	P3	0.18
Corbett Dr	Goswell Rd	Costello Dr	No	P3	0.50
Ness Av	Stewart St	Isbister St	No	P3	0.18
Carroll Rd	Assiniboine Av	Kilmer Av	No	P3	0.21
Ness Av	Buchanan Bv	Buchanan Bv	Non	P3	0.02
			Regional		
Topaz Rd	Nemy Cr	Nemy Cr	No	P3	0.19
Sumach St	Canoe By	Canoe By	No	P3	0.16
Bernadine Cr	Downs Av	St Charles St	No	P3	0.59
Paisley Pl	Bourkewood Pl	Leicester Sq	No	P3	0.16
Vimy Rd	Hamilton Av	Ness Av	No	P3	1.04
Allard Av	Bedson St	Twain Dr	No	P3	0.42
Sansome Av	Bedson St	End	No	P3	0.50
Sumach St	Allard Av	Manitou By	No	P3	0.16
Sumach St	Manitou By	Manitou By	No	P3	0.16
Makinak By	Crestview Park Dr	Crestview Park Dr	No	P3	0.60
Flamingo Av	Athlone Dr	Sturgeon Rd	No	P3	0.20
Best St	Allard Av	Portage Av	No	P3	0.93
Kirkfield St	Byron By	Byron By	No	P3	0.19
Kirkfield St	McBey Av	Portage Av	No	P3	0.59
Columbus Cr	Cook Rd	Rouge Rd	No	P3	0.17
Shelley St	Browning Bv	Drummond Pl	No	P3	0.25
Columbus Cr	Cook Rd	Franklin By	No	P3	0.56
Harcourt St	Bruce Av	Lodge Av	No	P3	0.65
Aldine St	Bruce Av	Wallasey St	No	P3	0.69
Addison Cr	Addison Av	Raquette St	No	P3	0.51
Raquette St	Holt Dr	Trigwell By	No	P3	0.55
Stewart St	Allard Av	Portage Av	No	P3	0.49
Erlandson Dr	Columbus Cr	Bering Av	No	P3	0.16
Rita St	Ness Av	Ness Av	Regional	P3	0.01
Rita St	Ness Av	Bruce Av	No	P3	0.64
Whitegates Cr	Cora Av	Maureen St	No	P3	0.46
Emo Av	Harris Bv	Oakdean Bv	No	P3	0.21
Emo Av	Sunnyside Bv	Woodhaven Bv	No	P3	0.14
Woodlands Cr	End	Woodlands Cr	No	P3	0.05
Setter St	Caron Av	Sayer Av	No	P3	0.38
Setter St	Kirby Dr	Sayer Av	No	P3	0.16
Byrd Av	Westwood Dr	Westwood Dr	Non	P3	0.02
			Regional		
North West Perimeter Service Road S	North West Perimeter Service Road S	End	No	P3	1.79
Maureen St	West Av	Barron Dr	No	P3	0.17
Kay Cr	Redfern Rd	End	No	P3	0.19

Topaz Rd	Nemy Cr	Sabine Cr	No	P3	0.16
Harvlong Av	Topaz Rd	Nemy Cr	No	P3	0.15
Maureen St	Cora Av	Whitegates Cr	No	P3	0.16
Ridley Pl	Ridley St	Ridley St	No	P3	0.54
Braintree Cr	Ladywood Dr	Olive St	No	P3	0.25
Ladywood Dr	Braintree Cr	Silverwood By	No	P3	0.42
Raquette St	Haultain Cr	Browning Bv	No	P3	0.19
Raquette St	Browning Bv	Trigwell By	No	P3	0.18
Rogan Dr	Bellavista Cr	Radar Pl	No	P3	0.48
Shelley St	Poole Cr	Wordsworth Wy	No	P3	0.08
Shelley St	Portage Av	McBey Av	No	P3	0.63
Athlone Dr	Red Robin Pl	Red Robin Pl	No	P3	0.71
Vimy Rd	Ness Av	Portage Av	No	P3	1.45
Ladywood Dr	Braintree Cr	Silverwood By	No	P3	0.16
Acheson Dr	Arthur Creak Dr	Dohaney Cr	No	P3	0.17
Rogan Dr	Hamilton Av	Bellavista Cr	No	P3	0.12
Hillary Cr	Hillary By	Hillary By	No	P3	0.38
Woodbridge Rd	Assiniboine Cr	Old Mill Rd	No	P3	0.13
Wordsworth Wy	Browning Bv	Wordsworth Pl	No	P3	0.18
David St	Livinia Av	Portage Av	No	P3	0.36
Sonnichsen Pl	Hamilton Av	Acheson Dr	No	P3	0.18
Pine Valley Dr	Braid Pl	Vardon Pl	No	P3	0.38
Knox St	Ness Av	Hamilton Av	No	P3	0.55
Ness Av	Isbister St	Stradford St	No	P3	0.18
Parkdale St	Livinia Av	Ness Av	No	P3	1.03
Parkhill St	Livinia Av	Portage Av	No	P3	0.37
Robert Service By	Westwood Dr	Westwood Dr	No	P3	0.69
Hillary Cr	Cavalier Dr	Hillary By	No	P3	0.22
Assiniboine Av	Westboine Pl	End	No	P3	0.07
Wordsworth Wy	Westwood Dr	Westwood Dr	Non	P3	0.02
			Regional		
Wordsworth Wy	Carroll Rd	Westwood Dr	No	P3	0.21
Braid Pl	Pine Valley Dr	End	No	P3	0.09
Livinia Av	Stewart St	Buchanan Bv	No	P3	0.19
Stewart St	Livinia Av	Portage Av	No	P3	0.66
Carlyle By	Westwood Dr	Westwood Dr	No	P3	0.67
Carriage Rd	Thornton Av	Pebblewood Ln	No	P3	0.36
Wordsworth Wy	Kirkfield St	Shelley St	No	P3	0.19
Wordsworth Wy	Wordsworth PL	Aldrich Av	No	P3	0.17
Shelley St	Aldrich Av	Drummond Pl	No	P3	0.11
Shelley St	Aldrich Av	Poole Cr	No	P3	0.08
Vardon Pl	Pine Valley Dr	End	No	P3	0.09
Pine Valley Dr	Country Club Bv	Braid Pl	No	P3	0.28
Braintree Cr	Listowel By	Listowel By	No	P3	0.33
Muriel St	Hillary Cr	Hillary Cr	No	P3	0.27
Kilmer Av	Carroll Rd	Longfellow By	No	P3	0.35
Rita St	Bruce Av	Lodge Av	No	P3	0.64
Acheson Dr	Goodridge Cr	Sonnichsen Pl	No	P3	0.12
Deerhorn Ln	Sandylands Pl	Voyageur Av	No	P3	0.44
Risbey Cr	Buchanan Bv	Peltier Av	No	P3	0.51
Capulet Cr	Stradford St	Stradford St	No	P3	0.74
Scalena Pl	Rouge Rd	Assiniboine Av	No	P3	0.39

Russenholt St	Lumsden Av	Risbey Cr	No	P3	0.48
Oxbow Bend Rd	Gagnon St	St Charles St	No	P3	0.20
Magnan St	Dundurand Av	End	No	P3	0.11
Acheson Dr	Dohaney Cr	Dohaney Cr	No	P3	0.59
Costello Dr	Chapman Rd	Corbett Dr	No	P3	0.06
Gowler Rd	Corbett Dr	Mackie By	No	P3	0.17
Costello Dr	Corbett Dr	Goswell Rd	No	P3	0.16
St Charles St	Dundurand Av	Portage Av	No	P3	0.30
Hollyburn Rd	Cub Rd	Quail Ridge Rd	No	P3	0.38
Bellavista Cr	Rogan Dr	Rogan Dr	No	P3	0.63
Radar Pl	Rogan Dr	Voyageur Av	No	P3	0.19
Risbey Cr	Isbister St	Russenholt St	No	P3	0.18
Pebblewood Ln	Ness Av	Kirby Dr	No	P3	0.17
Assiniboine Av	Harris Bv	Oakdean Bv	No	P3	0.22
Dundurand Av	Isbister St	St Charles St	No	P3	0.23
Meadowside Dr	Country Club Bv	Country Club Bv	Non	P3	0.04
			Regional		
Greenacre Bv	Portage Av	McBey Av	No	P3	0.49
Dohaney Cr	Acheson Dr	Acheson Dr	No	P3	0.52
Allard Av	St Charles St	Gagnon St	No	P3	0.19
Daer Bv	Portage Av	McBey Av	No	P3	0.55
Emerald Grove Dr	Sturgeon Rd	Prairie View Rd	No	P3	0.15
Oakdean Bv	Emo Av	Oakdean Cr	No	P3	0.40
Gagnon St	Sansome Av	Suzanne By	No	P3	0.16
Brendalee By	Gagnon St	End	No	P3	0.08
Raquette St	Addison Cr	Trigwell By	No	P3	0.04
St Charles St	Dundurand Av	Bernadine Cr	No	P3	0.19
Carriage Rd	Granada Cr	Uplands Cr	No	P3	0.16
Carriage Rd	Granada Cr	Granada Cr	No	P3	0.16
Gagnon St	Brendalee By	Dennis By	No	P3	0.18
Woodlands Cr	Woodlands Cr	Summerlands Bv	No	P3	0.03
Woodlands Cr	McBey Av	Portage Av	No	P3	0.41
Wallasey St	Aldine St	Ness Av	No	P3	0.09
Thompson Dr	Bruce Av	Nightingale Rd	No	P3	0.45
Ainslie St	Lodge Av	Portage Av	No	P3	1.08
Olive St	Portage Av	Lodge Av	No	P3	1.01
Carberry Cr	Crestview Park Dr	Crestview Park Dr	No	P3	0.87
Whitegates Cr	Belcourt By	Reynolds By	No	P3	0.17
Greenacre Bv	Mcbey Av	Meadowside Dr	No	P3	0.56
Gagnon St	Allard Av	Oxbow Bend Rd	No	P3	0.23
Woodbridge Rd	Old Mill Rd	Portage Av	No	P3	0.44
Wallasey St	Lodge Av	Portage Av	No	P3	0.89
Pinehurst Cr	Compton Pl	Country Club Bv	No	P3	0.40
Carriage Rd	Uplands Cr	Thornton Av	No	P3	0.69
Carriage Rd	Calpine Pl	Valley View Pl	No	P3	0.35
Sage Cr	Ness Av	Muriel St	No	P3	0.63
Emo Av	Oakdean Bv	Sunnyside Bv	No	P3	0.23
Woodlands Cr	Woodlands Cr	End	No	P3	0.05
Woodlands Cr	Mcbey Av	Summerlands Bv	No	P3	0.43
Oakdean Bv	Oakdean Cr	Oakdean Cr	No	P3	0.22
Assiniboine Av	Sunnyside Bv	Woodhaven Bv	No	P3	0.28
Setter St	Caron Av	Lonsdale Dr	No	P3	0.14

Rita St	Portage Av	Lodge Av	No	P3	1.05
Pinehurst Cr	Compton Pl	Browning Bv	No	P3	0.20
Flamingo Av	Athlone Dr	Meadowlark Pl	No	P3	0.17
Hillary Cr	Hillary By	Muriel St	No	P3	0.18
Addison Cr	Addison Av	Raquette St	No	P3	0.65
Risbey Cr	Stradford St	Stradford St	No	P3	0.55
Calpine Pl	Carriage Rd	End	No	P3	0.15
Frost Av	Carroll Rd	Westwood Dr	No	P3	0.44
Hillary Cr	Muriel St	Muriel St	No	P3	0.61
Hamilton Meadows Dr	Opal Pl	End	No	P3	0.35
Amundsen By	Westwood Dr	Westwood Dr	No	P3	0.82
Peary Cr	Rouge Rd	Sansome Av	No	P3	0.52
Uplands Cr	Carriage Rd	Carriage Rd	No	P3	0.79
Buchanan Bv	Buchanan Bv	Portage Av	No	P3	0.17
Redfern Rd	Hamilton Av	Kay Cr	No	P3	0.25
Ridley Pl	Ridley St	Ridley St	No	P3	0.54
Dundurand Av	Optimist Wy	Magnan St	No	P3	0.09
Magellan By	Westwood Dr	Westwood Dr	No	P3	0.82
Wordsworth Wy	Aldrich Av	Kirkfield St	No	P3	0.30
Galinee By	Rouge Rd	Rouge Rd	No	P3	0.83
Jolliett Cr	Sansome Av	Wordsworth Wy	No	P3	0.68
Inch By	Crestview Park Dr	Crestview Park Dr	No	P3	0.76
Pinehurst Cr	Browning Bv	Hagen Dr	No	P3	0.66
Muriel St	Sage Cr	Hillary Cr	No	P3	0.16
Vernon Rd	Lodge Av	Portage Av	No	P3	0.90
Amarynth Cr	School Rd	Alcott St	No	P3	0.16
Pontiac By	Allard Av	Allard Av	No	P3	0.55
North West Perimeter Service Road S	PTH 101	North West Perimeter Service Road S	No	P3	0.08
Summerlands Bv	Mcbey Av	Woodlands Cr	No	P3	0.61
Hollingsworth Av	Hedges By	Normandy Dr	No	P3	0.17
Raquette St	Addison Cr	Sansome Av	No	P3	0.18
Oxbox Bend Rd	Augier Av	Augier Av	No	P3	2.66
Golf Bv	Mcbey Av	Meadowside Dr	No	P3	0.54
Optimist Wy	Olson Wy	Dundurand Av	No	P3	0.50
Granada Cr	Granada Cr	Granada Cr	No	P3	0.13
Coleridge Park Dr	Masefield Pl	Bedson St	No	P3	0.51
Oxbox Bend Rd	PTH 100	Augier Av	No	P3	0.02
Byron By	Kirkfield St	Kirkfield St	No	P3	0.64
Carroll Rd	Thackeray Av	Wordsworth Wy	No	P3	0.28
Davis Cr	Byrd Av	Rouge Rd	No	P3	0.49
Jolliett Cr	Rouge Rd	Wordsworth Wy	No	P3	0.17
Byrd Av	Davis Cr	Rouge Rd	No	P3	0.34
Harvest Ln	Heritage Bv	Valley View Dr	No	P3	0.73
Erlandson Dr	Cortez By	Cortez By	No	P3	0.43
Sumach St	Manitou By	Canoe By	No	P3	0.24
Glendale Bv	Assiniboine Av	Wooddale Dr	No	P3	0.46
Valley View Dr	Harvest Ln	Valley View Pl	No	P3	0.47
Ericsson By	Rouge Rd	Rouge Rd	No	P3	0.83
Henday By	Westwood Dr	Westwood Dr	Non Regional	P3	0.02

Assiniboine Gr	Assiniboine Gr	Assiniboine Gr	No	P3	0.09
Franklin By	Columbus Cr	Columbus Cr	No	P3	0.63
Oxbow Bend Rd	McCarthy St	Augier Av	No	P3	1.19
Raquette St	Allard Av	Portage Av	No	P3	0.96
Seaton St	Allard Av	Portage Av	No	P3	0.98
Risbey Cr	Buchanan Bv	Buchanan Bv	Non	P3	0.02
			Regional		
Kilmer Av	Carroll Rd	Westwood Dr	No	P3	0.44
Inwood Cr	Crestview Park Dr	Crestview Park Dr	No	P3	0.68
Ridley St	Ridley Pl	Fairlane Av	No	P3	0.16
Thompson Dr	Thompson Dr	Assiniboine Cr	No	P3	0.04
Thompson Dr	Portage Av	Assiniboine Cr	No	P3	0.59
Thompson Dr	Nightingale Rd	Portage Av	No	P3	0.28
Nightingale Rd	Bruce Av	Lodge Av	No	P3	0.65
Bellavista Cr	Rogan Dr	Voyageur Av	No	P3	0.35
Sandylands Pl	Deerhorn Ln	Voyageur Av	No	P3	0.17
Raquette St	Addison Cr	Trigwell By	No	P3	0.13
Maureen St	Cora Av	West Av	No	P3	0.17
PTH 100	PTH 100	Oxbox Bend Rd	No	P3	0.07
Thompson Dr	Ness Av	Nightingale Rd	No	P3	0.03
Ness Av	Knox St	Buchanan Bv	No	P3	0.17
Thompson Dr	Lodge Av	Nightingale Rd	No	P3	0.53
Normandy Dr	Gibraltar By	Hollingsworth Av	No	P3	0.16
Cub Rd	Saskatchewan Av	Hollyburn Rd	No	P3	0.14
Harcourt St	Bruce Av	Ness Av	No	P3	0.70
Lake Ridge Rd	Harvlong Av	Lumsden Av	No	P3	1.72
Carlyle Cr	Westwood Dr	End	No	P3	0.10
Nightingale Rd	Lodge Av	Thompson Dr	No	P3	0.72
Topaz Rd	Harvlong Av	Sabine Cr	No	P3	0.09
Olive St	Bruce Av	Lodge Av	No	P3	0.64
Drummond Pl	Shelley St	End	No	P3	0.05
Strathmillan Rd	Lodge Av	Portage Av	No	P3	0.86
Dundurand Av	Magnan St	St Charles St	No	P3	0.19
Arthur Creak Dr	Acheson Dr	Goodridge Cr	No	P3	0.20
Sandburg By	Westwood Dr	Westwood Dr	No	P3	0.42
Sumach St	Canoe By	Portage Av	No	P3	0.27
Braintree Cr	Braintree Rd	Silverwood By	No	P3	0.13
Cornwall Av	Cornwall Bv	Whytewold Rd	No	P3	0.16
Bourkewood Pl	Jameswood Dr	Silver Av	No	P3	0.09
Jameswood Dr	Bourkewood Pl	Paisley Pl	No	P3	0.51
Hollingsworth Av	Normandy Dr	Normandy Dr	No	P3	0.16
Leicester Sq	Paisley Pl	Leicester Sq	No	P3	0.16
Compton Pl	Pinehurst Cr	End	No	P3	0.07
Allard Av	Stewart St	Buchanan Bv	No	P3	0.17
Braintree Cr	Ladywood Dr	Silverwood By	No	P3	0.16
Athlone Dr	Bruce Av	Ronald St	No	P3	0.67
Livinia Av	Isbister St	Stewart St	No	P3	0.17
Livinia Av	Buchanan Bv	Buchanan Bv	Non	P3	0.02
			Regional		
Leicester Sq	Leicester Sq	Bourkewood Pl	No	P3	0.16
Costello Dr	Chapman Rd	Gowler Rd	No	P3	0.76

Chapman Rd	Hamilton Av	Hamilton Av	Non Regional	P3	0.02
Park Meadows Dr	Country Club Bv	Golf Bv	No	P3	0.31
Strathmillan Rd	Bruce Av	Ness Av	No	P3	0.64
Olive St	Braintree Cr	Ness Av	No	P3	0.16
Livinia Av	Parkdale St	End	No	P3	0.09
Beaverbend Cr	Dallas Rd	Whytewold Rd	No	P3	0.47
Sturgeon Rd	Sturgeon Rd	Sturgeon Rd	No	P3	0.22
Sturgeon Rd	Sturgeon Rd	Sturgeon Rd	No	P3	0.51
Wooddale Dr	Woodhaven Bv	Glendale Bv	No	P3	0.21
Leicester Sq	Leicester Sq	Leicester Sq	No	P3	0.45
Bourkewood Pl	Jameswood Dr	Leicester Sq	No	P3	0.16
Cornwall Bv	Braintree Cr	Cornwall Av	No	P3	0.40
Beaverbend Cr	Dallas Rd	Whytewold Rd	No	P3	0.47
Cook Rd	Bering Av	Columbus Cr	No	P3	0.40
Sayer Av	Lonsdale Dr	Stillwell St	No	P3	0.25
Wallasey St	Aldine St	Bruce Av	No	P3	0.54
Deloraine Dr	Ashern Rd	Cavalier Dr	No	P3	0.98
Bernadine Cr	Stradford St	Downs Av	No	P3	0.37
Amarynth Cr	Alguire Av	Alcott St	No	P3	0.35
Olive St	Bruce Av	Ness Av	No	P3	0.64
Parkhill St	Hamilton Av	Ness Av	No	P3	1.05
Muriel St	Ness Av	Sage Cr	No	P3	0.45
Longfellow By	Assiniboine Av	Kilmer Av	No	P3	0.42
Aldine St	Bruce Av	Lodge Av	No	P3	0.65
Masefield Pl	Coleridge Park Dr	End	No	P3	0.26
Wallasey St	Bruce Av	Lodge Av	No	P3	0.65
Ronald St	Athlone Dr	Lodge Av	No	P3	0.11
Buffie By	Goswell Rd	Goswell Rd	No	P3	0.96
Athlone Dr	Red Robin Pl	Prairie View Rd	No	P3	0.20
Harcourt St	Lodge Av	Portage Av	No	P3	0.66
Strathmillan Rd	Bourkewood Pl	Ness Av	No	P3	0.15
Woodhaven Cr	Woodhaven Cr	Woodhaven Bv	No	P3	0.05
Parkdale St	Livinia Av	Portage Av	No	P3	0.34
Golden Gate By	Lodge Av	Lodge Av	No	P3	0.62
Braintree Rd	Braintree Cr	Ness Av	No	P3	0.15
Aldine St	Lodge Av	Portage Av	No	P3	0.95
Acheson Dr	Arthur Creak Dr	End	No	P3	0.15
Acheson Dr	Arthur Creak Dr	Sonnichsen Pl	No	P3	0.18
Olive St	Ness Av	Ness Av	Regional	P3	0.01
Athlone Dr	Bruce Av	Red Robin Pl	No	P3	0.39
Nightingale Rd	Bruce Av	Thompson Dr	No	P3	0.66
Galsworthy Pl	Coleridge Park Dr	End	No	P3	0.28
Braintree Cr	Listowel By	Listowel By	No	P3	0.56
Assiniboine Cr	Portage Av	Olive St	No	P3	0.72
Dallas Rd	Whytewold Rd	Beaverbend Cr	No	P3	0.33
Reynolds By	Browning Bv	Whitegates Cr	No	P3	0.40
Gagnon St	Lepine Av	Suzanne By	No	P3	0.18
Gagnon St	Sansome Av	Jeannette By	No	P3	0.15
Assiniboine Cr	Thompson Dr	Woodbridge Rd	No	P3	0.21
Ainslie St	Bruce Av	Lodge Av	No	P3	0.64
Ronald St	Bruce Av	Athlone Dr	No	P3	0.57

Carnarvan Rd	Baffin Cr	Whytefold Rd	No	P3	0.30
Baffin Cr	Carnarvan Rd	Whytefold Rd	No	P3	0.48
Baffin Cr	Carnarvan Rd	Whytefold Rd	No	P3	0.42
Gagnon St	Dennis By	Allard Av	No	P3	0.15
Magnan St	Dundurand Av	End	No	P3	0.23
Carriage Rd	Uplands Cr	Uplands Cr	No	P3	0.43
Optimist Wy	Olson Wy	End	No	P3	0.24
Assiniboine Cr	WINDHAM Rd	Lake St	No	P3	0.21
Woodbridge Rd	Assiniboine Cr	End	No	P3	0.07
Alcott St	Amarynth Cr	End	No	P3	0.33
Haultain Cr	Raquette St	Raquette St	No	P3	0.65
Bourkewood Pl	Leicester Sq	Strathmillan Rd	No	P3	0.59
Braintree Cr	Listowel By	Ladywood Dr	No	P3	0.32
Braintree Cr	Olive St	Cornwall Bv	No	P3	0.17
Thompson Dr	Ness Av	Nightingale Rd	No	P3	0.19
Sinawik By	Bruce Av	Bruce Av	No	P3	0.74
Bourkewood Pl	Paisley Pl	Whytefold Rd	No	P3	0.16
Bourkewood Pl	Paisley Pl	Strathmillan Rd	No	P3	0.33
Pinewood Dr	Assiniboine Cr	Moray St	No	P3	0.10
Highcliff By	Morgan Cr	End	No	P3	1.25
Doran By	Morgan Cr	End	No	P3	1.31
Carson By	Morgan Cr	End	No	P3	0.99
Assiniboine Gr	Bedson St	End	No	P3	0.53
Listowel By	Braintree Cr	Braintree Cr	No	P3	0.56
Windham Rd	Assiniboine Cr	Portage Av	No	P3	0.66
Freemont By	Fairlane Av	End	No	P3	1.12
Pinewood Dr	Pinewood Dr	Assiniboine Cr	No	P3	0.81
Assiniboine Cr	Pinewood Dr	Pinewood Dr	No	P3	0.88
Assiniboine Cr	Olive St	Pinewood Dr	No	P3	0.16
Woodhaven Cr	Woodhaven Bv	End	No	P3	0.17
Buchanan Bv	Portage Av	Allard Av	No	P3	0.56
Oak Forest Cr	Four Oaks Cv	Grand Oaks Cv	No	P3	0.55
Blue Oaks Cv	Oak Forest Cr	Oak Forest Cr	No	P3	0.22
Oak Forest Cr	Camp Manitou Rd	Hidden Oaks Cv	No	P3	0.34
Grand Oaks Cv	Oak Forest Cr	Oak Forest Cr	No	P3	0.29
Prairie Oaks Cv	Oak Forest Cr	End	No	P3	0.44
Oak Forest Cr	Hidden Oaks Cv	Mossy Oaks Cv	No	P3	0.20
Bur Oaks Cv	Oak Forest Cr	Oak Forest Cr	No	P3	0.28
Grey Oaks Cv	Oak Forest Cr	End	No	P3	0.28
Oak Forest Cr	Blue Oaks Cv	Grey Oaks Cv	No	P3	0.27
Oak Forest Cr	Grey Oaks Cv	Bur Oaks Cv	No	P3	0.25
Bancroft By	Cavalier Dr	End	No	P3	0.89
Prairie View Rd	Emerald Grove Dr	Ness Av	No	P3	1.12
Assiniboine Cr	Windham Rd	Thompson Dr	No	P3	0.22
Four Oaks Cv	Oak Forest Cr	Oak Forest Cr	No	P3	0.55
Oak Forest Cr	Four Oaks Cv	Mossy Oaks Cv	No	P3	0.36
Granada Cr	Carriage Rd	Carriage Rd	No	P3	0.50
Danbury By	Cavalier Dr	End	No	P3	1.29
Oak Forest Cr	Blue Oaks Cv	Oxbow Bend Rd	No	P3	0.38
Oak Forest Cr	Blue Oaks Cv	Oxbow Bend Rd	No	P3	0.42
Hidden Oaks Cv	Oak Forest Cr	End	No	P3	0.25
Woodgreen Pl	Emerald Grove Dr	Emerald Grove Dr	No	P3	0.78

Mossy Oaks Cv	Oak Forest Cr	Oak Forest Cr	No	P3	0.38
Oak Forest Cr	Bur Oaks Cv	Grand Oaks Cv	No	P3	0.23
				TOTAL	218.94

APPENDIX D

Snowfall - October 1 to April 30

<u>Year</u>	<u>Centimetres</u>
1968-1969	95.20
1969-1970	159.00
1970-1971	123.40
1971-1972	106.70
1972-1973	81.00
1973-1974	130.80
1974-1975	125.20
1975-1976	136.20
1976-1977	64.40
1977-1978	73.10
1978-1979	148.60
1979-1980	108.00
1980-1981	72.50
1981-1982	77.20
1982-1983	77.40
1983-1984	56.30
1984-1985	93.20
1985-1986	124.20
1986-1987	120.20
1987-1988	65.40
1988-1989	153.60
1989-1990	96.40
1990-1991	120.50
1991-1992	133.00
1992-1993	111.60
1993-1994	82.00
1994-1995	88.60
1995-1996	202.50
1996-1997	211.40
1997-1998	104.10
1998-1999	144.70
1999-2000	71.40
2000-2001	109.70
2001-2002	105.40
2002-2003	90.90
2003-2004	149.80
2004-2005	136.60
2005-2006	151.20
2006-2007	135.60
2007-2008	111.90
2008-2009	129.20
2009-2010	81.60
2010-2011	149.10