



THE CITY OF WINNIPEG

BID OPPORTUNITY

BID OPPORTUNITY NO. 770-2014

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

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PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

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

B1.2

B2. SUBMISSION DEADLINE

B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, September 25, 2014.

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

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

B3. ENQUIRIES

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

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

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

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

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

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

B4. CONFIDENTIALITY

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

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

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

B5. ADDENDA

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

B6. SUBSTITUTES

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

- B6.6.1 The Contract Administrator will issue an Addendum, disclosing the approved materials, equipment, methods and products to all potential Bidders. The Bidder requesting and obtaining the approval of a substitute shall be responsible for disseminating information regarding the approval to any person or persons he/she wishes to inform.
- B6.7 If the Contract Administrator approves a substitute as an “approved equal”, any Bidder may use the approved equal in place of the specified item.
- B6.8 If the Contract Administrator approves a substitute as an “approved alternative”, any Bidder bidding that approved alternative may base his/her Total Bid Price upon the specified item but may also indicate an alternative price based upon the approved alternative. Such alternatives will be evaluated in accordance with B14.
- B6.9 No later claim by the Contractor for an addition to the Total Bid Price because of any other changes in the Work necessitated by the use of an approved equal or an approved alternative will be considered.
- B6.10 Notwithstanding B6.2 to B6.9, and in accordance with B7.5, deviations inconsistent with the Bid Opportunity document shall be evaluated in accordance with B14.1(a).

B7. BID SUBMISSION

- B7.1 The Bid shall consist of the following components:
- (a) Form A: Bid;
 - (b) Form B: Prices;
- B7.2 Further to B7.1, the Bidder should include the written correspondence from the Contract Administrator approving a substitute in accordance with B6.
- B7.3 All components of the Bid shall be fully completed or provided, and submitted by the Bidder no later than the Submission Deadline, with all required entries made clearly and completely in ink, to constitute a responsive Bid.
- B7.4 Bidders are advised not to include any information/literature except as requested in accordance with B7.1.
- B7.5 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 B14.1(a)
- B7.6 The Bid may be submitted by mail, courier or personal delivery, or by facsimile transmission.
- B7.7 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
- B7.7.1 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.
- B7.8 If the Bid is submitted by facsimile transmission, it shall be submitted to 204- 949-1178.
- B7.8.1 The Bidder is advised that the City cannot take responsibility for the availability of the facsimile machine at any time.

B7.9 Bids submitted by internet electronic mail (e-mail) will not be accepted.

B8. BID

B8.1 The Bidder shall complete Form A: Bid, making all required entries.

B8.2 Paragraph 2 of Form A: Bid shall be completed in accordance with the following requirements:

- (a) if the Bidder is a sole proprietor carrying on business in his/her own name, his/her name shall be inserted;
- (b) if the Bidder is a partnership, the full name of the partnership shall be inserted;
- (c) if the Bidder is a corporation, the full name of the corporation shall be inserted;
- (d) if the Bidder is carrying on business under a name other than his/her own, the business name and the name of every partner or corporation who is the owner of such business name shall be inserted.

B8.2.1 If a Bid is submitted jointly by two or more persons, each and all such persons shall identify themselves in accordance with B8.2.

B8.3 In Paragraph 3 of Form A: Bid, the Bidder shall identify a contact person who is authorized to represent the Bidder for purposes of the Bid.

B8.4 Paragraph 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/her own name, it shall be signed by the Bidder;
- (b) if the Bidder is a partnership, it shall be signed by the partner or partners who have authority to sign for the partnership;
- (c) if the Bidder is a corporation, it shall be signed by its duly authorized officer or officers;
- (d) if the Bidder is carrying on business under a name other than his/her own, it shall be signed by the registered owner of the business name, or by the registered owner's authorized officials if the owner is a partnership or a corporation.

B8.4.1 The name and official capacity of all individuals signing Form A: Bid should be printed below such signatures.

B8.4.2 All signatures shall be original.

B8.5 If a Bid is submitted jointly by two or more persons, the word "Bidder" shall mean each and all such persons, and the undertakings, covenants and obligations of such joint Bidders in the Bid and the Contract, when awarded, shall be both joint and several.

B9. PRICES

B9.1 The Bidder shall state a price in Canadian funds for each item of the Work identified on Form B: Prices.

B9.1.1 Notwithstanding C11.1.3, 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.

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

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

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

B10. QUALIFICATION

B10.1 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.

B10.2 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>

B10.3 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);

B10.4 Further to B10.3(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 copy of their valid Manitoba COR certificate and Letter of Good Standing (or Manitoba equivalency) as issued under the Certificate of Recognition (COR) Program administered by the Construction Safety Association of Manitoba or by the Manitoba Heavy Construction Association's WORKSAFELY™ COR™ Program; or
- (b) a copy of their valid Manitoba SECOR™ certificate and Letter of Good Standing (or Manitoba equivalency) as issued under the Small Employer Certificate of Recognition Program (SECOR™) administered by the Construction Safety Association of Manitoba or by the Manitoba Heavy Construction Association's WORKSAFELY™ COR™ Program; or
- (c) 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/>.)

B10.5 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.

B10.6 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.

B11. OPENING OF BIDS AND RELEASE OF INFORMATION

B11.1 Bid Submissions will not be opened publicly.

B11.2 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/>

B11.3 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/>

B11.4 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.

B12. IRREVOCABLE BID

B12.1 The Bid(s) submitted by the Bidder shall be irrevocable for the time period specified in Paragraph 9 of Form A: Bid.

B12.2 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.

B13. WITHDRAWAL OF BIDS

B13.1 A Bidder may withdraw his/her Bid without penalty by giving written notice to the Manager of Materials at any time prior to the Submission Deadline.

B13.1.1 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.

B13.1.2 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.

B13.1.3 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 B13.1.3(b), declare the Bid withdrawn.

B13.2 A Bidder who withdraws his/her Bid after the Submission Deadline but before his/her Bid has been released or has lapsed as provided for in B12.2 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.

B14. EVALUATION OF BIDS

B14.1 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 B10 (pass/fail);
- (c) Total Bid Price;

(d) economic analysis of any approved alternative pursuant to B6;

B14.2 Further to B14.1(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.

B14.3 Further to B14.1(b), the Award Authority shall reject any Bid submitted by a Bidder who does not demonstrate, in his/her Bid or in other information required to be submitted, that he/she is responsible and qualified.

B14.4 Further to B14.1(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.

B14.4.1 Further to B14.1(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.

B14.5 This Contract will be awarded as a whole.

B15. AWARD OF CONTRACT

B15.1 The City will give notice of the award of the Contract or will give notice that no award will be made.

B15.2 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.

B15.2.1 Without limiting the generality of B15.2, 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.

B15.3 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 B14 .

B15.3.1 Following the award of contract, a Bidder will be provided with information related to the evaluation of his/her Bid upon written request to the Contract Administrator.

B15.4 Notwithstanding C4.1, the City may issue a Purchase Order to the successful Bidder in lieu of the execution of a Contract.

B15.5 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, 2014 to April 15, 2017, 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, bus route and collector, and residential streets, back lanes and sidewalk listed in Appendix A, Appendix B, Appendix C, Drawing 1, Drawing 2 and Drawing 3, where full width snow clearing is required on all or a major portion of the above streets.
- D2.2 The Contractor shall perform the Work of this Contract on an "as-required" basis for three (3) winter season from October 15, 2014 to April 15, 2017 except as hereinafter specified:
- (a) the Contractor may be required to remove snow which has fallen prior to October 15th and is on the streets as of that date;
 - (b) the Contractor shall continue and complete all authorized Work for a snowfall that begins on or before April 15th, notwithstanding that the Work occurs after April 15th; and,
 - (c) the Contractor shall remedy all damage and deficiencies such as curb damage by June 30th following the Contract year;
 - (d) the above requirements will apply also to any extension mutually agreed upon.
- D2.3 The major components of the Work are as follows:
- (a) full width snow clearing and hauling on the Priority I (Regional) Streets System identified in Appendix A and Drawing 1;
 - (b) full width snow clearing on the Priority II (Bus Routes and Collectors) Streets System identified in Appendix B and Drawing 1;
 - (c) full width snow clearing on the Priority III (Residential) Street System identified in Appendix C and Drawing 1;
 - (d) 2.7 metre width snow clearing on back lanes identified on Drawing 2;
 - (e) 1.5 metre width snow clearing on sidewalks on Priority II and III streets identified on Drawing 3;

- (f) opening and keeping streets and lanes open during a major snowfall and/or snow blizzard;
- (g) snow clearing using truck plows on the Priority I, Priority II and Priority III streets noted in Appendices A, B and C;
- (h) other winter maintenance activities as required between major snowfalls.

D2.4 The Contract Administrator reserves the right to perform routine winter maintenance on the streets listed in Appendices A, B and C, back lanes shown on Drawing 2, and sidewalks shown on Drawing 3 using City forces. Routine winter maintenance includes:

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

D3. DEFINITIONS

D3.1 When used in this Bid Opportunity:

- (a) "**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 back lanes means a level, dense compacted layer of snow that will only allow minimal rutting from vehicular traffic and has a maximum thickness of 200mm from the compacted snow surface to underlying pavement.

D4. CONTRACT ADMINISTRATOR

D4.1 The Contract Administrator is:
Jean-Luc Lambert, E.I.T
Streets Preservation Specialist
Acting Support Services Supervisor
Telephone No. 204- 806-0786
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/her employ.

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

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

D6. OWNERSHIP OF INFORMATION, CONFIDENTIALITY AND NON DISCLOSURE

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

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

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

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

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

D7. OPERATOR'S COMPETENCE AND PERFORMANCE

D7.1 The Contractor's operator shall maintain all equipment/trucks in good working order and shall perform all obligations expressed and implied in this Bid Opportunity in a good, safe and workmanlike manner. Where, in the opinion of the City Inspector, an operator fails to meet the obligations expressed or implied in this Bid Opportunity, and without limited the generality of the foregoing, the operator is:

- (a) unqualified, or
- (b) operating in an unsafe manner, or
- (c) not performing a satisfactory amount of Work, or
- (d) engaged in activity outside the City's interests.

D7.2 The equipment/truck and operator may be dismissed immediately and shall not be re-engaged until such time as the inadequacies that resulted in the dismissal have been remedied to the sole satisfaction of the Contract Administrator.

D8. NOTICES

D8.1 Notwithstanding C22.3, all notices of appeal to the Chief Administrative Officer shall be sent to the attention of the Chief Financial Officer at the following facsimile number:

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

SUBMISSIONS

D9. AUTHORITY TO CARRY ON BUSINESS

D9.1 The Contractor shall be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, or if the Contractor does not carry on business in Manitoba, in the jurisdiction where the Contractor does carry on business, throughout the term of the Contract, and shall provide the Contract Administrator with evidence thereof upon request.

D10. INSURANCE

D10.1 The Contractor shall provide and maintain the following insurance coverage:

- (a) commercial general liability insurance, in the amount of at least two million dollars (\$2,000,000.00) inclusive, with The City of Winnipeg added as an additional insured; such liability policy to also contain a cross-liability clause, contractual liability, non-owned automobile liability, unlicensed equipment liability (contractors equipment) and products and completed operations cover, to remain in place at all times during the performance of the Work;
- (b) Automobile Liability Insurance covering all motor vehicles, owned and operated and used or to be used by the Contractor directly or indirectly in the performance of the Service. The Limit of Liability shall not be less than \$2,000,000 inclusive for loss or damage including personal injuries and death resulting from any one accident or occurrence;

D10.2 Deductibles for commercial general liability must be expressly stated on the certificate of insurance and must not exceed \$5,000.00.

D10.3 Deductibles shall be borne by the Contractor.

D10.4 The Certificate must clearly state: "Operations include snow removal on City right-of-ways during winter months" (i.e. insurance to cover snow removal and ice control of streets, roadways, back lanes/alleys, sidewalks, etc.).

D10.5 The Contractor shall provide the Contract Administrator with a certificate(s) of insurance, in a form satisfactory to the City Solicitor, at least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.

D10.6 The Contractor shall not cancel, materially alter, or cause the policy to lapse without providing at least thirty (30) Calendar Days prior written notice to the Contract Administrator.

SCHEDULE OF WORK

D11. COMMENCEMENT

D11.1 The Contractor shall not commence any Work until he/she is in receipt of a notice of award from the City authorizing the commencement of the Work.

D11.2 The Contractor shall not commence any Work on the Site until:

- (a) the Contract Administrator has confirmed receipt and approval of:
 - (i) evidence of authority to carry on business specified in D9;
 - (ii) evidence of the workers compensation coverage specified in C6.14; and
 - (iii) evidence of the insurance specified in D10.
- (b) the Contractor has attended a meeting with the Contract Administrator, or the Contract Administrator has waived the requirement for a meeting.

D12. TOTAL PERFORMANCE

- D12.1 The Contractor shall achieve Total Performance by June 30, 2017, for work specified in D2.
- D12.2 When the Contractor or the Contract Administrator considers the Work to be totally performed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Contract Administrator for purposes of verifying Total Performance. Any defects or deficiencies in the Work noted during that inspection shall be remedied by the Contractor at the earliest possible instance and the Contract Administrator notified so that the Work can be reinspected.
- D12.3 The date on which the Work has been certified by the Contract Administrator as being totally performed to the requirements of the Contract through the issue of a certificate of Total Performance is the date on which Total Performance has been achieved.

CONTROL OF WORK

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

- D13.1 Further to C6.23, the Contractor shall be the Prime Contractor and shall serve as, and have the duties of the Prime Contractor in accordance with The Workplace Safety and Health Act (Manitoba).

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

- D14.1 Further to B10.4, the Contractor/Subcontractor must, throughout the term of the Contract, have a Workplace Safety and Health Program meeting the requirements of The Workplace Safety and Health Act (Manitoba). At any time during the term of the Contract, the City may, at its sole discretion and acting reasonably, require updated proof of compliance, as set out in B10.4.

D15. SAFETY

- D15.1 The Contractor shall be solely responsible for safety at the Site and for compliance with all laws, rules, regulations and practices required by the applicable safety legislation.
- D15.2 The Contractor shall be solely responsible for securing the Site, and any existing facility thereon, and for the proper care and protection of the Work already performed.
- D15.3 The Contractor shall do whatever is necessary to ensure that:
- (a) no person, property, right, easement or privilege is injured, damaged or infringed by reason of the Contractor's activities in performing the Work;
 - (b) the health and safety of all persons employed in the performance of the Work or otherwise is not endangered by the method or means of its performance;
 - (c) adequate medical services are available to all persons employed on the Work and at all times during the performance of the Work;
 - (d) adequate sanitation measures are taken and facilities provided with respect to the Work.
 - (e) pedestrian and other traffic on any public or private road or waterway is not unduly impeded, interrupted or endangered by the performance or existence of the Work or Plant;
 - (f) fire hazards in or about the Work are eliminated;

MEASUREMENT AND PAYMENT

D16. PAYMENT

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

PART E - SPECIFICATIONS

GENERAL

E1. APPLICABLE SPECIFICATIONS AND DRAWINGS

E1.1 These Specifications shall apply to the Work.

E1.2 The following are applicable to the Work:

<u>Drawing No.</u>	<u>Drawing Name/Title</u>
1	East Area (North) Snow Clearing Priority Streets
2	East Area (North) Snow Clearing Back Lanes
3	East Area (North) Snow Clearing Sidewalks

E1.3 Bidders are reminded that requests for approval of substitutes as an approved equal or an approved alternative shall be made in accordance with B6.

E2. SNOW CLEARING REQUIREMENTS

E2.1 General Work

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

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

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

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

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

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

E2.1.7 Windrows at bus stops shall be removed to a distance of twelve (12) meters 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 0.6 m from the curb face and shall not expose, but be within 100 mm of the median surface. The median cut shall be carried out in conjunction with the adjacent grader plow operations, and shall be included in the lane km price.
- E2.1.18 Snow removal at traffic circles shall include the removal of snow from the inner shoulder area, which shall be considered incidental to the full width snow clearing operation.
- E2.1.19 Work for each snow clearing operation shall commence only upon the instructions of the Contract Administrator.
- E2.1.20 Normally, Priority I (Regional) Streets shall receive the highest priority for snow clearing followed by Priority II (Bus Routes and Collectors) Streets and then Priority III (Residential) Streets. However, the Contact Administrator may direct otherwise and the Contractor shall conform to all such directives, either oral or written.
- E2.1.21 Back lane and sidewalk snow clearing operations will normally be undertaken concurrently with street and street priority operations. However, the Contract Administrator may direct otherwise and the contractor shall conform to all such directives.
- E2.1.22 The Contractor shall respond immediately to rectify snow clearing deficiencies which generate citizens' complaints. If in the opinion of the Contract Administrator, the response is inadequate, then the City shall have the option of performing the necessary Work and the costs of such Work shall be borne by the Contractor.
- E2.1.23 The Contractor shall coordinate residential plowing location to minimize conflicts with the Waste/Recycling collection. Where conflicts are unavoidable the Contract Administrator will give instructions to the Contractor to relocate Waste/Recycling containers during the plowing operations.
- E2.2 **PRIORITY I (REGIONAL) STREETS (See Appendix A)**
- E2.2.1 Snow clearing activities on Priority I streets includes:
- (a) full width snow clearing and hauling;
 - (b) curb lane snow clearing;
 - (c) truck plow snow clearing;

- (d) interim plowing during major snowfalls; and
- (e) other winter maintenance Work.

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

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

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

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

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

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

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

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

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

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

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

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

E2.3.3 Priority II streets shall be completed within a twenty-four (24) hour period for a clearing operation of a recent accumulation following the time of commencement designated by the Contract Administrator.

- E2.3.4 When Priority II streets are plowed within the same snow clearing operation as Priority I streets, the Priority II streets shall be completed within thirty-six (36) hours following the commencement time for the snow clearing operation.
- E2.3.5 Priority II streets shall be cleared to bare pavement over the full pavement width. The Contractor shall wing back snow windrows in order to create the required storage and perform the 0.6 m median cut as directed by the Contract Administrator. Where the Contractor is unable to meet the requirements of this specification due to parked vehicles, he shall arrange for a sign and tow operation with City forces to facilitate completion in these areas.
- E2.3.6 Payment for the full width snow clearing of Priority II streets will be made at the unit price per lane kilometre and all the Work herein described shall be considered as incidental to the Contract and no further compensation will be considered.
- E2.4 PRIORITY III (RESIDENTIAL) STREETS (See Appendix C)
- E2.4.1 Residential streets shall normally be cleared after:
- (a) a recent snow accumulation of 10 cm or more;
 - (b) poor street conditions caused by less than 10 cm of recent snow accumulation accompanied by snow drifting; and
 - (c) gradual accumulation of snowfall resulting in poor street conditions.
- E2.4.2 Residential streets shall normally be cleared after Priority I and II streets.
- E2.4.3 Priority III streets shall be completed within a thirty-six (36) hour period following the commencement time designated by the Contract Administrator.
- E2.4.4 When Priority III streets are plowed within the same clearing operation as Priority II streets, the Priority III streets shall be completed within sixty (60) hours following the commencement time for the clearing of the Priority II streets.
- E2.4.5 When Priority III streets are plowed within the same snow clearing operation as Priority I and Priority II streets, the Priority III streets shall be completed within seventy-two (72) hours following the commencement time for the snow clearing of the Priority I and II streets.
- E2.4.6 Priority III streets shall be cleared to bare pavement over the full pavement width. The Contractor shall wing back snow windrows in order to create the required storage as directed by the Contract Administrator. Where the Contractor is unable to meet the requirements of this specification due to parked vehicles, he shall arrange for a sign and tow operation with City forces to facilitate completion in these areas.
- E2.4.7 Notwithstanding the requirements of this specification, abnormal snow and ice conditions may make it impossible to adequately clear the Priority III streets to bare pavement. On those occasions, the Contract Administrator shall determine the level of snow clearing required and the time required to complete the operation.
- E2.4.8 Payment for the full width snow clearing of Priority III streets will be made at the unit price per lane kilometre and all the Work herein described shall be considered as incidental to the Contract and no further compensation will be considered.
- E2.4.9 Prior to October 15 of the Contract year:
- (a) the Contract Administrator shall provide to the Contractor a grouping of streets to be completed in each twelve (12) hour shift. Each twelve (12) hour shift will be recognized as a Designated Snow Clearing Zone;
 - (b) the Contract Administrator shall assign a letter to each Designated Snow Clearing Zone based upon the Residential Parking Band. Commencement date and time will determine whether the Designated Snow Clearing Zone is cleared between 0700 to 1900 hours or 1900 to 0700 hours; and

- (c) the Contractor shall provide a start point and equipment deployment schedule for each Designated Snow Clearing Zones.

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

E2.5 BACK LANES (see Drawing 2)

E2.5.1 Back lanes shall normally be cleared after:

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

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

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

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

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

E2.6 SIDEWALKS (see Drawing 3)

E2.6.1 Sidewalks shall normally be cleared after:

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

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

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

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

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

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

E3. HOURLY EQUIPMENT SERVICES

E3.1 GENERAL

- E3.1.1 Snow clearing equipment shall be supplied on an hourly basis when requested by the Contract Administrator for winter maintenance activities between storms and opening up streets, back lanes and sidewalks and keeping them open during major snow storms and blizzards.
- E3.1.2 Snow hauling equipment shall be supplied on an hourly basis when requested by the Contract Administrator for the loading and hauling away of snow between major snowfalls.
- E3.1.3 Any equipment supplied by the Contractor on an hourly basis shall meet the following specifications:
- (a) **Semi-Trailer Dump Trucks:** Category 3 GVW 36,500 kg;
 - (b) **J2 Class Loaders:** Rubber Tired - 4 Wheel Drive Loader;
 - (i) SAE Net Horsepower Minimum 75 H.P.;
 - (ii) Operating Weight 15,000-20,000 lbs.; and
 - (iii) Bucket Size 1.5 – 2.25 cu. yd.
 - (c) **J3 Class Loaders:** Rubber Tired - 4 Wheel Drive Loader;
 - (i) SAE Net Horsepower Minimum 100 H.P.;
 - (ii) Operating Weight 21,000-28,000 lbs. (9,500 kg – 13,000 kg); and
 - (iii) Bucket Size 2.25 – 3.0 cu. yd.
 - (d) **J5 Class Loaders:** Rubber Tired - 4 Wheel Drive Loader;
 - (i) SAE Net Horsepower Minimum 160 H.P.;
 - (ii) Operating Weight 31,000 – 41,000 lbs. (14,000 kg – 18,500 kg); and
 - (iii) Bucket Size 2.7m (8'9") width.
 - (e) **K4 Class Motor Graders:** Minimum 140 Flywheel Horsepower;
 - (f) **K5 Class Motor Graders:** Minimum 160 Flywheel Horsepower; and
 - (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 (2) hours of official notice from the Contract Administrator or be subject to penalties as outlined in E14.
- E3.1.7 Contractors will be required to fill out approved Work tickets showing hours of Work, type of equipment, equipment model and serial number. All Work tickets must be signed by the City inspector and a representative of the Contractor to be valid.
- E3.1.8 Payment for hourly equipment will be made based on the hours actually worked and the unit price per hour shown in Form B: Prices. There will be no overtime premium for Work under this Contract.
- E3.2 TRUCK PLOW CLEARING OPERATIONS
- E3.2.1 Notwithstanding the requirements of E1.1 of the Specifications, the clearing of snow using truck plows shall be in accordance with the following:
- (a) Truck plowing on Priority I, Priority II and Priority III streets may be required during and after any measurable snowfall. The decision to perform a snow clearing operation will be made by the Contract Administrator or his designate;
 - (b) Priority I (Regional) streets shall normally receive the highest priority for snow clearing followed by Priority II (Bus Routes and Collectors) streets and then Priority III (Residential) streets. However, there may be circumstances when Collectors and Bus Routes would be cleared before Regional streets. This shall only be done when so directed by the Contract Administrator;

- (c) Priority I, Priority II and Priority III streets shall be cleared to bare pavement over the full width, except at isolated locations where parked cars make the plowing of the curb lane(s) impossible;
- (d) Notwithstanding E7 the Contractor may be directed to clear only the travel lanes;
- (e) Windrows at all intersections, crosswalks, corridors, railway crossings and private approaches shall be removed if the Contract Administrator or his designate deem that they present a hazard to traffic;
- (f) Reasonable care shall be taken so that snow from the truck plow clearing operations shall not be deposited in sidewalk areas. Snow deposited on the sidewalk areas unnecessarily shall be removed by the Contractor at his expense; and
- (g) Snow may be deposited on centre medians when allowed by the Contract Administrator.

E4. EQUIPMENT

E4.1 The Contractor shall provide the following minimum quantity and type of equipment in first class working condition:

- (a) 10 motor graders;
- (b) 12 loaders;
- (c) 4 truck plows;
- (d) 2 sidewalk snow plows; and
- (e) 1 sidewalk snow blower.

E4.2 All equipment shall be made available for inspection by the Contract Administrator or his designate prior to the award of Contract.

E4.3 The Bidder is not required to own the equipment at the time of the Submission Deadline. The Bidder shall, however, provide the Contract Administrator, within seventy-two (72) hours of being requested, the name of the registered owner of each proposed piece of equipment and a copy of a binding contract, or option to purchase or to contract, for the use of the equipment for the duration of the Contract.

E4.4 LIGHTING

E4.4.1 Each vehicle and each piece of equipment shall be provided with all of the necessary lighting prescribed by the motor vehicle laws of the Province of Manitoba.

E4.4.2 Notwithstanding the generality of the foregoing, the Contractor shall ensure that all equipment is equipped with working lighting systems sufficient to facilitate the Work. At a minimum, all equipment must be equipped with the following lighting:

- (a) at least two headlights;
- (b) at least two rear running lights;
- (c) turning signals front and rear;
- (d) stop light at rear;
- (e) at least one flashing or oscillating blue or amber light, clearly visible in all directions (360 degrees);
- (f) if the machine is in excess of two (2) metres wide, at least four clearance lights (one 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 though out the entire shift or be removed from hired and contract work.

E4.5 IDENTIFICATION

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

E4.6 COMMUNICATION

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

E4.7 TRUCK PLOWS

E4.7.1 Each truck plow shall conform to the following:

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

E5. DRIVERS LICENSE FOR ALL HIRED HOURLY EQUIPMENT

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

E6. CONTRACTOR'S SUPERVISION AND COMMUNICATION

E6.1 The Contractor shall have a qualified Supervisor on duty during all snow clearing activities regardless of the type and magnitude of the operation. The Supervisor shall be able to attend, monitor and respond to all operational and equipment concerns throughout the contract area.

E6.2 The Contractor's Supervisor shall have two-way communications with the Contractor's office and field crews, and continuously direct, coordinate and inspect the work of the field crews.

E6.3 The Supervisor, or his designate, shall provide a means of 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, sidewalks and back lanes 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, sidewalks and back lanes open during the snow storm shall not be part of the time limits established in E2.2, E2.3, and E2.4.

E7.3 During or after extreme snowfall and/or blizzards, the Contract Administrator may require that Regional and Collector streets, sidewalks and back lanes be opened using both Contract and

City forces in order to open such streets and emergency routes as quickly as possible. The Contractor may be required to dispatch his equipment to work inside and outside the contract area with and under the direction of City forces.

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

E8. QUANTITIES

- E8.1 Further to B8 of the Bidding Procedures, the estimated quantities identified on Form B: Prices for the clearing and hauling of snow on the Priority I, II and III street systems, sidewalks and back lanes are based on the following:

- (a) **Item No. 1 - Priority I (Regional) Street System:** The approximate quantity is based on 89.52 lane km of street for one (1) clearing operation of 0-10 cm;
- (b) **Item No. 2 - Priority II (Bus Routes and Collector) Street System:** The approximate quantity is based on 109.11 lane km of street for three (3) clearing operations of 0-10 cm;
- (c) **Item No. 3 - Priority III (Residential) Street System:** The approximate quantity is based on 231.51 lane km of street for three (3) clearing operations of 0-10 cm;
- (d) **Item No. 4 – Back Lanes:** The approximate quantity is based on 51.34 linear km of back lanes for six (6) clearing operations of 0-10 cm;
- (e) **Item No. 6 – Sidewalks (on Priority II Streets):** The approximate quantity is based on 64.83 km of sidewalks for eight (8) clearing operations of 0-10 cm; and
- (f) **Item No. 7 – Sidewalks (on Priority III Streets):** The approximate quantity is based on 72.81 km of sidewalks for three (3) clearing operations of 0-10 cm.

- E8.2 The total length of lane kilometres, as established by the Public Works Department, are provided in Appendix A - Priority I Streets, Appendix B - Priority II Streets, and Appendix C - Priority III Streets. Drawing 2 indicates the inventory of back lanes and Drawing 3 indicates the inventory of sidewalks in Priority II and III streets. In the event that streets, back lanes or sidewalks are either added or deleted, then the total length shall be adjusted correspondingly for the purpose of measurement and payment.

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

E9. TRAFFIC MOVEMENT AND PARKING

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

E10. MEASUREMENT AND PAYMENT

- E10.1 This section will govern payment for full width street clearing, back lane clearing and sidewalk 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, sidewalks and back lanes 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, sidewalk clearing and back lane clearing operations with the Contractor's full complement of equipment and continuous effort, the Contract Administrator may, at his sole discretion, extend the time limits specified.
- E10.5 Payment will be made for back lane and sidewalk clearing operations based on the unit price per kilometre. The payment for such clearing operations will be based on multiplying the unit bid price for Item No. 4, 5, or 6 on Form B: Prices by the length in kilometres of back lanes and sidewalk cleared.
- E10.6 The Contract Administrator will have the authority to determine whether any clearing and hauling operation constitutes a recent accumulation, a gradual accumulation or a combination of the two. The guideline to be utilized by the Contract Administrator for determining whether a clearing operation is a recent accumulation or a gradual accumulation will be that, where 5 cm or more of snow has fallen over the forty-eight (48) hour period preceding the direction to commence clearing services, the accumulation will be considered a recent accumulation. Otherwise, the clearing operation will be considered a gradual accumulation.
- E10.7 Payment will be made for full width clearing and hauling operations on Priority I (Regional) Streets, Priority II (Collector) Streets, Priority III (Residential) streets based on the unit price per lane kilometre and a snow accumulation factor (F) which is dependent on the quantity of snowfall and the type of snow accumulation. The payment for all such clearing operations will be based on multiplying the unit price (R) for Item No. 1, 2, or 3, on Form B: Prices, as the case may be, by the length in kilometres cleared (L), as determined by the Contract Administrator, multiplied by the snow accumulation factor (F), as determined by the Contract Administrator; or $\text{Payment} = R \times L \times F$.
- E10.8 The snow accumulation for purposes of payment for a recent accumulation shall be the quantity of snow deemed to be cleared/hailed by the Contractor as determined by the Contract Administrator in accordance with this section. There may be hourly snow hauling, plowing and/or salting operations carried on by others on some portions of the street systems affected by this Contract. Therefore, the depth of the snow accumulation to be used for payment for the removal of a recent accumulation will be that portion of snow that has recently fallen immediately preceding the start of a clearing operation and during the said operation, but not including cleared or removed by others or by environmental processes, as determined solely by the Contract Administrator. The duration and depth of snowfall will be based on official reports from a weather consulting service. Notice of any dispute by the City arising from the amount of snow accumulation used to calculate payments for a recent clearing operation shall be forwarded to the Contract Administrator within fifteen (15) days of the City notifying the Contractor of the amounts used for payment for a given clearing operation. Failure by the Contractor to give notice of such dispute within the time specified shall preclude the Contractor from disputing the amount for which the City will pay.
- E10.9 No payment will be made for gradual accumulation after March 15 of the Contract year in the event that all of the gradual accumulation has completely melted and does not physically exist

on the street at the time of a plowing operation initiated by a recent accumulation. This determination will be made by the Contract Administrator.

E10.10 The snow accumulation factor will be determined by the appropriate formula based on the type of accumulation and the quantity of snowfall. The formula to be used to calculate the snow accumulation factor for each payment scenario are identified in 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 centimeters of recent accumulation snowfall.
(3) Gradual	Starting on December 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 centimeters of gradual accumulation snowfall.
(4) Combination of recent and gradual	0-10.0 cm (x) of recent and y cm of gradual starting on December 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 centimeters of recent accumulation snowfall and y is the number of centimeters of gradual accumulation snowfall.
(5) Combination of recent and gradual	Greater than 10.0 cm of recent (x) and y cm of gradual starting on December 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 centimeters of recent accumulation snowfall and y is the number of centimeters of gradual accumulation snowfall.

E10.10.1 For a clearing operation required as a result of a recent accumulation of 10 cm or less (0-10 cm), the accumulation factor (F) is 1.00. Payment will be made at the unit price multiplied by the length in kilometres of traffic lanes cleared multiplied by 1.000.

Example: The total payment for a clearing operation after 9.3 cm of recent accumulation would be unit price \times lane kilometres \times 1.000).

E10.10.2 For a clearing operation required as a result of a recent accumulation in excess of 10 cm, the accumulation factor will be determined by adding 1.000 (which is the factor for the first 10 cm) to 90% of the snow accumulation in excess of 10 cm divided by ten (10). Payment will be made at the unit price multiplied by the length in kilometres of traffic lanes cleared multiplied by the snow accumulation factor.

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

E10.10.3 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 ten (10), whichever value is greater. Payment will be made at the unit price multiplied by the length in kilometres of traffic lanes cleared multiplied by the snow accumulation factor.

Example: Assume that, on February 28, 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 \times lane kilometres \times 1.000).

E10.10.4 For a clearing operation required as result of a recent accumulation of 10 cm or less (0-10 cm) and where there has also been gradual accumulation measured starting on 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 ten (10), whichever value is greater. Payment will be made at the unit price multiplied by the length in kilometres of traffic lanes cleared multiplied by the snow accumulation factor.

Example: Assume that during the Contract year there has been a snowfall on January 20 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 cm of snow has gradually accumulated between December 15th and the commencement of the recent accumulation on January 20. The snow accumulation factor and payment would be calculated as follows:

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

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

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

E10.10.5 For a clearing operation required as result of a recent accumulation of greater than 10 cm and where there has also been gradual accumulation measured starting on 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 10 cm of recent accumulation) to 90% of the recent snow accumulation in excess of 10 cm divided by ten (10) and then adding 30% of the gradual accumulation and divided by ten (10). Payment will be made at the unit price multiplied by the length in kilometres of traffic lanes cleared multiplied by the snow accumulation factor.

Example - Assume that during the Contract year there has been a snowfall on January 20 of 16.8 cm and, in the opinion of the Contract Administrator, there is need for a snow clearing operation. Assume further that 20.5 cm of snow has gradually accumulated between December 15 and the commencement of the recent accumulation on January 20. 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 \times lane kilometres \times 2.227).

E10.11 Payment shall be made for snow clearing services, such as truck plowing or maintenance snow clearing between snow storms and snow clearing during major storms/blizzards, as specified in E3 of the Specifications at the Bid hourly rate per equipment class on Form B: Prices, as the case may be, multiplied by the hours actually worked for each specific class as determined by the Contract Administrator.

- E10.12 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 per lane kilometre or kilometre respectively.
- E10.13 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 2014 to 2015 Snow Season".
- E10.14 The City shall guarantee to pay to the Contractor a minimum amount (referred to as the "guaranteed minimum amount") equal to 60% of the unit price shown on Form B: Prices.
- E10.14.1 Payment for Work done shall be as provided in E8 and all such payments shall be deducted from the guaranteed minimum amount.
- E10.14.2 On December 31, all payments received by the Contractor under this Contract will be totalled and the total compared with 10% of the Total Bid Price. If the total of the payments received is less than 10% of the Total Bid Price, then the difference between the aforesaid figures will be paid to the Contractor as an advance on the guaranteed minimum amount. The amount of the advance will be set off against subsequent payments for work done by the Contractor.
- E10.14.3 On February 28, all payments received by the Contractor under this Contract for Work done and as an advance on the guaranteed minimum amount will be totalled and that total compared with 35% of the Total Bid Price. If the total of the payments received is less than 35% of the Total Bid Price, then the difference will be paid to the Contractor as an advance on the guaranteed minimum amount. The amounts of any advances received by the Contractor will be set off against subsequent payments for Work done by the Contractor pursuant to the Contract.
- E10.14.4 At the conclusion of the Contract year, all payments received by the Contractor or under this Contract for Work done or as an advance on the guaranteed minimum amount will be totalled and that total compared with the guaranteed minimum amount. Only when the total of the payments received is less than the guaranteed minimum amount will additional monies be payable by the City to the Contractor under the terms of this Contract.
- E10.14.5 The Contractor will not be compensated for any inconvenience and costs which may result from excavation Work on the streets, sidewalks or back lanes, the parking of vehicles on the roadway, vehicle movement, or any other obstruction to his Work.
- E10.14.6 The Contractor shall note that on the Regional Streets System portion of this Contract, the unit price shall include the cost of all necessary hauling for Priority I (Regional) Streets as specified in the Contract.
- E10.14.7 The Contractor shall note that on the Priority I and Priority II street system portion of this Contract, the unit price bid shall include the cost of the 0.6 m median cut as specified in the contract.
- E10.14.8 It is the City of Winnipeg's intent to hold back five (5) percent of progress estimates for all Work performed under this Contract as a damage deposit relating to E13 of the Specifications. These funds will be released when damages are rectified in accordance with E13.

E11. ANNUAL REVIEW – INFLATIONARY ADJUSTMENT

- E11.1 The unit prices specified on Form B: Prices will be adjusted on the first Contract anniversary date, and subsequent anniversary dates based on the percentage increase or decrease in unit prices for the Contract year from the All-items Consumer Price Index for Winnipeg, normally referred to by Statistics Canada as Table 326-0001. The calculation of the adjustment will be based on October 1 of the previous year to October 1 of the current year. The first inflationary adjustment shall occur on October 1, 2015. The maximum annual adjustment shall not exceed 10%.

E11.2 The index used will be that prepared by Statistics Canada. Since the index may not be available until sometime after the adjustment date, the adjustment will be retroactive.

E12. PRICE ADJUSTMENT – FUEL COSTS

E12.1 Notwithstanding C11.2, price adjustments for unforeseen fuel cost changes will include increases or decreases in the price of diesel fuel.

E12.2 The City of Winnipeg will determine the Base Price of fuel costs based on the average diesel fuel price for the month of July of 2014 charged to the Streets Maintenance Division by the City of Winnipeg Fleet Management Agency.

E12.3 Price adjustments will be assessed on October 1 and on January 1 of each contract year.

E12.3.1 Price adjustments will only be made for any fuel price increase or decrease in excess of three percent (3%).

E12.3.2 The actual diesel fuel price (Actual Price) will be determined on the dates indicated in E12.3 using the average fuel price of the previous month (e.g. for October 1 the average price for the month of September will be used and for January 1 the average price for December will be used).

E12.4 Price adjustments will be applied to seventeen percent (17%) of the unit price by the Contractor on all items, which is the portion of the bid price that is attributable to fuel.

E12.4.1 If fuel prices increase by more than three percent (3%) of the Base Price identified in E12.2, then a price adjustment for fuel will be made and paid for based on the quantity of eligible work on each progress estimate following the date of adjustment in accordance with the following formula:

$$\text{Price Adjustment} = (\text{Actual Price} - (1.03 \times \text{Base Price})) \times (0.17 \times \text{unit price})$$

E12.4.2 If fuel prices decrease by more than three percent (3%) of the Base Price, then a price adjustment for fuel will be made and paid for based on the quantity of eligible Work on each progress estimate following the date of adjustment in accordance with the following formula:

$$\text{Price Adjustment} = ((0.97 \times \text{Base Price}) - \text{Actual Price}) \times (0.17 \times \text{unit price})$$

E13. DAMAGE TO PUBLIC AND PRIVATE PROPERTY

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

E13.2 The Contractor shall immediately report damages to City or private property to the Contract Inspector.

E13.3 Any damage to pavements, boulevards, trees, etc. that in no way present a hazard to either pedestrian or vehicular traffic shall be reported to the Contract Administrator and rectified by the Contractor in accordance with City of Winnipeg specifications prior to June 30 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.

E13.4 The Contractor shall repair all curbs damaged as a result of snow clearing operations. The repairs will be conducted at the exact locations at which the curb damage was assessed. The Contractor shall remove and dispose of any loose curb material prior to April 15 of each year.

E13.5 Any damage to street appurtenances such as, but not limited to, street light standards, signal lights, hydrants, valve boxes, railway signal arm protective devices shall be rectified

immediately. If in the process of clearing snow from a street, the Contractor dislodges a manhole frame, it must be restored immediately. Failure to rectify damages immediately may result in the damages being rectified by the City or its agents and the associated costs borne by the Contractor. In the event that the manhole frame is damaged beyond replacement, the Contractor shall immediately install temporary warning devices to protect pedestrians and vehicles and notify the City at 311, so that a repair can be made by City forces. The costs for such repair will be borne totally by the Contractor.

- E13.6 The Contractor shall repair any sod damage caused by his snow clearing operations with top soil and seed or with sod as directed by the Contract Administrator. All restorations shall be in accordance with City of Winnipeg Standard Construction Specifications.
- E13.7 The Contractor shall replace with equal, any recycling bins or refuse containers destroyed, lost or misplaced by his operations at least one (1) day prior to the next refuse day cycle.

E14. PENALTIES

- E14.1 Where the Contractor does not satisfactorily complete the Work on Priority I, II or III streets, sidewalks or back lanes in accordance with the time and quality requirements specified in E1.1, the Contractor shall be assessed a penalty.
- E14.1.1 For Priority I streets, the penalty shall be in the amount of \$1,500.00 or an amount equal to fifty percent (50%) of the unit price per lane kilometre multiplied by the lane kilometres not satisfactorily completed multiplied by the snow accumulation factor, whichever is greater.
- E14.1.2 For Priority II and Priority III streets, the penalty shall be in the amount of \$1,500.00 or an amount equal to twenty-five percent (25%) of the unit price per lane kilometre multiplied by the lane kilometres not satisfactorily completed multiplied by the snow accumulation factor, whichever is greater.
- E14.1.3 For sidewalks and back lanes, the penalty shall be in the amount of \$1,500.00 or an amount equal to twenty-five percent (25%) of the unit price per kilometre times the kilometres not satisfactorily completed, whichever is greater for each back lane.
- E14.1.4 Streets, sidewalks and back lanes that the Contract Administrator deems to be deficient in whole and not in part will be considered incomplete and may be subject to the above penalty.
- E14.2 Where the Contractor does not supply up to the minimum quantity and type of equipment identified in E4 within two hours as outlined in E3.1.6 of the Specifications, the Contractor shall be assessed a penalty of five hundred dollars (\$500.00) per piece of equipment per call out below the minimum number as specified in E4. The minimum requirement shall apply throughout the duration of the operation from call-out to release of equipment.
- E14.3 Where the Contractor does not satisfactorily perform any snow clearing operation in accordance with the requirements of E1.1, particularly in reference to the quality of the Work following an inspection by the Contract Administrator the Work shall be declared a deficiency. The Contractor shall be requested to rectify the portion of streets, sidewalks or back lanes found to be unsatisfactory in quality within twenty-four (24) hours of notification or in a time period to be agreed to by the Contract Administrator. Failure to respond may result in the City performing the required Work and charging the cost of such Work back to the Contractor.
- E14.4 Any performance deficiency related to E1.1 such as, but not limited to, depositing snow in unauthorized locations, depositing snow on private property, or not removing snow windrows from approaches, shall be rectified immediately by the Contractor. Failure to respond will result in the City or its agent rectifying the deficiencies and charging the costs back to the Contractor.
- E14.5 Where the Contractor fails to replace recycling bins or refuse containers as described in E13.7, the City will replace these items and assess a penalty of \$100.00 per item.

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APPENDIX A – EAST AREA (NORTH) PRIORITY I STREETS

STREET NAME	FROM STREET	TO STREET	SNOW ROUTE	PRIORITY	LANE KM
Bowman Av	Henderson Hw	Henderson Hw	Regional	P1	0.03
Bredin Dr	Henderson Hw	Henderson Hw	Regional	P1	0.03
Bronx Av	Henderson Hw	Henderson Hw	Regional	P1	0.03
Bronx Pl	Henderson Hw	Henderson Hw	Regional	P1	0.03
Carmen Av	Henderson Hw	Henderson Hw	Regional	P1	0.03
Chalmers Av	Henderson Hw	Henderson Hw	Regional	P1	0.03
Chelsea Pl	Henderson Hw	Henderson Hw	Regional	P1	0.03
Cheriton Av	Henderson Hw	Henderson Hw	Regional	P1	0.03
Chief Peguis Tl	Chief Peguis Tl	Main St	Regional	P1	0.14
Chief Peguis Tl	Chief Peguis Tl	Henderson Hw	Regional	P1	0.51
Chief Peguis Tl	Chief Peguis Tl Bridge	Henderson Hw	Regional	P1	1.69
Chief Peguis Tl	Chief Peguis Tl Bridge	Main St	Regional	P1	0.47
Chief Peguis Tl	Main St	Chief Peguis Tl Bridge	Regional	P1	0.48
Chief Peguis Tl	Chief Peguis Tl	Gateway Rd	Regional	P1	0.13
Chief Peguis Tl	Gateway Rd	Lagimodiere Bv	Regional	P1	3.02
Chief Peguis Tl	Lagimodiere Bv	Gateway Rd	Regional	P1	3.01
Chief Peguis Tl	Henderson Hw	Chief Peguis Tl Bridge	Regional	P1	1.69
Chief Peguis Tl	Chief Peguis Tl	Gateway Rd	Regional	P1	0.14
Chief Peguis Tl	Gateway Rd	Gateway Rd	Regional	P1	0.02
Chief Peguis Tl	Gateway Rd	Gateway Rd	Regional	P1	0.02
Chief Peguis Tl	Henderson Hw	Gateway Rd	Regional	P1	4.19
Chief Peguis Tl	Gateway Rd	Henderson Hw	Regional	P1	4.20
Chief Peguis Tl	Chief Peguis Tl	Henderson Hw	Regional	P1	0.54
Chief Peguis Tl	Chief Peguis Tl	Lagimodiere Bv	Regional	P1	0.25
Chief Peguis Tl	Henderson Hw	Henderson Hw	Regional	P1	0.03
Chief Peguis Tl	Henderson Hw	Henderson Hw	Regional	P1	0.03
Chief Peguis Tl Bridge	Chief Peguis Tl	Chief Peguis Tl	Regional	P1	0.66
Chief Peguis Tl Bridge	Chief Peguis Tl	Chief Peguis Tl	Regional	P1	0.66

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Dearborn Av	Henderson Hw	Henderson Hw	Regional	P1	0.03
Desalaberry Av	Watt St	Watt St	Regional	P1	0.02
Devon Av	Henderson Hw	Henderson Hw	Regional	P1	0.03
Disraeli Bridge	Disraeli Fwy	Disraeli Bridge NB to Talbot Av	Regional	P1	0.67
Disraeli Bridge	Disraeli St to Disraeli Bridge SB	Disraeli Fwy	Regional	P1	0.82
Disraeli Bridge	Henderson Hw	Disraeli Fwy	Regional	P1	0.65
Disraeli Bridge	Disraeli Fwy	Disraeli Bridge NB to Gladstone	Regional	P1	0.81
Disraeli Fwy	Henry Av	Argyle St	Regional	P1	0.52
Disraeli Fwy	Henry Av	Logan Av	Regional	P1	0.36
Disraeli Fwy	Main St	Martha St	Regional	P1	0.47
Disraeli Fwy	Logan Av	Martha St	Regional	P1	0.20
Disraeli Fwy	Disraeli Bridge SB to Disraeli St	Disraeli St to Disraeli Bridge SB	Regional	P1	0.15
Disraeli Fwy	Disraeli Bridge NB to Gladstone	Gladstone St to Disraeli Bridge	Regional	P1	0.15
Disraeli Fwy	Logan Av	Logan Av	Regional	P1	0.19
Disraeli Fwy	Main St	Martha St	Regional	P1	0.37
Disraeli Fwy	Martha St	Lily St	Regional	P1	0.46
Disraeli Fwy	Henry Av	Disraeli Bridge	Regional	P1	0.91
Disraeli Fwy	Lily St	Henry Av	Regional	P1	0.40
Disraeli Fwy	Disraeli Bridge	Disraeli Bridge SB to Disraeli St	Regional	P1	0.15
Disraeli Fwy	Argyle St	Disraeli Bridge	Regional	P1	0.33
Disraeli Fwy	Gladstone St to Disraeli Bridge	Disraeli Bridge	Regional	P1	0.17
Donalda Av	Henderson Hw	Henderson Hw	Regional	P1	0.03
Douglas Av	Henderson Hw	Henderson Hw	Regional	P1	0.03
Dunrobin Av	Henderson Hw	Henderson Hw	Regional	P1	0.03
Edison Av	Henderson Hw	Henderson Hw	Regional	P1	0.03
Fortier Av	Henderson Hw	Henderson Hw	Regional	P1	0.02
Frasers Gr	Henderson Hw	Henderson Hw	Regional	P1	0.03
Gateway Rd	Blantyre Av	Kimberly Av	Regional	P1	0.23
Gateway Rd	Budden Dr	Antrim Rd	Regional	P1	0.99
Gateway Rd	Jim Smith Dr	Taunus Dr	Regional	P1	0.16
Gateway Rd	Antrim Rd	Blantyre Av	Regional	P1	0.54
Gateway Rd	Tu Pelo Av	Mcleod Av	Regional	P1	0.35

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Gateway Rd	Jeffrey Cr	Budden Dr	Regional	P1	0.17
Gateway Rd	McLeod Av	Furniture Pk	Regional	P1	0.57
Gateway Rd	Springfield Rd	Burnett Av	Regional	P1	0.86
Gateway Rd	Furniture Pk	Burnett Av	Regional	P1	0.39
Gateway Rd	Springfield Rd	Tanus Dr	Regional	P1	0.28
Gateway Rd	Tu Pelo Av	Jeffrey Cr	Regional	P1	0.31
Gateway Rd	Chief Peguis Tl	Chief Peguis Tl	Regional	P1	0.04
Gateway Rd	Chief Peguis Tl	Chief Peguis Tl	Regional	P1	0.04
Gateway Rd	Gateway Rd	Chief Peguis Tl	Regional	P1	0.17
Gateway Rd	Gateway Rd	Chief Peguis Tl	Regional	P1	0.49
Gateway Rd	Chief Peguis Tl	Jim Smith Dr	Regional	P1	0.58
Gilmore Av	Henderson Hw	Henderson Hw	Regional	P1	0.02
Greene Av	Henderson Hw	Henderson Hw	Regional	P1	0.03
Harbison Av W	Henderson Hw	Henderson Hw	Regional	P1	0.03
Hart Av	Henderson Hw	Henderson Hw	Regional	P1	0.03
Hawthorne Av	Hawthorne Av	Hawthorne Av	Regional	P1	0.03
Hawthorne Av	Henderson Hw	Henderson Hw	Regional	P1	0.03
Hazel Dell Av	Henderson Hw	Henderson Hw	Regional	P1	0.03
Helmsdale Av	Henderson Hw	Henderson Hw	Regional	P1	0.03
Helmsdale Av	Henderson Hw	Henderson Hw	Regional	P1	0.03
* Henderson Hw	Glenway Av	Emerson Av	Regional	P1	0.38
* Henderson Hw	Martin Av W	Carmen Av	Regional	P1	0.28
* Henderson Hw	Leighton Av	Roberta Av	Regional	P1	0.24
* Henderson Hw	Eastwood Dr	Knowles Av	Regional	P1	0.38
* Henderson Hw	Larsen Av	Harbison Av W	Regional	P1	0.26
* Henderson Hw	Dearborn Av	Mighton Av	Regional	P1	0.41
* Henderson Hw	Litz Pl	Sutton Av	Regional	P1	0.15
* Henderson Hw	Canterbury Pl	Melbourne Av	Regional	P1	0.13
* Henderson Hw	Helmsdale Av	Dunrobin Av	Regional	P1	0.28
* Henderson Hw	Linden Av	Greene Av	Regional	P1	0.24
* Henderson Hw	Essar Av	Springfield Rd	Regional	P1	0.15
* Henderson Hw	Sutton Av	Essar Av	Regional	P1	0.10

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* Henderson Hw	Helmsdale Av	Kimberly Av	Regional	P1	0.29
* Henderson Hw	Chief Peguis Tl	Chief Peguis Tl	Regional	P1	0.04
* Henderson Hw	Kimberly Av	Bronx Pl	Regional	P1	0.25
* Henderson Hw	Helmsdale Av	Helmsdale Av	Regional	P1	0.04
* Henderson Hw	Douglas Av	Gilmore Av	Regional	P1	0.68
* Henderson Hw	Linden Av	Hazel Dell Av	Regional	P1	0.25
* Henderson Hw	Hazel Dell Av	Oakview Av	Regional	P1	0.24
* Henderson Hw	Chelsea Av	Chelsea Pl	Regional	P1	0.08
* Henderson Hw	Chalmers Av	Carmen Av	Regional	P1	0.12
* Henderson Hw	Bronx Av	Chelsea Pl	Regional	P1	0.20
* Henderson Hw	Canterbury Pl	Chelsea Pl	Regional	P1	0.24
* Henderson Hw	Dunrobin Av	Helmsdale Av	Regional	P1	0.28
* Henderson Hw	Hawthorne Av	Hawthorne Av	Regional	P1	0.09
* Henderson Hw	Cheriton Av	Hawthorne Av	Regional	P1	0.28
* Henderson Hw	Devon Av	Cheriton Av	Regional	P1	0.24
* Henderson Hw	Melbourne Av	Kildonan Dr	Regional	P1	0.19
* Henderson Hw	Cobourg Av	Johnson Av W	Regional	P1	0.11
* Henderson Hw	Johnson Av W	Noble Av	Regional	P1	0.15
* Henderson Hw	Greene Av	Roberta Av	Regional	P1	0.24
* Henderson Hw	Chelsea Pl	Bronx Av	Regional	P1	0.20
* Henderson Hw	Greene Av	Roberta Av	Regional	P1	0.24
* Henderson Hw	Whellams Ln	Litz Pl	Regional	P1	0.48
* Henderson Hw	Bronx Pl	Kimberly Av	Regional	P1	0.23
* Henderson Hw	Helmsdale Av	Helmsdale Av	Regional	P1	0.04
* Henderson Hw	Chalmers Av	Johnson Av W	Regional	P1	0.26
* Henderson Hw	Hart Av	Hespeler Av	Regional	P1	0.25
* Henderson Hw	Edison Av	Grandview St	Regional	P1	0.18
* Henderson Hw	Mighton Av	Dearborn Av	Regional	P1	0.23
* Henderson Hw	Oakland Av	Mcleod Av	Regional	P1	0.24
* Henderson Hw	Poplar Av	Noble Av	Regional	P1	0.12
* Henderson Hw	Hart Av	Poplar Av	Regional	P1	0.13
* Henderson Hw	Gilmore Av	Fortier Av	Regional	P1	0.32

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* Henderson Hw	Donalda Av	Trent Av	Regional	P1	0.28
* Henderson Hw	Noble Av	Poplar	Regional	P1	0.12
* Henderson Hw	Sydney Av	Kildonan Dr	Regional	P1	0.06
* Henderson Hw	Neil Av	Sydney Av	Regional	P1	0.31
* Henderson Hw	Neil Pl	Neil Av	Regional	P1	0.05
* Henderson Hw	Martin Av W	Harbison Av W	Regional	P1	0.22
* Henderson Hw	Rossevelt Pl	Bredin Dr	Regional	P1	0.24
* Henderson Hw	Hawthorne Av	Hawthorne Av	Regional	P1	0.09
* Henderson Hw	Cheriton Av	Devon Av	Regional	P1	0.24
* Henderson Hw	Dunrobin Av	Oakview Av	Regional	P1	0.24
* Henderson Hw	Bronx Av	Bronx Pl	Regional	P1	0.05
* Henderson Hw	Harbison Av W	Larsen Av	Regional	P1	0.23
* Henderson Hw	Dearborn Av	Gordon Av	Regional	P1	0.40
* Henderson Hw	Hespeler Av	Mcintosh Av	Regional	P1	0.11
* Henderson Hw	Neil Av	Neil Pl	Regional	P1	0.05
* Henderson Hw	Noble Av	Johnson Av W	Regional	P1	0.15
* Henderson Hw	Oakview Av	Dunrobin Av	Regional	P1	0.24
* Henderson Hw	Bowman Av	Jamison Av	Regional	P1	0.25
* Henderson Hw	Gordon Av	Hespeler Av	Regional	P1	0.11
* Henderson Hw	Winterton	Munroe Av	Regional	P1	0.25
* Henderson Hw	Springfield Rd	Sutton Av	Regional	P1	0.26
* Henderson Hw	Bredin Dr	Larsen Av	Regional	P1	0.24
* Henderson Hw	Fortier Av	Mcivor Av	Regional	P1	0.04
* Henderson Hw	Douglas Av	Stuart Av	Regional	P1	0.28
* Henderson Hw	Bredin Dr	Washington Av	Regional	P1	0.05
* Henderson Hw	Bonner Av	Strood Av	Regional	P1	0.75
* Henderson Hw	Neil Pl	Trent Av	Regional	P1	0.25
* Henderson Hw	Kildonan Dr	Melbourne Av	Regional	P1	0.19
* Henderson Hw	Winterton Av	Ottawa Av	Regional	P1	0.25
* Henderson Hw	Henderson Hw	Springfield Rd	Regional	P1	0.10
* Henderson Hw	Fortier Av	Henderson Hw	Regional	P1	0.37
* Henderson Hw	Irving Pl	Edison Av	Regional	P1	0.16

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* Henderson Hw	Bonner Av	Knowles Av	Regional	P1	1.34
* Henderson Hw	Henderson Hw	Henderson Hw	Regional	P1	0.03
* Henderson Hw	Henderson Hw	Henderson Hw	Regional	P1	0.03
* Henderson Hw	Kingsford Av	Edison Av	Regional	P1	0.29
* Henderson Hw	Carmen Av	Chalmers Av	Regional	P1	0.12
* Henderson Hw	Sydney Av	Kildonan Dr	Regional	P1	0.06
* Henderson Hw	Donalda Av	Munroe Av	Regional	P1	0.33
* Henderson Hw	Winterton Av	Ottawa Av	Regional	P1	0.25
* Henderson Hw	Cobourg Av	Chalmers Av	Regional	P1	0.16
* Henderson Hw	Roberta Av	Leighton Av	Regional	P1	0.25
* Henderson Hw	Riverton Av	Disraeli Bridge	Regional	P1	0.17
* Henderson Hw	Oakland Av	Devon Av	Regional	P1	0.37
* Henderson Hw	Devon Av	Oakland Av	Regional	P1	0.37
* Henderson Hw	Valhalla Dr	Chief Peguis Tl	Regional	P1	0.46
* Henderson Hw	Sutton Av	Whellams Ln	Regional	P1	0.62
* Henderson Hw	Chief Peguis Tl	Whellams Ln	Regional	P1	0.60
* Henderson Hw	Hart Av	Mcintosh Av	Regional	P1	0.13
* Henderson Hw	Mcivor Av	Strood Av	Regional	P1	1.21
* Henderson Hw	Henderson Hw	Fortier Av	Regional	P1	0.37
* Henderson Hw	Mossdale Av	Leighton Av	Regional	P1	0.23
* Henderson Hw	Dearborn Av	Hespeler Av	Regional	P1	0.52
* Henderson Hw	Kimberly Av	Helmsdale Av	Regional	P1	0.31
* Henderson Hw	Larsen Av	Bowman Av	Regional	P1	0.24
* Henderson Hw	Trent Av	Neil Pl	Regional	P1	0.25
* Henderson Hw	Leighton Av	Mossdale Av	Regional	P1	0.22
* Henderson Hw	Hazel Dell Av	Linden Av	Regional	P1	0.25
* Henderson Hw	Mckay Av	Slater Av	Regional	P1	0.27
* Henderson Hw	Hawthorne Av	Kingsford Av	Regional	P1	0.22
* Henderson Hw	Grandview St	Kingsford Av	Regional	P1	0.11
* Henderson Hw	Kingsford Av	Hawthorne Av	Regional	P1	0.23
* Henderson Hw	Mckay Av	Irving Pl	Regional	P1	0.19
* Henderson Hw	Fortier Av	Gilmore Av	Regional	P1	0.33

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* Henderson Hw	Munroe Av	Donalda Av		P1	0.33
* Henderson Hw	Stuart Av	Gilmore Av		P1	0.16
* Henderson Hw	Irving Pl	Mckay Av		P1	0.19
* Henderson Hw	Jamison Av	Washington Av		P1	0.24
* Henderson Hw	Henderson Hw	Henderson Hw		P1	0.03
* Henderson Hw	Henderson Hw	Chief Peguis Tl		P1	0.17
* Henderson Hw	Henderson Hw	Henderson Hw		P1	0.03
* Henderson Hw	Henderson Hw	Glenway Av		P1	0.12
* Henderson Hw	Hawthorne Av	Cheriton Av		P1	0.28
* Henderson Hw	Sydney Av	Neil Av		P1	0.31
* Henderson Hw	Carmen Av	Martin Av W		P1	0.36
* Henderson Hw	Mcleod Av	Oakland Av		P1	0.24
* Henderson Hw	Poplar Av	Hart Av		P1	0.13
* Henderson Hw	Slater Av	Mckay Av		P1	0.27
* Henderson Hw	Greene Av	Linden Av		P1	0.24
* Henderson Hw	Rowandale Av	Frasers Gr		P1	0.62
* Henderson Hw	Whellams Ln	Chief Peguis Tl		P1	0.61
* Henderson Hw	Slater Av	Springfield Rd		P1	0.30
* Henderson Hw	Frasers Gr	Rowandale Av		P1	0.62
* Henderson Hw	Trent Av	Donalda Av		P1	0.28
* Henderson Hw	Munroe Av	Winterton Av		P1	0.25
* Henderson Hw	Riverton Av	Disraeli Bridge		P1	0.11
* Henderson Hw	Harbison Av W	Martin Av W		P1	0.28
* Henderson Hw	Bredin Dr	Roosevelt Pl		P1	0.29
* Henderson Hw	Melbourne Av	Chelsea Av		P1	0.29
* Henderson Hw	Ottawa Av	Bredin Dr		P1	0.20
* Henderson Hw	Edison Av	Irving Pl		P1	0.16
* Henderson Hw	Disraeli Bridge NB to Talbot Av	Mighton Av		P1	0.39
* Henderson Hw	Frasers Gr	Mossdale Av		P1	0.90
* Henderson Hw	Mossdale Av	Frasers Gr		P1	0.91
* Henderson Hw	Bronx Pl	Bronx Av		P1	0.05
* Henderson Hw	Chief Peguis Tl	Douglas Av		P1	0.46

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* Henderson Hw	Chief Peguis Tl	Chief Peguis Tl		P1	0.04
* Henderson Hw	Mclvor Av	Henderson Hw		P1	0.70
* Henderson Hw	Springfield Rd	Salter Av		P1	0.30
* Henderson Hw	Oakview Av	Hazel Dell Av		P1	0.24
* Henderson Hw	Ottawa Av	Bredin Dr		P1	0.20
* Henderson Hw	Henderson Hw	Chief Peguis Tl		P1	0.63
* Hespeler Av	Henderson Hw	Henderson Hw		P1	0.03
* Hespeler Av	Beatrice St	Henderson Hw		P1	1.60
* Hespeler Av	Silvia St	Glenwood Cr		P1	0.75
* Hespeler Av	Redwood Bridge	Glenwood Cr		P1	0.09
* Hespeler Av	Beatrice St	Silvia St		P1	0.39
Irving Pl	Henderson Hw	Henderson Hw		P1	0.03
Jamison Av	Henderson Hw	Henderson Hw		P1	0.03
* Johnson Av W	Henderson Hw	Henderson Hw		P1	0.03
* Johnson Av W	Levis St	Roch St		P1	0.93
* Johnson Av W	Brazier St	Roch St		P1	1.28
* Johnson Av W	Brazier St	Henderson Hw		P1	1.04
Kildonan Dr	Henderson Hw	Henderson Hw		P1	0.03
Kimberly Av	Henderson Hw	Henderson Hw		P1	0.03
Kingsford Av	Henderson Hw	Henderson Hw		P1	0.03
Lagimodiere Bv	Lagimodiere Bv	Chief Peguis Tl		P1	0.31
Larsen Av	Henderson Hw	Henderson Hw		P1	0.03
Leighton Av	Henderson Hw	Henderson Hw		P1	0.03
* Levis St	Johnson Av W	Watt St		P1	0.21
Lily St	Disraeli Fw	Disraeli Fw		P1	0.05
Linden Av	Henderson Hw	Henderson Hw		P1	0.03
Logan Av	Logan Av	Disraeli Fwy		P1	0.03
McKay Av	Henderson Hw	Henderson Hw		P1	0.03
McLeod Av	Henderson Hw	Henderson Hw		P1	0.03
Melbourne Av	Henderson Hw	Henderson Hw		P1	0.03
Mossdale Av	Henderson Hw	Henderson Hw		P1	0.03
Munroe Av	Henderson Hw	Henderson Hw		P1	0.03

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Nairn Av	Grey St	Watt St		P1	0.02
Nairn Av	Watt St	Watt St		P1	0.02
Neil Av	Henderson Hw	Henderson Hw		P1	0.03
Neil Pl	Henderson Hw	Henderson Hw		P1	0.03
Noble Av	Henderson Hw	Henderson Hw		P1	0.03
Oakland Av	Henderson Hw	Henderson Hw		P1	0.03
Oakview Av	Henderson Hw	Henderson Hw		P1	0.03
Ottawa Av	Henderson Hw	Henderson Hw		P1	0.03
Poplar Av	Henderson Hw	Henderson Hw		P1	0.03
Roberta Av	Henderson Hw	Henderson Hw		P1	0.03
Slater Av	Henderson Hw	Henderson Hw		P1	0.03
Springfield Rd	Henderson Hw	Henderson Hw		P1	0.03
Sutton Av	Henderson Hw	Henderson Hw		P1	0.03
Sydney Av	Henderson Hw	Henderson Hw		P1	0.03
Talbot Av	Brazier St	Brazier St		P1	0.00
Trent Av	Henderson Hw	Henderson Hw		P1	0.03
* Watt St	Talbot Av	William Newton Av		P1	0.42
* Watt St	Martin Av W	Union Av W		P1	0.29
* Watt St	Golspie St	Ottawa Av		P1	0.07
* Watt St	Golspie St	Winterton Av		P1	0.13
* Watt St	Ottawa Av	Washington Av		P1	0.32
* Watt St	Winterton Av	Munroe Av		P1	0.17
* Watt St	Thames Av	Tweed Av		P1	0.35
* Watt St	Bowman Av	Jamison Av		P1	0.33
* Watt St	Bowman Av	Larsen Av		P1	0.32
* Watt St	Nairn Av	Desalaberry Av		P1	0.17
* Watt St	William Newton Av	Nairn Av		P1	0.17
* Watt St	Nairn Av	Nairn Av		P1	0.02
* Watt St	Chalmers Av	Thames Av		P1	1.02
* Watt St	Chalmers Av	Union Av W		P1	0.32
* Watt St	Chalmers Av	Chalmers Av		P1	0.10
* Watt St	Riverton Av	Tweed Av		P1	0.35

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* Watt St	Harbison Av W	Martin Av W		P1	0.29
* Watt St	Jamison Av	Washington Av		P1	0.32
* Watt St	William Newton Av	Watt St		P1	0.02
* Watt St	Desalaberry Av	Nairn Av		P1	0.17
* Watt St	Riverton Av	Talbot Av		P1	0.41
* Watt St	Harbison Av W	Larsen Av		P1	0.31
* Watt St	Nairn Av	Nairn Av		P1	0.02
* Watt St	Nairn Av	William Newton Av		P1	0.17
Whellams Ln	Henderson Hw	Henderson Hw		P1	0.03
William Newton Av	Watt St	Watt St		P1	0.01
Winterton Av	Henderson Hw	Henderson Hw		P1	0.03
TOTAL					89.52

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

APPENDIX B - EAST AREA (NORTH) PRIORITY II STREETS

STREET NAME	FROM STREET	TO STREET	SNOW ROUTE	PRIORITY	LANE KM
Alberhill Cr	Sun Valley Dr	Sun Valley Dr	Collector	P2	0.02
Antrim Rd	Molson St	Avaco Dr	Collector	P2	0.14
Antrim Rd	Sawchuk By	Reay Cr	Collector	P2	0.28
Antrim Rd	Flett Av	Sawchuk By	Collector	P2	0.24
Antrim Rd	Avaco Dr	Merrill Cr	Collector	P2	0.16
Antrim Rd	Avaco Dr	Henrietta St	Collector	P2	0.16
Antrim Rd	Henrietta St	Merrill Cr	Collector	P2	0.39
Antrim Rd	Hobbs Cr	Menno By	Collector	P2	0.25
Antrim Rd	Reay Cr	Norilyn By	Collector	P2	0.54
Antrim Rd	Antrim Rd	Molson St	Collector	P2	0.03
Antrim Rd	Flett Av	London St	Collector	P2	0.17
Antrim Rd	Avaco Dr	Louelda St	Collector	P2	0.16
Antrim Rd	Louelda St	Norilyn By	Collector	P2	0.16
Antrim Rd	Dampsy Cr	Rockspur St	Collector	P2	0.17
Antrim Rd	Gateway Rd	Hobbs Cr	Collector	P2	0.20
Antrim Rd	London St	Menno By	Collector	P2	0.17
Bonner Av	Bunns Gr	Rothesay St	Collector	P2	0.20
Bonner Av	Brahms By	Stoneham Cr	Collector	P2	0.67
Bonner Av	Brahms By	Pennefather St	Collector	P2	0.14
Bonner Av	Pennefather By	Pennefather St	Collector	P2	0.23
Bonner Av	Raleigh St	Gateway Rd	Collector	P2	0.10
Bonner Av	Jodonndra By	Pennefather By	Collector	P2	0.16
Bonner Av	Jodonndra By	Jodonndra By	Collector	P2	0.23
Bonner Av	Jodonndra By	Wiebes Dr	Collector	P2	0.72
Bonner Av	Raleigh St	Wiebes Dr	Collector	P2	0.13
Bonner Av	Henderson Hw	Rothesay St	Collector	P2	1.27
Bonner Av	Gateway Rd	De Vries Av	Collector	P2	2.08
Bonner Av	Stoneham Cr	Bunns Gr	Collector	P2	0.24

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Brazier St	Helmsdale Av	Kimberly Av	Collector	P2	0.21
Brazier St	Pleasant By	Maxwell Pl	Collector	P2	0.01
Brazier St	Pleasant By	McLeod Av	Collector	P2	0.24
Brazier St	Dunrobin Av	Oakview Av	Collector	P2	0.16
Brazier St	Hazel Dell Av	Oakview Av	Collector	P2	0.16
Brazier St	Colvin Av	Dunbeath Av	Collector	P2	0.19
Brazier St	Linden Av	Greene Av	Collector	P2	0.16
Brazier St	Greene Av	Roberta Av	Collector	P2	0.16
Brazier St	Fearn Av	Dunbeath Av	Collector	P2	0.20
Brazier St	Dunrobin Av	Helmsdale Av	Collector	P2	0.21
Brazier St	Leighton Av	Roberta Av	Collector	P2	0.16
Brazier St	Maxwell Pl	Pleasant By	Collector	P2	0.14
Brazier St	Colvin Av	Pleasant By	Collector	P2	0.17
Brazier St	Hazel Dell Av	Linden Av	Collector	P2	0.17
Brazier St	Fearn Av	Leighton Av	Collector	P2	0.18
Brunswick St	Burnett Av	Red Oak Dr	Collector	P2	0.18
Brunswick St	Burnett Av	End	Collector	P2	0.15
Brunswick St	McLeod Av	Furniture Pk	Collector	P2	0.55
Brunswick St	Furniture Pk	Red Oak Dr	Collector	P2	0.20
Burnett Av	Brunswick St	Gateway Rd	Collector	P2	1.21
De Vries Av	Mcivor Av	Ragsdill Rd	Collector	P2	0.59
De Vries Av	Sun Valley Dr	Sun Valley Dr	Collector	P2	0.03
De Vries Av	Springfield Rd	Sun Valley Dr	Collector	P2	0.67
De Vries Av	St Moritz Rd	Sun Valley Dr	Collector	P2	1.02
Donwood Dr	Callum Cr	Raleigh St	Collector	P2	0.13
Donwood Dr	Elaine Pl	Roselawn By	Collector	P2	0.17
Donwood Dr	Pinecrest By	Pinecrest By	Collector	P2	0.24
Donwood Dr	Mattinee By	Reinhard Pl	Collector	P2	0.17
Donwood Dr	Edelweiss Cr	Callum Cr	Collector	P2	0.18
Donwood Dr	Pinecrest By	Rothesay St	Collector	P2	0.20
Donwood Dr	Roselawn By	Rothesay St	Collector	P2	0.20
Donwood Dr	Karen St	Claudia Pl	Collector	P2	0.17

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Donwood Dr	Bret By	Bret By	Collector	P2	0.30
Donwood Dr	Quiring By	Quiring By	Collector	P2	0.17
Donwood Dr	Edelweiss Cr	Edelweiss Cr	Collector	P2	0.36
Donwood Dr	Brian St	Mattinee By	Collector	P2	0.17
Donwood Dr	Claudia Pl	Roselawn By	Collector	P2	0.23
Donwood Dr	Sutton Av	Pinecrest By	Collector	P2	1.40
Donwood Dr	Edelweiss Cr	Quiring By	Collector	P2	0.17
Edison Av	Broad By	Macaulay Cr	Collector	P2	0.47
Edison Av	Roch St	Rothestay St	Collector	P2	0.74
Edison Av	Roch St	Henderson Hw	Collector	P2	0.89
Edison Av	Macaulay Pl	De Fehr St	Collector	P2	0.33
Edison Av	Macaulay Cr	Broad By	Collector	P2	0.15
Edison Av	Raleigh St	Ian Pl	Collector	P2	0.12
Edison Av	Macaulay Pl	Macaulay Cr	Collector	P2	0.15
Edison Av	Broad By	Broad By	Collector	P2	0.15
Edison Av	De Fehr St	Rothestay St	Collector	P2	0.34
Edison Av	De Graff Pl	Ian Pl	Collector	P2	0.45
Emerson Av	Henderson Hw	Daman St	Collector	P2	0.45
Emerson Av	Daman St	Rothestay St	Collector	P2	0.74
Emerson Av	Dundoon St	Hanson St	Collector	P2	0.74
Emerson Av	Hanson St	Rothestay St	Collector	P2	0.74
Emerson Av	Monson St	Raleigh St	Collector	P2	0.57
Emerson Av	Dundoon St	Monson St	Collector	P2	0.74
Gateway Rd	Headmaster Rw	Bonner Av	Collector	P2	0.34
Gateway Rd	Bonner Av	Ragsdill Rd	Collector	P2	0.73
Gateway Rd	Mcivor Av	Sun Valley Dr	Collector	P2	0.66
Gateway Rd	Knowles Av	Headmaster Rw	Collector	P2	0.34
Gateway Rd	Mcivor Av	Sun Valley Dr	Collector	P2	0.02
Gateway Rd	Mcivor Av	Ragsdill Rd	Collector	P2	0.25
Gateway Rd	Chief Peguis Tl	Gateway Rd	Collector	P2	0.58
Gateway Rd	Gateway Rd	Chief Peguis Tl	Collector	P2	0.14
Gateway Rd	Sun Valley Dr	Jim Smith Dr	Collector	P2	0.58

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Gilmore Av	Kellas St	Tranquility Cv	Collector	P2	0.14
Gilmore Av	Serenity Cv	Serenity Cv	Collector	P2	0.16
Gilmore Av	Pentland St	Summerfield Wy	Collector	P2	0.24
Gilmore Av	Summerfield Wy	Kellas St	Collector	P2	0.17
Gilmore Av	Tranquility Cv	Summerfield Wy	Collector	P2	0.16
Gilmore Av	Evenlea Wk	Greenlea Cv	Collector	P2	0.12
Gilmore Av	Greenlea Cv	Mellowmead Cv	Collector	P2	0.04
Gilmore Av	Melonlea Cv	Melonlea Cv	Collector	P2	0.16
Gilmore Av	Evenlea Wk	Greenlea Cv	Collector	P2	0.14
Gilmore Av	Melonlea Cv	Serenity Cv	Collector	P2	0.16
Gilmore Av	Chornick Dr	Mellowmead Cv	Collector	P2	0.12
Gilmore Av	Malcana St	Serenity Cv	Collector	P2	0.16
Gilmore Av	Malcana St	Raleigh St	Collector	P2	0.12
Gilmore Av	Cranlea Pa	Springlea Pa	Collector	P2	0.17
Gilmore Av	Chornick Dr	Mellowmead Cv	Collector	P2	0.04
Gilmore Av	Greenlea Cv	Cranlea Pa	Collector	P2	0.16
Gilmore Av	Mellowmead Cv	Melonlea Cv	Collector	P2	0.16
Gilmore Av	Brunlea Ky	Evenlea Wk	Collector	P2	0.16
Gilmore Av	Hooper Pl	Pentland St	Collector	P2	0.23
Gilmore Av	Reichert St	Hooper Pl	Collector	P2	0.23
Gilmore Av	Autumnlea Pa	Marcie St	Collector	P2	0.01
Gilmore Av	Heidelberg By	Marcie St	Collector	P2	0.21
Gilmore Av	Heidelberg By	Rothesay St	Collector	P2	0.13
Gilmore Av	Evenlea Wk	Springlea Pa	Collector	P2	0.00
Gilmore Av	Reichert St	Henderson Hw	Collector	P2	0.23
Gilmore Av	Autumnlea Pa	Brunlea Ky	Collector	P2	0.17
Gilmore Av	Rothesay St	Summerfield Wy	Collector	P2	0.18
Golden Eagle Dr	Eaglemere Dr	Routly Rd	Collector	P2	0.16
Golden Eagle Dr	Molson St	Eaglemere Dr	Collector	P2	0.31
Golspie St	Hazel Dell Av	Oakview Av	Collector	P2	0.16
Golspie St	Hazel Dell Av	Linden Av	Collector	P2	0.17
Golspie St	Dunrobin Av	Oakview Av	Collector	P2	0.16

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Golspie St	Kimberly Av	Helmsdale Av	Collector	P2	0.21
Golspie St	Dunrobin Av	Helmsdale Av	Collector	P2	0.21
Golspie St	Robertta Av	Greene Av	Collector	P2	0.16
Golspie St	Greene Av	Linden Av	Collector	P2	0.16
Grassie Bv	Grassie Bv	Lagimodiere Bv	Collector	P2	0.16
Grassie Bv	McLeod Av	Molson St	Collector	P2	0.48
Grassie Bv	Lagimodiere Bv	Molson St	Collector	P2	0.71
Headmaster Rw	Headmaster Rw	Lagimodiere Bv	Collector	P2	0.07
Headmaster Rw	Gateway Rd	Desert Park Cv	Collector	P2	0.12
Headmaster Rw	Pennefather St	Mildred St	Collector	P2	0.17
Headmaster Rw	Donald Mcclintock By	Keith Black By	Collector	P2	0.17
Headmaster Rw	Charles Hawkins By	Douglas Lawrence By	Collector	P2	0.19
Headmaster Rw	Leatherwood Cr	Dagleish By	Collector	P2	0.16
Headmaster Rw	Peters By	Principal By	Collector	P2	0.16
Headmaster Rw	Peters By	Leatherwood Cr	Collector	P2	0.17
Headmaster Rw	Wilfred Knowles By	Charles Hawkins By	Collector	P2	0.17
Headmaster Rw	Gateway Rd	Raleigh St	Collector	P2	0.10
Headmaster Rw	Donald Mcclintock By	Principal By	Collector	P2	0.17
Headmaster Rw	Bunns Gr	Wilfred Knowles By	Collector	P2	0.17
Headmaster Rw	Matthew By	Leatherwood Cr	Collector	P2	0.16
Headmaster Rw	William Dixon By	Douglas Lawrence By	Collector	P2	0.17
Headmaster Rw	Dagleish By	Leatherwood Cv	Collector	P2	0.24
Headmaster Rw	Leatherwood Cr	Raleigh St	Collector	P2	0.11
Headmaster Rw	Mildred St	William Dixon By	Collector	P2	0.18
Headmaster Rw	Pennefather St	Keith Black By	Collector	P2	0.19
Headmaster Rw	Headmaster Rw	End	Collector	P2	0.51
Headmaster Rw	Sunny Morning Rd	Mitchelson Wy	Collector	P2	0.18
Headmaster Rw	Headmaster Rw	End	Collector	P2	0.38
Headmaster Rw	Desert Park Cv	Miramonte Cv	Collector	P2	0.19
Headmaster Rw	Miramonte Cv	Tamarisk Cv	Collector	P2	0.22
Headmaster Rw	Vintage Hills Ct	Sunny Morning Rd	Collector	P2	0.34
Headmaster Rw	Sunkist Cv	Cindy Klassen Wy	Collector	P2	0.33

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Headmaster Rw	Mitchelson Wy	Sunkist Cv	Collector	P2	0.19
Headmaster Rw	Rothestay St	Bunns Gr	Collector	P2	0.20
Knowles Av	Daman St	Rothestay St	Collector	P2	0.74
Knowles Av	Mildred St	Dundoon St	Collector	P2	0.41
Knowles Av	Monson St	Raleigh St	Collector	P2	0.56
Knowles Av	Hanson St	Rothestay St	Collector	P2	0.74
Knowles Av	Dundoon St	Peters St	Collector	P2	0.44
Knowles Av	Monson St	Peters St	Collector	P2	0.30
Knowles Av	Daman St	Henderson Hw	Collector	P2	0.48
Knowles Av	Raleigh St	Gateway Rd	Collector	P2	0.10
Knowles Av	Mildred St	Regula Pl	Collector	P2	0.18
Knowles Av	Hanson St	Regula Pl	Collector	P2	0.14
Lagimodiere Bv	Lagimodiere Bv	Headmaster Rw	Collector	P2	0.08
Leighton Av	Watt St	Roch St	Collector	P2	0.74
Leighton Av	Brazier St	Roch St	Collector	P2	0.59
Leighton Av	Brazier St	Henderson Hw	Collector	P2	0.60
Leighton Av	Kildonan Dr	Kildonan Dr	Collector	P2	0.00
Leighton Av	Kildonan Dr	Woodvale St	Collector	P2	0.65
Leighton Av	Kildonan Dr	Kildonan Dr	Collector	P2	0.01
Leighton Av	Henderson Hw	Woodvale St	Collector	P2	0.75
London St	Antrim Rd	Hobbs Cr	Collector	P2	0.36
London St	Bayne Cr	Tu Pelo Av	Collector	P2	0.32
London St	Amelia Cr	Mcleod Av	Collector	P2	0.24
London St	Pekary Pl	Walter Copp Cr	Collector	P2	0.19
London St	Hobbs Cr	Reay Cr	Collector	P2	0.38
London St	Antrim Rd	Blantyre Av	Collector	P2	0.53
London St	Tu Pelo Av	Pekary Pl	Collector	P2	0.19
London St	Blantyre Av	Kimberly Av	Collector	P2	0.22
London St	Bayne Cr	Amelia Cr	Collector	P2	0.18
London St	Reay Cr	Walter Copp Cr	Collector	P2	0.18
Louelda St	Tomlinson Av	Meighen By	Collector	P2	0.34
Louelda St	Antrim Rd	Tomlinson Av	Collector	P2	0.16

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Louelda St	Treger By	Green Valley By	Collector	P2	0.20
Louelda St	Stacey By	Stacey By	Collector	P2	0.16
Louelda St	McLeod Av	Werrell Cr	Collector	P2	0.17
Louelda St	Green Valley By	Kimberly Av	Collector	P2	0.22
Louelda St	Stacey By	Werrell Cr	Collector	P2	0.16
Louelda St	Meighen By	Meighen By	Collector	P2	0.15
Louelda St	Tu Pelo Av	Meighen By	Collector	P2	0.17
Louelda St	Siddall Cr	Tu Pelo Av	Collector	P2	0.16
Louelda St	Siddall Cr	Stacey By	Collector	P2	0.16
Louelda St	Antrim Rd	Green Valley By	Collector	P2	0.49
Mclvor Av	Mornefortune Cr	Winmart CV	Collector	P2	0.18
Mclvor Av	Edkar Cr	Reiny Dr	Collector	P2	0.16
Mclvor Av	Chornick Dr	Bunn's Creek Park Access	Collector	P2	0.17
Mclvor Av	Clearview Dr	Gateway Rd	Collector	P2	0.80
Mclvor Av	Pentland St	Winmart CV	Collector	P2	0.16
Mclvor Av	Cranlea Pa	Bunn's Creek Park Access	Collector	P2	0.29
Mclvor Av	Mornefortune Cr	Rothsay St	Collector	P2	0.39
Mclvor Av	Placid Cv	Ranch Rd	Collector	P2	0.13
Mclvor Av	Ranch Rd	Ranch Rd	Collector	P2	0.16
Mclvor Av	Ranch Rd	Rothsay St	Collector	P2	0.19
Mclvor Av	Raleigh St	Gateway Rd	Collector	P2	0.10
Mclvor Av	De Vries Av	Lagimodiere Bv	Collector	P2	0.09
Mclvor Av	Uxbridge Rd S	Fair Pl	Collector	P2	0.27
Mclvor Av	Placid Cv	Parkway Pl	Collector	P2	0.45
Mclvor Av	Strongberg Dr	De Vries Av	Collector	P2	0.12
Mclvor Av	Fair Pl	Raleigh St	Collector	P2	0.49
Mclvor Av	Henderson Hw	Mclvor Av	Collector	P2	0.17
Mclvor Av	Clearview Dr	Strongberg Dr	Collector	P2	1.35
Mclvor Av	Edkar Cr	Henderson Hw	Collector	P2	0.26
Mclvor Av	Radium Cv	Chornick Dr	Collector	P2	0.47
Mclvor Av	Reiny Dr	Pentland St	Collector	P2	0.19
McLeod Av	Dounreay By	Kinbrace By	Collector	P2	0.19

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McLeod Av	Roch St	Melness By	Collector	P2	0.74
McLeod Av	Brazier St	Henderson Hw	Collector	P2	0.34
McLeod Av	Brunswick St	London St	Collector	P2	0.27
McLeod Av	Brazier St	Roch St	Collector	P2	0.59
McLeod Av	Gateway Rd	London St	Collector	P2	1.14
McLeod Av	Dounreay By	Golspie St	Collector	P2	0.19
McLeod Av	Durness By	Tain By	Collector	P2	0.37
McLeod Av	Rothesay St	Tain By	Collector	P2	0.01
McLeod Av	Brunswick St	Louelda St	Collector	P2	0.46
McLeod Av	Gateway Rd	Raleigh St	Collector	P2	0.10
McLeod Av	Cameo Cr	Raleigh St	Collector	P2	0.30
McLeod Av	Dundoon St	Lerwick By	Collector	P2	0.16
McLeod Av	Cameo Cr	Dundoon St	Collector	P2	0.13
McLeod Av	Kinbrace By	Lerwick By	Collector	P2	0.19
McLeod Av	Grassie Bv	Sorley St	Collector	P2	0.25
McLeod Av	Sorley St	Stefanie Dr	Collector	P2	0.19
McLeod Av	Golspie St	Halkirk By	Collector	P2	0.02
McLeod Av	Louelda St	Stefanie Dr	Collector	P2	0.15
McLeod Av	Melness By	Tain By	Collector	P2	0.19
McLeod Av	Durness By	Golspie St	Collector	P2	0.17
Molson St	Molson St Crossing of Cordite	Springfield Rd	Collector	P2	0.57
Molson St	Kimberly Av	Snowdon Av	Collector	P2	0.19
Molson St	Aluthra Pl	Tu Pelo Av	Collector	P2	0.49
Molson St	Golden Eagle Dr	Grassie Bv	Collector	P2	0.54
Molson St	Antrim Rd	Snowdon Av	Collector	P2	0.69
Molson St	Timberline Dr	Antrim Rd	Collector	P2	0.02
Molson St	Red Oak Dr	Mcleod Av	Collector	P2	0.32
Molson St	Grassie Bv	Mcleod Av	Collector	P2	0.19
Molson St	Aluthra Pl	Aluthra Pl	Collector	P2	0.04
Molson St	Aluthra Pl	Timberline Dr	Collector	P2	0.38
Molson St	Red Oak Dr	Molson St Crossing of Cordite	Collector	P2	0.59
Ragsdill Rd	Allan Rouse Cv	Drobot Pl	Collector	P2	0.24

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Ragsdill Rd	Drobot Pl	Green Meadows Av	Collector	P2	0.17
Ragsdill Rd	Middlehurst Cr	Middlehurst Cr	Collector	P2	0.22
Ragsdill Rd	Middlehurst Cr	John Huyda Dr	Collector	P2	0.17
Ragsdill Rd	Middlehurst Cr	Strongberg Dr	Collector	P2	0.17
Ragsdill Rd	Clearview Dr	East Springs Cv	Collector	P2	0.13
Ragsdill Rd	West Springs Cv	Gateway Rd	Collector	P2	0.54
Ragsdill Rd	West Springs Cv	Gateway Rd	Collector	P2	0.24
Ragsdill Rd	Drobot Pl	De Vries Av	Collector	P2	0.13
Ragsdill Rd	Allan Rouse Cv	Drobot Pl	Collector	P2	0.02
Ragsdill Rd	Alfred Penner By	Strongberg Dr	Collector	P2	0.16
Ragsdill Rd	Alfred Penner By	East Springs Cv	Collector	P2	0.12
Raleigh St	Bonner Av	Ragsdill Rd	Collector	P2	0.82
Raleigh St	Helmsdale Av	Kimberly Av	Collector	P2	0.22
Raleigh St	Donwood Dr	Springfield Rd	Collector	P2	0.63
Raleigh St	Greene Av	Linden Av	Collector	P2	0.17
Raleigh St	Cameo Cr	Mcleod Av	Collector	P2	0.68
Raleigh St	Headmaster Rw	Knowles Av	Collector	P2	0.34
Raleigh St	Dunrobin Av	Linden Av	Collector	P2	0.50
Raleigh St	Eade Cr	Edison Av	Collector	P2	0.46
Raleigh St	Greene Av	Roberta Av	Collector	P2	0.17
Raleigh St	Cameo Cr	Roberta Av	Collector	P2	0.64
Raleigh St	Dunrobin Av	Helmsdale Av	Collector	P2	0.21
Raleigh St	Mcleod Av	Oakland Av	Collector	P2	0.17
Raleigh St	Algonquin Av	Mcivor Av	Collector	P2	0.16
Raleigh St	Eade Cr	Springfield Rd	Collector	P2	0.22
Raleigh St	Emerson Av	Knowles Av	Collector	P2	0.19
Raleigh St	Raleigh St	Raleigh St	Collector	P2	0.13
Raleigh St	Emerson Av	Glenway Av	Collector	P2	0.19
Raleigh St	Edison Av	Oakland Av	Collector	P2	0.97
Raleigh St	Gilmore Av	Mclvor Av	Collector	P2	0.71
Raleigh St	Bonner Av	Headmaster Rw	Collector	P2	0.34
Red Oak Dr	Brunswick St	Kirlystone Wy	Collector	P2	0.19

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Red Oak Dr	Kirlystone Wy	Mahonee Dr	Collector	P2	0.17
Red Oak Dr	Tara Lee Cv	Molson St	Collector	P2	0.26
Red Oak Dr	Stefanie Dr	Kirlystone Wy	Collector	P2	0.48
Red Oak Dr	Stefanie Dr	Thornbury Cr	Collector	P2	0.35
Red Oak Dr	Mahonee Dr	Thornbury Cr	Collector	P2	0.20
Regatta Rd	Sun Valley Dr	Sun Valley Dr	Collector	P2	0.01
Roch St	Cheriton Av	Hawthorne Av	Collector	P2	0.20
Roch St	Cheriton Av	Devon Av	Collector	P2	0.15
Roch St	Hawthorne Av	Kingsford Av	Collector	P2	0.21
Roch St	Mcleod Av	Oakland Av	Collector	P2	0.16
Roch St	Devon Av	Devon Av	Collector	P2	0.05
Roch St	Devon Av	Oakland Av	Collector	P2	0.19
Roch St	Edison Av	Kingsford Av	Collector	P2	0.20
Rothestay St	Mcleod Av	Oakland Av	Collector	P2	0.16
Rothestay St	Diamond St	Foxdale Av	Collector	P2	0.27
Rothestay St	Headmaster Rw	Arbroath Dr	Collector	P2	0.27
Rothestay St	Paufeld Dr	Sutton Av	Collector	P2	0.18
Rothestay St	Headmaster Rw	Knowles Av	Collector	P2	0.24
Rothestay St	Emerson Av	Knowles Av	Collector	P2	0.19
Rothestay St	Hawthorne Av	Kingsford Av	Collector	P2	0.21
Rothestay St	Sharron By	Cheriton Av	Collector	P2	0.11
Rothestay St	Mcivor Av	Diamond St	Collector	P2	0.16
Rothestay St	Devon Av	Oakland Av	Collector	P2	0.19
Rothestay St	Springfield Rd	Sutton Av	Collector	P2	0.17
Rothestay St	Macaulay Cr	Springfield Rd	Collector	P2	0.20
Rothestay St	Mckay Av	Melmar Pl	Collector	P2	0.18
Rothestay St	Edison Av	Mckay Av	Collector	P2	0.23
Rothestay St	Edison Av	Kingsford Av	Collector	P2	0.20
Rothestay St	Devon Av	Cheriton Av	Collector	P2	0.20
Rothestay St	Foxdale Av	Strood Av	Collector	P2	0.18
Rothestay St	Emerson Av	Glenway Av	Collector	P2	0.19
Rothestay St	Arbroath Dr	Bonner Av	Collector	P2	0.16

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Rothestay St	Bonner Av	Strood Av	Collector	P2	0.37
Rothestay St	Sharron By	Hawthorne Av	Collector	P2	0.10
Rothestay St	Gilmore Av	Hathway Rd	Collector	P2	0.66
Rothestay St	Donwood Dr	Paufeld Dr	Collector	P2	0.49
Rothestay St	Hathway Rd	Mcivor Av	Collector	P2	0.30
Rothestay St	Gilmore Av	Donwood Dr	Collector	P2	0.85
Southwell Rd	Sun Valley Dr	Sun Valley Dr	Collector	P2	0.01
Springfield Rd	Karen St	Rothestay St	Collector	P2	0.64
Springfield Rd	Dunits Dr	Gateway Rd	Collector	P2	0.31
Springfield Rd	Edelweiss Cr	Raleigh St	Collector	P2	0.48
Springfield Rd	Brian St	Karen St	Collector	P2	0.51
Springfield Rd	Graduate Pa	Rothestay St	Collector	P2	0.74
Springfield Rd	Graduate Pa	Henderson Hw	Collector	P2	0.86
Springfield Rd	Brian St	Edelweiss Cr	Collector	P2	0.67
Springfield Rd	De Vries Av	Lagimodiere Bv	Collector	P2	0.09
Springfield Rd	Gateway Rd	Raleigh St	Collector	P2	0.10
Sun Valley Dr	High Point Dr	Killington By	Collector	P2	0.17
Sun Valley Dr	Alberhill Cr	De Vries Av	Collector	P2	0.28
Sun Valley Dr	De Vries Av	Alberhill Cr	Collector	P2	0.28
Sun Valley Dr	Arbor Gr	Killington By	Collector	P2	0.17
Sun Valley Dr	Hovingham St	Sunny Hills Rd	Collector	P2	0.45
Sun Valley Dr	High Point Dr	Gateway Rd	Collector	P2	0.26
Sun Valley Dr	Capricorn Pl	Southwell Rd	Collector	P2	0.24
Sun Valley Dr	Sun Valley Dr	Southwell Rd	Collector	P2	0.02
Sun Valley Dr	Southwell Rd	Alberhill Cr	Collector	P2	0.22
Sun Valley Dr	Gateway Rd	Regatta Rd	Collector	P2	0.26
Sun Valley Dr	Alberhill Cr	St Moritz Rd	Collector	P2	0.21
Sun Valley Dr	Clearview Dr	Regatta Rd	Collector	P2	0.17
Sun Valley Dr	Clearview Dr	Killington By	Collector	P2	0.00
Sun Valley Dr	Capricorn Pl	St Moritz Rd	Collector	P2	0.17
Sun Valley Dr	Regatta Rd	Sun Valley Dr	Collector	P2	0.02
Sun Valley Dr	Sunny Hills Rd	Regatta Rd	Collector	P2	0.40

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Sutton Av	Donwood Dr	Henderson Hw	Collector	P2	0.25
Sutton Av	Graduate Pa	Donwood Dr	Collector	P2	0.61
Sutton Av	Graduate Pa	Rothesay St	Collector	P2	0.74
Tu Pelo Av	Rockspur St	Walter Copp Cr	Collector	P2	0.16
Tu Pelo Av	Budden Dr	Jeffrey Cr	Collector	P2	0.21
Tu Pelo Av	London St	Mccreedy Rd	Collector	P2	0.17
Tu Pelo Av	Colley Cr	Rockspur St	Collector	P2	0.24
Tu Pelo Av	Mutchmor Cs	London St	Collector	P2	0.17
Tu Pelo Av	Gateway Rd	Jeffrey Cr	Collector	P2	0.32
Tu Pelo Av	Amelia Cr	Budden Dr	Collector	P2	0.22
Tu Pelo Av	Ravenhill Rd	Siddall Cr	Collector	P2	0.40
Tu Pelo Av	John Taylor Pl	Werrell Cr	Collector	P2	0.17
Tu Pelo Av	Ravenhill Rd	Louelda St	Collector	P2	0.16
Tu Pelo Av	Werrell Cr	Golden Eagle Dr	Collector	P2	0.13
Tu Pelo Av	Amelia Cr	Bayne Cr	Collector	P2	0.16
Tu Pelo Av	Colley Cr	Louelda St	Collector	P2	0.34
Tu Pelo Av	Siddall Cr	John Taylor Pl	Collector	P2	0.19
Tu Pelo Av	Walter Copp Cr	Mccreedy Rd	Collector	P2	0.07
Watt St	Hazel Dell Av	Linden Av	Collector	P2	0.17
Watt St	Dunrobin Av	Helmsdale Av	Collector	P2	0.21
Watt St	Dunrobin Av	Oakview Av	Collector	P2	0.16
Watt St	Greene Av	Linden Av	Collector	P2	0.16
Watt St	Hazel Dell Av	Oakview Av	Collector	P2	0.16
Watt St	Helmsdale Av	Kimberly Av	Collector	P2	0.21
Watt St	Leighton Av	End	Collector	P2	0.09
Watt St	Greene Av	Roberta Av	Collector	P2	0.16
Watt St	Leighton Av	Roberta Av	Collector	P2	0.16
Whellams Ln	Claus By	Claus By	Collector	P2	0.27
Whellams Ln	Claus By	Henderson Hw	Collector	P2	0.25
Whellams Ln	Appleton St	Claus By	Collector	P2	0.16
Whellams Ln	Appleton St	Tamarind Dr	Collector	P2	0.45
Whellams Ln	Tamarind Dr	End	Collector	P2	0.28
TOTAL					109.11

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APPENDIX C – EAST AREA (NORTH) PRIORITY III STREETS

STREET NAME	FROM STREET	TO STREET	SNOW ROUTE	PRIORITY	LANE KM
Alberhill Cr	Alberhill Cr	Jorowski Cv	Local	P3	0.22
Alberhill Cr	Alberhill Cr	Sunrise Cv	Local	P3	0.73
Alberhill Cr	Spring Valley Rd	Alberhill Cr	Local	P3	0.69
Alberhill Cr	Spring Valley Rd	Sunrise Cv	Local	P3	0.14
Alberhill Cr	Jorowski Cv	Sun Valley Dr	Local	P3	0.10
Alfred Penner By	Ragsdill Rd	End	Local	P3	0.07
Algonquin Av	Uxbridge Rd N	Wiebes Dr	Local	P3	0.84
Algonquin Av	Raleigh St	Wiebes Dr	Local	P3	0.13
Allan Rouse Cv	Ragsdill Rd	End	Local	P3	0.25
Aluthra Pl	Molson St	Molson St	Local	P3	0.20
Amelia Cr	London St	Mccreedy Rd	Local	P3	0.17
Amelia Cr	Tu Pelo Av	London St	Local	P3	0.63
Amelia Cr	Mccreedy Rd	Mccreedy Rd	Local	P3	0.54
Antrim Rd	Deering Cs	Molson St	Local	P3	0.12
Antrim Rd	Molson St	Timberline Dr	Local	P3	0.12
Appleton St	Litz Pl	Whellams Ln	Local	P3	0.32
Appleton St	Essar Av	End	Local	P3	0.08
Appleton St	Essar Av	Litz Pl	Local	P3	0.17
Arbor Gr	Clearview Dr	Sun Valley Dr	Local	P3	0.55
Arbroath Dr	Rothesay St	End	Local	P3	0.30
Arby By	Mckay Av	Mckay Av	Local	P3	0.94
Ashley Cv	Mahonee Dr	End	Local	P3	0.27
Aspenwood Pl	Mckay Av	End	Local	P3	0.22
Autumnlea Pa	Gilmore Av	Morningmead Wk	Local	P3	0.18
Autumnlea Pa	Morningmead Wk	Morningmead Wk	Local	P3	0.22
Avaco Dr	Antrim Rd	Henrietta St	Local	P3	0.46
Avaco Dr	Antrim Rd	Treger By	Local	P3	0.51
Avaco Dr	Treger By	Henrietta St	Local	P3	0.32

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Baird Pl	Malcana St	Malcana St	Local	P3	0.11
Banff Pl	Hovingham St	End	Local	P3	0.13
Bardal By	De Graff Pl	De Graff Pl	Local	P3	1.02
Bayne Cr	London St	Tu Pelo Av	Local	P3	0.41
Blantyre Av	Dowhan Cr	Nathan Ln	Local	P3	0.20
Blantyre Av	Dowhan Cr	Gateway Rd	Local	P3	0.21
Blantyre Av	Dowhan Cr	London St	Local	P3	0.19
Blantyre Av	Dowhan Cr	Nathan Ln	Local	P3	0.16
Bodie By	Clearview Dr	End	Local	P3	0.14
Bonnydoon Pl	De Jong Cr	De Jong Cr	Local	P3	0.34
Brahms By	Uxbridge Rd N	Bonner Av	Local	P3	0.90
Brazier St	Mcleod Av	Oakland Av	Local	P3	0.16
Brazier St	Devon Av	Oakland Av	Local	P3	0.25
Brazier St	Cheriton Av	Devon Av	Local	P3	0.16
Bret By	Donwood Dr	Donwood Dr	Local	P3	0.70
Brian St	Paufeld Dr	Donwood Dr	Local	P3	0.46
Brian St	Gemini Av	Paufeld Dr	Local	P3	0.17
Brian St	Springfield Rd	Gemini Av	Local	P3	0.17
Bridgewater Cr	Karen St	Paufeld Dr	Local	P3	0.49
Broad By	Edison Av	Edison Av	Local	P3	0.94
Brunlea Ky	Gilmore Av	End	Local	P3	0.22
Budden Dr	Gateway Rd	Tu Pelo Av	Local	P3	0.85
Bunns Gr	Bonner Av	End	Local	P3	0.16
Bunns Gr	Headmaster Rw	Bonner Av	Local	P3	0.43
Callum Cr	Donwood Dr	Donwood Dr	Local	P3	0.78
Cameo Cr	Kirkwall Cr	Lauder Av	Local	P3	0.36
Cameo Cr	Kirkwall Cr	Mcleod Av	Local	P3	0.18
Cameo Cr	Kirkwall Cr	Lauder Av	Local	P3	0.44
Cameo Cr	Raleigh St	Kirkwall Cr	Local	P3	0.21
Capricorn Pl	Sun Valley Dr	End	Local	P3	0.16
Carrie Cv	Marcie St	End	Local	P3	0.14
Cedarcrest Dr	Mark Pearce Av	Corinne St	Local	P3	0.97

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Charles Hawkins By	Headmaster Rw	End	Local	P3	0.09
Cheriton Av	Roch St	Rothesay St	Local	P3	0.75
Cheriton Av	Brazier St	Henderson Hw	Local	P3	0.32
Cheriton Av	Brazier St	Roch St	Local	P3	0.60
Cheriton Av	Henderson Hw	Kildonan Dr	Local	P3	0.56
Chernichan Dr	Edkar Cr	End	Local	P3	0.38
Chopin Bv	Wiebes Dr	Zeglinski Cr	Local	P3	0.49
Chopin Bv	Zeglinski Cr	Uxbridge Rd N	Local	P3	0.18
Chornick Dr	Continental Av	Gilmore Av	Local	P3	0.17
Chornick Dr	Malcana St	Mcivor Av	Local	P3	0.25
Chornick Dr	Chornick Dr	Chornick Dr	Local	P3	0.17
Chornick Dr	Continental Av	Malcana St	Local	P3	0.38
Cindy Klassen Wy	End	Headmaster Rw	Local	P3	0.25
Cindy Klassen Wy	Headmaster Rw	Knowles Av	Local	P3	0.18
Claudia Pl	Donwood Dr	End	Local	P3	0.12
Claus By	Whellams Ln	Whellams Ln	Local	P3	0.57
Clearview Dr	Arbor Gr	High Point Dr	Local	P3	0.16
Clearview Dr	Arbor Gr	Bodie By	Local	P3	0.00
Clearview Dr	Rushmore Rd	End	Local	P3	0.19
Clearview Dr	Arbor Gr	Sun Valley Dr	Local	P3	0.29
Clearview Dr	Mcivor Av	Ragsdill Rd	Local	P3	0.24
Colley Cr	Mccreedy Rd	Tu Pelo Av	Local	P3	0.52
Colvin Av	Brazier St	Roch St	Local	P3	0.59
Continental Av	Rachel St	Chornick Dr	Local	P3	0.17
Continental Av	Edith By	Rachel St	Local	P3	0.17
Continental Av	Edith By	Maxim By	Local	P3	0.17
Continental Av	Malcana St	Maxim By	Local	P3	0.36
Corinne St	Mark Pearce Av	Cedarcrest Dr	Local	P3	0.17
Corinne St	Oakland Av	Cedarcrest Dr	Local	P3	0.16
Corne St	Slater Av	End	Local	P3	0.17
Cranlea Pa	Mcivor Av	Hathway Rd	Local	P3	0.30
Cranlea Pa	Morningmead Wk	Hathway Rd	Local	P3	0.16

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Cranlea Pa	Gilmore Av	Morningmead Wk	Local	P3	0.35
Crozier Av	Eaglemere Dr	End	Local	P3	0.26
Dalglish By	Headmaster Rw	End	Local	P3	0.17
Daman St	Emerson Av	Glenway Av	Local	P3	0.19
Daman St	Emerson Av	Knowles Av	Local	P3	0.19
Dampsy Cr	Rockspur St	Antrim Rd	Local	P3	0.55
Dan H Young By	Headmaster Rw	End	Local	P3	0.10
De Fehr St	Oakland Av	Rosewell Pl	Local	P3	0.16
De Fehr St	Sharron By	Sharron By	Local	P3S	0.16
De Fehr St	Mark Pearce Av	Rosewell Pl	Local	P3	0.17
De Fehr St	Sharron By	Kingsford Av	Local	P3S	0.16
De Fehr St	Sharron By	Mark Pearce Av	Local	P3	0.17
De Fehr St	Edison Av	Kingsford Av	Local	P3S	0.17
De Graff By	De Graff Pl	De Graff Pl	Local	P3	0.86
De Graff Pl	Bardal By	Bardal By	Local	P3	0.16
De Graff Pl	Ian Pl	Bardal By	Local	P3	0.16
De Graff Pl	Bardal By	Mark Pearce Av	Local	P3	0.16
De Graff Pl	Ian Pl	Edison Av	Local	P3	0.16
De Graff Pl	Vryenhoek Cr	De Graff By	Local	P3	0.26
De Graff Pl	De Graff By	Edison Av	Local	P3	0.17
De Jong Cr	Bonnydoon Pl	Rockspur St	Local	P3	0.17
De Jong Cr	Bonnydoon Pl	Bonnydoon Pl	Local	P3	0.53
De Jong Cr	Bonnydoon Pl	Rockspur St	Local	P3	0.16
De Vries Av	Bonner Av	Knowles Av	Local	P3	0.43
De Vries Av	Bonner Av	Ragsdill Rd	Local	P3	0.39
Deborah Pl	Reiny Dr	End	Local	P3	0.11
Deering Cs	Timberline Dr	End	Local	P3	0.38
Del Rio Pl	Slater Av	End	Local	P3	0.19
Delbrook Cr	Foxdale Av	Foxdale Av	Local	P3	0.89
Desert Park Cv	Headmaster Rw	End	Local	P3	0.23
Devon Av	Brazier St	Henderson Hw	Local	P3	0.33
Devon Av	Roch St	Rothestay St	Local	P3	0.74

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Devon Av	Brazier St	Roch St	Local	P3	0.59
Diamond St	Rothestay St	Strood Av	Local	P3	0.72
Donald Mcclintock By	Headmaster Rw	End	Local	P3	0.09
Douglas Av	Henderson Hw	Pentland St	Local	P3	0.74
Douglas Av	Pentland St	End	Local	P3	0.70
Douglas Lawrence By	Headmaster Rw	End	Local	P3	0.11
Dounreay By	Mcleod Av	End	Local	P3	0.09
Dowhan Cr	Blantyre Av	Nathan Ln	Local	P3	0.35
Dowhan Cr	Blantyre Av	Nathan Ln	Local	P3	0.35
Drobot Pl	Ragsdill Rd	Ragsdill Rd	Local	P3	0.60
Dunbeath Av	Roch St	Brazier St	Local	P3	0.59
Dundoon St	Emerson Av	Knowles Av	Local	P3	0.19
Dundoon St	Emerson Av	Glenway Av	Local	P3	0.19
Dundoon St	Mcleod Av	Oakland Av	Local	P3	0.16
Dunits Dr	Springfield Rd	Dunits Dr	Local	P3	0.11
Dunits Dr	Tanus Dr	Jim Smith Dr	Local	P3	0.28
Dunits Dr	Dunits Dr	Dunits Dr	Local	P3	0.15
Dunits Dr	Tanus Dr	Dunits Dr	Local	P3	0.40
Dunrobin Av	Henderson Hw	Brazier St	Local	P3	0.67
Dunrobin Av	Roch St	Watt St	Local	P3	0.74
Dunrobin Av	Golspie St	Watt St	Local	P3	0.74
Dunrobin Av	Kildonan Dr	Kildonan Dr	Local	P3	0.02
Dunrobin Av	Golspie St	Raleigh St	Local	P3	0.73
Dunrobin Av	Kildonan Dr	Woodvale St	Local	P3	0.35
Dunrobin Av	Brazier St	Roch St	Local	P3	0.59
Dunrobin Av	Henderson Hw	Woodvale St	Local	P3	0.63
Dunvegan St	Moir Av	Mossdale Av	Local	P3	0.18
Dunvegan St	Rossmere Cr	Moir Av	Local	P3	0.18
Durness By	Mcleod Av	End	Local	P3	0.09
Eade Cr	Raleigh St	Vryenhoek Cr	Local	P3	0.11
Eade Cr	Vryenhoek Cr	Vryenhoek Cr	Local	P3	0.66
Eagle Lake Cv	Mitchelson Wy	End	Local	P3	0.15

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Eaglemere Dr	Silver Spring By	Silver Spring By	Local	P3	0.59
Eaglemere Dr	Timberline Dr	Silver Spring By	Local	P3	0.75
Eaglemere Dr	Crozier Av	Silver Spring By	Local	P3	0.17
Eaglemere Dr	Crozier Av	Walter Piper Gr	Local	P3	0.28
Eaglemere Dr	Golden Eagle Dr	Walter Piper Gr	Local	P3	0.26
East Springs Cv	Ragsdill Rd	End	Local	P3	0.33
Eastwood Dr	Henderson Hw	Glenway Av	Local	P3	0.42
Edelweiss Cr	Shelagh Cr	Shelagh Cr	Local	P3	0.46
Edelweiss Cr	Donwood Dr	Shelagh Cr	Local	P3	0.49
Edelweiss Cr	Donwood Dr	Gemini Av	Local	P3	0.54
Edelweiss Cr	Donwood Dr	Shelagh Cr	Local	P3	0.17
Edelweiss Cr	Gemini Av	Springfield Rd	Local	P3	0.17
Edith By	Continental Av	End	Local	P3	0.11
Edkar Cr	Chernichan Dr	Pentland St	Local	P3	0.19
Edkar Cr	Chernichan Dr	Mclvor Av	Local	P3	0.50
Elaine Pl	Donwood Dr	End	Local	P3	0.12
Essar Av	Appleton St	Henderson Hw	Local	P3	0.65
Essar Av	Kildonan Dr	Appleton St	Local	P3	0.73
Euston St	Oakland Av	End	Local	P3	0.17
Evenlea Wk	Gilmore Av	Solace Ky	Local	P3	0.42
Evenlea Wk	Gilmore Av	Solace Ky	Local	P3	0.65
Fair Pl	Mclvor Av	End	Local	P3	0.19
Fearn Av	Brazier St	Roch St	Local	P3	0.59
Flett Av	Antrim Rd	Reay Cr	Local	P3	0.62
Fortier Av	Pentland St	Summerfield Wy	Local	P3	0.24
Fortier Av	Pentland St	Henderson Hw	Local	P3	0.66
Foxdale Av	Delbrook Cr	Delbrook Cr	Local	P3	0.54
Foxdale Av	Delbrook Cr	Rothesay St	Local	P3	0.44
Foxdale Av	Delbrook Cr	End	Local	P3	0.12
Frasers Gr	Woodvale St	Larchdale Cr	Local	P3	0.37
Frasers Gr	Henderson Hw	Larchdale Cr	Local	P3	0.36
Gateway Rd	Knowles Av	End	Local	P3	0.22

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Gemini Av	Paufeld Dr	Brian St	Local	P3	0.50
Gemini Av	Edelweiss Cr	Paufeld Dr	Local	P3	0.17
Gemini Av	Brian St	Paufeld Dr	Local	P3	0.50
Gibson St	Green Valley By	Kimberly Av	Local	P3	0.30
Glencoe Av	Woodvale St	Mossdale Av	Local	P3	0.69
Glenway Av	Henderson Hw	Eastwood Dr	Local	P3	0.21
Golden Eagle Dr	Routly Rd	Golden Eagle Dr	Local	P3	0.86
Golden Eagle Dr	End	Golden Eagle Dr	Local	P3	0.06
Golden Eagle Dr	Golden Eagle Dr	Golden Eagle Dr	Local	P3	0.28
Golden Eagle Dr	Golden Eagle Dr	Golden Eagle Dr	Local	P3	0.28
Golden Eagle Dr	Schmidt St	Kirkland Dr	Local	P3	0.32
Golden Eagle Dr	Golden Eagle Dr	Kirkland Rd	Local	P3	0.22
Golden Eagle Dr	Routly Rd	Schmidt St	Local	P3	0.14
Golspie St	McLeod Av	Oakland Av	Local	P3	0.16
Graduate Pa	Sutton Av	Springfield Rd	Local	P3	0.17
Grandview St	Irving Pl	Henderson Hw	Local	P3	0.54
Grandview St	Irving Pl	End	Local	P3	0.07
Green Meadows Av	Ragsdill Rd	Strongberg Dr	Local	P3	0.34
Green Valley By	Gibson St	Louelda St	Local	P3	0.27
Green Valley By	Gibson St	Louelda St	Local	P3	0.46
Greene Av	Brazier St	Henderson Hw	Local	P3	0.63
Greene Av	Roch St	Watt St	Local	P3	0.74
Greene Av	Golspie St	Raleigh St	Local	P3	0.87
Greene Av	Golspie St	Watt St	Local	P3	0.74
Greene Av	Henderson Hw	Woodvale St	Local	P3S	0.73
Greene Av	Woodvale St	Kildonan Dr	Local	P3	0.59
Greene Av	Kildonan Dr	Kildonan Dr	Local	P3	0.02
Greene Av	Roch St	Brazier St	Local	P3	0.59
Greenlea Cv	Gilmore Av	Gilmore Av	Local	P3	0.58
Halkirk By	McLeod Av	End	Local	P3	0.09
Hanson St	Emerson Av	Knowles Av	Local	P3	0.19
Harewood Cs	Hathway Rd	End	Local	P3	0.10

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Harold Piercy Pl	Jim Smith Dr	End	Local	P3	0.16
Hathway Rd	Harewood Cs	Rothsay St	Local	P3	0.26
Hathway Rd	Cranlea Pa	Huntsman Cl	Local	P3	0.16
Hathway Rd	Harewood Cs	Huntsman Cl	Local	P3	0.46
Hawthorne Av	Roch St	Rothsay St	Local	P3S	0.74
Hawthorne Av	Henderson Hw	Roch St	Local	P3	0.91
Hawthorne Av	Hawthorne Pl	Kildonan Dr	Local	P3	0.30
Hawthorne Av	Hawthorne Pl	Henderson Hw	Local	P3	0.28
Hawthorne Pl	Hawthorne Av	End	Local	P3	0.16
Hazel Dell Av	Henderson Hw	Woodvale St	Local	P3	0.65
Hazel Dell Av	Roch St	Watt St	Local	P3	0.74
Hazel Dell Av	Brazier St	Roch St	Local	P3	0.59
Hazel Dell Av	Kildonan Dr	Woodvale St	Local	P3	0.50
Hazel Dell Av	Golspie St	Watt St	Local	P3	0.74
Hazel Dell Av	Kildonan Dr	Kildonan Dr	Local	P3	0.02
Hazel Dell Av	Brazier St	Henderson Hw	Local	P3	0.65
Headmaster Rw	Dan H Young By	Rothsay St	Local	P3	0.18
Headmaster Rw	Dan H Young By	End	Local	P3	0.06
Heidelberg By	Gilmore Av	End	Local	P3	0.10
Helmsdale Av	Watt St	Roch St	Local	P3	0.74
Helmsdale Av	Kildonan Dr	Kildonan Dr	Local	P3	0.11
Helmsdale Av	Woodvale St	Kildonan Dr	Local	P3	0.16
Helmsdale Av	Henderson Hw	Woodvale St	Local	P3	0.61
Helmsdale Av	Roch St	Brazier St	Local	P3	0.60
Helmsdale Av	Brazier St	Henderson Hw	Local	P3	0.69
Helmsdale Av	Golspie St	Watt St	Local	P3	0.74
Helmsdale Av	Golspie St	Raleigh St	Local	P3	0.69
Henrietta St	Merrill Cr	Avaco Dr	Local	P3	0.16
Henrietta St	Antrim Rd	Merrill Cr	Local	P3	0.16
High Point Dr	Michael Ruta Pl	Regatta Rd	Local	P3	0.24
High Point Dr	Clearview Dr	Michael Ruta Pl	Local	P3	0.72
Hobbs Cr	London St	Marchant Cr	Local	P3	0.21

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Hobbs Cr	Marchant Cr	Antrim Rd	Local	P3	0.19
Hobbs Cr	Marchant Cr	Marchant Cr	Local	P3	0.42
Honeywood St	Claudia Pl	Roselawn By	Local	P3	0.33
Hooper Pl	Gilmore Av	End	Local	P3	0.27
Hovingham St	Rushmore Rd	Thurlby Rd	Local	P3	0.16
Hovingham St	Rushmore Rd	Banff Pl	Local	P3	0.18
Hovingham St	Jasper Pl	Kingsdale Rd	Local	P3	0.20
Huntsman Cl	Hathway Rd	End	Local	P3	0.10
Ian Pl	De Graff Pl	Edison Av	Local	P3	0.60
Irving Pl	Kildonan Dr	Grandview St	Local	P3	0.49
Irving Pl	Grandview St	Grandview St	Local	P3	0.01
Irving Pl	Grandview St	Henderson Hw	Local	P3	0.41
Jack Hawthorn By	Headmaster Rw	End	Local	P3	0.06
Jasper Pl	Banff Pl	End	Local	P3	0.16
Jeffrey Cr	Tu Pelo Av	Gateway Rd	Local	P3	0.55
Jim Smith Dr	Dunits Dr	Harold Piercy Pl	Local	P3	0.65
Jim Smith Dr	Gateway Rd	Robert Cartwright Pl	Local	P3	0.12
Jim Smith Dr	Dunits Dr	End	Local	P3	0.11
Jim Smith Dr	Harold Piercy Pl	Robert Cartwright Pl	Local	P3	0.17
Jodonndra By	Bonner Av	Bonner Av	Local	P3	0.54
John Huyda Dr	Mitchelson Wy	Ragsdill Rd	Local	P3	0.73
John Taylor Pl	Tu Pelo Av	Werrell Cr	Local	P3	0.39
Jorowski Cv	Alberhill Cr	End	Local	P3	0.10
Karen St	Paufeld Dr	Sutton Av	Local	P3	0.17
Karen St	Bridgewater Cr	Donwood Dr	Local	P3	0.30
Karen St	Sutton Av	Springfield Rd	Local	P3	0.17
Karen St	Paufeld Dr	Bridgewater Cr	Local	P3	0.16
Kayhans Dr	Mclvor Av	End	Local	P3	0.37
Keith Black By	Headmaster Rw	End	Local	P3	0.09
Kellas St	Stuart Av	Gilmore Av	Local	P3	0.16
Kildonan Dr	Rowandale Cr	Rowandale Cr	Local	P3	0.21
Kildonan Dr	Cheriton Av	Hawthorne Av	Local	P3	0.24

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Kildonan Dr	Essar Av	End	Local	P3	0.09
Kildonan Dr	Helmsdale Av	Dunrobin Av	Local	P3	0.21
Kildonan Dr	Greene Av	Linden Av	Local	P3	0.17
Kildonan Dr	Linden Av	Greene Av	Local	P3	0.17
Kildonan Dr	Leighton Av	Greene Av	Local	P3	0.33
Kildonan Dr	Leighton Av	Kildonan Dr	Local	P3	0.16
Kildonan Dr	Hazel Dell Av	Oakview Av	Local	P3	0.19
Kildonan Dr	Oakview Av	Hazel Dell Av	Local	P3	0.19
Kildonan Dr	Essar Av	End	Local	P3	0.10
Kildonan Dr	Dunrobin Av	Helmsdale Av	Local	P3	0.22
Kildonan Dr	Greene Av	Leighton Av	Local	P3	0.33
Kildonan Dr	Hazel Dell Av	Linden Av	Local	P3	0.19
Kildonan Dr	Irving Pl	End	Local	P3	0.34
Kildonan Dr	Rossmere Cr	Mosssdale Av	Local	P3	0.52
Kildonan Dr	Rowandale Cr	Willowdale Pl	Local	P3	0.20
Kildonan Dr	Dunrobin Av	Oakview Av	Local	P3	0.17
Kildonan Dr	Hawthorne Av	Irving Pl	Local	P3	0.59
Kildonan Dr	Willowdale Pl	Larchdale Cr	Local	P3	0.19
Kildonan Dr	Linden Av	Hazel Dell Av	Local	P3	0.19
Kildonan Dr	Larchdale Cr	Rowandale Cr	Local	P3	0.21
Kildonan Dr	Mosssdale Av	Leighton Av	Local	P3	0.17
Kildonan Dr	Oakview Av	Dunrobin Av	Local	P3	0.17
Kildonan Dr	Cheriton Av	Larchdale Cr	Local	P3	0.20
Kildonan Dr	Larchdale Cr	End	Local	P3	0.01
Kildonan Dr	Helmsdale Av	Kimberly Av	Local	P3	0.25
Killington By	Arbor Gr	Sun Valley Dr	Local	P3	0.60
Kinbrace By	Mcleod Av	End	Local	P3	0.12
Kingsdale Rd	Hovingham St	Sage Wood Av	Local	P3	0.20
Kingsford Av	Henderson Hw	Roch St	Local	P3	0.90
Kingsford Av	De Fehr St	Rothesay St	Local	P3	0.34
Kingsford Av	Roch St	Rothesay St	Local	P3	0.74
Kingsford Av	De Fehr St	Kingsford Pl	Local	P3	1.07

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Kingsford Pl	Mark Pearce Av	Kingsford Av	Local	P3	0.48
Kirkland Rd	Routly Rd	Golden Eagle Dr	Local	P3	0.23
Kirkwall Cr	Lauder Av	Cameo Cr	Local	P3	0.30
Kirkwall Cr	Lauder Av	Cameo Cr	Local	P3	0.44
Kirlystone Wy	Mahonee Dr	Stefanie Dr	Local	P3	0.98
Kirlystone Wy	Red Oak Dr	Stefanie Dr	Local	P3	0.62
Knowles Av	Sunny Morning Rd	Cindy Klassen Wy	Local	P3	0.70
Knowles Av	Cindy Klassen Wy	De Vries Av	Local	P3	0.42
Knowles Av	Gateway Rd	Popko Cr	Local	P3	0.74
Knowles Av	Popko Cr	Sunny Morning Rd	Local	P3	0.07
Kronstal Pl	Malcana St	Malcana St	Local	P3	0.11
Kullman St	Kimberly Av	Snowdon Av	Local	P3	0.23
Larchdale Cr	Kildonan Dr	Willowdale Pl	Local	P3	0.40
Larchdale Cr	Rowandale Av	Willowdale Pl	Local	P3	0.25
Larchdale Cr	Rowandale Av	Larchdale Cr	Local	P3	0.28
Larchdale Cr	Larchdale Cr	Frasers Gr	Local	P3	0.16
Larchdale Cr	Larchdale Cr	Kildonan Dr	Local	P3	0.64
Lauder Av	Cameo Cr	Kirkwall Cr	Local	P3	0.34
Leatherwood Cr	Headmaster Rw	Headmaster Rw	Local	P3	0.05
Leatherwood Cr	Headmaster Rw	Headmaster Rw	Local	P3	0.21
Leatherwood Cr	Headmaster Rw	Headmaster Rw	Local	P3	0.69
Leatherwood Cv	Headmaster Rw	End	Local	P3	0.26
Lemmen Dr	Ravenhill Rd	Tomlinson Av	Local	P3	0.92
Lerwick By	Mcleod Av	End	Local	P3	0.12
Linden Av	Kildonan Dr	Kildonan Dr	Local	P3	0.01
Linden Av	Golspie St	Raleigh St	Local	P3	0.84
Linden Av	Henderson Hw	Woodvale St	Local	P3	0.67
Linden Av	Golspie St	Watt St	Local	P3	0.74
Linden Av	Brazier St	Roch St	Local	P3	0.59
Linden Av	Henderson Hw	Brazier St	Local	P3	0.64
Linden Av	Roch St	Watt St	Local	P3	0.74
Linden Av	Kildonan Dr	Woodvale St	Local	P3	0.54

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Linden Av	Woodvale St	Woodvale St	Local	P3	0.05
Litz Pl	Appleton St	Henderson Hw	Local	P3	0.66
MacAulay Cr	Edison Av	Macaulay Pl	Local	P3	0.54
MacAulay Cr	MacAulay Pl	Rothsay St	Local	P3	0.67
MacAulay Pl	Edison Av	Macaulay Cr	Local	P3	0.40
Mahonee Dr	Ashley Cv	Stefanie Dr	Local	P3	0.17
Mahonee Dr	Stefanie Dr	Tanya Cr	Local	P3	1.16
Mahonee Dr	Ashley Cv	Tanya Cr	Local	P3	0.37
Mahonee Dr	Kirlystone Wy	Tanya Cr	Local	P3	0.24
Mahonee Dr	Red Oak Dr	Tanya Cr	Local	P3	0.19
Malcana St	Chornick Dr	Rachel St	Local	P3	0.30
Malcana St	Continental Av	Gilmore Av	Local	P3	0.16
Malcana St	Kronstal Pl	Kronstal Pl	Local	P3	0.03
Malcana St	Baird Pl	Kronstal Pl	Local	P3	0.15
Malcana St	Baird Pl	Baird Pl	Local	P3	0.03
Malcana St	Continental Av	Kronstal Pl	Local	P3	0.60
Malcana St	Baird Pl	Rachel St	Local	P3	0.16
Manthorne Av	Wynyard BY	Southwell Rd	Local	P3	0.32
Manthorne Av	Sunny Hills Rd	Wynyard By	Local	P3	0.18
Marchant Cr	Hobbs Cr	Hobbs Cr	Local	P3	0.46
Marcie St	Carrie Cv	Gilmore Av	Local	P3	0.17
Marcie St	Carrie Cv	End	Local	P3	0.23
Mark Pearce Av	De Fehr St	Stalker By	Local	P3	0.17
Mark Pearce Av	Cedarcrest Dr	Kingsford Pl	Local	P3	0.17
Mark Pearce Av	Stalker By	Stalker By	Local	P3	0.41
Mark Pearce Av	Corinne St	Stalker By	Local	P3	0.17
Mark Pearce Av	De Graff Pl	Cedarcrest Dr	Local	P3	0.41
Mark Pearce Av	Corinne St	Kingsford Pl	Local	P3	0.20
Matthew By	Headmaster Rw	End	Local	P3	0.09
Mattinee By	Donwood Dr	Donwood Dr	Local	P3	0.81
Maxim By	Continental Av	End	Local	P3	0.10
Maxwell Pl	Brazier St	End	Local	P3	0.23

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McCreedy Rd	Amelia Cr	Amelia Cr	Local	P3	0.25
McCreedy Rd	Amelia Cr	Colley Cr	Local	P3	0.18
McCreedy Rd	Colley Cr	Tu Pelo Av	Local	P3	0.18
McKay Av	Arby By	Henderson Hw	Local	P3	0.29
McKay Av	Aspenwood Pl	Rothsay St	Local	P3	0.45
McKay Av	Aspenwood Pl	Roch St	Local	P3	0.30
McKay Av	Arby By	Roch St	Local	P3	0.59
McLeod Av	Grassie Bv	Molson St	Local	P3	0.47
McLeod Av	McLeod Av	McLeod Av	Local	P3	0.19
Megan Cv	Thornbury Cr	End	Local	P3	0.20
Meighen By	Louelda St	Louelda St	Local	P3	0.59
Melanie Cv	Stefanie Dr	End	Local	P3	0.19
Mellowmead Cv	Gilmore Av	Gilmore Av	Local	P3	0.64
Melmar Pl	Rothsay St	End	Local	P3	0.23
Melness By	McLeod Av	End	Local	P3	0.09
Melonlea Cv	Gilmore Av	Gilmore Av	Local	P3	0.61
Menno By	Antrim Rd	Antrim Rd	Local	P3	0.58
Merrill Cr	Henrietta St	Antrim Rd	Local	P3	0.53
Michael Ruta Pl	High Point Dr	End	Local	P3	0.10
Middlehurst Cr	Ragsdill Rd	Ragsdill Rd	Local	P3	0.40
Mildred St	Jack Hawthorn By	Knowles Av	Local	P3	0.30
Miramonte Cv	Headmaster Rw	End	Local	P3	0.21
Mitchelson Wy	Bonner Av	Shadow Hills Cv	Local	P3	0.36
Mitchelson Wy	Middlehurst Cr	John Huyda Dr	Local	P3	0.27
Mitchelson Wy	Headmaster Rw	Shadow Hills Cv	Local	P3	0.13
Mitchelson Wy	Mitchelson Wy	Mitchelson Wy	Local	P3	0.09
Mitchelson Wy	Eagle Lake Cv	Bonner Av	Local	P3	0.30
Mitchelson Wy	Shadow Hills Cv	Shadow Hills Cv	Local	P3	0.03
Moir Av	Dunvegan St	Rossmere Cr	Local	P3	0.31
Molson St	End	Molson St	Local	P3	0.10
Monson St	Knowles Av	Emerson Av	Local	P3	0.19
Monson St	Emerson Av	Glenway Av	Local	P3	0.19

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Mornefortune Cr	Mcivor Av	Pentland St	Local	P3	0.63
Morningmead Wk	Cranlea Pa	Springlea Pa	Local	P3	0.17
Morningmead Wk	Autumnlea Pa	Autumnlea Pa	Local	P3	0.55
Morningmead Wk	Autumnlea Pa	Springlea Pa	Local	P3	0.34
Mossdale Av	Glencoe Av	Kildonan Dr	Local	P3	0.21
Mossdale Av	Woodvale St	Woodvale St	Local	P3	0.13
Mossdale Av	Dunvegan St	Woodvale St	Local	P3	0.24
Mossdale Av	Henderson Hw	Rossmere Cr	Local	P3	0.12
Mossdale Av	Glencoe Av	Woodvale St	Local	P3	0.49
Mossdale Av	Dunvegan St	Rossmere Cr	Local	P3	0.26
Mutchmor Cs	Bayne Cr	Tu Pelo Av	Local	P3	0.94
Natalie By	Stuart Av	End	Local	P3	0.09
Nathan Ln	Dowhan Cr	Blantyre Av	Local	P3	0.20
Norilyn By	Antrim Rd	Antrim Rd	Local	P3	0.79
Northcote By	Headmaster Rw	End	Local	P3	0.13
Oakland Av	Henderson Hw	Roman St	Local	P3	0.18
Oakland Av	Roch St	Rothesay St	Local	P3	0.74
Oakland Av	Corinne St	Golspie St	Local	P3	0.34
Oakland Av	Corinne St	Dundoon St	Local	P3	0.40
Oakland Av	De Fehr St	Rothesay St	Local	P3	0.34
Oakland Av	Rowe St	Euston St	Local	P3	0.20
Oakland Av	De Fehr St	Golspie St	Local	P3	0.40
Oakland Av	Rowe St	Roch St	Local	P3	0.20
Oakland Av	Euston St	Brazier St	Local	P3	0.20
Oakland Av	Brazier St	Roman St	Local	P3	0.16
Oakland Av	Raleigh St	Dundoon St	Local	P3	0.47
Oakview Av	Golspie St	Watt St	Local	P3	0.74
Oakview Av	Roch St	Watt St	Local	P3	0.74
Oakview Av	Kildonan Dr	End	Local	P3	0.00
Oakview Av	Kildonan Dr	Kildonan Dr	Local	P3	0.02
Oakview Av	Kildonan Dr	Woodvale St	Local	P3	0.40
Oakview Av	Henderson Hw	Woodvale St	Local	P3	0.64

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Oakview Av	Brazier St	Roch St	Local	P3	0.59
Oakview Av	Henderson Hw	Brazier St	Local	P3	0.66
Parkway Pl	Mclvor Av	End	Local	P3	0.29
Paufeld Dr	Karen St	Rothsay St	Local	P3	0.64
Paufeld Dr	Bridgewater Cr	Gemini Av	Local	P3	0.17
Paufeld Dr	Brian St	Gemini Av	Local	P3	0.67
Paufeld Dr	Brian St	Bridgewater Cr	Local	P3	0.17
Paufeld Dr	Gemini Av	Karen St	Local	P3	0.17
Pekary Pl	London St	End	Local	P3	0.22
Pennefather By	Bonner Av	Stoneham Cr	Local	P3	0.38
Pennefather St	Bonner Av	Pennefather By	Local	P3	0.16
Pennefather St	Headmaster Rw	Pennefather By	Local	P3	0.22
Pentland St	Puffin Pl	Gilmore Av	Local	P3	0.15
Pentland St	Gilmore Av	Stuart Av	Local	P3	0.16
Pentland St	Reiny Dr	Strood Av	Local	P3	0.16
Pentland St	Fortier Av	Puffin Pl	Local	P3	0.15
Pentland St	Fortier Av	Winters Wy	Local	P3	0.27
Pentland St	Edkar Cr	Winters Wy	Local	P3	0.08
Pentland St	Edkar Cr	Mornefortune Cr	Local	P3	0.05
Pentland St	Mcivor Av	Willart Pl	Local	P3	0.11
Pentland St	Willart Pl	Mcivor Av	Local	P3	0.18
Pentland St	Douglas Av	Stuart Av	Local	P3	0.24
Pentland St	Strood Av	End	Local	P3	0.12
Peters By	Peters St	End	Local	P3	0.10
Peters St	Headmaster Rw	Knowles Av	Local	P3	0.24
Pinecrest By	Donwood Dr	Donwood Dr	Local	P3	0.64
Placid Cv	Mclvor Av	End	Local	P3	0.22
Pleasant By	Brazier St	Brazier St	Local	P3	0.96
Popko Cr	Popko Cr	Knowles Av	Local	P3	0.27
Popko Cr	Popko Cr	Popko Cr	Local	P3	0.16
Popko Cr	Popko Cr	Popko Cr	Local	P3	0.03
Popko Cr	Popko Cr	Popko Cr	Local	P3	0.08

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Principal By	Headmaster Rw	End	Local	P3	0.10
Puffin PI	Pentland St	End	Local	P3	0.07
Quiring By	Donwood Dr	Brian St	Local	P3	0.81
Rachel St	Continental Av	Malcana St	Local	P3	0.33
Radium Cv	Mcivor Av	Uxbridge Rd S	Local	P3	0.64
Ranch PI	Ranch Rd	End	Local	P3	0.07
Ranch Rd	Mcivor Av	Ranch PI	Local	P3	0.16
Ranch Rd	Mcivor Av	Ranch PI	Local	P3	0.31
Ravenhill Rd	Tu Pelo Av	Lemmen Dr	Local	P3	0.46
Ravenhill Rd	Antrim Rd	Tomlinson Av	Local	P3	0.16
Ravenhill Rd	Lemmen Dr	Tomlinson Av	Local	P3	0.75
Reay Cr	Flett Av	London St	Local	P3	0.42
Reay Cr	Antrim Rd	Flett Av	Local	P3	0.20
Reay Cr	London St	Reay Cr	Local	P3	1.01
Regatta Rd	High Point Dr	Sun Valley Dr	Local	P3	1.24
Regula PI	Knowles Av	End	Local	P3	0.13
Reichert St	Gilmore Av	End	Local	P3	0.28
Reinhard PI	Donwood Dr	End	Local	P3	0.13
Reiny Dr	Reiny Dr	Mclvor Av	Local	P3	0.16
Reiny Dr	Deborah PI	Pentland St	Local	P3	0.06
Reiny Dr	Pentland St	Reiny Dr	Local	P3	0.65
Reiny Dr	Reiny Dr	Deborah PI	Local	P3	0.43
Robert Cartwright PI	Jim Smith Dr	End	Local	P3	0.19
Roberta Av	Henderson Hw	Brazier St	Local	P3	0.62
Roberta Av	Brazier St	Roch St	Local	P3	0.60
Roberta Av	Roch St	Watt St	Local	P3	0.74
Roberta Av	Raleigh St	Golspie St	Local	P3	0.91
Roberta Av	Woodvale St	Henderson Hw	Local	P3	0.74
Roberta Av	Golspie St	Watt St	Local	P3	0.74
Roch St	Linden Av	Hazel Dell Av	Local	P3	0.17
Roch St	Hazel Dell Av	Oakview Av	Local	P3	0.16
Roch St	Fearn Av	Leighton Av	Local	P3	0.18

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Roch St	Dunrobin Av	Oakview Av	Local	P3	0.16
Roch St	Greene Av	Roberta Av	Local	P3	0.16
Roch St	Dunrobin Av	Helmsdale Av	Local	P3	0.21
Roch St	Leighton Av	Roberta Av	Local	P3	0.16
Roch St	Mcleod Av	Colvin Av	Local	P3	0.56
Roch St	Helmsdale Av	Kimberly Av	Local	P3	0.21
Roch St	Dunbeath Av	Colvin Av	Local	P3	0.19
Roch St	Greene Av	Linden Av	Local	P3	0.16
Roch St	Fearn Av	Dunbeath Av	Local	P3	0.20
Roch St	Edison Av	Mckay Av	Local	P3	0.23
Rockspur St	Dampsy Cr	De Jong Cr	Local	P3	0.17
Rockspur St	De Jong Cr	Tu Pelo Av	Local	P3	0.23
Rockspur St	De Jong Cr	Antrim Rd	Local	P3	0.16
Rockspur St	De Jong Cr	Dampsy Cr	Local	P3	0.26
Roman St	Oakland Av	End	Local	P3	0.17
Roselawn By	Donwood Dr	Honeywood St	Local	P3	0.49
Roselawn By	Donwood Dr	Honeywood St	Local	P3	0.49
Rosewell Pl	De Fehr St	Sharron By	Local	P3	0.50
Rossmere Cr	Moir Av	Mossdale Av	Local	P3	0.19
Rossmere Cr	Dunvegan St	Woodvale St	Local	P3	0.24
Rossmere Cr	Woodvale St	Kildonan Dr	Local	P3	0.49
Rossmere Cr	Dunvegan St	Moir Av	Local	P3	0.51
Routly Rd	Golden Eagle Dr	Kirkland Rd	Local	P3	0.22
Rowandale Av	Henderson Hw	Larchdale Cr	Local	P3	0.36
Rowandale Av	Larchdale Cr	Rowandale Cr	Local	P3	0.16
Rowandale Cr	Kildonan Dr	Rowandale Av	Local	P3	0.51
Rowandale Cr	Kildonan Dr	Rowandale Av	Local	P3	0.38
Rowe St	Oakland Av	End	Local	P3	0.17
Rudolph By	Snowdon Av	Snowdon Av	Local	P3	0.63
Rushmore Rd	High Point Dr	Thurlby Rd	Local	P3	1.02
Rushmore Rd	Thurlby Rd	Hovingham St	Local	P3	0.21
Rushmore Rd	Hovingham St	St Moritz Rd	Local	P3	0.58

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Sage Wood Av	Kingsdale Rd	Sunny Hills Rd	Local	P3	0.48
Sage Wood Av	Kingsdale Rd	Southwell Rd	Local	P3	0.33
Sawchuk By	Antrim Rd	Antrim Rd	Local	P3	0.61
Schmidt St	Routly Rd	Eaglemere Dr	Local	P3	0.19
Serenity Cv	Gilmore Av	Gilmore Av	Local	P3	0.56
Sharron By	Rosewell Pl	Rothsay St	Local	P3S	0.17
Sharron By	De Fehr St	Rosewell Pl	Local	P3S	0.17
Sharron By	De Fehr St	De Fehr St	Local	P3S	1.03
Shelagh Cr	Edelweiss Cr	Edelweiss Cr	Local	P3	0.40
Siddall Cr	Louelda St	Tu Pelo Av	Local	P3	0.70
Silver Spring By	Eaglemere Dr	Eaglemere Dr	Local	P3	0.87
Slater Av	Corne St	End	Local	P3	0.01
Slater Av	Del Rio Pl	Henderson Hw	Local	P3	0.30
Slater Av	Del Rio Pl	Corne St.	Local	P3	0.25
Snowdon Av	Kullman St	Treger By	Local	P3	0.46
Snowdon Av	Kullman St	Rudolph By	Local	P3	0.20
Snowdon Av	Rudolph By	Rudolph By	Local	P3	0.18
Snowdon Av	Molson St	Rudolph By	Local	P3	0.14
Solace Ky	Evenlea Wk	End	Local	P3	0.11
Sorley St	Mcleod Av	Werrell Cr	Local	P3	0.17
Southwell Rd	Manthorne Av	Wynyard By	Local	P3	0.18
Southwell Rd	Grouse Pl	Manthorne Av	Local	P3	0.61
Southwell Rd	Sage Wood Av	Wynyard By	Local	P3	0.18
Southwell Rd	Sun Valley Dr	Sage Wood Av	Local	P3	0.20
Spring Valley Rd	Alberhill Cr	Springfield Rd	Local	P3	0.14
Springfield Rd	Springfield Rd	Springfield Rd	Local	P3	0.45
Springfield Rd	De Vries Av	Spring Valley Rd	Local	P3	0.16
Springfield Rd	End	Spring Valley Rd	Local	P3	0.86
Springfield Rd	Dunits Dr	End	Local	P3	1.06
Springlea Pa	Morningmead Wk	Gilmore Av	Local	P3	0.36
St Moritz Rd	Rushmore Rd	Tomkins By	Local	P3	0.17
St Moritz Rd	Rushmore Rd	Southwell Rd	Local	P3	0.33

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St Moritz Rd	St Moritz Rd	Tomkins By	Local	P3	0.20
St Moritz Rd	Tomkins By	End	Local	P3	0.09
St Moritz Rd	End	Mclvor Av	Local	P3	0.13
St Moritz Rd	St Moritz Rd	Tomkins By	Local	P3	0.17
Stacey By	Louelda St	Louelda St	Local	P3	0.93
Stalker By	Mark Pearce Av	Mark Pearce Av	Local	P3	0.73
Stefanie Dr	Red Oak Dr	Thornbury Cr	Local	P3	0.24
Stefanie Dr	Kirlystone Wy	Mcleod Av	Local	P3	0.18
Stefanie Dr	Mahonee Dr	Melanie Cv	Local	P3	0.18
Stefanie Dr	Melanie Cv	Tanya Cr	Local	P3	0.17
Stefanie Dr	Kirlystone Wy	Thornbury Cr	Local	P3	0.17
Stefanie Dr	Red Oak Dr	Tanya Cr	Local	P3	0.18
Stoneham Cr	Bonner Av	Pennefather By	Local	P3	0.96
Strongberg Dr	Ragsdill Rd	Green Meadows Av	Local	P3	0.61
Strongberg Dr	Mclvor Av	Green Meadows Av	Local	P3	0.66
Stronsay Pl	Sunny Hills Rd	End	Local	P3	0.08
Strood Av	Henderson Hw	Pentland St	Local	P3	0.55
Strood Av	Rothesay St	Diamond St	Local	P3	0.16
Strood Av	Diamond St	Pentland St	Local	P3	0.58
Strood Av	Rothesay St	End	Local	P3	0.21
Stuart Av	Kellas St	Pentland St	Local	P3	0.56
Stuart Av	Henderson Hw	Pentland St	Local	P3	0.71
Stuart Av	Kellas St	Natalie By	Local	P3	0.21
Summerfield Wy	Gilmore Av	Tranquility Cv	Local	P3	0.35
Summerfield Wy	Fortier Av	Tranquility Cv	Local	P3	0.77
Summerfield Wy	Fortier Av	Gilmore Av	Local	P3	0.30
Sunkist Cv	Headmaster Rw	End	Local	P3	0.22
Sunny Hills Rd	Manthorne Av	Stronsay Pl	Local	P3	0.50
Sunny Hills Rd	Sage Wood Av	Sun Valley Dr	Local	P3	0.22
Sunny Hills Rd	Sunny Hills Rd	Sage Wood Av	Local	P3	0.18
Sunny Hills Rd	Sunny Hills Rd	Manthorne Av	Local	P3	0.36
Sunny Hills Rd	Sunny Hills Rd	Stronsay Pl	Local	P3	0.17

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Sunny Morning Rd	Headmaster Rw	Knowles Av	Local	P3	0.18
Sunrise Cv	Alberhill Cr	End	Local	P3	0.35
Sutton Av	Rothesay St	Karen St	Local	P3	0.64
Swiss By	Hathway Rd	End	Local	P3	0.34
Tain By	Mcleod Av	End	Local	P3	0.09
Tamarind Dr	Whellams Ln	End	Local	P3	0.68
Tamarisk Cv	Headmaster Rw	Headmaster Rw	Local	P3	0.09
Tanya Cr	Mahonee Dr	Stefanie Dr	Local	P3	0.52
Tanya Cr	Mahonee Dr	Stefanie Dr	Local	P3	0.62
Tara Lee Cv	Tara Lee Cv	End	Local	P3	0.23
Taurus Dr	Dunits Dr	Gateway Rd	Local	P3	0.77
Thornbury Cr	Meghan Cv	Stefanie Dr	Local	P3	0.40
Thornbury Cr	Meghan Cv	Red Oak Dr	Local	P3	0.22
Thurlby Rd	Hovingham St	Rushmore Rd	Local	P3	1.26
Thurlby Rd	End	Hovingham St	Local	P3	0.04
Timberline Dr	Timberline Dr	Timberline Dr	Local	P3	0.03
Timberline Dr	Eaglemere Dr	End	Local	P3	0.14
Timberline Dr	Eaglemere Dr	Deering Cs	Local	P3	0.43
Tomkins By	St Moritz Rd	St Moritz Rd	Local	P3	0.60
Tomlinson Av	Lemmen Dr	Ravenhill Rd	Local	P3	0.41
Tomlinson Av	Lemmen Dr	Louelda St	Local	P3	0.32
Tranquility Cv	Gilmore Av	Summerfield Wy	Local	P3	0.60
Treger By	Avaco Dr	Snowdon Av	Local	P3	0.35
Treger By	Snowdon Av	Louelda St	Local	P3	0.18
Uxbridge Rd N	Bonner Av	Brahms By	Local	P3	0.16
Uxbridge Rd N	Brahms By	Chopin Bv	Local	P3	0.24
Uxbridge Rd N	Algonquin Av	End	Local	P3	0.09
Uxbridge Rd N	Algonquin Av	Chopin Bv	Local	P3	0.18
Uxbridge Rd S	Mclvor Av	Radium Cv	Local	P3	0.14
Valhalla Dr	Henderson Hw	End	Local	P3	0.64
Vintage Hills Ct	Headmaster Rw	End	Local	P3	0.34
Vryenhoek Cr	De Graff Pl	Eade Cr	Local	P3	0.16

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Vryenhoek Cr	Eade Cr	Vryenhoek Pl	Local	P3	0.17
Vryenhoek Cr	Eade Cr	Vryenhoek Pl	Local	P3	0.44
Vryenhoek Pl	Vryenhoek Cr	End	Local	P3	0.09
Walter Copp Cr	London St	Tu Pelo Av	Local	P3	0.68
Walter Piper Gr	Eaglemere Dr	Walter Piper Gr	Local	P3	0.18
Walter Piper Gr	Walter Piper Gr	Walter Piper Gr	Local	P3	0.16
Walter Piper Gr	Walter Piper Gr	Walter Piper Gr	Local	P3	0.03
Walter Piper Gr	Walter Piper Gr	End	Local	P3	0.25
Watt St	Watt St	Roberta Av	Local	P3	0.22
Werrell Cr	John Taylor Pl	Tu Pelo Av	Local	P3	0.49
Werrell Cr	Sorley St	Louelda St	Local	P3	0.35
Werrell Cr	John Taylor Pl	Sorley St	Local	P3	0.41
West Springs Cv	Ragsdill Rd	End	Local	P3	0.31
Wiebes Dr	Bonner Av	Zeglinski Cr	Local	P3	0.23
Wiebes Dr	Chopin Bv	Zeglinski Cr	Local	P3	0.17
Wiebes Dr	Algonquin Av	Chopin Bv	Local	P3	0.42
Wilfred Knowles By	Headmaster Rw	End	Local	P3	0.10
Willart Pl	Pentland St	End	Local	P3	0.11
William Dixon By	Headmaster Rw	End	Local	P3	0.06
Willowdale Pl	Kildonan Dr	Larchdale Cr	Local	P3	0.34
Winmart Cv	Mclvor Av	End	Local	P3	0.12
Winters Wy	Pentland St	End	Local	P3	0.06
Woodvale St	Hazel Dell Av	Linden Av	Local	P3	0.16
Woodvale St	Hazel Dell Av	Oakview Av	Local	P3	0.16
Woodvale St	Dunrobin Av	Helmsdale Av	Local	P3	0.19
Woodvale St	Leighton Av	Mossdale Av	Local	P3	0.18
Woodvale St	Leighton Av	Roberta Av	Local	P3S	0.16
Woodvale St	Glencoe Av	Rossmere Cr	Local	P3	0.20
Woodvale St	Glencoe Av	Mossdale Av	Local	P3	0.17
Woodvale St	Greene Av	Roberta Av	Local	P3S	0.16
Woodvale St	Frasers Gr	Rossmere	Local	P3	0.20
Woodvale St	Greene Av	Linden Av	Local	P3	0.16

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Woodvale St	Dunrobin Av	Oakview Av	Local	P3	0.16
Wynyard By	Southwell Rd	Southwell Rd	Local	P3	0.57
Zacharias Pl	Zeglinski Cr	End	Local	P3	0.06
Zeglinski Cr	Wiebes Dr	Zacharias Pl	Local	P3	0.17
Zeglinski Cr	Zeglinski Cr	End	Local	P3	0.14
Zeglinski Cr	Chopin Bv	Zacharias Pl	Local	P3	0.50
TOTAL					231.51

APPENDIX D – ENVIRONMENT CANADA WEATHER DATA

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