

BID OPPORTUNITY

BID OPPORTUNITY NO. 52-2009

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PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

B1.1 PROVINCE OF MANITOBA – CITY OF WINNIPEG - CONCRETE REPAIRS AND ASPHALT RESURFACING, CENTURY STREET: 130 M SOUTH OF ELLICE AVENUE TO 300 M NORTH OF WELLINGTON AVENUE

B2. SUBMISSION DEADLINE

- B2.1 The Submission Deadline is 12:00 noon Winnipeg time, March 12, 2009.
- B2.2 Bids determined by the Manager of Materials to have been received later than the Submission Deadline will not be accepted and will be returned upon request.
- B2.3 The Contract Administrator or the Manager of Materials may extend the Submission Deadline by issuing an addendum at any time prior to the time and date specified in B2.1.

B3. ENQUIRIES

- B3.1 All enquiries shall be directed to the Contract Administrator identified in D3.1.
- 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 notify the Contract Administrator of the error, discrepancy or omission, or request a clarification as to the meaning or intent of the provision at least five (5) Business Days prior to the Submission Deadline.
- B3.3 Responses to enquiries which, in the sole judgment of the Contract Administrator, require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator to all Bidders by issuing an addendum.
- B3.4 Responses to enquiries which, in the sole judgment of the Contract Administrator, do not require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator only to the Bidder who made the enquiry.
- B3.5 The Bidder shall not be entitled to rely on any response or interpretation received pursuant to B3 unless that response or interpretation is provided by the Contract Administrator in writing.

B4. ADDENDA

- B4.1 The Contract Administrator may, at any time prior to the Submission deadline, issue addenda correcting errors, discrepancies or omissions in the Bid Opportunity, or clarifying the meaning or intent of any provision therein.
- B4.2 The Contract Administrator will issue each addendum at least two (2) Business Days prior to the Submission Deadline, or provide at least two (2) Business Days by extending the Submission Deadline.
- B4.2.1 Addenda will be available on the Bid Opportunities page at The City of Winnipeg, Corporate Finance, Materials Management Division website at http://www.winnipeg.ca/matmgt/bidopp.asp
- B4.2.2 The Bidder is responsible for ensuring that he has received all addenda and is advised to check the Materials Management Division website for addenda regularly and shortly before the Submission Deadline, as may be amended by addendum.
- B4.3 The Bidder shall acknowledge receipt of each addendum in Paragraph 10 of Form A: Bid. Failure to acknowledge receipt of an addendum may render a Bid non-responsive.

B5. SUBSTITUTES

- B5.1 The Work is based on the Plant, Materials and methods specified in the Bid Opportunity.
- B5.2 Substitutions shall not be allowed unless application has been made to and prior approval has been granted by the Contract Administrator in writing.
- B5.3 Requests for approval of a substitute will not be considered unless received in writing by the Contract Administrator at least five (5) Business Days prior to the Submission Deadline.
- B5.4 The Bidder shall ensure that any and all requests for approval of a substitute:
 - (a) provide sufficient information and details to enable the Contract Administrator to determine the acceptability of the Plant, Material or method as either an approved equal or alternative;
 - (b) identify any and all changes required in the applicable Work, and all changes to any other Work, which would become necessary to accommodate the substitute;
 - (c) identify any anticipated cost or time savings that may be associated with the substitute;
 - (d) certify that, in the case of a request for approval as an approved equal, the substitute will fully perform the functions called for by the general design, be of equal or superior substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the proposed work schedule and the dates specified in the Supplemental Conditions for Substantial Performance and Total Performance;
 - (e) certify that, in the case of a request for approval as an approved alternative, the substitute will adequately perform the functions called for by the general design, be similar in substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the proposed work schedule and the dates specified in the Supplemental Conditions for Substantial Performance and Total Performance.
- B5.5 The Contract Administrator, after assessing the request for approval of a substitute, may in his sole discretion grant approval for the use of a substitute as an "approved equal" or as an "approved alternative", or may refuse to grant approval of the substitute.
- B5.6 The Contract Administrator will provide a response in writing, at least two (2) Business Days prior to the Submission Deadline, only to the Bidder who requested approval of the substitute.
- B5.6.1 The Bidder requesting and obtaining the approval of a substitute shall be entirely responsible for disseminating information regarding the approval to any person or persons he wishes to inform.
- B5.7 If the Contract Administrator approves a substitute as an "approved equal", any Bidder may use the approved equal in place of the specified item.
- B5.8 If the Contract Administrator approves a substitute as an "approved alternative", any Bidder bidding that approved alternative may base his Total Bid Price upon the specified item but may also indicate an alternative price based upon the approved alternative. Such alternatives will be evaluated in accordance with B14.
- B5.9 No later claim by the Contractor for an addition to the Total Bid Price because of any other changes in the Work necessitated by the use of an approved equal or an approved alternative will be considered.
- B5.10 Notwithstanding B5.2 to B5.9, in accordance with B6.6, deviations inconsistent with the Bid Opportunity document shall be evaluated in accordance with B14.1(a).

B6. BID COMPONENTS

- B6.1 The Bid shall consist of the following components:
 - (a) Form A: Bid;
 - (b) Form B: Prices, hard copy;
 - (c) Bid Security;
 - Form G1: Bid Bond and Agreement to Bond, or Form G2: Irrevocable Standby Letter of Credit and Undertaking, or a certified cheque or draft;
- B6.2 Further to B6.1, the Bidder should include the written correspondence from the Contract Administrator approving a substitute in accordance with B5.
- B6.3 All components of the Bid shall be fully completed or provided, and submitted by the Bidder no later than the Submission Deadline, with all required entries made clearly and completely, to constitute a responsive Bid.
- B6.4 The Bid shall be submitted enclosed and sealed in an envelope clearly marked with the Bid Opportunity number and the Bidder's name and address.
- B6.4.1 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.
- B6.4.2 A hard copy of Form B: Prices must be submitted with the Bid. If there is any discrepancy between the Adobe PDF version of Form B: Prices and the Microsoft Excel version of Form B: Prices, the PDF version shall take precedence.
- B6.5 Bidders are advised not to include any information/literature except as requested in accordance with B6.1.
- B6.6 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).
- B6.7 Bids submitted by facsimile transmission (fax) or internet electronic mail (e-mail) will not be accepted.
- B6.8 Bids shall be submitted to:

The City of Winnipeg Corporate Finance Department Materials Management Division 185 King Street, Main Floor Winnipeg MB R3B 1J1

B7. BID

- B7.1 The Bidder shall complete Form A: Bid, making all required entries.
- B7.2 Paragraph 2 of Form A: Bid shall be completed in accordance with the following requirements:
 - (a) if the Bidder is a sole proprietor carrying on business in his own name, his name shall be inserted;
 - (b) if the Bidder is a partnership, the full name of the partnership shall be inserted;
 - (c) if the Bidder is a corporation, the full name of the corporation shall be inserted;
 - (d) if the Bidder is carrying on business under a name other than his own, the business name and the name of every partner or corporation who is the owner of such business name shall be inserted.

- B7.2.1 If a Bid is submitted jointly by two or more persons, each and all such persons shall identify themselves in accordance with B7.2.
- B7.3 In Paragraph 3 of Form A: Bid, the Bidder shall identify a contact person who is authorized to represent the Bidder for purposes of the Bid.
- B7.4 Paragraph 12 of Form A: Bid shall be signed in accordance with the following requirements:
 - (a) if the Bidder is a sole proprietor carrying on business in his own name, it shall be signed by the Bidder;
 - (b) if the Bidder is a partnership, it shall be signed by the partner or partners who have authority to sign for the partnership;
 - (c) if the Bidder is a corporation, it shall be signed by its duly authorized officer or officers and the corporate seal, if the corporation has one, shall be affixed;
 - (d) if the Bidder is carrying on business under a name other than his own, it shall be signed by the registered owner of the business name, or by the registered owner's authorized officials if the owner is a partnership or a corporation.
- B7.4.1 The name and official capacity of all individuals signing Form A: Bid should be printed below such signatures.
- B7.5 If a Bid is submitted jointly by two or more persons, the word "Bidder" shall mean each and all such persons, and the undertakings, covenants and obligations of such joint Bidders in the Bid and the Contract, when awarded, shall be both joint and several.

B8. PRICES

- B8.1 The Bidder shall state a price in Canadian funds for each item of the Work identified on Form B: Prices.
- B8.1.1 For the convenience of Bidders, and pursuant to B6.4.2 and B14.4.3, an electronic spreadsheet Form B: Prices in Microsoft Excel (.xls) format is available along with the Adobe PDF documents for this Bid Opportunity on the Bid Opportunities page at the Materials Management Division website at http://www.winnipeg.ca/matmgt
- B8.2 The quantities listed on Form B: Prices are to be considered approximate only. The City will use said quantities for the purpose of comparing Bids.
- B8.3 The quantities for which payment will be made to the Contractor are to be determined by the Work actually performed and completed by the Contractor, to be measured as specified in the applicable Specifications.
- B8.4 Prices from Non-Resident Bidders are subject to a Non-Resident Withholding Tax pursuant to the Income Tax Act (Canada).

B9. QUALIFICATION

- B9.1 The Bidder shall:
 - (a) undertake to be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba; and
 - (b) be financially capable of carrying out the terms of the Contract; and
 - (c) have all the necessary experience, capital, organization, and equipment to perform the Work in strict accordance with the terms and provisions of the Contract.
- B9.2 The Bidder and any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:

- (a) be responsible and not be suspended, debarred or in default of any obligations to the City. A list of suspended or debarred individuals and companies is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at http://www.winnipeg.ca/matmqt/debar.stm
- B9.3 The Bidder and/or any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:
 - (a) have successfully carried out work similar in nature, scope and value to the Work; and
 - (b) be fully capable of performing the Work required to be in strict accordance with the terms and provisions of the Contract; and
 - (c) have a written workplace safety and health program if required pursuant to The Workplace Safety and Health Act (Manitoba);
- B9.4 Further to B9.3(c), the Bidder shall, within five (5) Business Days of a request by the Contract Administrator, provide proof satisfactory to the Contract Administrator that the Bidder/Subcontractor has a workplace safety and health program meeting the requirements of The Workplace Safety and Health Act (Manitoba), by providing:
 - (a) a valid COR certification number under the Certificate of Recognition (COR) Program administered by the Manitoba Construction Safety Association or by the Manitoba Heavy Construction Association's Safety, Health and Environment Program; or
 - (b) a report or letter to that effect from an independent reviewer acceptable to the City. (A list of acceptable reviewers and the review template are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at http://www.winnipeg.ca/matmqt)
- B9.5 The Bidder shall submit, within three (3) Business Days of a request by the Contract Administrator, proof satisfactory to the Contract Administrator of the qualifications of the Bidder and of any proposed Subcontractor.
- B9.6 The Bidder shall provide, on the request of the Contract Administrator, full access to any of the Bidder's equipment and facilities to confirm, to the Contract Administrator's satisfaction, that the Bidder's equipment and facilities are adequate to perform the Work.

B10. BID SECURITY

- B10.1 The Bidder shall provide bid security in the form of:
 - (a) a bid bond, in the amount of at least ten percent (10%) of the Total Bid Price, and agreement to bond of a company registered to conduct the business of a surety in Manitoba, in the form included in the Bid Submission (Form G1: Bid Bond and Agreement to Bond); or
 - (b) an irrevocable standby letter of credit, in the amount of at least ten percent (10%) of the Total Bid Price, and undertaking issued by a bank or other financial institution registered to conduct business in Manitoba and drawn on a branch located in Winnipeg, in the form included in the Bid Submission (Form G2: Irrevocable Standby Letter of Credit and Undertaking); or
 - (c) a certified cheque or draft payable to "The City of Winnipeg", in the amount of at least fifty percent (50%) of the Total Bid Price, drawn on a bank or other financial institution registered to conduct business in Manitoba.
- B10.1.1 If the Bidder submits alternative bids, the bid security shall be in the amount of the specified percentage of the highest Total Bid Price submitted.
- B10.1.2 All signatures on bid securities shall be original.
- B10.1.3 The Bidder shall sign the Bid Bond.
- B10.1.4 The Surety shall sign and affix its corporate seal on the Bid Bond and the Agreement to Bond.

- B10.2 The bid security of the successful Bidder and the next two lowest evaluated responsive and responsible Bidders will be released by the City when a Contract for the Work has been duly executed by the successful Bidder and the performance security furnished as provided herein. The bid securities of all other Bidders will be released when a Contract is awarded.
- B10.2.1 Where the bid security provided by the successful Bidder is in the form of a certified cheque or draft pursuant to B10.1(c), it will be deposited and retained by the City as the performance security and no further submission is required.
- B10.2.2 The City will not pay any interest on certified cheques or drafts furnished as bid security or subsequently retained as performance security.
- B10.3 The bid securities of all Bidders will be released by the City as soon as practicable following notification by the Contract Administrator to the Bidders that no award of Contract will be made pursuant to the Bid Opportunity.

B11. OPENING OF BIDS AND RELEASE OF INFORMATION

- B11.1 Bids will be opened publicly, after the Submission Deadline has elapsed, in the office of the Corporate Finance Department, Materials Management Division, or in such other office as may be designated by the Manager of Materials.
- B11.1.1 Bidders or their representatives may attend.
- B11.1.2 Bids determined by the Manager of Materials, or his designate, to not include the bid security specified in B10 will not be read out.
- B11.2 Following the submission deadline, the names of the Bidders and their Total Bid Prices (unevaluated, and pending review and verification of conformance with requirements) will be available on the 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, by The Freedom of Information and Protection of Privacy Act (Manitoba), by other authorities having jurisdiction, or by law.

B12. IRREVOCABLE BID

- B12.1 The Bid(s) submitted by the Bidder shall be irrevocable for the time period specified in Paragraph 11 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 until a Contract for the Work has been duly executed and the performance security furnished as herein provided, but any Bid shall be deemed to have lapsed unless accepted within the time period specified in Paragraph 11 of Form A: Bid.

B13. WITHDRAWAL OF BIDS

- B13.1 A Bidder may withdraw his Bid without penalty by giving written notice to the Manager of Materials at any time prior to the Submission Deadline.
- B13.1.1 Notwithstanding C23.3, 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 12 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 12 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 Bid after the Submission Deadline but before his 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, including the right to retain the Bidder's bid security.

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 B9 (pass/fail);
 - (c) Total Bid Price;
 - (d) economic analysis of any approved alternative pursuant to B5.
- B14.2 Further to B14.1(a), the Award Authority may reject a Bid as being non-responsive if the Bid is incomplete, obscure or conditional, or contains additions, deletions, alterations or other irregularities. The Award Authority may reject all or any part of any Bid, or waive technical requirements or minor informalities or irregularities, if the interests of the City so require.
- B14.3 Further to B14.1(b), the Award Authority shall reject any Bid submitted by a Bidder who does not demonstrate, in his Bid or in other information required to be submitted, that he is responsible and qualified.
- 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 If there is any discrepancy between the Total Bid Price written in figures, the Total Bid Price written in words and the sum of the quantities multiplied by the unit prices for each item, the sum of the quantities multiplied by the unit prices for each item shall take precedence.
- B14.4.2 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.
- B14.4.3 The electronic Form B: Prices and the formulas imbedded in that spreadsheet are only provided for the convenience of Bidders. The City makes no representations or warranties as to the correctness of the imbedded formulas. It is the Bidder's responsibility to ensure the extensions of the unit prices and the sum of Total Bid Price performed as a function of the formulas within the electronic Form B: Prices are correct.

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 Bid upon written request to the Contract Administrator.

PART C - GENERAL CONDITIONS

C1. GENERAL CONDITIONS

- C1.1 The General Conditions for Construction (Revision 2006 12 15) are applicable to the Work of the Contract.
- C1.1.1 The General Conditions for Construction 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
- C1.2 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 Construction*.

PART D - SUPPLEMENTAL CONDITIONS

GENERAL

D1. GENERAL CONDITIONS

D1.1 In addition to the General Conditions for Construction, these Supplemental Conditions are applicable to the Work of the Contract.

D2. SCOPE OF WORK

- D2.1 The Work to be done under the Contract shall consist of:
 - (a) Concrete Repairs, Asphalt Resurfacing and Related Works on Century Street (Route 90) from approximately 130 m south of Ellice Avenue to approximately 300 m north of Wellington Avenue.
- D2.2 The major components of the Work are as follows:
 - (a) Concrete Repairs, Asphalt Resurfacing and Related Works
 - (i) Sewer inspection
 - (ii) Planing of asphalt overlay
 - (iii) Excavation and placement of base course materials
 - (iv) Full depth repair of existing concrete joints and slabs
 - (v) Installation of catchpits and catchbasins, adjustment of catchbasins, water valves and manholes
 - (vi) Renewal of curb and sidewalk
 - (vii) Construction of splash strip
 - (viii) Construction of monolithic concrete curb and sidewalk
 - (ix) Placement of asphalt overlay (average thickness 80 mm) including paving crown in centre lane
 - (x) Boulevard restoration, placement of salt tolerant seed and site clean-up

D3. CONTRACT ADMINISTRATOR

D3.1 The Contract Administrator is AECOM Canada Ltd., represented by:

Mr. Kevin W. Rae, P.Eng.

Project Manager

99 Commerce Drive, Winnipeg, Manitoba R3P 0Y7

Telephone No. (204) 928-8430 Facsimile No. (204) 284-2040

D3.2 At the pre-construction meeting, Mr. Kevin W. Rae, P.Eng. will identify additional personnel representing the Contract Administrator and their respective roles and responsibilities for the Work.

D4. CONTRACTOR'S SUPERVISOR

- D4.1 At the pre-construction meeting, the Contractor shall identify his designated supervisor and any additional personnel representing the Contractor and their respective roles and responsibilities for the Work.
- D4.2 At least two (2) business days prior to the commencement of any Work on the site, the Contractor shall provide the Contract Administrator with a phone number where the supervisor identified in D4.1 or an alternate can be contacted twenty-four (24) hours a day to respond to an emergency.

D5. NOTICES

- D5.1 Except as provided for in C23.2.2, all notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the Contractor shall be sent to the address or facsimile number identified by the Contractor in Paragraph 2 of Form A: Bid.
- D5.2 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the City, except as expressly otherwise required in D5.3, D5.4 or elsewhere in the Contract, shall be sent to the attention of the Contract Administrator at the address or facsimile number identified in D3.1.
- D5.3 Notwithstanding C21., all notices of appeal to the Chief Administrative Officer shall be sent to the attention of the Chief Financial Officer at the following address or facsimile number:

The City of Winnipeg Chief Financial Officer Administration Building, 3rd Floor 510 Main Street Winnipeg MB R3B 1B9

Facsimile No.: (204) 949-1174

D5.4 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications required to be submitted or returned to the City Solicitor shall be sent to the following address or facsimile number:

The City of Winnipeg Internal Services Department Legal Services Division Attn: City Solicitor 185 King Street, 3rd Floor Winnipeg MB R3B 1J1

Facsimile No.: (204) 947-9155

D6. FURNISHING OF DOCUMENTS

D6.1 Upon award of the Contract, the Contractor will be provided with five (5) complete sets of the Bid Opportunity. If the Contractor requires additional sets of the Bid Opportunity, they will be supplied to him at cost.

SUBMISSIONS

D7. AUTHORITY TO CARRY ON BUSINESS

D7.1 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.

D8. SAFE WORK PLAN

- D8.1 The Contractor shall provide the Contract Administrator with a Safe Work Plan at least five (5) Business Days prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.
- D8.2 The Safe Work Plan shall be prepared and submitted in the format shown in the City's template which is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at http://www.winnipeg.ca/matmgt/safety/default.stm

D9. INSURANCE

- D9.1 The Contractor shall provide and maintain the following insurance coverage:
 - (a) commercial general liability insurance, in the amount of at least two million dollars (\$2,000,000.00) inclusive, with The City of Winnipeg added as an additional insured, with a cross-liability clause, such liability policy to also contain contractual liability, unlicensed motor vehicle liability, non-owned automobile liability, broad form property damage cover and products and completed operations, to remain in place at all times during the performance of the Work and throughout the warranty period;
 - (b) automobile liability insurance for owned automobiles used for or in connection with the Work in the amount of at least two million dollars (\$2,000,000.00) at all times during the performance of the Work and until the date of Total Performance;
 - (c) an all risks Installation Floater carrying adequate limits to cover all machinery, equipment, supplies and/or materials intended to enter into and form part of any installation.
- D9.2 Deductibles shall be borne by the Contractor.
- D9.3 The Contractor shall provide the City Solicitor 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 but in no event later than the date specified in the C4.1 for the return of the executed Contract.
- D9.4 The Contractor shall not cancel, materially alter, or cause each policy to lapse without providing at least thirty (30) Calendar Days prior written notice to the Contract Administrator.

D10. PERFORMANCE SECURITY

- D10.1 The Contractor shall provide and maintain performance security until the expiration of the warranty period in the form of:
 - (a) a performance bond of a company registered to conduct the business of a surety in Manitoba, in the form attached to these Supplemental Conditions (Form H1: Performance Bond), in the amount of fifty percent (50%) of the Contract Price; or
 - (b) an irrevocable standby letter of credit issued by a bank or other financial institution registered to conduct business in Manitoba and drawn on a branch located in Winnipeg, in the form attached to these Supplemental Conditions (Form H2: Irrevocable Standby Letter of Credit), in the amount of fifty percent (50%) of the Contract Price; or

- (c) a certified cheque or draft payable to "The City of Winnipeg", drawn on a bank or other financial institution registered to conduct business in Manitoba, in the amount of fifty percent (50%) of the Contract Price.
- D10.1.1 Where the performance security is in the form of a certified cheque or draft, it will be deposited by the City. The City will not pay any interest on certified cheques or drafts furnished as performance security.
- D10.2 If the bid security provided in his Bid was not a certified cheque or draft pursuant to B10.1(c), the Contractor shall provide the City Solicitor with the required performance security within seven (7) Calendar Days of notification of the award of the Contract by way of letter of intent and prior to the commencement of any Work on the Site and in no event later than the date specified in the C4.1 for the return of the executed Contract.

D11. SUBCONTRACTOR LIST

D11.1 The Contractor shall provide the Contract Administrator with a complete list of the Subcontractors whom the Contractor proposes to engage (Form J: Subcontractor List) at or prior to a preconstruction meeting, or 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 the C4.1 for the return of the executed Contract.

D12. DETAILED WORK SCHEDULE

D12.1 The Contractor shall provide the Contract Administrator with a detailed work schedule (Form L: Detailed Work Schedule) 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 the General Conditions for the return of the executed Contract.

SCHEDULE OF WORK

D13. COMMENCEMENT

- D13.1 The Contractor shall not commence any Work until he is in receipt of a letter of intent from the Award Authority authorizing the commencement of the Work.
- D13.2 The Contractor shall not commence any Work on the Site until:
 - (a) the Contract Administrator has confirmed receipt and approval of:
 - (i) evidence of authority to carry on business specified in D7;
 - (ii) evidence of the workers compensation coverage specified in C6.15;
 - (iii) the twenty-four (24) hour emergency response phone number specified in D4.2.
 - (iv) the Safe Work Plan specified in D8;
 - (v) evidence of the insurance specified in D9;
 - (vi) the performance security specified in D10;
 - (vii) the subcontractor list specified in D11;
 - (viii) the detailed work schedule specified in D12; and
 - (b) the Contractor has attended a pre-construction meeting with the Contract Administrator, or the Contract Administrator has waived the requirement for a pre-construction meeting.
 - (c) all catchbasin leads within the project limits have been televised.

D13.3 The Contractor shall not commence the Work on the Site before May 19, 2009, and shall commence the Work on Site no later than June 1, 2009, as directed by the Contract Administrator and weather permitting.

D14. WORKING DAYS

- D14.1 Further to C1.1(gg);
- D14.1.1 The Contract Administrator will determine daily if a Working Day has elapsed and will record his assessment. On a weekly basis the Contract Administrator will provide the Contractor with a record of the Working Days assessed for the preceding week. The Contractor shall sign each report signifying that he agrees with the Contract Administrator's determination of the Working Days assessed for the report period.
- D14.1.2 Work done to restore the Site to a condition suitable for Work, shall not be considered "work" as defined in the definition of a Working Day.
- D14.1.3 When the Work includes two or more major types of Work that can be performed under different atmospheric conditions, the Contract Administrator shall consider all major types of Work in determining whether the Contractor was able to work in assessing Working Days.

D15. RESTRICTED WORK HOURS

D15.1 Further to clause 3.10 of CW 1130, the Contractor shall require written permission forty-eight (48) hours in advance from the Contract Administrator for any work to be performed between 2000 hours and 0700 hours, or on Saturdays, Sundays, Statutory Holidays and or Civic Holidays.

D16. WORK BY OTHERS

- D16.1 Work by others on or near the Site will include but not necessarily be limited to:
 - (a) City of Winnipeg, Traffic Signals Branch Upgrade of Signals.
 - (b) City of Winnipeg, Traffic Services Branch Sign Replacement and Line Painting.
 - (c) City of Winnipeg, Geomatics Branch Referencing and Replacement of Survey Bars/Monuments as required.
 - (d) Manitoba Hydro Relocation of three hydro poles.

D17. SEQUENCE OF WORK

- D17.1 Further to C6.1, the sequence of work shall be as follows:
- D17.1.1 The Work shall be divided into three (3) stages. Prior to commencement of Stage 1, the Contractor shall complete all sewer inspection. Stages are further subdivided into major items of work.

D17.1.2 Stage I

- (a) Stage I includes the resurfacing of the east gutter lane of Century Street from 130 m south of Ellice Avenue to 300 m north of Wellington Avenue. Stage I construction works include slab and joint repairs, curb and sidewalk repairs and the placement of the bottom lift of asphalt in the east gutter lane from Ellice Avenue to Wellington Avenue.
 - (i) Planing of asphalt overlay where required;
 - (ii) Removal of existing pavement where required;
 - (iii) Excavation and placement of base course materials where required;
 - (iv) Concrete pavement, slab and joint work and adjustments to pavement structures and appurtenances;

- (v) Installation of catchpits and catchbasins;
- (vi) Renewal of concrete curb and sidewalk:
- (vii) Regrading boulevards, placing of topsoil and finished grading where required;
- (viii) Placement of seed;
- (ix) Placing of the bottom lift of asphalt.
- (b) Placement of the topsoil and finished grading of all boulevard areas shall be completed prior to commencing construction of the asphaltic concrete overlay, including bottom lift.

D17.1.3 Stage II

- (a) Stage II includes the resurfacing of the centre lane of Century Street from 130 m south of Ellice Avenue to 300 m north of Wellington Avenue. Stage II construction works include slab and joint repairs and the placement of the bottom lift of asphalt in the centre lane from Ellice Avenue to Wellington Avenue.
 - (i) Planing of asphalt overlay where required;
 - (ii) Removal of existing pavement where required;
 - (iii) Excavation and placement of base course materials where required;
 - (iv) Concrete pavement, slab and joint work and adjustments to pavement structures and appurtenances;
 - (v) Placing of the bottom lift of asphalt.

D17.1.4 Stage III

- (a) Stage III includes the resurfacing of the west gutter lane of Century Street from 130 m south of Ellice Avenue to 300 m north of Wellington Avenue. Stage III construction works include slab and joint repairs, curb and sidewalk repairs and the placement of the bottom lift of asphalt in the west gutter lane from Ellice Avenue to Wellington Avenue. Stage III construction also includes the placement of asphalt surface course on all three lanes from Ellice Avenue to Wellington Avenue.
 - (i) Planing of asphalt overlay where required;
 - (ii) Removal of existing pavement where required;
 - (iii) Excavation and placement of base course materials where required;
 - (iv) Concrete pavement, slab and joint work and adjustments to pavement structures and appurtenances;
 - (v) Installation of catchpits and catchbasins;
 - (vi) Renewal of concrete curb and sidewalk;
 - (vii) Regrading boulevards, placing of topsoil and finished grading where required;
 - (viii) Placement of seed;
 - (ix) Placing of the bottom lift of asphalt;
 - (x) Placing of the surface course of asphalt on all three lanes.
- D17.1.5 Immediately following the completion of the asphaltic concrete works of Stage III, the Contractor shall clean up the Site and remove all plant, surplus material, waste and debris, other than that left by the City or other Contractors.

D18. SUBSTANTIAL PERFORMANCE

D18.1 The Contractor shall achieve Substantial Performance within forty-five (45) consecutive Working Days of the commencement of the Work as specified in D13.

- D18.2 When the Contractor considers the Work to be substantially performed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Contract Administrator for purposes of verifying Substantial Performance. Any defects or deficiencies in the Work noted during that inspection shall be remedied by the Contractor at the earliest possible instance and the Contract Administrator notified so that the Work can be re-inspected.
- D18.3 The date on which the Work has been certified by the Contract Administrator as being substantially performed to the requirements of the Contract through the issue of a certificate of Substantial Performance is the date on which Substantial Performance has been achieved.

D19. TOTAL PERFORMANCE

- D19.1 The Contractor shall achieve Total Performance within fifty (50) consecutive Working Days of the commencement of the Work as specified in D13.
- D19.2 When the Contractor or the Contract Administrator considers the Work to be totally performed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Contract Administrator for purposes of verifying Total Performance. Any defects or deficiencies in the Work noted during that inspection shall be remedied by the Contractor at the earliest possible instance and the Contract Administrator notified so that the Work can be re-inspected.
- D19.3 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.

D20. LIQUIDATED DAMAGES

- D20.1 If the Contractor fails to achieve Substantial Performance in accordance with the Contract by the day fixed herein for Substantial Performance, the Contractor shall pay the City three thousand dollars (\$3,000.00) per Working Day for each and every Working Day following the day fixed herein for Substantial Performance during which such failure continues.
- D20.2 The amount specified for liquidated damages in D20.1 is based on a genuine pre-estimate of the City's damages in the event that the Contractor does not achieve Substantial Performance by the day fixed herein for same.
- D20.3 The City may reduce any payment to the Contractor by the amount of any liquidated damages assessed.

D21. ACCELERATED COMPLETION

- D21.1 Description
- D21.1.1 This Specification shall cover the accelerated completion of the Works of this Contract.
- D21.2 Acceleration of Work
- D21.2.1 At no risk to the City, the Contractor at his own initiative, means, and expense, may undertake to complete the Works of this Contract to facilitate the safe reopening of the entire roadway to traffic in advance of Substantial Performance specified in D18.
- D21.2.2 Reopening of the entire roadway to traffic shall occur when mainline paving is complete. Intersections, median openings and remaining work can be completed with off-peak short local lane closures on one side of the street at a time.
- D21.2.3 In recognition of the fact that an early completion of the Works is of benefit to the City, the City will compensate the Contractor for said early completion on a per diem unit price basis, as

hereinafter set out, provided that the City will not be liable to pay for any period of acceleration in excess of ten (10) Working Days.

D21.2.4 It is noted that certain delays on road rehabilitation Work are normal, due to site conditions, necessary layout and dimensional changes. The Contract Administrator will attempt to resolve each situation as soon as possible. The Contractor is advised that no extension to the number of Working Days will be given for events of this sort which cause construction delay and are resolved within 48 hours of the requirement of change becoming known to both the Contractor and the Contract Administrator.

D21.3 Method of Measurement

D21.3.1 Subject to Clause D21.2 hereof, accelerated completion will be measured on a unit basis per diem. The number of days to be paid for will be the total number of Working Days which the entire facility is safely reopened to vehicular and pedestrian traffic in advance of the number of Working Days specified herein for Substantial Performance in D18., with all specified Works completed acceptable to the Contract Administrator.

D21.4 Basis of Payment

- D21.4.1 Subject to Clause D21.2 hereof, accelerated completion will be paid for at the Unit Price per diem specified hereinafter for "Accelerated Completion" which price shall be payment in full for performing all operations undertaken and all other items incidental to the Work included in this Specification. Unit Price per diem = \$3,000.00.
- D21.4.2 Payment for this item is not identified on Form B: Prices, and shall not be included thereon. If accelerated completion does occur as specified herein, then payment will be made for this item as an addition to the Contract.

D22. SCHEDULED MAINTENANCE

- D22.1 The Contractor shall perform the following scheduled maintenance in the manner and within the time periods required by the Specifications:
 - (a) Reflective crack maintenance during one year warranty period as specified in CW 3250-R7:
 - (b) Maintenance of seeded areas as specified in CW 3520-R7.
- D22.2 Determination of Substantial Performance and Total Performance shall be exclusive of scheduled maintenance identified herein. All scheduled maintenance shall be completed prior to the expiration of the warranty period. Where the scheduled maintenance cannot be completed during the warranty period, the warranty period shall be extended for such period of time as it takes the Contractor to complete the scheduled maintenance.

CONTROL OF WORK

D23. JOB MEETINGS

- D23.1 Regular weekly job meetings will be held at the Site. These meetings shall be attended by a minimum of one representative of the Contract Administrator, one representative of the City and one representative of the Contractor. Each representative shall be a responsible person capable of expressing the position of the Contract Administrator, the City and the Contractor respectively on any matter discussed at the meeting including the Work schedule and the need to make any revisions to the Work schedule. The progress of the Work will be reviewed at each of these meetings.
- D23.2 The Contract Administrator reserves the right to cancel any job meeting or call additional job meetings whenever he deems it necessary.

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

D24.1 Further to C6.24, 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).

WARRANTY

D25. WARRANTY

- D25.1 Notwithstanding C13.2, the warranty period shall begin on the date of Total Performance and shall expire one (1) year thereafter unless extended pursuant to C13.2.1 or C13.2.2, in which case it shall expire when provided for thereunder.
- D25.2 Notwithstanding C13.2 or D25.1, the Contract Administrator may permit the warranty period for a portion or portions of the Work to begin prior to the date of Total Performance if:
 - (a) a portion of the Work cannot be completed because of unseasonable weather or other conditions reasonably beyond the control of the Contractor but that portion does not prevent the balance of the Work from being put to its intended use.
- D25.2.1 In such case the date specified by the Contract Administrator for the warranty period to begin shall be substituted for the date specified in C13.2 for the warranty period to begin.

FORM H1: PERFORMANCE BOND

(See D10)

KNOW ALL MEN BY THESE PRESENTS THAT	

(hereinafter called the "Principal"), and	
(hereinafter called the "Surety"), are held and firm called the "Obligee"), in the sum of	y bound unto THE CITY OF WINNIPEG (hereinafte
	dollars (\$

of lawful money of Canada to be paid to the Obligee, or its successors or assigns, for the payment of which sum the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS the Principal has entered into a written contract with the Obligee for

BID OPPORTUNITY NO. 52-2009

PROVINCE OF MANITOBA – CITY OF WINNIPEG - CONCRETE REPAIRS AND ASPHALT RESURFACING, CENTURY STREET: 130 M SOUTH OF ELLICE AVENUE TO 300 M NORTH OF WELLINGTON AVENUE

which is by reference made part hereof and is hereinafter referred to as the "Contract".

NOW THEREFORE the condition of the above obligation is such that if the Principal shall:

- (a) carry out and perform the Contract and every part thereof in the manner and within the times set forth in the Contract and in accordance with the terms and conditions specified in the Contract;
- (b) perform the Work in a good, proper, workmanlike manner;
- (c) make all the payments whether to the Obligee or to others as therein provided:
- (d) in every other respect comply with the conditions and perform the covenants contained in the Contract; and
- (e) indemnify and save harmless the Obligee against and from all loss, costs, damages, claims, and demands of every description as set forth in the Contract, and from all penalties, assessments, claims, actions for loss, damages or compensation whether arising under "The Workers Compensation Act", or any other Act or otherwise arising out of or in any way connected with the performance or non-performance of the Contract or any part thereof during the term of the Contract and the warranty period provided for therein;

THEN THIS OBLIGATION SHALL BE VOID, but otherwise shall remain in full force and effect. The Surety shall not, however, be liable for a greater sum than the sum specified above.

AND IT IS HEREBY DECLARED AND AGREED that the Surety shall be liable as Principal, and that nothing of any kind or matter whatsoever that will not discharge the Principal shall operate as a discharge or release of liability of the Surety, any law or usage relating to the liability of Sureties to the contrary notwithstanding.

FORM H2: IRREVOCABLE STANDBY LETTER OF CREDIT (PERFORMANCE SECURITY) (See D10)

(Date)
The City of Winnipeg Internal Services Department Legal Services Division 185 King Street, 3rd Floor Winnipeg MB R3B 1J1
RE: PERFORMANCE SECURITY – BID OPPORTUNITY NO. 52-2009
PROVINCE OF MANITOBA – CITY OF WINNIPEG - CONCRETE REPAIRS AND ASPHALT RESURFACING, CENTURY STREET: 130 M SOUTH OF ELLICE AVENUE TO 300 M NORTH OF WELLINGTON AVENUE
Pursuant to the request of and for the account of our customer,
(Name of Contractor)
(Address of Contractor)
WE HEREBY ESTABLISH in your favour our irrevocable Standby Letter of Credit for a sum not exceeding in the aggregate
Canadian dollars
This Standby Letter of Credit may be drawn on by you at any time and from time to time upon writted demand for payment made upon us by you. It is understood that we are obligated under this Standb Letter of Credit for the payment of monies only and we hereby agree that we shall honour your demand for payment without inquiring whether you have a right as between yourself and our customer to make such demand and without recognizing any claim of our customer or objection by the customer to payment by us
The amount of this Standby Letter of Credit may be reduced from time to time only by amounts drawn upon it by you or by formal notice in writing given to us by you if you desire such reduction or are willing that it be made.
Partial drawings are permitted.
We engage with you that all demands for payment made within the terms and currency of this Standb Letter of Credit will be duly honoured if presented to us at:
(Address)
and we confirm and hereby undertake to ensure that all demands for payment will be duly honoured by us

All demands for	payment shall specificall	v state that they ar	re drawn under this	Standby Le	etter of Credit
All acilialias for	payment snan specimean	y state that they ar	ic diawii dilaci lilis	Otaliaby L	ottor or ordan

Subject to the condition hereinafter set forth, this Standby Letter of Credit will expire on

(Date)			

It is a condition of this Standby Letter of Credit that it shall be deemed to be automatically extended from year to year without amendment from the present or any future expiry date, unless at least 30 days prior to the present or any future expiry date, we notify you in writing that we elect not to consider this Standby Letter of Credit to be renewable for any additional period.

This Standby Letter of Credit may not be revoked or amended without your prior written approval.

This credit is subject to the Uniform Customs and Practice for Documentary Credit (1993 Revision), International Chamber of Commerce Publication Number 500.

(Name	e of bank or financial institution)
Per:	(Authorized Signing Officer)
Per:	
	(Authorized Signing Officer)

FORM J: SUBCONTRACTOR LIST

(See D11)

Portion of the Work	<u>Name</u>	<u>Address</u>	
SURFACE WORKS:			
Supply of Materials:			
Concrete			
Asphalt			
Base Course & Sub-Base			
Salt-tolerant Seeding			
Installation/Placement:			
Planing			
Pavement Removal/Excavation			
Base Course & Sub-Base			
Asphalt			
Concrete			
Salt-tolerant Seeding			
UNDERGROUND WORKS:			
Supply of Materials:			
Catchpits/Catchbasins			
Pipe			
Frames			
Installation/Placement:			
Pipe			
OTHERS:			
Reflective Crack Maintenance			

FORM L: DETAILED WORK SCHEDULE

(See D12)

Items of Work Stage I (a) Stage I includes the resurfacing of the east gutter lane of Century Street from 130 m south of Ellice Avenue to 300 m north of Wellington Avenue. Stage I construction works include slab and joint repairs, curb and sidewalk repairs and the placement of the bottom lift of asphalt in the centre lane of existing pavement where required; iii) Removal of existing pavement where required; iv) Concrete pavement, slab and joint work and adjustments to pavement structures and appurtneances; vi) Regrading boulevards, placing of topsoil and finished grading where required; viii) Placing of the bottom lift of asphalt. Stage II (b) Stage II includes the resurfacing of the centre lane of Century Street from 130 m south of Ellice Avenue to Wellington Avenue. Stage II construction works include slab and joint repairs and the placement of the bottom lift of asphalt. Stage II (b) Stage II includes the resurfacing of the centre lane of Century Street from 130 m south of Ellice Avenue to Wellington Avenue. Stage II construction works include slab and joint repairs and the placement of the bottom lift of asphalt in the centre lane from Ellice Avenue to Wellington Avenue. ii) Planing of asphalt overlay where required; iii) Removal of existing pavement where required; iii) Removal of existing pavement where required; iii) Removal of existing pavement of base course materials where required; iii) Removal of existing pavement where required; iii) Concrete pavement, slab and joint work and	For each item of Work, indicate the cumulative percentage proposed achieved.	to be co	mpleted	by the en	d of each	time peri	od until 1	00% com	pletion is	
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FORM L: DETAILED WORK SCHEDULE

(See D12)

For each item of Work, indicate the cumulative percentage proposed to be completed by the end of each time period until 100% completion is achieved.									
Items of Work	Time Period in Working Days								
	0–5	5–10	10–15	15–20	20–25	25–30	30–35	40-45	45-50
Stage III									
(c) Stage III includes the resurfacing of the west gutter lane of Century Street from 130 m south of Ellice Avenue to 300 m north of Wellington Avenue. Stage III construction works include slab and joint repairs, curb and sidewalk repairs and the placement of the bottom lift of asphalt in the west gutter lane from Ellice Avenue to Wellington Avenue. Stage III construction also includes the placement of asphalt surface course on all three lanes from Ellice Avenue to Wellington Avenue.									
i) Planing of asphalt overlay where required;									
ii) Removal of existing pavement where required;									
iii) Excavation and placement of base course materials where required;									
 iv) Concrete pavement, slab and joint work and adjustments to pavement structures and appurtenances; 									
v) Installation of catchpits and catchbasins;									
vi) Renewal of concrete curb and sidewalk;									
vii) Regrading boulevards, placing of topsoil and finished grading where required;									
viii) Placement of seed;									
ix) Placing of the bottom lift of asphalt;									
x) Placing of the surface course of asphalt on all three lanes;									
xi) Asphalt tie-ins and approaches.									

PART E - SPECIFICATIONS

GENERAL

E1. APPLICABLE SPECIFICATIONS AND DRAWINGS

- E1.1 These Specifications shall apply to the Work.
- E1.2 The City of Winnipeg Standard Construction Specifications in its entirety, whether or not specifically listed on Form B: Prices, shall apply to the Work.
- E1.2.1 The City of Winnipeg Standard Construction Specifications is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at http://www.winnipeg.ca/matmgt/Spec/Default.stm
- E1.2.2 The version in effect three (3) Business Days before the Submission Deadline shall apply.
- E1.2.3 Further to C2.4(d), Specifications included in the Bid Opportunity shall govern over *The City of Winnipeg Standard Construction Specifications*.
- E1.3 The following are applicable to the Work:

Drawing No.	Drawing Name/Title	<u>Drawing</u> (Original) Sheet
		<u>Size</u>
P-3298-01	Cover Sheet	A1
P-3298-02	Plan-Profile – 125 m South of Ellice Avenue to Sta. 2+90	A1
P-3298-03	Plan-Profile – Sta. 2+90 to Sta. 4+40	A1
P-3298-04	Plan-Profile – Sta. 4+40 to Sta. 5+90	A1
P-3298-05	Plan-Profile – Sta. 5+90 to Sta. 7+40	A1
P-3298-06	Plan-Profile – Sta. 7+40 to Sta. 8+90	A1
P-3298-07	Plan-Profile – Sta. 8+90 to Sta. 10+40	A1
P-3298-08	Plan-Profile – Sta. 10+40 to Sta. 11+90	A1
P-3298-09	Plan-Profile – Sta. 11+90 to Sta. 13+40	A1
P-3298-10	Plan-Profile – Sta. 13+40 to 320 m North of Wellington Avenue	A1

E2. GEOTECHNICAL REPORT

E2.1 Further to C3.1, the geotechnical report is provided to aid the Contractor's evaluation of the pavement structure and/or existing soil conditions. The geotechnical report is contained in Appendix 'A'.

E3. OFFICE FACILITIES

- E3.1 The Contractor shall supply office facilities meeting the following requirements:
 - (a) The field office shall be for the exclusive use of the Contract Administrator.
 - (b) The building shall be conveniently located near the site of the Work.
 - (c) The building shall have a minimum floor area of 20 square metres, a height of 2.4 m with two windows for cross ventilation and a door entrance with a suitable lock.
 - (d) The building shall be suitable for all weather use. It shall be equipped with an electric heater and air conditioner so that the room temperature can be maintained between either 16-18°C or 24-25°C.
 - (e) The building shall be adequately lighted with fluorescent fixtures and have a minimum of three wall outlets.
 - (f) The building shall be furnished with two desks, one drafting table, one table 3m x 1.2m, one stool, one four drawer legal size filing cabinet, and a minimum of 12 chairs.

- (g) A portable toilet shall be located near the field office building. The toilet shall have a locking door and be for the exclusive use of the Contract Administrator and other personnel from the City.
- (h) The field office building and the portable toilet shall be cleaned on a weekly basis immediately prior to each site meeting. The Contract Administrator may request additional cleaning when he deems it necessary.
- E3.2 The Contractor shall be responsible for all installation and removal costs, all operating costs, and the general maintenance of the office facilities.
- E3.3 The office facilities will be provided from the date of the commencement of the Work to the date the Contract is completed.

E4. PROTECTION OF EXISTING TREES

- E4.1 The Contractor shall take the following precautionary steps to prevent damage from construction activities to existing boulevard trees within the limits of the construction area:
 - (a) The Contractor shall not stockpile materials and soil or park vehicles and equipment on boulevards within 2 metres of trees.
 - (b) Trees identified to be at risk by the Contract Administrator are to be strapped with 25 x 100 x 2400mm wood planks, or suitably protected as approved by the Contract Administrator.
 - (c) Excavation shall be performed in a manner that minimizes damage to the existing root systems. Where possible, excavation shall be carried out such that the edge of the excavation shall be a minimum of 1.5 times the diameter (measured in inches), with the outcome read in feet, from the closest edge of the trunk. Where roots must be cut to facilitate excavation, they shall be pruned neatly at the face of excavation.
 - (d) Operation of equipment within the dripline of the trees shall be kept to the minimum required to perform the work required. Equipment shall not be parked, repaired, refuelled; construction materials shall not be stored, and earth materials shall not be stockpiled within the driplines of trees. The dripline of a tree shall be considered to be the ground surface directly beneath the tips of its outermost branches. The Contractor shall ensure that the operations do not cause flooding or sediment deposition on areas where trees are located.
 - (e) Work on-site shall be carried out in such a manner so as to minimize damage to existing tree branches. Where damage to branches does occur, they shall be neatly pruned.
- E4.2 All damage to existing trees caused by the Contractor's activities shall be repaired to the requirements and satisfaction of the Contract Administrator and the City Forester or his designate.
- E4.3 No separate measurement or payment will be made for the protection of trees.
- E4.4 Except as required in clause E4.1(c) and E4.1(e), Elm trees shall not be pruned at any time between April 1 and July 31.

E5. TRAFFIC CONTROL

- E5.1 Further to clauses 3.6 and 3.7 of CW 1130-R1:
 - (a) Where directed, the Contractor shall construct and maintain temporary asphalt ramps to alleviate vertical pavement obstructions such as manholes and planing drop-offs to the satisfaction of the Contract Administrator. Payment shall be in accordance with CW 3410.
 - (b) In accordance with the Manual of Temporary Traffic Control, the Contractor ("Agency" in the manual) shall make arrangements with the Traffic Services Section of the City of Winnipeg to place all temporary regulatory signs. The Contractor shall bear all costs associated with the placement of temporary traffic control devices by the Traffic Services Section of the City of Winnipeg in connection with the works undertaken by the Contractor.

The Contractor shall be responsible for all signage related to lane closures including advance warning and all signage required to secure his work area.

E6. TRAFFIC MANAGEMENT

- E6.1 Further to clause 3.7 of CW 1130-R1:
- During Stage I, the Contractor shall maintain traffic in the centre lane and west gutter lane of Century Street between 130 m south of Ellice Avenue and 300 m north of Wellington Avenue. The Contract Administrator may authorize the closing of the centre lane, except between the hours of 07:00-09:00 and 15:30-17:30, when completing work activity that requires two lanes such as excavating or placing concrete. Century Street shall be signed "No Stopping" at any time.
- During Stage II, the Contractor shall maintain traffic in the west and east gutter lanes of Century Street between 130 m south of Ellice Avenue and 300 m north of Wellington Avenue. The Contract Administrator may authorize the closing of either the west or east gutter lane, except between the hours of 7:00-9:00 and 15:30-17:30, when completing work activity that requires two lanes such as excavating or placing concrete. Century Street shall be signed "No Stopping" at any time.
- During Stage III, the Contractor shall maintain traffic in the east gutter lane and centre lane of Century Street between 130 m south of Ellice Avenue and 300 m north of Wellington Avenue. The Contract Administrator may authorize the closing of the centre lane, except between the hours of 07:00-09:00 and 15:30-17:30, when completing work activity that requires two lanes such as excavating or placing concrete. Century Street shall be signed "No Stopping" at any time.
- E6.1.4 Intersecting street and private approach access shall be maintained at all times.
- E6.1.5 Should the Contractor be unable to maintain pedestrian or vehicular access to a residence or a business, he shall review the planned disruption with the business or residence and the Contract Administrator, and take reasonable measures to minimize the impact. The Contractor shall provide a minimum of 24 hours notification to the affected residence or business and the Contract Administrator, prior to disruption of access.
- E6.1.6 Pedestrian and ambulance/emergency vehicle access must be maintained at all times.

E7. WATER USED BY CONTRACTOR

E7.1 Further to clause 3.7 of CW 1120-R1, the Contractor shall pay for all costs associated with obtaining water in accordance with the Waterworks By-law. Sewer charges will not be assessed for water obtained from a hydrant.

E8. INFRASTRUCTURE SIGNS

E8.1 The Contractor shall obtain infrastructure signs from the Traffic Services Sign Shop at 421 Osborne Street. The Contractor shall mount each sign securely to a rigid backing material approved by the Contract Administrator. The Contractor shall fasten each sign to a suitable support and erect and maintain one sign at each street as directed by the Contract Administrator. When the Contract Administrator considers the Work on the street complete, the Contractor shall remove and dispose of the signs and supports. No measurement for payment will be made for performing all operations herein described and all other items incidental to the work described.

E9. SUPPLY AND INSTALLATION OF PAVEMENT REPAIR FABRIC

DESCRIPTION

- E9.1 General
- E9.1.1 This specification covers the supply and installation of pavement repair fabric.
- E9.1.2 Referenced Standard Construction
 - (a) CW 3130 Supply and Installation of Geotextile Fabrics.

MATERIALS

- E9.2 Storage and Handling
- E9.2.1 Store and handle material in accordance with Section 2 of CW 3130.
- E9.3 Pavement Repair Fabric
- E9.3.1 Pavement repair fabric will be Glas Grid Road Reinforcement Mesh Style 8501 or approved equal.

CONSTRUCTION METHODS

- E9.4 General
- E9.4.1 Install pavement repair fabric at random locations as directed by the Contract Administrator.
- E9.4.2 The extent of the placement limits and quantities required will be determined by the Contract Administrator and provided 48 hours prior to the placement of asphalt.
- E9.4.3 Proceed with installation upon completion and acceptance of the asphalt levelling course.
- E9.4.4 Install fabric in accordance with the manufacturer's specifications and recommendations.
- E9.4.5 Only construction equipment required to place the final asphalt surface course will be allowed to travel on the exposed fabric.
- E9.4.6 Replace damaged or improperly placed fabric.
- Ensure temperature of the asphalt material does not exceed the melting point of the fabric.

MEASUREMENT AND PAYMENT

- E9.5 Pavement Repair Fabric
- E9.5.1 The supply and installation of the pavement repair fabric will be measured on an area basis and paid for at the Contract Unit Price per square metre for "Pavement Repair Fabric".

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

E10. RECYCLED CONCRETE BASE COURSE MATERIAL

DESCRIPTION

- E10.1 General
- E10.1.1 Further to CW 3110, this specification covers supply and placement of recycled concrete base course material for Full-Depth Partial Slab Patches (Class A, B, C, & D), miscellaneous concrete slabs and sidewalks.

E10.2 Definitions

- E10.2.1 Deleterious material are materials such as vegetation, organic material, wood, glass, plastic, metal, reinforcing steel, building rubble, brick, salvaged asphalt materials, clay, shale, and friable particles.
- E10.3 Referenced Standard Construction Specifications
 - (a) CW 3110 Sub-Grade. Sub-Base and Base Course Construction.
 - (b) CW 3230 Full-Depth Patching of Existing Pavement Slabs and Joints.
 - (c) CW 3235 Renewal of Existing Miscellaneous Concrete Slabs.
 - (d) CW 3325 Portland Cement Concrete Sidewalk.

MATERIALS

- E10.4 Recycled Concrete Base Course Material
- E10.4.1 Recycled concrete base course material when used for Full-Depth Partial Slab Patches (Class A, B, C, & D), miscellaneous concrete slabs and sidewalks will be considered equal to granular or limestone base course material specified in Section 2.2 of CW 3110.
- E10.4.2 Recycled concrete base course material will be approved by the Contract Administrator.
- E10.4.3 Recycled concrete base course material will consist of sound durable particles produced by crushing, screening, and grading of recovered concrete materials, free from soft material that would disintegrate through decay or weathering.
- E10.4.4 The recycled concrete base course material will be well graded and conform to the following grading requirements:

Recycled Concrete Base Course Material Grading Requirements

CANADIAN METRIC	PERCENT OF TOTAL DRY
SIEVE SIZE	WEIGHT PASSING EACH SIEVE
20 000	100%
5 000	40% - 70%
2 500	25% - 60%
315	8% - 25%
80	6% - 17%

- E10.4.5 Recycled concrete base course material when subjected to the abrasion test will have a loss of not more than 35% when tested in accordance with <u>grading B</u> of ASTM C131, Test for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine.
- E10.4.6 The amount of deleterious material will be limited to a maximum of two percent of the total dry weight.

CONSTRUCTION METHODS

- E10.5 Placement of Recycled Concrete Base Course Material
- E10.5.1 Place and compact recycled concrete base course material as a levelling course to a maximum thickness of 50 millimetres.
- E10.5.2 Spread materials uniformly to avoid segregation free of pockets of fine and coarse material.
- E10.5.3 Level and compact to the finished elevation. Compact to 100% Standard Proctor Density for Full-Depth Partial Slab Patches (Class A, B, C, & D) and 90% Standard Proctor Density for miscellaneous concrete slabs and sidewalks.
- E10.5.4 Maintain the finished material until the pavement or sidewalk is placed.

MEASUREMENT AND PAYMENT

- E10.6 Recycled Concrete Base Course Material
- E10.6.1 The supplying, placing and compaction of recycled concrete base course material will be measured on a volume basis and paid for at the Contract Unit Price per cubic metre for the "Supplying and Placing Base Course Material" as specified in accordance with CW 3110.
- E10.6.2 No measurement or payment will be made for material placed as a levelling course under miscellaneous concrete slabs and sidewalks where the costs are included in accordance with CW 3235 and CW 3325.
- E10.6.3 No measurement or payment will be made for materials rejected by the Contract Administrator.

E11. CLEANING OF EXISTING CATCHBASIN LEADS

DESCRIPTION

- E11.1 General
- E11.1.1 This specification covers cleaning of existing catchbasin leads prior to inspection with internal video equipment.
- E11.1.2 Referenced Standard Construction
 - (a) CW 2140-R3 Sewer and Manhole Cleaning

CONSTRUCTION METHODS

- E11.2 General
- E11.2.1 Clean existing catchbasin leads as directed by the Contract Administrator.

MEASUREMENT AND PAYMENT

- E11.3 Cleaning of Existing Catchbasin Leads
- E11.3.1 The cleaning of existing catchbasin leads will be measured on a length basis and paid for at the Contract Unit Price for "Cleaning of Existing Catchbasin Leads".

E12. SEWER INSPECTION

DESCRIPTION

- E12.1 General
- E12.1.1 This specification covers inspection of existing catchbasin leads using internal video equipment for the purposes of assessing structural and service defects.
- E12.1.2 Referenced Standard Construction
 - (a) CW 2145-R3 Sewer and Manhole Inspection

CONSTRUCTION METHODS

- E12.2 General
- E12.2.1 Inspect existing catchbasin leads as directed by the Contract Administrator.
- E12.2.2 Inspection of existing catchbasin leads shall be completed ahead of site construction activities. Once complete, the inspection recordings shall be provided to the Contract Administrator for review. The Contractor shall ensure that the inspections are completed in a timely fashion so as to allow the Contract Administrator sufficient time to review the recordings prior to the commencement of construction.

- E12.2.3 Working days shall not be charged for the time required to complete the catchbasin lead inspection.
- E12.2.4 Locations of catchbasin leads to be inspected are as indicated on the sketches in Appendix B. The Contract Administrator may abandon the inspection of leads that require replacement.

MEASUREMENT AND PAYMENT

- E12.3 Inspection of Existing Catchbasin Leads
- E12.3.1 The inspection of existing catchbasin leads will be measured on a length basis and paid for at the Contract Unit Price for "Sewer Inspection".

E13. SEEDING

- E13.1.1 Further to CW 3520-R7 and CW3540-R5, this specification covers supply and placement of topsoil and seed.
- E13.2 Topsoil Placement
- Prior to placing topsoil, all sub-grade areas except in areas within the edge of a tree canopy(or drip line) shall be scarified to a minimum depth of 50 mm. The Contractor shall use soil scarifying or pulverizing equipment suitable for the area involved and to the satisfaction of the Contract Administrator.
- E13.2.2 Topsoil selection and placement shall conform to the standards outlined in CW 3540-R5.
- E13.3 Grass Seed
- E13.3.1 For regional street boulevards, medians and interchange areas, a mixture composed of:
 - (a) Seventy percent (70%) Fults Alkaligrass (Puccinellia distans), twenty percent (20%) Audubon or Aberdeen Creeping Red Fescue and ten percent (10%) Perennial Ryegrass.
- E13.3.2 Grass Seed for regional street boulevards, medians and interchange areas shall be sown at a rate of 2.2 kilograms per 100 square metres.

APPENDIX 'A' GEOTECHNICAL REPORT

Template Version: C420081212 - RW

APPENDIX 'A' - GEOTECHNICAL REPORT

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Summary of Core Samples	2
Pavement Core Photos	5

The geotechnical report is provided to aid in the Contractor's evaluation of the existing pavement structure and/or soil conditions. The information presented is considered accurate at the locations shown on the Drawings and at the time of drilling. However, variations in pavement structure and/or soil conditions may exist between test holes and fluctuations in groundwater levels can be expected seasonally and may occur as a result of construction activities. The nature and extent of variations may not become evident until construction commences.



199 Henlow Bay Winnipeg, MB R3Y 1G4 Phone (204) 488-6999 Fax (204) 488-6947 Email info@nationaltestlabs.com www.nationaltestlabs.com

AECOM 99 Commerce Drive Winnipeg, MB R3P 0Y7 October 31, 2008

Project: Century Street

Pavement Inspection

On October 28, a total of nine core samples were recovered from the northbound lanes of Century Street, between 530 Century Street and Wellington Avenue. The purpose of the coring program was to determine the thickness of the asphalt and concrete pavement and to determine the condition of the concrete structure at this particular location of Century Street. In addition, the concrete sections of the core samples were tested for compressive strength in accordance with CSA A23.2-14C, Obtaining and Testing Drilled Cores for Compressive Strength, The depth of the core samples, as well as the condition and compressive strength of the concrete sections are shown in the attached Table 1. Granular base was observed below the pavement at locations 1, 4, 5, 6, and 8, while clay subgrade was observed below the remaining locations investigated. Photographs of the core samples were taken and are attached to this report.

Attention: Kevin Rae

We appreciate the opportunity to assist you in this project. Please call if you have any questions regarding our report.

Jason Thompson, C.E.T.

Supervisor, Materials Testing Services



TABLE 1 CENTURY STREET PAVEMENT INSPECTION 530 CENTURY STREET TO WELLINGTON AVENUE

Core		Core De	pth (mm)	Compressive	Damada	
No.	Location	Asphalt	Concrete	Strength (MPa)	Remarks	
1	west gutter lane, 2 m east from west curb, in front of 530 Century Street	70	200	42.3	Sound concrete. Granular base below pavement structure.	
2	east gutter lane, 1.5 m west from east curb, 36 m north of Ellice Avenue	100	190	41.6	65 mm of deteriorated concrete below asphalt pavement. Sound concrete for the remaining 125 mm. Clay subgrade below pavement structure.	
3	centre lane, 7 m west from east curb, 121 m north from Ellice Avenue	180	190	56.6	Sound concrete. Clay subgrade below pavement structure.	
4	west gutter lane, 9 m west from east curb, 223 m north from Ellice Avenue	140	200	49.2	Sound concrete. Granular base below pavement structure.	
5	centre lane, 7 m west from east curb, 36 m south from Sargent Avenue	120	200	37.7	Sound concrete. Granular base below pavement structure.	
6	east gutter lane, 2 m west from east curb, 78 m north from Sargent Avenue	80	190	43.8	Sound concrete. Granular base below pavement structure.	
7	centre lane, 7 m east from west curb, 180 m south from Wellington Avenue	185	190	57.6	Sound concrete. Clay subgrade below pavement structure.	
8	west gutter lane, 2 m east from west curb, 77 m south from Wellington Avenue	120	185	44.6	Sound concrete. Granular base below pavement structure.	
9	east gutter lane, 0.5 m west from east curb, 8 m south from Wellington Avenue	65	210	44.4	See note 1 below	

Note:

1. A 20 mm void space was observed between the asphalt and concrete pavement that provided water intrusion. The initial 60 mm of concrete was found to be deteriorated, the remaining 150 mm in sound condition which was tested for compressive strength. Clay subgrade below pavement structure.



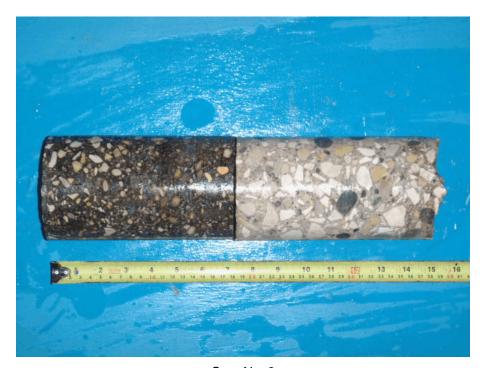


Core No. 1

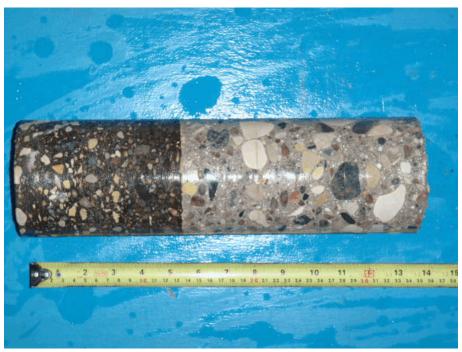


Core No. 2



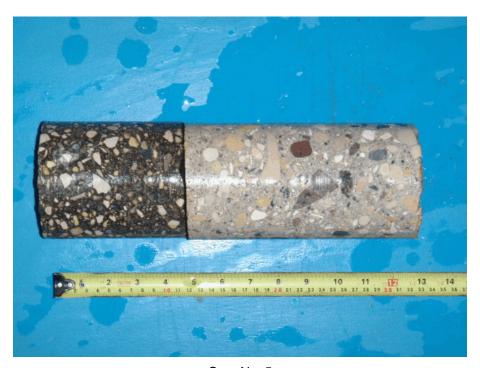


Core No. 3

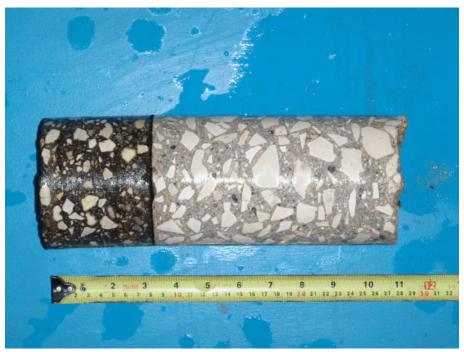


Core No. 4





Core No. 5

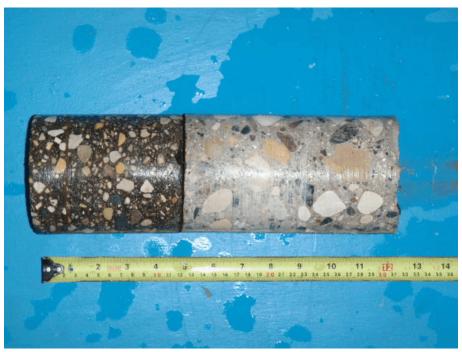


Core No. 6





Core No. 7



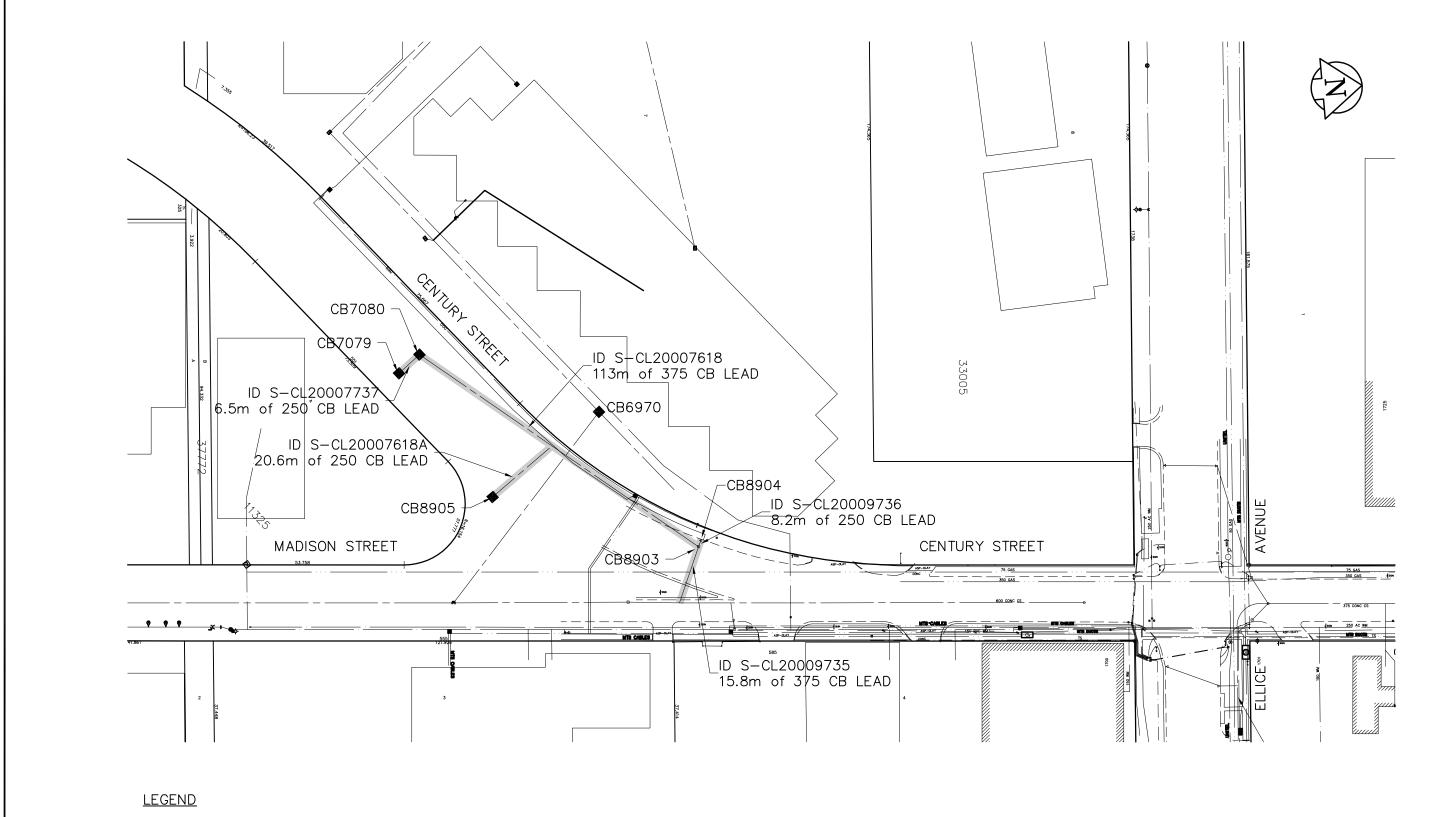
Core No. 8





Core No. 9

APPENDIX 'B' CATCHBASIN INSPECTION SKETCHES



SEWER TO BE CLEANED AND TELEVISED

METRIC

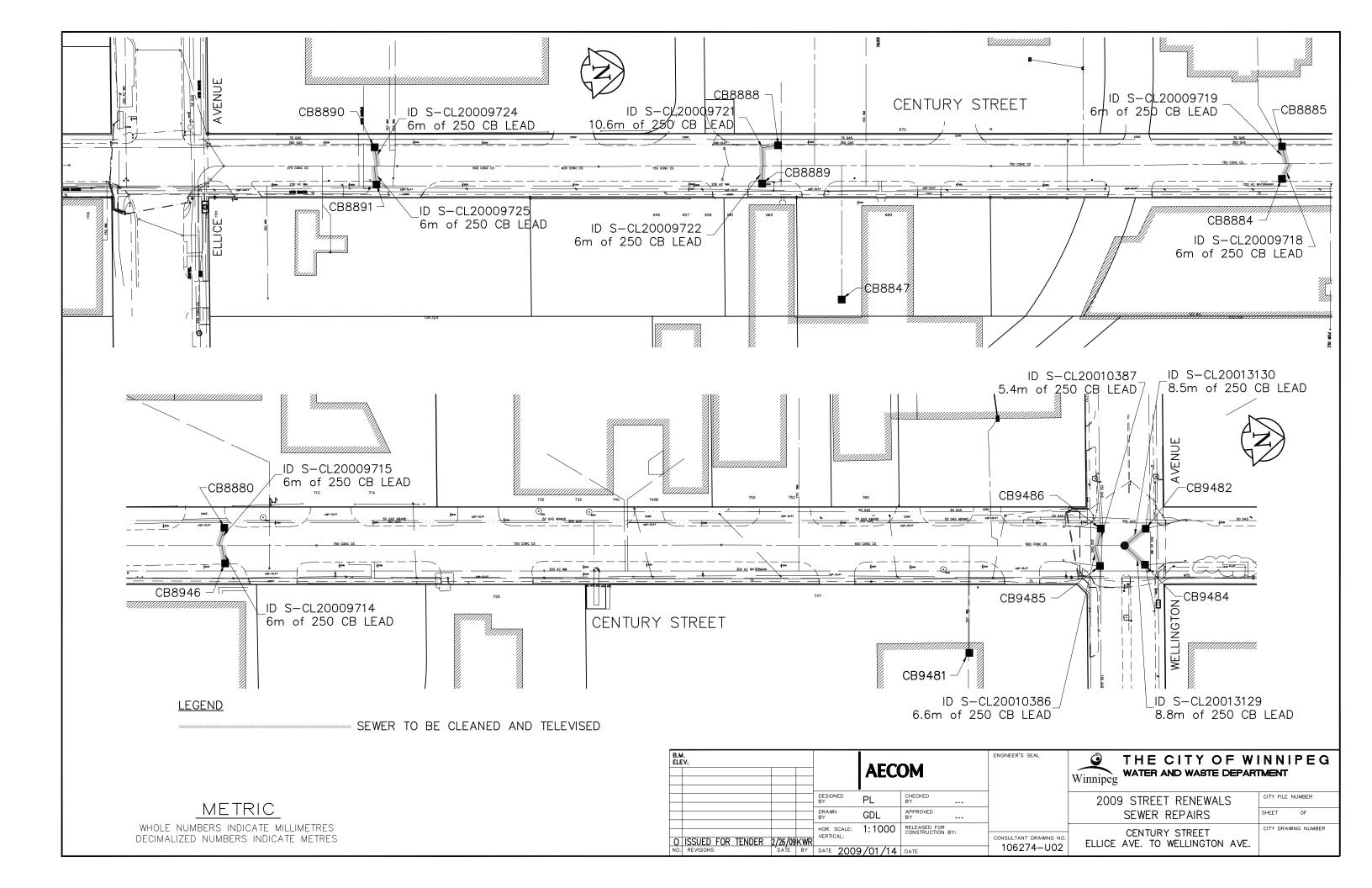
WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

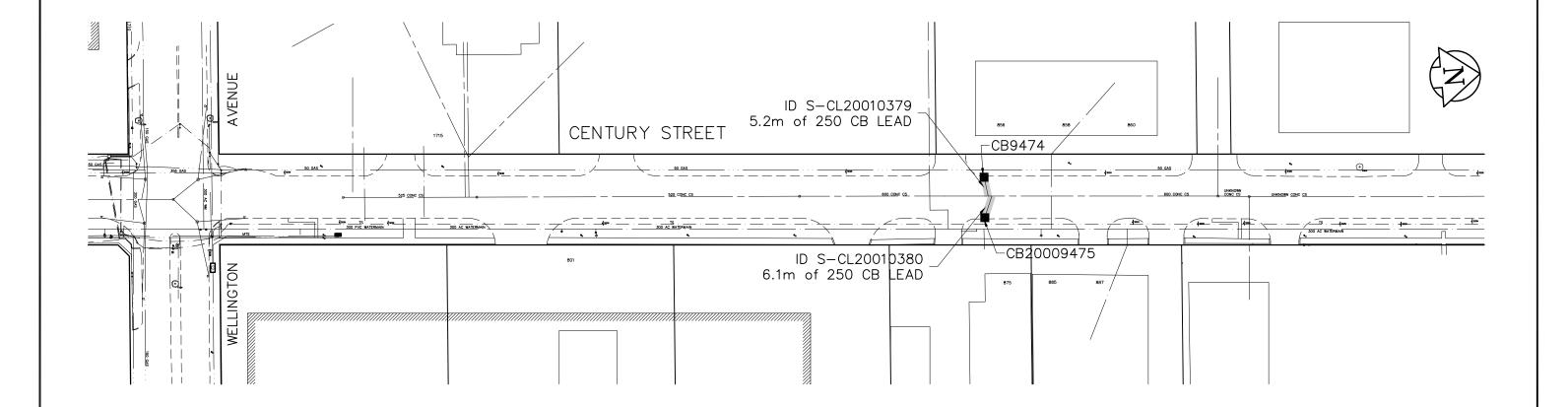
B.M. ELEV.						22.4		ENGINEER'S SEAL		
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NO.	REVISIONS		DATE	BY		01/14	DATE		106274-U01	

Winnipeg WATER AND WASTE DEPARTMENT

2009 STREET RENEWALS
SEWER REPAIRS

CENTURY STREET
MADISON ST. TO ELLICE AVE.





<u>LEGEND</u>

SEWER TO BE CLEANED AND TELEVISED

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

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					AEC	JM			V
				DESIGNED BY	- PL	CHECKED BY			
				DRAWN BY	GDL	APPROVED BY	•••		
0	ISSUED FOR TENDER	2/26/09	KWR	HOR. SCALE: VERTICAL:	1:1000	RELEASED FOR CONSTRUCTION		CONSULTANT DRAWING NO.	
NO.	. REVISIONS	DATE	BY	DATE 2009	01/14	DATE		106274-003	

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

2009 STREET RENEWALS
SEWER REPAIRS

CENTURY STREET
WELLINGTON AVE. TO 270m NORTH