



THE CITY OF WINNIPEG

BID OPPORTUNITY

BID OPPORTUNITY NO. 491-2008

**PLAYGROUND RENOVATIONS – DELLWOOD GREEN, PARC BRANCONNIER
AND BEAUCHEMIN PARK**

TABLE OF CONTENTS

PART A - BID SUBMISSION

Form A: Bid	1
Form B: Prices	3

PART B - BIDDING PROCEDURES

B1. Contract Title	1
B2. Submission Deadline	1
B3. Site Investigation	1
B4. Enquiries	1
B5. Addenda	1
B6. Substitutes	2
B7. Bid Components	3
B8. Bid	3
B9. Prices	4
B10. Qualification	4
B11. Opening of Bids and Release of Information	5
B12. Irrevocable Bid	5
B13. Withdrawal of Bids	5
B14. Evaluation of Bids	6
B15. Award of Contract	6

PART C - GENERAL CONDITIONS

C0. General Conditions	1
------------------------	---

PART D - SUPPLEMENTAL CONDITIONS

General

D1. General Conditions	1
D2. Scope of Work	1
D3. Contract Administrator	1
D4. Contractor's Supervisor	1
D5. Notices	1

Submissions

D6. Authority to Carry on Business	2
D7. Insurance	2
D8. Performance Security	2
D9. Subcontractor List	3

Schedule of Work

D10. Commencement	3
D11. Substantial Performance	3
D12. Total Performance	4
D13. Liquidated Damages	4

Control of Work

D14. Job Meetings	4
D15. Prime Contractor – The Workplace Safety and Health Act (Manitoba)	4

Measurement and Payment

D16. Payment	5
Form H1: Performance Bond	6
Form H2: Irrevocable Standby Letter of Credit	8
Form J: Subcontractor List	10

PART E - SPECIFICATIONS

General

E1. Applicable Specifications and Drawings	1
--	---

General Requirements

E2. Site Access	1
E3. Permits, Notices, Licenses, Certificates, Laws And Rules	1
E4. Damage To Existing Structures And Property	2
E5. Existing Services and Utilities	2
E6. Protection of Existing Trees	2
E7. Temporary Utilities	3
E8. Site Enclosures	3
E9. Layout	3
E10. Canadian Standards Association Guidelines	3
E11. Maintenance Kits	4

Works

E12. Removals and Site Preparation	4
E13. Timber Edging	5
E14. Safety Stone Play Surfaces	6
E15. Chain Link Fencing	7
E16. Sand Box	7
E17. Site Furniture	8
E18. Foundations	9
E19. Swings	9
E20. Independent Play Equipment	10
E21. Playstructures	12

PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

- B1.1 PLAYGROUND RENOVATIONS – DELLWOOD GREEN, PARC BRANCONNIER AND BEAUCHEMIN PARK

B2. SUBMISSION DEADLINE

- B2.1 The Submission Deadline is 4:00 pm Winnipeg time, July 9, 2008.
- 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. SITE INVESTIGATION

- B3.1 Further to C3.1, the Bidder may view the Site without making an appointment.
- B3.2 The Bidder is advised that Parc Branconnier should be viewed to understand the extent of the renovation required to the timber edging.

B4. ENQUIRIES

- B4.1 All enquiries shall be directed to the Contract Administrator identified in D3.1.
- B4.2 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.
- B4.3 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.
- B4.4 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.
- B4.5 The Bidder shall not be entitled to rely on any response or interpretation received pursuant to B4 unless that response or interpretation is provided by the Contract Administrator in writing.

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 Branch internet site at <http://www.winnipeg.ca/matmgt>.

- B5.2.2 The Bidder is responsible for ensuring that he has received all addenda and is advised to check the Materials Management Branch internet site for addenda regularly and shortly before the Submission Deadline, as may be amended by addendum.
- B5.2.3 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 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, only to the Bidder who requested approval of the substitute.
- B6.6.1 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.
- 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 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.

B7. BID COMPONENTS

- 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, to constitute a responsive Bid.
- B7.4 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.
- B7.4.1 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.
- B7.5 Bidders are advised not to include any information/literature except as requested in accordance with B7.1.
- B7.6 Bidders are advised that inclusion of terms and conditions inconsistent with the Bid Opportunity document, including the General Conditions, may result in the Bid being determined to be non-responsive.
- B7.7 Bids submitted by facsimile transmission (fax) or internet electronic mail (e-mail) will not be accepted.
- B7.8 Bids shall be submitted to:
- The City of Winnipeg
Corporate Finance Department
Materials Management Branch
185 King Street, Main Floor
Winnipeg MB R3B 1J1

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 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.
- 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 own name, it shall be signed by the Bidder;
 - (b) if the Bidder is a partnership, it shall be signed by the partner or partners who have authority to sign for the partnership;
 - (c) if the Bidder is a corporation, it shall be signed by its duly authorized officer or officers;
 - (d) if the Bidder is carrying on business under a name other than his own, it shall be signed by the registered owner of the business name, or by the registered owner's authorized officials if the owner is a partnership or a corporation.
- B8.4.1 The name and official capacity of all individuals signing Form A: Bid shall 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 C12.2.3(c), prices on Form B: Prices shall include the Manitoba Retail Sales Tax (MRST, also known as PST).
- 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.

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; 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 Branch internet site at <http://www.winnipeg.ca/matmgt>).
- 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 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.

B10.5 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 Bids will not be opened publicly.

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 Branch internet site 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 Branch internet site 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 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 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 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 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.

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 (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 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.

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 Subject to B15.2, 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.

- 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.
- B15.4 Notwithstanding C4, the City will issue a Purchase Order to the successful Bidder in lieu of the execution of a Contract.
- B15.5 The Contract, as defined in C1.1, in its entirety shall be deemed to be incorporated in and to form a part of the Purchase Order notwithstanding that it is not necessarily attached to or accompany said Purchase Order.

PART C - GENERAL CONDITIONS

C0. GENERAL CONDITIONS

- C0.1 The *General Conditions for Construction* (Revision 2006 12 15) are applicable to the Work of the Contract.
- C0.1.1 The *General Conditions for Construction* are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at <http://www.winnipeg.ca/matmgt>.
- 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 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 the renovation of playgrounds at three parks in Charleswood.

D2.2 The major components of the Work are as follows:

- (a) Removal of existing play equipment.
- (b) Supply and installation of timber edging and safety stone bases.
- (c) Supply and installation of play equipment, sandbox and benches.

D3. CONTRACT ADMINISTRATOR

D3.1 The Contract Administrator is David Wagner Associates Inc., represented by:

Laurie Lamb Wagner
Landscape Architect
4-430 River Avenue
Winnipeg, Manitoba
R3L 0C6

Telephone No. (204) 452-2426
E-Mail Address: llamb@dwla.ca

D3.2 At the pre-construction meeting, Laurie Lamb Wagner 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.

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 e-mail address identified in D3.1.

D5.3 All notices of appeal to the Chief Administrative Officer shall be sent to the following address or facsimile number:

The City of Winnipeg
Chief Administrative Officer Secretariat

Attn: Chief Administrative 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
Corporate Services Department
Legal Services Division
Attn: City Solicitor
185 King Street, 3rd Floor
Winnipeg MB R3B 1J1

Facsimile No.: (204) 947-9155

SUBMISSIONS

D6. AUTHORITY TO CARRY ON BUSINESS

- D6.1 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.

D7. INSURANCE

- D7.1 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 and David Wagner Associates Inc. 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 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;
- D7.2 Deductibles shall be borne by the Contractor.
- D7.3 The Contractor shall provide the Contract Administrator with a certificate(s) of insurance, in a form satisfactory to the City Solicitor, at least two (2) Business Days prior to the commencement of any Work but in no event later than seven (7) Calendar Days from notification of the award of Contract by Purchase Order.
- D7.4 The Contractor shall not cancel, materially alter, or cause each policy to lapse without providing at least fifteen (15) Calendar Days prior written notice to the Contract Administrator.

D8. PERFORMANCE SECURITY

- D8.1 If the Contract Price exceeds twenty-five thousand dollars (\$25,000.00), 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.

D8.1.1 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.

D8.2 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 Purchase Order and prior to the commencement of any Work on the Site.

D9. SUBCONTRACTOR LIST

D9.1 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 least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than seven (7) Calendar Days from notification of the award of Contract.

SCHEDULE OF WORK

D10. COMMENCEMENT

D10.1 The Contractor shall not commence any Work until he is in receipt of a Purchase Order from the Award Authority authorizing the commencement of the Work.

D10.2 The Contractor shall not commence any Work on the Site until:

- (a) the Contract Administrator has confirmed receipt and approval of:
 - (i) evidence of authority to carry on business specified in D6;
 - (ii) evidence of the workers compensation coverage specified in C6.15;
 - (iii) evidence of the insurance specified in D7;
 - (iv) the performance security specified in D8; and
 - (v) the Subcontractor list specified in D9.
- (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.

D10.3 The Contractor shall order the play equipment within seven (7) Working Days of receipt of the purchase order and commence the Work on the Site seven (7) Working Days prior to the scheduled installation of the equipment.

D11. SUBSTANTIAL PERFORMANCE

D11.1 The Contractor shall achieve Substantial Performance within twenty-five (25) consecutive Working Days of the commencement of the Work as specified in D10.

D11.2 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 reinspected.

- D11.3 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.

D12. TOTAL PERFORMANCE

- D12.1 The Contractor shall achieve Total Performance within thirty (30) consecutive Working Days of the commencement of the Work as specified in D10.

- 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.

D13. LIQUIDATED DAMAGES

- D13.1 If the Contractor fails to achieve Total Performance in accordance with the Contract by the day fixed herein for Total Performance, the Contractor shall pay the City seven hundred and fifty dollars (\$750) per Working Day for each and every Working Day following the day fixed herein for Total Performance during which such failure continues.

- D13.2 The amount specified for liquidated damages in D13.1 is based on a genuine pre-estimate of the City's damages in the event that the Contractor does not achieve Total Performance by the day fixed herein for same.

- D13.3 The City may reduce any payment to the Contractor by the amount of any liquidated damages assessed.

CONTROL OF WORK

D14. JOB MEETINGS

- D14.1 Regular job meetings will be held as required 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.

- D14.2 The Contract Administrator reserves the right to cancel any job meeting or call additional job meetings whenever he deems it necessary.

D15. PRIME CONTRACTOR – THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA)

- D15.1 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).

MEASUREMENT AND PAYMENT

D16. PAYMENT

- D16.1 Further to C12, effective January 1, 2007 the City may at its option pay the Contractor by direct deposit to the Contractor's banking institution.

FORM H1: PERFORMANCE BOND
(See D8)

KNOW ALL MEN BY THESE PRESENTS THAT

_____ ,
(hereinafter called the "Principal"), and

_____ ,
(hereinafter called the "Surety"), are held and firmly bound unto **THE CITY OF WINNIPEG** (hereinafter called the "Obligee"), in the sum of

_____ 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 dated the

_____ day of _____, 20____, for:

BID OPPORTUNITY NO. 491-2008

PLAYGROUND RENOVATIONS – DELLWOOD GREEN, PARC BRANCONNIER AND BEAUCHEMIN PARK

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.

IN WITNESS WHEREOF the Principal and Surety have signed and sealed this bond the

_____ day of _____, 20____.

SIGNED AND SEALED
in the presence of:

(Witness)

(Name of Principal)

Per: _____ (Seal)

Per: _____

(Name of Surety)

By: _____ (Seal)
(Attorney-in-Fact)

**FORM H2: IRREVOCABLE STANDBY LETTER OF CREDIT
(PERFORMANCE SECURITY)**
(See D8)

(Date)

The City of Winnipeg
Corporate Services Department
Legal Services Division
185 King Street, 3rd Floor
Winnipeg MB R3B 1J1

RE: PERFORMANCE SECURITY - BID OPPORTUNITY NO. 491-2008

PLAYGROUND RENOVATIONS – DELLWOOD GREEN, PARC BRANCONNIER AND
BEAUCHEMIN PARK

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 written demand for payment made upon us by you. It is understood that we are obligated under this Standby 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 Standby 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 specifically state that they are drawn under this Standby Letter of Credit.

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 of bank or financial institution)

Per: _____
(Authorized Signing Officer)

Per: _____
(Authorized Signing Officer)

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 Branch internet site at <http://www.winnipeg.ca/matmgt>.
- 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:

<u>Drawing No.</u>	<u>Drawing Name/Title</u>
L1	Dellwood Green Playground Renovation
L2	Parc Branconnier Playground Renovation
L3	Beauchemin Park Playground Renovation
D1	Timber Edging – Type I
D2	Timber Edging – Join with Existing Edging
SCD-120_A	TACHE BENCH - COMPOSITE

GENERAL REQUIREMENTS

E2. SITE ACCESS

- E2.1 Access to the Sites will be determined at the pre-construction meeting. These access areas shall be maintained and restored by the Contractor at his own expense and approved by the Contract Administrator.
- E2.2 The Contractor shall be restricted to the Site access locations and routes only so that there is a minimum of disturbance to the existing ground surface. Damage to areas beyond the marked routes shall be repaired by and at the expense of the Contractor to the satisfaction of the Contract Administrator.

E3. PERMITS, NOTICES, LICENSES, CERTIFICATES, LAWS AND RULES

- E3.1 Further to C: 6.12, the Contractor shall give all necessary notices, obtain all necessary permits and pay all fees in order that the Work may be carried out. The Contractor shall submit all plans required by any inspection authority and obtain approval of same before proceeding with the Work, and pay any cost attached to the inspection of such plans.
- E3.2 The Contractor shall comply with all laws, ordinances, rules and regulations that would relate to the Work.
- E3.3 All notices, consents, approvals, statements, authorizations, documents or other communications to the City shall be submitted to the Contract Administrator.
- E3.4 All Work shall be performed in compliance with Manitoba Workplace Safety and Health.
- E3.5 All Work shall be performed in compliance with the Manitoba Workplace Safety and Health Fall Protection guidelines.

E3.6 The Contractor and Sub-contractors must be fully aware of all Work involving hazardous materials. All Work must be performed in compliance with the Manitoba Department of Labour Manitoba Workplace Safety and Health Guidelines and all other applicable codes. The Contractor is responsible for the immediate notification to the Contract Administrator of his/her encountering of suspected hazardous material during their course of Work.

E4. DAMAGE TO EXISTING STRUCTURES AND PROPERTY

E4.1 Further to C: 17, all necessary precautions shall be exercised by the Contractor so as not to remove, disturb, or damage any existing trees, shrubs, sod, pavements, streets, roads, boulevards, poles, hydrants, water pipes, gas pipes, electrical wires, cables, conduits, sewers or other existing facilities and equipment at the Sites of the Work. For all damage incurred thereto in the performance of the Work, the Contractor shall upon instructions from and to the satisfaction of the Contract Administrator and the owners thereof, either replace and repair such damage, whichever may be deemed necessary in the opinion of, and acceptable to, the Contract Administrator and the owners thereof. The cost of which shall be borne entirely by the Contractor. The Contractor shall also indemnify and save harmless the City and David Wagner Associates Inc. from all claims made directly or indirectly against it in respect to any such damage.

E5. EXISTING SERVICES AND UTILITIES

E5.1 No responsibility will be assumed by the Owner for correctness or completeness of the Drawings, when provided, with respect to the existing utilities, pipes or other objects either underground or on the surface; the Owner shall not be liable for the incorrectness and inadequacy thereof. It shall be the responsibility of the Contractor to determine the location of all such utilities, pipes and other objects and to make good any damage done to them.

E6. PROTECTION OF EXISTING TREES

E6.1 The Contractor shall take the following precautionary steps to prevent damage from construction activities to existing trees within the limits of the construction area:

- (a) Trees identified to be at risk by the Contract Administrator are to be strapped with 25x100x2440 mm wood planks, or other suitable protection as approved by the Contract Administrator. Do not use nails or other fasteners that penetrate the tree trunk. The width and length of strapping may be reduced to suit the tree being protected as approved by the Contract Administrator.
- (b) 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) where 1 inch diameter equals 1 foot measured from the outside edge of the trunk of the tree at 6 inches above grade. Where roots must be cut to facilitate excavation, they shall be pruned neatly at the face of excavation.
- (c) Equipment shall not be operated within the drip line without written permission from the Contract Administrator. Equipment shall not be parked, repaired, refuelled; construction materials shall not be stored, and earth materials shall not be stockpiled within the drip lines of trees. The drip line of a tree shall be considered to be the entire ground surface located directly beneath the tree and radiating out to 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.
- (d) Repair, replace and maintain tree protection materials during construction until Project completion.
- (e) Carefully remove safety fencing and strapping material without harming the trees as soon as the construction and restoration Work is complete.

E6.2 Obtain approval from the Contract Administrator to excavate within 2.0 M of a tree.

- E6.3 Excavate in a manner to minimize damage to the tree root systems. Keep exposed roots in excavations and trenches moist or shaded. If stockpiling of excavated soil material is required, stockpile in areas away from the tree roots if possible.
- E6.4 Prune exposed roots with equipment such as trencher, chain saws, root cutters or other methods acceptable to the Contract Administrator in a manner that will leave a neat, clean root end.
- E6.5 Take precautions to ensure tree limbs overhanging the Work area are not damaged by construction equipment. Contact the Forestry Branch for consultation or pruning of overhanging or damaged limbs and branches and other unanticipated problems with trees during the construction of the Works.
- E6.6 All damage or pruning required to existing trees caused by the Contractor's activities shall be repaired to the requirements and satisfaction of the Contract Administrator and the Forestry Branch. Damages must be repaired by an Individual with a Manitoba Arborist Licence or by the Forestry Branch.
- E6.7 Protection of existing trees, repair of trees and pruning of damaged limbs will not be measured for payment and is to be included with the Underground or Surface Works. Removal and replacement of existing trees by the Forestry Branch deemed to have died or that are dying due to damage from carelessness during construction, will be at the Contractor's cost. The Contractor will be invoiced for the cost, or have the cost deducted from any payments owing.

E7. TEMPORARY UTILITIES

- E7.1 Further to C: 6.12, the Contractor shall make his own arrangements in connection with the temporary use of lighting, power, gas, sewer, water or other utilities, and pay all costs in connection therewith.
- E7.2 All necessary permits, fees and other like expenses as well as the cost of temporary connections to existing facilities shall be arranged and paid for by the Contractor.

E8. SITE ENCLOSURES

- E8.1 Temporary Site enclosures, if determined necessary at the pre-construction meeting, shall be erected and maintained as required for the duration of the construction period.
- E8.2 Site enclosures shall be considered incidental to the Contract Work.

E9. LAYOUT

- E9.1 The Contractor is responsible for the layout of all Work. The Contractor is to coordinate the layout of all play spaces with the play equipment supplier to ensure that CSA requirements are met.
- E9.2 The Contract Administrator shall be advised of the staking of the layout at least twenty-four (24) hours in advance in order that the layout may be inspected and adjusted as required prior to construction.

E10. CANADIAN STANDARDS ASSOCIATION GUIDELINES

- E10.1 All playground equipment supplied and the method of installation shall be in accordance with the latest edition of the "National Standard of Canada, CAN/CSA-Z614-07".

E11. MAINTENANCE KITS

- E11.1 All play equipment shall include, at no extra cost, the supply of maintenance kits. Maintenance kits shall include maintenance manuals, complete manufacturer's parts lists, touch-up paint, PVC repair paint, 10% extra of each bolt, washer and any other hardware utilized on the play equipment, and all special tools necessary for assembly and maintenance.

WORKS

E12. REMOVALS AND SITE PREPARATION

E12.1 General Description

- (a) This specification shall cover the removal of items such as play equipment and site furniture as specified on the Drawings.
- (b) This specification shall cover the excavation and preparation of play areas to receive new timber edging and safety stone base.

E12.2 Locations

- (a) Dellwood Green
 - (i) Removal of existing playstructure and sandbox.
 - (ii) Removal of existing timber edging and safety stone base from the playstructure area (not the swing area) and excavation of play areas as required for the installation of new edging and base.
 - (iii) The top layer of the existing safety stone may be salvaged and used for the bottom layer of the new stone providing it is clean and not contaminated with other materials.
- (b) Parc Branconnier
 - (i) Removal of two playstructures, one slide, three benches, sandbox and wooden bridge.
 - (ii) Removal of timber edging and asphalt from the area shown on the Drawing.
 - (iii) Removal of existing sand base and excavation of play areas as required for the installation of new base.
- (c) Beauchemin Park
 - (i) Removal of existing playstructure and bench.
 - (ii) Removal of existing edging and sand base, and excavation of play areas as required for the installation of new edging and base.

E12.3 Removals

- (a) Play equipment and benches are to be removed including any bases or foundations in their entirety. All play equipment is to be removed and legally disposed of; and, under no circumstances, is any of it to be sold or reused. Removals are to be scheduled such that no partial or unsafe structures are left unsecured. Holes shall be backfilled upon removal of equipment and benches.
- (b) At Parc Branconnier, the timber edging is to be salvaged wherever possible for use in the repair of existing timber edging.
- (c) At Parc Branconnier, the asphalt is to be removed from the area shown on the Drawing and the asphalt edges are to be saw cut to fit tight against the new timber edging.
- (d) Play areas are to be excavated to the depth required for correct depth of safety stone as shown on the Drawings.
- (e) All removed materials are to be disposed of off Site in a safe and legal manner.

- (f) Turf shall be repaired as required in accordance with City of Winnipeg Standard Specifications for Topsoil and Sodding. This shall be considered incidental to the removal Work.

E12.4 Basis of Payment

- (a) Payment for Work specified under this section shall be paid for at the Unit Price, measured on a lump sum basis for Removals and square meter basis for Excavation and Site Preparation, which price shall include all costs of removals, excavation and proper disposal.
- (b) Items of Work:
 - (i) Removals
 - (ii) Excavation and Site Preparation

E13. TIMBER EDGING

E13.1 General Description

- (a) This specification shall cover the supply, installation and repair of timber edging to contain the safety surfacing for the playground areas.

E13.2 Locations

- (a) Dellwood Green
 - (i) Timber Edging – Type I, new edging around the playstructure area and the connection of the new edging to the existing edging around the swings.
- (b) Parc Branconnier
 - (i) Timber Edging – Type II, the renovation of the existing timber edging as shown on the Drawing.
- (c) Beauchemin Park
 - (i) Timber Edging – Type I, new edging around the play area.

E13.3 Materials

- (a) Timber Edging shall be subject to inspection and approval by the Contract Administrator.
- (b) Timber Edging – Type I
 - (i) Two tier timber edging as shown on Drawing D1 and D2, with the top tier to be untreated Pedra.
 - (ii) All wood for the bottom row shall be spruce, pine or fir, No. 2 or better, no wane, bark, checking or splitting permitted. Wood shall be smooth and free of rough areas. All timbers to be 150 x 150mm with a minimum length of 1200mm.
 - (iii) For timber edging that will be in contact with the ground soil, the wood shall be pressure treated. All ends and cuts shall be treated with preservative before being secured.
 - (iv) For exposed timber edging (top tier), the wood shall be untreated Pedra.
- (c) Timber Edging – Type II
 - (i) The existing timber edging removed from the central area shall be salvaged and used to repair the existing timbers as noted on the Drawing and as required.
 - (ii) The recycled timbers shall be used to join the two existing play areas. If there is not enough salvaged material in suitable condition, the Contractor shall supply new timbers to match the existing. New timbers shall not be pressure treated.

E13.4 Methods

- (a) Layout of edging shall be as shown on the Drawings and to adequately provide safety surfacing area beneath play equipment, based on the most recent CSA safety zone requirements.

- (b) The layout of the timber edging shall be coordinated with the installation of the play equipment to ensure that the proper safety zones are created around the equipment.
- (c) Timber Edging – Type I shall be installed as per D1 and D2.
 - (i) A compacted granular base course shall be installed to a minimum 150mm depth and as required to set the timbers at the correct grade.
 - (ii) Base course timbers shall be pinned with a minimum of two (2) 19mm diameter by 900mm rebar at maximum 1200mm O.C.
 - (iii) The Pedra cap shall be screwed with two screws at each end of the timber and at alternating sides at 60cm O.C. Screws shall be Robertson #8 63.5mm (2 ½") yellow zinc plated.
 - (iv) Where the new edging is to join existing edging, the new base course shall meet the old top course at the same level. The new base course shall overlap and be fastened to the old base course. The pedra cap shall overlap the old top course and be fastened to it. The end of the pedra cap shall be trimmed at a 45° angle and sanded smooth.
- (d) Timber Edging – Type II shall be installed to match the existing edging as closely as possible. The minimum length of any replaced timbers shall be 1200mm.
- (e) All timbers shall be cut neatly for a proper fit with no spaces or gaps between. All cuts, except in the Pedra, shall be treated before being secured. Finished elevations shall ensure that all timbers are smooth, level, set plumb and spaced uniformly.
- (f) All corners and joints shall be lap joints where one layer overlaps the join of the other.
- (g) Topsoil shall be used to bury the outer edge of all treated timbers. Turf shall be repaired as required around edging in accordance with City of Winnipeg Standard Specifications for Topsoil and Sodding. This shall be considered incidental to the timber edging Work.

E13.5 Basis of Payment

- (a) Payment for Work specified under this section shall be paid for at the Unit Price, measured on a linear metre basis for Timber Edging – Type I and a lump sum basis for Timber Edging – Type II, for the Items of Work listed below, which price shall include all costs of material supply, excavation, sub-grade preparation, proper material installation and any associated Site restoration.
- (b) Items of Work
 - (i) Timber Edging – Type I
 - (ii) Timber Edging – Type II

E14. SAFETY STONE PLAY SURFACES

E14.1 General Description

- (a) This specification shall cover the supply and installation of Safety Stone for play areas.

E14.2 Materials

- (a) Safety Stone shall be 6.0mm Playground Stone, composition shall be Typical Birds Hill glacial till material, 100% clean river-washed granite conforming to the following sizes of sieve:
 - 100% passing 10mm
 - 45% passing 5mm
 - Up to 10% passing 2.5mm
 - Up to 4% passing 1.25mm
 - 0% passing 0.8mm sieve
- (b) Samples of the specified material shall be submitted for approval to the Contract Administrator at least seven (7) Calendar Days prior to ordering of the material.

E14.3 Method

- (a) Safety Stone shall be installed within the play areas to a minimum 30cm (12") depth.
- (b) At Dellwood Green, if any of the existing stone has been salvaged, it is to be spread as the bottom layer of the safety base.
- (c) The installation of the Safety Stone shall be done immediately after the play equipment has been installed.
- (d) Installation shall be done by equipment sized to suit the Work being done and the Safety Stone shall be spread by hand in the immediate vicinity of the play equipment so as not to damage the same.
- (e) The play equipment shall be swept clean as required after installation of the Safety Stone.
- (f) Any areas where material has been stockpiled shall be restored to the satisfaction of the Contract Administrator.

E14.4 Basis of Payment

- (a) Payment for Work specified under this section shall be paid for at the Unit Price, measured on a cubic metre basis, for the Items of Work listed below, which price shall include all costs of new material supply, sub-grade preparation, proper material installation and any associated Site restoration.
- (b) Items of Work
 - (i) Safety Stone Surfacing

E15. CHAIN LINK FENCING

E15.1 General Description

- (a) Further to CW 3550, this specification shall cover the supply and installation of an opening in the existing chain link fence complete with a chain link baffle as shown on the Drawings.
 - (i) The Work is to include the supply and installation of granular paving within the baffle area.

E15.2 Materials and Methods

- (a) As specified in CW 3550 and to match the existing fence in height and materials.
- (b) Replacement of fence end posts (terminal posts), where the section of existing fence has been removed, shall be considered incidental to the Work.
- (c) The area for granular paving shall be as shown on the Drawing. The area is to be excavated to receive a 150mm depth of compacted granular. The granular shall be 19mm down crushed limestone.

E15.3 Basis of Payment

- (a) Payment for Work specified under this section shall be paid for at the Unit Price, measured on a lump sum basis, for the Items of Work listed below, which price shall include all costs of new material supply, proper material installation and any associated Site restoration.
- (b) Items of Work
 - (i) Fence Opening c/w Baffle and Granular Paving

E16. SAND BOX

E16.1 General Description

- (a) This specification shall cover the installation of a Sand Box and the supply and installation of sand at Dellwood Green as shown on the Drawings.

E16.2 Materials

- (a) The sand box shall be the multi-coloured sand box, manufactured by the City of Winnipeg. It shall be supplied by the City and the Contractor is to pick it up and install it.

Contact:

Carl Woloshyn
Foreman II – City of Winnipeg
Telephone No.: (204) 986-3835.

- (b) Sand: clean sand box sand.
- (i) Samples of the specified sand shall be submitted for approval to the Contract Administrator at least seven (7) Calendar Days prior to installation

E16.3 Method

- (a) The sand box shall be picked up from the City and installed according to the Drawings.
- (b) Turf shall be repaired for 1m or as required around edges in accordance with City of Winnipeg Standard Specifications for Topsoil and Sodding and made to slope away from the sand box.
- (c) Sand Box shall be filled with sand to a minimum depth of 300mm.

E16.4 Basis of Payment

- (a) Payment for Work specified under this section shall be paid for at the Unit Price, measured on a lump sum basis, for the Items of Work listed below, which price shall include all costs of installation of the sand box and supply and installation of the sand. Site restoration work shall be considered incidental to the Work.
- (b) Items of Work:
- (i) Sand Box c/w Sand

E17. SITE FURNITURE

E17.1 General Description

- (a) This specification shall cover the supply and installation of site furniture as shown on the Drawings.

E17.2 Materials and Method

- (a) Benches
- (i) Benches: Tache style composite bench, Drawing No. SCD-120_A, Product No. 52501067, 1.8 M length (6'), manufactured by the City of Winnipeg:
- Contact:
Aaron Lennon
Supervisor of Central Repair/Manufacturing Facility
City of Winnipeg
Telephone No.: (204) 986-5505
- (ii) Benches are to be purchased from the City and installed according to Drawings and City specifications.
- (b) Tops of concrete footings are to be 200 mm below finished grade. Site furnishings are to be kept clean of any granular, concrete or other materials. Any damaged surfaces shall be touched-up to the satisfaction of the Contract Administrator.

E17.3 Basis of Payment

- (a) Payment for Work specified under this section shall be paid for at the Unit Price, measured on a per unit basis, for the Items of Work listed below, which price shall include all costs of material supply, and proper material installation. Site restoration work and required foundations shall be considered incidental to the Work.

- (b) Items of Work:
 - (i) Benches

E18. FOUNDATIONS

- E18.1 All Site furniture and playground equipment posts, bases and anchors are to be set in concrete footings or piles to ensure stability and prevent frost heaving. The current Standard Construction Specifications of the City of Winnipeg, CW 2160 – Concrete Underground Structures and Works, is to be utilized in the installation of the concrete works for all below ground components.
- E18.2 The specific concrete requirements shall be;
 - (a) Sulfate resistant, Type 50 Cement;
 - (b) 28 day compressive strength of 30 Mpa;
 - (c) maximum aggregate size of 20 mm, nominal;
 - (d) slump 80 ±20 mm;
 - (e) maximum water/cement ratio 0.49.
- E18.3 Installation
 - (a) Contractor shall notify the Contract Administrator at least 48 hours prior to installation of concrete, so that footings may be inspected in advance of concrete being poured.
 - (b) Playstructure posts shall have a minimum 300mm (12") diameter concrete footing and shall be centred in the concrete footing to provide a minimum 50mm (2") band of concrete on all sides.
 - (c) All concrete footings for play equipment shall be a minimum of 90cm depth or in accordance with manufacturer's specifications, whichever is greater.
 - (d) Work under this section is considered incidental to the installation of play equipment and Site furniture.

E19. SWINGS

- E19.1 General Description
 - (a) This specification shall cover the supply and installation of complete swing sets as specified herein.
- E19.2 Locations
 - (a) Parc Branconnier
 - (i) One (1) - two bay arch swing set
- E19.3 Product
 - (a) Landscape Structures Inc, Model #100050C and 111579C: Two Bay, Heavy Duty Arch Swing Frame, 2.4 m (8 ft.) high, complete with two (2) slash-proof rubber, enclosed infant seats and two (2) slash-proof rubber belt seat, heavy-duty chain, swing hanger clamp assemblies and bolt links; or, approved Substitute in accordance with B6.
 - (b) Colour for frame and clamps: Purple
- E19.4 Materials – Swing Frame
 - (a) Topbeam and Legs
 - (i) All topbeams and legs shall be fabricated from 127 mm (5") O.D. aluminum alloy tube (.125" wall thickness) with a baked-on polyester powdercoating. The powder coating finish shall meet or exceed ASTM standards for hardness, adhesion, impact and salt spray resistance. All fabrication cuts, drill holes and weld joints shall be

sprayed with a corrosion resistant coating prior to powdercoating. The bottom end of the posts is to be sealed with a moisture barrier;

- (b) Swing Hanger Clamp Assembly
 - (i) All swing hangers shall be fabricated from cast aluminum with powdercoat finish.

E19.5 Materials - Accessories

- (a) Swing Chain
 - (i) All swing chain shall be 4/0 straight link, galvanized steel.
- (b) Enclosed Infant (Bucket) Seats
 - (i) All enclosed infant seats shall be moulded of U.V. stabilized, high quality, rubber with a tempered stainless steel reinforcement plate insert moulded inside, rendering the seats slash proof. Infant seats shall be fully enclosed to prevent slipping out and provide extra lower back support.
- (c) Belt Seats
 - (i) All belt seats shall be moulded of U.V. stabilized, high quality, rubber with a tempered stainless steel reinforcement plate insert moulded inside, rendering the seats slash proof. The perimeter shall be moulded to form a blunt, impact absorbing edge.
- (d) Hardware
 - (i) All fasteners shall be socketed and tamperproof in design, and either carbon steel plated with zinc/nickel and iridescent chromate finish or stainless steel. Bolt links and "S" hooks shall be drop forged carbon steel, heat treated and hot dipped galvanized.

E19.6 Installation

- (a) Swings shall be installed as per the Canadian Standards Association Standard. Refer to Clause E10. For foundations refer to Clause E18.
- (b) Installation of swings shall be coordinated with associated Site development Work. Swings shall be secured and rendered unusable until safety surfacing is in place.
- (c) Swings shall be installed by factory certified installers only and to manufacturer's specifications.

E19.7 Basis of Payment

- (a) Payment for Work specified under this section shall be paid for at the unit price for the "Items of Work" listed below, which price shall include all costs of supply and installation.
- (b) Items of Work:
 - (i) Arch Swings

E20. INDEPENDENT PLAY EQUIPMENT

E20.1 General Description

- (a) This specification shall cover the supply and installation of independent play equipment as specified herein.

E20.2 Location

- (a) Dellwood Green
 - (i) Two (2) Saddle Spinners
- (b) Parc Branconnier
 - (i) One (1) Spring Toy – Type I
 - (ii) One (1) Spring Toy – Type II

E20.3 Products

- (a) Spring Toy – Type I: Landscape Structures Inc., "T-Rex", product #100124B, straddle style rider, direct bury; or, approved Substitute in accordance with B6.
 - (i) Colour to be green with tan accents.
- (b) Spring Toy – Type II: Landscape Structures Inc., "RhinoDino", product #100123B, enclosed rider, direct bury; or, approved Substitute in accordance with B6.
 - (i) Colour to be green with tan accents.
- (c) Saddle Spinner: Landscape Structures Inc., product #152179A, direct bury; or, approved Substitute in accordance with B6.
 - (i) Colours to be Red and Blue, alternating colours for seats and shafts.

E20.4 Materials – Spring Toys

- (a) Panels / Body / Seat
 - (i) All Spring Toy Styles shall be fabricated from compressed or rotationally moulded, high-density polyethylene with U.V. stabilizers and all edges chamfered. Colours and graphics are to be moulded-in.
- (b) Spring / Mount
 - (i) The spring toys shall be mounted on a pinch-proof, coil spring assembly. The coil spring and mount shall be manufactured from a tempered alloy steel, galvanized and coated with a baked-on polyester powder coating. The powder coating finish shall meet or exceed ASTM standards for hardness, adhesion, impact and salt spray resistance. All fabrication cuts, drill holes and weld joints shall be sprayed with a corrosion resistant coating prior to powder coating.
- (c) Hardware
 - (i) All fasteners shall be tamper proof in design, requiring special tools. The fasteners shall be either carbon steel plated with zinc/nickel and iridescent chromate finish or stainless steel.

E20.5 Materials – Saddle Spinners

- (i) Shaft: weldment comprised of 2.875" O.D. RS40 galvanized steel tubing, 1,125" O.D. steel shaft, 12 Ga.HR flat steel, and 1141 or 1144 steel collar; powdercoated.
- (ii) Saddle: rotationally moulded from U.V. stabilized linear low density polyethylene.
- (iii) Rubber gasket: 50 durometer neoprene.
- (iv) All fasteners shall be tamper proof in design, requiring special tools. The fasteners shall be either carbon steel plated with zinc/nickel and iridescent chromate finish or stainless steel.

E20.6 Installation

- (a) All play equipment locations are to be approved by the Contract Administrator prior to installation.
- (b) Saddle Spinners are to be installed at two different heights.
- (c) All play equipment shall be installed as per the Canadian Standards Association Standard. Refer to Clause E10;
- (d) All play equipment shall be installed by factory certified installers only and to manufacturer's specifications. For foundations refer to Clause E18.

E20.7 Basis of Payment

- (a) Payment for Work specified under this section shall be paid for at the unit price for the "Items of Work" listed below, which price shall include all costs of supply and installation. Site restoration Work shall be considered incidental to the Work.
- (b) Items of Work:
 - (i) Spring Toy – Type I

- (ii) Spring Toy – Type II
- (iii) Saddle Spinners

E21. PLAYSTRUCTURES

E21.1 General description

- (a) This specification shall cover the supply and installation of the Playstructures as shown on the Drawings.

E21.2 Locations

- (a) Dellwood Green
 - (i) Playstructure – Type I
- (b) Parc Branconnier
 - (i) Playstructure – Type II
- (c) Beauchemin Park
 - (i) Playstructure – Type III

E21.3 Products

- (a) Type I: Landscape Structures Inc, PlayBooster System as depicted on the attached Drawings; or, approved Substitute in accordance with B6.
- (b) Type II: Landscape Structures Inc, PlayBooster System as depicted on the attached Drawings; or, approved Substitute in accordance with B6.
- (c) Type III: Landscape Structures Inc, PlayBooster System as depicted on the attached Drawings; or, approved Substitute in accordance with B6.

E21.4 Shop Drawings

- (a) Further to CW 1110-R1, shop drawings shall be submitted to the Contract Administrator for all the play equipment specified in this Section, within fourteen (14) Calendar Days of receipt of a Purchase Order.
- (b) Shop Drawings shall include, but not be limited to:
 - (i) Layout and configuration of equipment including required safety zones
 - (ii) Colours
 - (iii) Custom graphics or products

E21.5 Materials

- (a) Posts / Caps
 - (i) All posts shall be a minimum of 127 mm (5") O.D. round tubing. All posts shall be fabricated from aluminum (0.125" min. wall thickness) tubing with a baked-on TGIC polyester powder coating. The powder coating finish shall meet or exceed ASTM standards for hardness, adhesion, impact and salt spray resistance. All fabrication cuts, drill holes and weld joints shall be sprayed with a corrosion resistant coating prior to powder coating. The bottom end of the posts is to be sealed with a moisture barrier.
 - (ii) Top caps for posts shall be aluminum die cast and powder coated the same as the post colour. All caps shall be factory installed and secured in place with tamper proof, self-sealing rivets.
- (b) Decks
 - (i) All decks shall be manufactured from vinyl-coated, perforated steel.
- (c) Deck heights, shapes and configurations shall be as shown on the Drawings; or, approved Substitute in accordance with B6.

- (i) Increments between deck heights shall be a min. 200 mm (8") and max. 300 mm (12") unless connected by a climbing component.
- (d) Clamping System
 - (i) All deck, rail and play component clamping systems shall be fabricated from zinc plated, and galvanized steel, stainless steel or aluminum, and baked-on polyester powdercoated to match post colour unless noted otherwise. Tamper proof, corrosion resistant fasteners shall be used to retain clamping systems.
- (e) Handrails, Safety Rails and Handloops
 - (i) All handrails and safety rails shall be fabricated using a minimum of 1 1/8" O.D. with a 120" wall thickness steel tubing. After all fabrication activities have occurred including end cuts, drill holes, bends and weld joints, all components shall be hot dipped galvanized and baked-on polyester powdercoated.
- (f) Hardware
 - (i) All fasteners shall be socketed and tamper proof in design, and either carbon steel plated with zinc/nickel and iridescent chromate finish or stainless steel.
- (g) Slides
 - (i) Poly slides shall be rotationally moulded from U.V. stabilized linear low density polyethylene. Colours are to be compounded not dry-blended. Slides are to have an adjustable footer to allow for contraction and expansion. Hoods are to have built-in handle.
 - (ii) Steel slides are to be 16-gauge 304 stainless steel. Hoods shall be rotationally moulded from U.V. stabilized linear low density polyethylene with built-in handle.
- (h) Cable Components
 - (i) Space Cable nets shall be fully assembled and made of six-stranded and tempered Corocord-rope (galvanized steel cable). The galvanized steel wire cores of the six strands are to be heated and covered with UV-stable polyamide nylon;
 - (ii) Chains shall be steel 3/16" straight link chain, 800 lb. working load limit.

E21.6 Play Components – Playstructure - Type I:

- (a) The following play components are to be included on the Playstructure; or, approved Substitute in accordance with B6:
 - (i) one (1) Steel Slide, 40" deck, straight slide with poly hood;
 - (ii) one (1) Slidewinder Slide, 72" deck, poly sectional slide;
 - (iii) one (1) Star Seeker Cable Climber to 72" deck;
 - (iv) one (1) Starburst Climber to 64" deck;
 - (v) one (1) ABC Climber, inclined plank to 40" deck;
 - (vi) one (1) Catwalk Climber, inclined plank between decks;
 - (vii) one (1) Deck Link for 24" deck height difference;
 - (viii) one (1) Step Deck;
 - (ix) one (1) Driver Panel, permalene panel with graphics c/w one (1) Steering Wheel;
 - (x) one (1) Ring-a-Bell Panel, musical play panel;
 - (xi) two (2) Loop Seats, ground level.
- (b) The playstructure shall have grab bars, kickplates and handhold panels as shown on the Drawings and as required to meet the CAN/CSA -Z614-07.

E21.7 Play Components – Playstructure - Type II:

- (a) The following play components are to be included on the Playstructure; or, approved Substitute in accordance with B6:
 - (i) one (1) Steel Slide, 56" deck, straight slide with poly hood;
 - (ii) one (1) Double Swoosh Poly Slide, 72" deck;
 - (iii) one (1) Star Seeker Cable Climber to 72" deck;

- (iv) one (1) Sky Rail Climber to 72" deck;
 - (v) one (1) Step Ladder to 48" deck;
 - (vi) one (1) Vertical Ascent Climber, 64" deck;
 - (vii) one (1) Wiggle Ladder, 48" deck;
 - (viii) one (1) Cascade Climber, 2 sections, to 56" deck;
 - (ix) one (1) ABC Climber, inclined plank to 48" deck;
 - (x) one (1) Balcony Deck;
 - (xi) one (1) Arch Bridge, 42" length c/w permalene barriers;
 - (xii) one (1) Deck Link for 16" deck height difference;
 - (xiii) one (1) Pilot Panel, permalene panel with graphics c/w two (2) Steering Wheels;
 - (xiv) one (1) Ring-a-Bell Panel, musical play panel;
 - (xv) one (1) Store Panel, below deck.
- (b) The playstructure shall have grab bars, kickplates and handhold panels as shown on the Drawings and as required to meet the CAN/CSA -Z614-07.

E21.8 Play Components – Playstructure - Type III:

- (a) The following play components are to be included on the Playstructure; or, approved Substitute in accordance with B6:
- (i) one (1) Steel Slide, 56" Deck, straight slide with poly hood;
 - (ii) one (1) Centipede Climber, 56" deck;
 - (iii) one (1) Pipe Barrier with Steering Wheel;
 - (iv) one (1) Deck Link for 24" deck height difference;
 - (v) one (1) Deck Link for 16" deck height difference;
 - (vi) one (1) Step Ladder to 32" Deck;
 - (vii) one (1) Disk Challenge, 123" length straight bridge with 4 pods at 24" and 1 pod at 16" heights.
 - (viii) one (1) Overhead Parallel Bars / Horizontal Ladder complete with Vertical End Ladder;
 - (ix) one (1) Loop Ladder, 40"deck;
 - (x) one (1) Pod Climber with 1 pod at 30", 1 pod at 20" and two pods at 10" heights, complete with handrail and handloop;
 - (xi) one (1) Gyro Twister;
 - (xii) one (1) Vertical Pipe Climber, 6' High;
 - (xiii) one (1) Vertical Pipe Climber, 4' High;
 - (xiv) one (1) Ring Pull, overhead event.
- (b) The playstructure shall have grab bars, kickplates and handhold panels as shown on the Drawings and as required to meet the CAN/CSA -Z614-07.

E21.9 Colours

- (a) Dellwood Green (Type I)
- (i) Red – Posts, Slides;
 - (ii) Yellow – Clamps, Handholds;
 - (iii) Yellow with red graphics – Panels;
 - (iv) Blue – Metal Components, Tendertuff;
 - (v) Brown – Decks.
- (b) Parc Branconnier (Type II):
- (i) Purple – Posts;
 - (ii) Tan – Clamps, Slides and Tendertuff;
 - (iii) Green - Metal Components, Handholds;

- (iv) Green with tan graphics – Panels;
- (v) Tan and Green – Cascade Climber;
- (vi) Brown – Decks;
- (c) Beauchemin Park (Type III)
 - (i) Red – Posts, 6' Vertical Pipe Climber, Pods, Slide Hood, Tendertuff;
 - (ii) Yellow – Clamps, Handholds, 4' Vertical Pipe Climber;
 - (iii) Pine Green – Slide hood, Metal Components, Twister;
 - (iv) Green – Pods;
 - (v) Brown – Decks.

E21.10 Installation

- (a) Playstructures shall be installed as per the Canadian Standards Association Standard. All posts and other vertical items shall be true to vertical. All decks shall be level. For foundations refer to Clause E18.
- (b) Playstructures shall be installed by factory certified installers only and to manufacturer's specifications.
- (c) Installation of playstructures shall be coordinated with associated Site development Work. The playstructures shall be secured and rendered unusable until safety surface is in place.

E21.11 Basis of Payment

- (a) Payment for Work specified under this section shall be paid for at the unit price for the "Items of Work" listed below, which price shall include all costs of supply and installation:
- (b) Items of Work:
 - (i) Playstructure – Type I
 - (ii) Playstructure – Type II
 - (iii) Playstructure – Type III