

# THE CITY OF WINNIPEG

# REQUEST FOR PROPOSAL

RFP NO. 153-2017

**WESTON PARK PLAYGROUND REDEVELOPMENT** 

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#### **PART B - BIDDING PROCEDURES**

#### **B1.** CONTRACT TITLE

B1.1 WESTON PARK PLAYGROUND REDEVELOPMENT

#### **B2. SUBMISSION DEADLINE**

- B2.1 The Submission Deadline is 12:00 Noon, Winnipeg time, March 22nd, 2017.
- B2.2 Proposals 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.

#### **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 Request for Proposal, 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 If the Bidder is unsure of the meaning or intent of any provision therein, the Bidder should request clarification as to the meaning or intent prior to the Submission Deadline.
- B4.4 Responses to enquiries which, in the sole judgment of the Contract Administrator, require a correction to or a clarification of the Request for Proposal will be provided by the Contract Administrator to all Bidders by issuing an addendum.
- B4.5 Responses to enquiries which, in the sole judgment of the Contract Administrator, do not require a correction to or a clarification of the Request for Proposal will be provided by the Contract Administrator only to the Bidder who made the enquiry.
- B4.6 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.** CONFIDENTIALITY

- B5.1 Information provided to a Bidder by the City or acquired by a Bidder by way of further enquiries or through investigation is confidential. Such information shall not be used or disclosed in any way without the prior written authorization of the Contract Administrator. The use and disclosure of the confidential information shall not apply to information which:
  - (a) was known to the Bidder before receipt hereof; or
  - (b) becomes publicly known other than through the Bidder; or
  - (c) is disclosed pursuant to the requirements of a governmental authority or judicial order.
- B5.2 The Bidder shall not make any statement of fact or opinion regarding any aspect of the Request For Proposal to the media or any member of the public without the prior written authorization of the Contract Administrator.

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**ADDENDA** 

B6.

- B6.1 The Contract Administrator may, at any time prior to the Submission Deadline, issue addenda correcting errors, discrepancies or omissions in the Request for Proposal, or clarifying the meaning or intent of any provision therein.
- B6.2 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.
- B6.2.1 Addenda will be available on the Bid Opportunities page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <a href="http://www.winnipeg.ca/matmgt/">http://www.winnipeg.ca/matmgt/</a>
- B6.2.2 The Bidder is responsible for ensuring that he/she has received all addenda and is advised to check the Materials Management Division website for addenda regularly and shortly before the Submission Deadline, as may be amended by addendum.
- B6.2.3 The Bidder shall acknowledge receipt of each addendum in Paragraph 9 of Form A: Proposal. Failure to acknowledge receipt of an addendum may render a Bid non-responsive.

#### **B7.** SUBSTITUTES

- B7.1 The Work is based on the Plant, Materials and methods specified in the Request for Proposal.
- B7.2 Substitutions shall not be allowed unless application has been made to and prior approval has been granted by the Contract Administrator in writing.
- B7.3 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.
- B7.4 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.
- B7.5 The Contract Administrator, after assessing the request for approval of a substitute, may in his/her sole discretion grant approval for the use of a substitute as an "approved equal" or as an "approved alternative", or may refuse to grant approval of the substitute.
- B7.6 The Contract Administrator will provide a response in writing, at least two (2) Business Days prior to the Submission Deadline, to the Bidder who requested approval of the substitute.

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- B7.6.1 The Contract Administrator will issue an Addendum, disclosing the approved materials, equipment, methods and products to all potential Bidders. The Bidder requesting and obtaining the approval of a substitute shall be responsible for disseminating information regarding the approval to any person or persons he/she wishes to inform.
- B7.7 If the Contract Administrator approves a substitute as an "approved equal", any Bidder may use the approved equal in place of the specified item.
- B7.8 If the Contract Administrator approves a substitute as an "approved alternative", any Bidder bidding that approved alternative may base his/her Total Bid Price upon the specified item but may also indicate an alternative price based upon the approved alternative. Such alternatives will be evaluated in accordance with B20.
- B7.9 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.

#### **B8. PROPOSAL SUBMISSION**

- B8.1 The Proposal shall consist of the following components:
  - (a) Form A: Proposal;
  - (b) Form B: Prices;
- B8.2 The Proposal should also consist of the following components:
  - (a) Design Drawings in accordance with B11;
  - (b) Component Description, in accordance with B12;
- B8.3 Further to B8.1, all components of the Proposal shall be fully completed or provided in the order indicated, and submitted by the Proponent no later than the Submission Deadline, with all required entries made clearly and completely, to constitute a responsive Proposal.
- B8.4 Further to B8.2, all components of the Proposal should be fully completed or provided in the order indicated, and submitted by the Proponent no later than the Submission Deadline, with all required entries made clearly and completely, to constitute a responsive Proposal.
- B8.5 The Bid Submission may be submitted by mail, courier or personal delivery, or by facsimile transmission.
- B8.6 If the Bid Submission is submitted by mail, courier or personal delivery, it shall be enclosed and sealed in an envelope clearly marked with the Bid Opportunity number and the Bidder's name and address, and shall be submitted to:

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

- B8.6.1 Samples or other components of the Bid Submission which cannot reasonably be enclosed in the envelope may be packaged separately, but shall be clearly marked with the Bid Opportunity number, the Bidder's name and address, and an indication that the contents are part of the Bidder's Bid Submission.
- B8.7 Bidders are advised that inclusion of terms and conditions inconsistent with the Request for Proposal, will be evaluated in accordance with B20.1(a).
- B8.8 If the Bid Submission is submitted by facsimile transmission, it shall be submitted to 204 949-1178.

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- B8.8.1 The Bidder is advised that the City cannot take responsibility for the availability of the facsimile machine at any time.
- B8.8.2 Bids submitted by internet electronic mail (e-mail) will not be accepted.

#### B9. PROPOSAL (SECTION A)

- B9.1 The Bidder shall complete Form A: Proposal, making all required entries.
- B9.2 Paragraph 2 of Form A: Proposal shall be completed in accordance with the following requirements:
  - (a) if the Bidder is a sole proprietor carrying on business in his/her own name, his/her name shall be inserted;
  - (b) if the Bidder is a partnership, the full name of the partnership shall be inserted;
  - (c) if the Bidder is a corporation, the full name of the corporation shall be inserted;
  - (d) if the Bidder is carrying on business under a name other than his/her own, the business name and the name of every partner or corporation who is the owner of such business name shall be inserted.
- B9.2.1 If a Proposal is submitted jointly by two or more persons, each and all such persons shall identify themselves in accordance with B9.2.
- B9.3 In Paragraph 3 of Form A: Proposal, the Bidder shall identify a contact person who is authorized to represent the Proponent for purposes of the Proposal.
- B9.4 Paragraph 11 of Form A: Proposal shall be signed in accordance with the following requirements:
  - (a) if the Bidder is a sole proprietor carrying on business in his/her own name, it shall be signed by the Proponent;
  - (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, should be affixed;
  - (d) if the Bidder is carrying on business under a name other than its 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.
- B9.4.1 The name and official capacity of all individuals signing Form A: Proposal should be printed below such signatures.
- B9.5 If a Proposal 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 Proponents in the Proposal and the Contract, when awarded, shall be both joint and several.

#### B10. PRICES

- B10.1 The Bidder shall state a price in Canadian funds for each item of the Work identified on Form B: Prices.
- B10.2 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.
- B10.3 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.

B10.4 Payments to Non-Resident Contractors are subject to Non-Resident Withholding Tax pursuant to the Income Tax Act (Canada).

#### **B11. DESIGN DRAWINGS**

B11.1 The Bidder shall submit drawings that illustrate the proposed design and play equipment, such as plan, perspective and any other submissions to illustrate the design intent. **Included in this shall be a plan showing the proposed play equipment and associated safety zones within the proposed play area and site, drawn to scale**. Additional drawings may be requested prior to award for more detailed information.

#### **B12. COMPONENT DESCRIPTIONS**

B12.1 The Bidder shall submit component description and / or graphic or catalogue reference outlining specifications of play equipment components

#### B13. DISCLOSURE

B13.1 Various Persons provided information or services with respect to this Work. In the City's opinion, this relationship or association does not create a conflict of interest because of this full disclosure. Where applicable, additional material available as a result of contact with these Persons is listed below.

#### **B14. QUALIFICATION**

- B14.1 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.
- B14.2 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 <a href="http://www.winnipeg.ca/matmgt/debar.stm">http://www.winnipeg.ca/matmgt/debar.stm</a>
- B14.3 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).
- B14.4 Further to B14.3(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/Subcontractors has a workplace safety and health program meeting the requirements of The Workplace Safety and Health Act (Manitoba), by providing:
  - (a) a copy of their valid Manitoba COR certificate and Letter of Good Standing (or Manitoba equivalency) as issued under the Certificate of Recognition (COR) Program

- administered by the Construction Safety Association of Manitoba or by the Manitoba Heavy Construction Association's WORKSAFELY™ COR™ Program; or
- (b) a copy of their valid Manitoba SECOR™ certificate and Letter of Good Standing (or Manitoba equivalency) as issued under the Small Employer Certificate of Recognition Program (SECOR™) administered by the Construction Safety Association of Manitoba or by the Manitoba Heavy Construction Association's WORKSAFELY™ COR™ Program; or
- (c) a report or letter to that effect from an independent reviewer acceptable to the City. (A list of acceptable reviewers and the review template are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <a href="http://www.winnipeg.ca/matmgt/">http://www.winnipeg.ca/matmgt/</a>.
- B14.5 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.
- B14.6 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.

#### B15. OPENING OF PROPOSALS AND RELEASE OF INFORMATION

- B15.1 Proposals will not be opened publicly.
- B15.2 After award of Contract, the names of the Bidders and the Contract amount of the successful Bidder 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 <a href="http://www.winnipeg.ca/matmgt/">http://www.winnipeg.ca/matmgt/</a>.
- B15.1 To the extent permitted, the City shall treat all Proposal Submissions as confidential, however the Bidder is advised that any information contained in any Submission may be released if required by The Freedom of Information and Protection of Privacy Act (Manitoba), by other authorities having jurisdiction, or by law or by City policy or procedures (which may include access by members of City Council).
- B15.2 Following the award of Contract, a Bidder will be provided with information related to the evaluation of his/her submission upon written request to the Contract Administror.

#### **B16.** IRREVOCABLE OFFER

- B16.1 The Proposal(s) submitted by the Bidder shall be irrevocable for the time period specified in Paragraph 10 of Form A: Proposal.
- B16.2 The acceptance by the City of any Proposal shall not release the Proposals of the other responsive Bidders and these Bidders shall be bound by their offers on such Work until a Contract for the Work has been duly executed and the performance security furnished as herein provided, but any offer shall be deemed to have lapsed unless accepted within the time period specified in Paragraph 10 of Form A: Proposal.

#### **B17. WITHDRAWAL OF OFFERS**

- B17.1 A Bidder may withdraw his/her Proposal without penalty by giving written notice to the Manager of Materials at any time prior to the Submission Deadline.
- B17.1.1 Notwithstanding C23.3, the time and date of receipt of any notice withdrawing a Proposal shall be the time and date of receipt as determined by the Manager of Materials.

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- B17.1.2 The City will assume that any one of the contact persons named in Paragraph 3 of Form A: Proposal or the Bidder's authorized representatives named in Paragraph 10 of Form A: Proposal, and only such person, has authority to give notice of withdrawal.
- B17.1.3 If a Bidder gives notice of withdrawal prior to the Submission Deadline, the Manager of Materials will:
  - (a) retain the Proposal until after the Submission Deadline has elapsed;
  - (b) open the Proposal to identify the contact person named in Paragraph 3 of Form A: Proposal and the Bidder's authorized representatives named in Paragraph 10 of Form A: Proposal; and
  - (c) if the notice has been given by any one of the persons specified in B17.1.3(b), declare the Proposal withdrawn.
- B17.2 A Bidder who withdraws his/her Proposal after the Submission Deadline but before his/her offer has been released or has lapsed as provided for in B16.2 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.

#### **B18. INTERVIEWS**

B18.1 The Contract Administrator may, in his/her sole discretion, interview Bidders during the evaluation process.

#### **B19. NEGOTIATIONS**

- B19.1 The City reserves the right to negotiate details of the Contract with any Bidder. Bidders are advised to present their best offer, not a starting point for negotiations in their Proposal Submission.
- B19.2 The City may negotiate with the Bidders submitting, in the City's opinion, the most advantageous Proposals. The City may enter into negotiations with one or more Bidders without being obligated to offer the same opportunity to any other Bidders. Negotiations may be concurrent and will involve each Bidder individually. The City shall incur no liability to any Bidder as a result of such negotiations.
- B19.3 If, in the course of negotiations pursuant to B19.2 or otherwise, the Bidder amends or modifies a Proposal after the Submission Deadline, the City may consider the amended Proposal as an alternative to the Proposal already submitted without releasing the Bidder from the Proposal as originally submitted.

#### **B20.** EVALUATION OF PROPOSALS

- B20.1 Award of the Contract shall be based on the following bid evaluation criteria:
  - (a) compliance by the Proponent with the requirements of the Request for Proposal or acceptable deviation there from (pass/fail);
  - (b) qualifications of the Proponent and the Subcontractors, if any, pursuant to B12 (pass/fail);

  - (e) economic analysis of any approved alternative pursuant to B7.
- B20.2 Further to B20.1(a) the Award Authority may reject a Proposal as being non-responsive if the Proposal Submission is incomplete, obscure or conditional, or contains additions, deletions, alterations or other irregularities. The Award Authority may reject all or any part of any Proposal, or waive technical requirements or minor informalities or irregularities, if the interests of the City so require.

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- B20.3 Further to B20.1(b), the Award Authority shall reject any Proposal submitted by a Proponent who does not demonstrate, in his/her Proposal or in other information required to be submitted, that he/she is responsible and qualified.
- B20.4 Further to B20.1(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.
- B20.4.1 Further to B20.1(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.
- B20.4.2 Further to B20.1(c), the Award Authority may reject a Bid as being non-responsive if it exceeds the budget as shown on Form B: Prices.
- B20.4.3 The Total Bid Price shall be evaluated with a weighting of 10 points out of a total of 100 possible points. As such, the lowest Bidder shall receive the full 10 points, and the second lowest Bidder and subsequent Bidders shall be pro-rated accordingly.
- B20.5 Further to B20.1(d) Design Drawings/Component Descriptions shall be evaluated with a weighting of 90 points out of a total of 100 possible points as per **B11** and **B12**.
- B20.5.1 The Design shall be evaluated on the following criteria:
  - (a) compliance with CSA Standards (pass/fail);
  - (b) play value (maximum 44 points):
    - (i) 10 points Gross Motor Play Experience(s) (Climbing, overhead components, balancing, etc.);
    - (ii) 8 points Theme involving words, numbers and music should be the focus as per E25.4(c). Including, but not exclusive to: music panels, word or letter panels and number focused panels.
    - (iii) 6 points Imaginative/ Cognitive Play Component(s), including fine motor skills:
    - (iv) 6 points Provides opportunities for appropriate social / interpersonal interaction and co-operative play;
    - (v) 5 points Motion Component(s);
    - (vi) 5 points Sliding Component(s) min. one for age group: 2-5 year old and 5-12 year old;
    - (vii) 4 points Variety of play Components.
  - (c) Designed for inclusive play using Universal Design principles Accessible Play Area only (maximum 15 points):
    - (i) Complies with section 2.3.5 of the 2015 City of Winnipeg Accessibility Design Standards ( www.winnipeg.ca/ppd/Universal\_Design.stm )(pass/fail);
    - (ii) 6 points Layout of the play area for integration of the wheelchair accessible components to promote inclusive play;
    - (iii) 6 points Provision of tactile and auditory play experiences.
    - (iv) 3 points Layout of the play area for persons with visual impairment
  - (d) Layout/circulation (maximum 16 points):
    - (i) 7 points Orientation to provide good visibility to play area from all surrounding areas into and out of the park;
    - (ii) 3 points Flow and relationship between play area activities;
    - (iii) 3 points Layout / orientation of components on Site and in relation to park entrances and seating areas;
    - (iv) 3 points Slide orientation metal must face north or east, **NO PLASTIC SLIDES**.
  - (e) Durability and performance (maximum 15 points):

- (i) Use of durable / tamper-resistant materials, low maintenance finishes and connector systems & ease of repair / replacement of the products used with the playground area & past performance.
- B20.6 Further to B20.5.1 if Contractor states play equipment components are compliant with CSA Standards which are not, liquidated damages shall be charged as per D16 should this result in additional design and/or meeting time on the part of the Contract Administrator.

#### **B21.** AWARD OF CONTRACT

- B21.1 The City will give notice of the award of the Contract or will give notice that no award will be made.
- B21.2 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.
- B21.2.1 Without limiting the generality of B21.2, 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.
- B21.3 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 B20.
- B21.3.1 Following the award of contract, a Bidder will be provided with information related to the evaluation of his/her Bid upon written request to the Contract Administrator.
- B21.4 Notwithstanding C4, the City may issue a Purchase Order to the successful Bidder in lieu of the execution of a Contract.
- B21.5 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**

#### CO. 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 Division website at <a href="http://www.winnipeg.ca/matmgt/gen\_cond.stm">http://www.winnipeg.ca/matmgt/gen\_cond.stm</a>
- C0.2 A reference in the Request for Proposal 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 major components of the Work are as follows:
  - (a) Removals
  - (b) Excavation;
  - (c) Play equipment and Swings;
  - (d) Timber edging;
  - (e) Engineered wood fibre safety surfacing;
  - (f) Asphalt and Granular pathways;
  - (g) Asphalt Basketball half court;
  - (h) Rough grading and drainage;
  - (i) Chain link fencing and Bollards;
  - (j) Site furniture, and;
  - (k) Sodding.

#### D3. CONTRACT ADMINISTRATOR

D3.1 The Contract Administrator is:

Ian Legge Urban Designer

City of Winnipeg Urban Design Division

Planning, Property and Development Department

Telephone No. 204-986-5597 Email Address ilegge@winnipeg.ca

- D3.2 At the pre-construction meeting, the Contract Administrator will identify additional personnel representing the Contract Administrator and their respective roles and responsibilities for the Work.
- D3.3 Bids Submissions must be submitted to the address in B8.

#### D4. CONTRACTOR'S SUPERVISOR

D4.1 At the pre-construction meeting, the Contractor shall identify his/her designated supervisor and any additional personnel representing the Contractor and their respective roles and responsibilities for the Work.

#### D5. OWNERSHIP OF INFORMATION, CONFIDENTIALITY AND NON DISCLOSURE

- D5.1 The Contract, all deliverables produced or developed, and information provided to or acquired by the Contractor are the property of the City and shall not be appropriated for the Contractors own use, or for the use of any third party.
- D5.2 The Contractor shall not make any public announcements or press releases regarding the Contract, without the prior written authorization of the Contract Administrator.
- D5.3 The following shall be confidential and shall not be disclosed by the Contractor to the media or any member of the public without the prior written authorization of the Contract Administrator;
  - (a) information provided to the Contractor by the City or acquired by the Contractor during the course of the Work;
  - (b) the Contract, all deliverables produced or developed; and
  - (c) any statement of fact or opinion regarding any aspect of the Contract.
- D5.4 A Contractor who violates any provision of D5 may be determined to be in breach of Contract.

#### D6. NOTICES

- D6.1 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.
- D6.2 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the City, except as expressly otherwise required in D6.3, D6.4 or elsewhere in the Contract, shall be sent to the attention of the Contract Administrator at the facsimile number identified in D3.1.
- D6.3 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 facsimile number:

The City of Winnipeg Chief Financial Officer

Facsimile No.: 204 949-1174

D6.4 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 facsimile number:

The City of Winnipeg
Legal Services Department
Attn: Director of Legal Services
Facsimile No.: 204 947-9155

D6.5 Bid Submissions must not be submitted to the above facsimile numbers. Bids must be submitted in accordance with B8.

#### **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 should 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 <a href="http://www.winnipeg.ca/matmgt/Safety/default.stm">http://www.winnipeg.ca/matmgt/Safety/default.stm</a>

#### D9. INSURANCE

- D9.1 The Contractor shall provide and maintain the following insurance coverage:
  - (a) commercial general liability insurance, in the amount of at least two million dollars (\$2,000,000.00) inclusive, with The City of Winnipeg added as an additional insured; such liability policy to also contain a cross-liability clause, non-owned automobile liability and products and completed operations cover, to remain in place at all times during the performance of the Work;
  - (b) if applicable, Automobile Liability Insurance covering all motor vehicles, owned and operated and used or to be used by the Contractor directly or indirectly in the performance of the Work. The Limit of Liability shall not be less than \$2,000,000 inclusive for loss or damage including personal injuries and death resulting from any one accident or occurrence;
  - (c) all risks installation floater, carrying adequate limits to covers 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 Contract Administrator with a certificate(s) of insurance, referencing the Request for Proposal number and/or the Scope of Work D2 and Specifications PART E to be performed, in a form satisfactory to the City Solicitor, at least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.
- D9.4 The Contractor shall not cancel, materially alter, or cause the policy to lapse without providing at least thirty (30) Calendar Days prior written notice to the Contract Administrator.
- D9.5 The City shall have the right to alter the limits and/or coverages as reasonably required from time to time during the continuance of this agreement.

#### 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.

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- 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 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.

#### 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 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.

#### D12. DETAILED WORK SCHEDULE

- D12.1 The Contractor shall provide the Contract Administrator with a 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 C4.1 for the return of the executed Contract.
- D12.2 The detailed work schedule shall consist of the following:
  - (a) Start date;
  - (b) Removals:
  - (c) Excavation;
  - (d) Installation of timber play edging;
  - (e) Installation of play equipment;
  - (f) Installation of safety surfacing and associated drainage;
  - (g) Installation of pathways and basketball court;
  - (h) Installation of basketball standard;
  - (i) Installation of plexipave surfacing;
  - (i) Rough grading;
  - (k) Installation of chain link fencing and bollards:
  - (I) Installation of site furniture;
  - (m) Installation of soil and sod, and;
  - (n) Expected completion.
- D12.3 Other milestone dates appropriate to this project should also be included to make the Contract Administrator Aware of them.

#### **SCHEDULE OF WORK**

#### D13. COMMENCEMENT

- D13.1 The Contractor shall not commence any Work until he/she is in receipt of a Purchase Order 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 Safe Work Plan specified inD8;

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  - (iv) evidence of the insurance specified in D9;
  - (v) the performance security specified in D10;
  - (vi) the Subcontractor list specified in D11; and
  - (vii) the detailed work schedule specified in D12.
  - (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.

#### D14. SUBSTANTIAL PERFORMANCE

- D14.1 The Contractor shall achieve Substantial Performance by June 27th, 2017.
- D14.2 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.
- D14.3 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.

#### D15. TOTAL PERFORMANCE

- D15.1 The Contractor must achieve Total Performance by **June 30th**, **2017**.
- D15.2 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.
- D15.3 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.

#### D16. LIQUIDATED DAMAGES

- D16.1 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 five hundred dollars (\$500) per Working Day for each and every Working Day following the day fixed herein for Substantial Performance during which such failure continues.
- D16.2 The amount specified for liquidated damages in D16.1 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.
- D16.3 The City may reduce any payment to the Contractor by the amount of any liquidated damages assessed.

#### D17. SCHEDULED MAINTENANCE

- D17.1 The Contractor shall perform the following scheduled maintenance in the manner and within the time periods required by the Specifications:
  - (a) Topsoil and sod as specified in E24.
- D17.2 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**

#### D18. JOB MEETINGS

- D18.1 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.
- D18.2 The Contract Administrator reserves the right to cancel any job meeting or call additional job meetings whenever he/she deems it necessary.

#### D19. PRIME CONTRACTOR – THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA)

D19.1 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).

#### D20. THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA) - QUALIFICATIONS

D20.1 Further to B14.4, the Contractor/Subcontractor must, throughout the term of the Contract, have a Workplace Safety and Health Program meeting the requirements of The Workplace Safety and Health Act (Manitoba). At any time during the term of the Contract, the City may, at its sole discretion and acting reasonably, require updated proof of compliance, as set out in B14.4.

#### **MEASUREMENT AND PAYMENT**

#### D21. PAYMENT

D21.1 Further to C12, the City may at its option pay the Contractor by direct deposit to the Contractor's banking institution.

#### WARRANTY

#### D22. WARRANTY

D22.1 Warranty is as stated in C13.

# **FORM H1: PERFORMANCE BOND**

(See D10)

KNOW ALL	MEN RY	THESE	PRESE	NTS THAT

\_\_\_\_\_ day of \_\_\_\_\_ , 20\_\_\_\_ .

KNOW ALL MEN BY THESE PRESENTS THAT			
(hereinafter called the "Principal"), and			
(hereinafter called the "Surety"), are held and firmly bound unto <b>THE CITY OF WINNIPEG</b> (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 an assigns, jointly and severally, firmly by these presents.			
WHEREAS the Principal has entered into a written contract with the Obligee for			
BID OPPORTUNITY NO. 153-2017			
WESTON PARK PLAYGROUND REDEVELOPMENT			
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:			
<ul> <li>(a) carry out and perform the Contract and every part thereof in the manner and within the times so forth in the Contract and in accordance with the terms and conditions specified in the Contract;</li> <li>(b) perform the Work in a good, proper, workmanlike manner;</li> <li>(c) make all the payments whether to the Obligee or to others as therein provided;</li> <li>(d) in every other respect comply with the conditions and perform the covenants contained in the Contract; and</li> <li>(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, assessment claims, actions for loss, damages or compensation whether arising under "The Worker 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;</li> </ul>			
THEN THIS OBLIGATION SHALL BE VOID, but otherwise shall remain in full force and effect. The Sure 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 the 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 contrain notwithstanding.			
IN WITNESS WHEREOF the Principal and Surety have signed and sealed this bond the			

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SIGNED AND SEALED
in the presence of:

(Witness as to Principal if no seal)

(Name of Principal)	
Per:	(Seal)
Per:	
(Name of Surety)	
By: (Attorney-in-Fact)	(Seal)

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

(Date)	
Legal 185 Ki	y of Winnipeg Services Department ng Street, 3rd Floor eg MB R3B 1J1
RE:	PERFORMANCE SECURITY - BID OPPORTUNITY NO. 153-2017
	WESTON PARK PLAYGROUND REDEVELOPMENT
Pursua	nt to the request of and for the account of our customer,
(Name	f Contractor)
(Addres	of Contractor)
	REBY ESTABLISH in your favour our irrevocable Standby Letter of Credit for a sum not exceeding aggregate
	Canadian dollars.
demar Letter payme	randby Letter of Credit may be drawn on by you at any time and from time to time upon writter d for payment made upon us by you. It is understood that we are obligated under this Standby of Credit for the payment of monies only and we hereby agree that we shall honour your demand for the without inquiring whether you have a right as between yourself and our customer to make such d and without recognizing any claim of our customer or objection by the customer to payment by us.
	nount of this Standby Letter of Credit may be reduced from time to time only by amounts drawn upor u or by formal notice in writing given to us by you if you desire such reduction or are willing that it be
Partial	drawings are permitted.
	gage with you that all demands for payment made within the terms and currency of this Standby of Credit will be duly honoured if presented to us at:
(Addres	
and w	confirm and hereby undertake to ensure that all demands for payment will be duly honoured by us.

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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 (2007 Revision), International Chamber of Commerce Publication Number 600.

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

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### FORM J: SUBCONTRACTOR LIST

(See D11)

## WESTON PARK PLAYGROUND REDEVELOPMENT

Name	<u>Address</u>

#### **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 <a href="http://www.winnipeg.ca/matmgt/Spec/Default.stm">http://www.winnipeg.ca/matmgt/Spec/Default.stm</a>
- 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
W.20-1	Weston Park Playground – Existing Conditions and Removals
W.20-2	Weston Park Playground – Plan Overview
W.20-3	Weston Park Playground – Proposed Plan and Materials
W.20-4	Weston Park Playground – Grading
W.20-5	Weston Park Playground – Layout 1
W.20-6	Weston Park Playground – Layout 2
W.20-7	Weston Park Playground - Details
CCD 405D D2	Doct Polland
SCD-105B-R3	Post Bollard
SCD-106-R1	Waste Receptacle Expanded Metal Basket
SCD-119-R2	Waste Receptacle Side Opening Metal Slat Type
SCD-121A-R2	Tache Bench Composite With Arms
SCD-121C-R2	Tache Backless Bench Composite With Arms
SCD-122A-R1	Tache Style Wheelchair Metal Frame Picnic Table
SCD-153-R2	English Park Sign w/ Address
SCD-304	Typical Base Details for Installation of Sports Standards on Hard Surface Areas
SCD-633-R1	Chain Link Fence Entrance Baffle Detail
SCD-646-R1	Parkway Path Crushed Limestone
SCD-648	Parkway Path Asphalt
SCD-650-R1	Engineered Wood Fibre Safety Surfacing Diagram
SCD-651-R1	Single Timber Edging with Cap
SCD-651A-R3	Double Timber Edging with Cap
SCD-659-R2	Multi-Flow Drainage

#### General

#### E2. EXISTING SERVICES AND UTILITIES

E2.1 No responsibility will be assumed by the City 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 City 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.

#### E3. ACCESS TO SITE

E3.1 Access to the Site as required by the Contractor shall be provided and maintained by the Contractor at his own expense and approved by the Contract Administrator.

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E3.2 The Contractor's operations shall be limited to the minimum area necessary for undertaking the Work and he shall be responsible for all damage resulting from his Work on private property.

#### E4. PERMITS, NOTICES, LICENSES, CERTIFICATES, LAWS AND RULES

- E4.1 Further to C6.12, 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.
- E4.2 The Contractor shall comply with all laws, ordinances, rules and regulations that would relate to the Work.
- E4.3 All notices, consents, approvals, statements, authorizations, documents or other communications to the City shall be submitted to the Contract Administrator.
- E4.4 All Work shall be performed in compliance with the Manitoba Workplace Health and Safety Act.
- E4.5 All Work shall be performed in compliance with the Manitoba Workplace Health and Safety Fall Protection guidelines.
- E4.6 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 Workplace Health and Safety 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.

#### E5. DAMAGE TO EXISTING STRUCTURES, TREES AND PROPERTY

- E5.1 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 Site of the Work. For all damage incurred in the performance of the Work (either directly or indirectly), the Contractor shall either replace and repair such damage, whichever may be deemed necessary in the opinion of, and acceptable to City of Winnipeg Contract Administrator, and the cost of which shall be borne entirely by the Contractor. The Contractor shall also indemnify and save harmless the City from all claims made directly or indirectly against it in respect to any such damage.
- E5.2 The Contractor shall take the following precautionary steps to prevent damage from construction activities to existing park trees within the limits of the construction area:
  - (a) The Contractor shall not stockpile materials and soil or park vehicles and equipment within 2 metres of trees.
  - (b) Trees identified to be at risk by the Contract Administrator are to be strapped with 25x100x2400 wood planks, or suitable protection 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 drip line of the trees shall be kept to a 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 drip lines of trees. The drip line 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.

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E5.3 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/her designate.

E5.4 No separate measurement or payment will be made for the protection of trees.

#### E6. PEDESTRIAN SAFETY AND TRAFFIC MANAGEMENT

- E6.1 Further to CW 1130, the Contractor shall take such measures as are necessary to ensure safe and convenient pedestrian ingress and egress is maintained to private properties while he is Working near them. Any damage caused by the negligence of the Contractor or his Sub-Contractors to the adjacent Works or properties, shall be promptly repaired by him at his own expense, to the satisfaction of the Contract Administrator.
- E6.2 Ambulance/ Emergency vehicle access must be maintained at all times.

#### E7. PROTECTION OF THE SURVEY INFRASTRUCTURE

- E7.1 Notwithstanding clause 4 "Protection of Survey Bars" of the Standard Provisions; Current legislation, The Surveys Act, places the onus on those undertaking construction to protect the Survey Infrastructure from damage as a result of their activity.
- E7.2 Further to C:6.26 (g), at least 72 hours prior to the commencement of the On-Site Work the Contractor shall contact the City of Winnipeg, Geomatics Services Branch at 918-1360 (8:00 am to 4:00 pm Monday to Friday excluding holidays) to obtain underground clearance. Geomatics Services will locate and mark all known outline survey monuments and geodetic control monuments and confirm the physical condition of those monuments upon completion of construction, at no cost to the Contractor.
- E7.3 Where a survey post, bar or control monument lies in the line of the proposed Work and must be disturbed, the Contractor shall provide the Contract Administrator with 48 hours notice to permit referencing for future replacement, at no cost to the Contractor. Failure to provide the specified notice shall result in the Contractor paying for all costs associated with replacing or relocating the disturbed outline survey monuments and geodetic control monuments.
- E7.4 Survey monuments and geodetic control monuments at or adjacent to the Site, not in the line of the proposed construction that are damaged or disturbed by the Contractor shall be replaced or relocated by the City or its agent and all associated costs shall be paid for by the Contractor. An approximate estimate of the costs involved to restore a legal survey monument is \$1,000 per bar and \$3,000 per control monument. Contractors must ensure their landscaping and other subcontractors are aware of this clearance procedure and the potential restoration costs.
- E7.5 Where possible, amounts owed to the City in accordance with the above will be deducted from any payments to be made by the City to the Contractor.

#### E8. SITE ENCLOSURES

- E8.1 Temporary Site enclosures, as 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. SITE RESTORATION

E9.1 Total Performance of the Work shall not be attained until the Contractor has cleaned up the Site and has removed all tools, equipment, waste, debris and surplus foundation earth to the satisfaction of the Contract Administrator. Unless otherwise specified, the Contractor shall restore all areas of the Site beyond the established limit of Work, which have been disturbed by

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the Contractor's operations to as good as or better than the original condition to the satisfaction of the Contract Administrator. The Contractor shall pay all costs associated with this Work.

#### **Site Development**

#### E10. REMOVALS

- E10.1 Description
- E10.2 In addition to CW 3550, this Specification shall cover the removal & reinstallation of existing chain link fence mesh and replacement of existing posts with new posts designated for removal by the Contract Administrator. In addition, concrete filled steel bollards shall be removed.
- E10.3 The Work to be done by the Contractor under this specification shall include the furnishing of all superintendence, overhead, labour, materials, equipment, tools, supplies and all other things necessary for and incidental to satisfactory performance and completion of all Work as shown on the drawings as herein specified.
- E10.4 Construction methods
- E10.4.1 Removal of Chain Link Fence
  - (a) Before commencement of any work, the Contractor shall consult with the Contract Administrator as to which sections of chain link fence shall be removed.
  - (b) The Contractor shall carefully remove chain link fence designated for removal including any hardware and fasteners holding chain link fence to posts. The Contractor shall remove material from Site.
  - (c) Holes left by post removal where new bollards aren't situated in same location as previous bollards to be filled with sand material from old play area w/ 150mm top coat of Soil as per **E24**.

#### E10.4.2 Post and Bollard Removal

- (a) Before commencement of any work, the Contractor shall consult with the Contract Administrator as to which posts and concrete filled steel bollards shall be identified for removal.
- (b) The Contractor shall remove all fence posts designated for replacement including any concrete bases to one metre below proposed grade. The Contractor shall load and haul all waste materials from the site and dispose of these materials at dumps located by the Contractor and approved by the Contract Administrator.
- (c) The Contractor shall replace old fence posts with new posts as per CW 3550.
- (d) Holes left by bollard removal where new bollards aren't situated in same location as previous bollards to be filled with sand material from old play area w/ 150mm top coat of Soil as per **E24.**

#### E10.5 Method of Measurement

- E10.5.1 Method of Measurement shall be as follows:
  - (a) Removals shall be measured on a lineal metre basis for:
    - (i) "Remove Chain Link Fencing" on Form B: Prices.
  - (b) Removals shall be measured on a per item basis for
    - (i) "Remove Bollards" on Form B: Prices.
  - (c) No separate measurement shall be made for the removal and disposal of any hardware or concrete bases.
  - (d) No separate measurement shall be made for filling old post and bollard holes with fill material as this work is incidental.

#### E10.6 Basis of Payment

#### E10.6.1 Basis of Payment shall be as follows:

- (a) Remove Chain Link Fencing and Remove Bollards will be paid for at the Contract Unit Prices on Form B: Prices. The amount to be paid for shall be the total number of units, measured as specified herein, which price shall be for full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.
- (b) No separate payment shall be made for the removal and disposal of any hardware or concrete bases.
- (c) No separate payment shall be made for filling old post and bollard holes with fill material as this work is incidental.

#### E11. CLEARING & GRUBBING

#### E11.1 Description

- (a) Clearing & Grubbing shall include removing all small shrubs and root systems within the designated areas as identified by the Contract Administrator.
- (b) Any loose earthen material left from the clearing shall be removed from Site.
- (c) Area to be compacted after removals.
- (d) Work shall be completed in accordance with specification CW 3010 and as indicated in the drawings.

#### E11.2 Method of Measurement

- E11.2.1 Method of Measurement shall be as follows:
  - (a) Clearing and Grubbing shall be measured on a square metre basis for:
    - (i) "Clearing and Grubbing" on Form B: Prices.

#### E11.3 Basis of Payment

- E11.3.1 Basis of Payment shall be as follows:
  - (b) Clearing & Grubbing will be paid for at the Contract Unit Prices on Form B Prices. The amount to be paid for will be the total number of units measured as specified herein, which price shall be for full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.
  - (c) No separate measurement or payment will be made for the removal of loose earthen material and compaction as these items are incidental to the work herein.

#### E12. EXCAVATION AND GRADING

#### E12.1 General Description

- E12.1.1 This specification shall amend and supplement CW 3110 and CW 3170. It shall cover the excavation and legal disposal of existing sand safety surfacing, granular pathways, asphalt including all associated base material and excavation for new pathways, basketball court and new play areas, as per Drawings.
- E12.1.2 All extraneous materials are to be removed from the Site and disposed of in a safe and legal manner.
  - (a) The Work to be done by the Contractor under this specification shall include all labour, equipment and material necessary for and incidental to the satisfactory performance and completion of the Work herein specified.

#### E12.1.3 Work shall include but not be limited to the following:

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(a) Excavate, add clean fill if necessary, and grade to the limits shown on Drawings to the depths necessary to achieve finish grade for:

- New Play Area Protective Surfacing;
  - Depth of excavation varies (min. depth of engineered wood fibre to be 300mm)
- (ii) New topsoil and sod over excavated play areas;
  - Existing sand surfacing depth to be excavated is150mm with a variance +/- throughout; and
- (iii) New granular pathways;
  - Varying excavation with maximum being 225mm for total pavement structure being 225mm;
- (iv) New asphalt pathways and seating;
  - Varying excavation with maximum being 275mm for total pavement structure being 275mm; and
- (v) New asphalt Basketball court:
  - ◆ Varying excavation with average being 350mm +/- 50mm for total pavement structure being 450mm.

#### E12.2 Construction Methods

- Excavation includes the removal of items (i.e., sand, earth) as indicated on the Drawings and as directed by the Contract Administrator. Work includes the satisfactory disposal of unsuitable Site material such as clays susceptible to frost-heaving, silts, rock, rubble, rubbish and any surplus suitable Site material.
  - (a) Stockpile suitable, approved material on Site for reuse (clean topsoil, clean earth fill,) in a secure location. Remove and dispose of unsuitable material.
  - (b) Disposal of material shall be understood to mean the hauling of all unsuitable material from the Site and the unloading in a legal manner acceptable to the Contract Administrator. If arrangements are made in advance excavated material may be disposed of on Site at a location designated by the Contract Administrator.
  - (c) Contractor must coordinate with the Contract Administrator to ensure all removals have occurred.
  - (d) Excavation should be coordinated with the installation of play equipment and safety surfacing so as not to leave an open excavation area subject to ponding water.
  - (e) The depth of excavation in the play area shall directly relate to the requirements of the play equipment proposed in the Bid Submission.
  - (f) Excavate to the limits shown and as necessary to achieve finish grades as indicated on the Drawings:
    - (i) New Play Areas depth to accommodate required safety surfacing based on proposed play equipment, in accordance with Drawings and per **E14**;
    - (ii) New Granular Pathway 225 mm depth, in accordance with Drawings and per **E18**;
    - (iii) New asphalt Pathways 275mm depth, in accordance with Drawings and per **E16**;
    - (iv) New Asphalt Basketball Court 500mm depth, in accordance with Drawings and per **E16**; and
    - (v) New topsoil and sod in accordance with Drawings and per **E24**.

#### E12.2.2 Site grading shall be as per Drawings.

(a) The Contractor must ensure that the rough grading does not create tripping hazards and no areas of standing water remain. The mud grade of all excavated play areas must drain towards the subsurface drainage piping.

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- (b) If necessary the Contractor shall import clean fill to achieve grades as per Drawings.
- E12.2.3 Do not disturb adjacent items designated to remain in place.
- E12.3 Method of Measurement and Basis of Payment
- E12.3.1 Method of Measurement shall be as follows:
  - (a) Excavation shall be measured on a cubic metre basis for:
    - (i) "Excavation of asphalt, sand and granular" and;
    - (ii) "Excavation for play area" on Form B: Prices
  - (b) Grading shall be measured on a square metre basis for:
    - (i) "Rough grading" on Form B: Prices.
  - (c) No measurement will be made for Excavation and Grading of the new granular path as these items are incidental to E18.
  - (d) No measurement will be made for Excavation and Grading of the new asphalt path as these items are incidental to **E16.**
  - (e) No measurement will be made for Excavation and Grading of the new asphalt basketball court these items are incidental to **E16**.
  - (f) No measurement will be made for the import of clean fill to achieve rough grading grades as this item is incidental to the work herein.
- E12.3.2 Basis of Payment shall be as follows:
  - (a) Excavation and Grading will be paid for at the Contract Unit Prices on Form B: Prices. The amount to be paid for shall be the total number of units, measured as specified herein, which price shall be for full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.
  - (b) No payment will be made for the Excavation and Grading for the new asphalt path and seating area as these items are incidental to **E18**.
  - (c) No payment will be made for Excavation and Grading of the new asphalt path as these items are incidental to **E16**.
  - (d) No payment will be made for Excavation and Grading of the new asphalt basketball court these items are incidental to **E16**.
  - (e) No payment will be made for the import of clean fill to achieve rough grading grades as this item is incidental to the work herein.

#### E13. SUB-SURFACE DRAINAGE

- E13.1 Description
- E13.1.1 This Work shall consist of providing and placing a geocomposite prefabricated drain system to drain the play area, and connection to a catch basin, as shown on Drawings.
- E13.1.2 This Work shall include:
  - (a) Subsurface drainage to drain new playground surfacing, and small swale area as described in the plans and as per SCD-650 and SCD-659.
- E13.2 Material
- E13.2.1 Drainage pipe will be Multi-Flow or approved substitute in accordance with **B7**. Drainage pipe will 150 mm (6"). The manufacturer will size and approve all fittings for use with Multi-Flow or approved substitute drainage pipe.
- E13.2.2 The drain conduit shall be of flexible, prefabricated, rounded rectangular shaped, composite product. The drain conduit will be wrapped with a non-woven geotextile and will be a non-woven needle-punched construction and consist of long-chain polymeric fibres

composed of polypropylene, polyethylene or polyamide. The fibres will be oriented into a multi-directional stable network whereby they retain their positions relative with each other and allow the passage of water as specified. The fabric will be free of any chemical treatment or coating, which reduces permeability and will be inert to chemical commonly found in soil. The geotextile will conform to the following minimum average roll values.

Weight	ASTM D-3776	3.0 - 4.0
Tensile Strength	ASTM D-4632	100 - 130
Elongation %	ASTM D-4632	50 - 70
Puncture, lb	ASTM D-751	35 - 60
Mullen Burst, psi	ASTM D-3786	110 - 215
Trapezoidal Tear, lb	ASTM D-4533	40 - 42
Coefficient of Permeability	ASTM D-4491	.24 cm/sec
Flow Rate, gpm/ft2	ASTM D-4491	100 - 140
Permittivity, 1/sec	ASTM D-4491	1.3 – 2.0
Apparent Opening Size	ASTM D-4751	60/70 Max. US Std Sieve Opening
Seam Strength, lb/ft	ASTM D-4595	100
Fungus	ASTM G-21	No Growth

E13.2.3 The drainage core shall be made of a high-density polyethylene. The core shall be constructed using interconnected corrugated pipes that define and provide the flow channels and structural integrity of the drain. The geotextile shall function only as a filter. The core of the edge drain shall conform to the following physical property requirements.

Thickness, inches	ASTM D-1777	1.0
Flow Rate, gpm/ft*	ASTM D-4716	29
Compressive Strength, psf	ASTM D-1621 (modified sand method)	6000
Pipe Stiffness, pii	ASTM D-2412	100

<sup>\*</sup> At gradient = 0.1, pressure = 10 psi for 100 hours.

#### E13.2.4 Fittings

(a) The fittings used with the edge drain shall be of a snap together design. In no case shall any drainage product be joined without the use of the manufacturers connector designed specifically for the purpose. Cleanouts will be provided as indicated on the drawing.

#### E13.2.5 Pipe

- (a) Pipe for drain outlet laterals will be either 75 mm (3") PVC pipe meeting the requirements of ASTM D-2729 or ASTM F-949, or high-density polyethylene pipe meeting the requirements of AASHTO M252.
- (b) A rodent screen made of 0.3 inch by 0.3-inch square opening size, 0.063-inch gauge, stainless steel or galvanized, welded wire mesh shall be installed in each outlet lateral line. When using galvanized welded wire mesh, the rodent screen shall be galvanized after it has been formed to the shape and dimensions shown on the plans or specified by the Contract Administrator.

#### E13.3 Backfill for Trenches

(a) As per SCD-659

- E13.1 Methods
- E13.2 Installation of Subdrain is not to proceed until after the excavation/grading has been approved by the Contract Administrator.
- E13.3 The layout of the subdrain is to be marked on Site and approved by the Contract Administrator prior to trenching.
- E13.4 Trenches are to be excavated with a trenching machine or by hand. Locations, where the trench crosses existing utilities, irrigation pipes and all other sub-surface pipes or fixtures, are to be excavated by hand. The amount of trench excavated at any time shall not exceed the amount of drain that can be set and backfilled completely prior to the end of that Working Day. Trench width shall be as specified on the Drawings.
- E13.5 The bottom surface of the trench is to be free of loose particles and is to have the slope minimum of 1.5%. Over excavation in the bottom of the trench shall be backfilled to the proper grade with the excavated material or sand prior to the placement of the drain. Where sand or excavated material is used to fill the trench to the proper elevation that material shall be compacted to 95% of standard proctor density using appropriate means. Where the trench is to pass through an area of existing turf, backfill shall be removed from the Site daily and disposed of legally.
- E13.6 Multi-Flow drain pipe is to be placed in the trench using a Multi-Flow centering device. Trench is to be backfilled with coarse sand to the surface. Backfill shall be placed in maximum of 45 cm loose lifts. Backfill is to be lightly tamped into place and watered.
- E13.7 Subdrain within the play area is to be laid on the prepared surface to facilitate cross movement of water. Subdrain shall be installed below geotextile and in conformance with details provided.
  - (a) Play area to be graded to drain towards subdrain. This subdrain is to be used in conjunction with the appropriate wood fibre drainage layer to bring excess water out of the play area.
  - (b) Swale area to be graded to drain towards subdrain and longitudinally towards the asphalt pathways as indicated on the Grading Plan.
- E13.8 Fittings for the drain will be installed in accordance with the manufacturer's recommendations and Specification.
- E13.9 Any damaged edge drain or outlet lateral will be replaced or repaired by splicing in an undamaged section of drain at the Contractor's expense. The repair must be in accordance with the manufacturer's specification and to the satisfaction of the Contract Administrator.
- E13.10 Contractor is to protect subdrain from excessive weight during the duration of construction and to repair and make good any pipe collapsed prior to acceptance.
- E13.11 The Contractor shall be responsible for restoration of any surfaces damaged during the Work under this section.
- E13.12 The top of the trench is to be finished as shown on the Drawings.
- E13.13 The sand backfill is to be installed to meet existing grades and seeded with grass seed where the trench is located in existing turf.
- E13.14 The Multi-Flow drain system is to be connected to a solid pipe in accordance with manufacturer's recommendations and the pipe is then connected to the catch basin.
- E13.15 Connecting to existing catch basin will be done as outlined in CW 2130 item 3.15 "Connecting New Sewers an Catch Basin Leads to Existing Manholes, Catch Basins and Catch Pits".
- E13.16 Trenches are to be inspected by the Contract Administrator prior to backfilling.

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#### E13.17 Method of Measurement and Basis of Payment

- E13.17.1 Method of Measurement shall be as follows:
  - (a) Sub-surface Drainage shall be measured on a lineal metre basis for:
    - (i) "Drainage Piping" on Form B: Prices.
- E13.17.2 Basis of Payment shall be as follows:
  - (a) Sub-surface Drainage will be paid for at the Contract Unit Prices on Form B: Prices. The amount to be paid for shall be the total number of units, measured as specified herein, which price shall be for full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.

#### E14. PROTECTIVE SURFACING

- E14.1 General Description
- E14.2 This specification shall cover the supply and install of wood fibre safety surfacing, including granular drainage layer.
- E14.3 Wood Fibre Surfacing
- E14.3.1 Materials
  - (a) Wood Fibre product shall be either Zeager Woodcarpet system 1 or Fibar FibarSystem **200** or substitute in accordance with **B7**.
    - Only the Fibar System 200 with granular drainage layer will be acceptable, not the drainage strips as used in fibar system 300.
  - (b) Wood Fibre surfacing shall be supplied by an authorized distributor and delivery slips and/or a warranty certificate from an authorized supplier are to be submitted to the Contract Administrator prior to installation.
    - (i) Contact for Woodcarpet:

Zeagar Bros. Inc.

4000 East Harrisburg Pike ·

Middletown, PA 17057

USA

Ph: (1-888) 346-8524 or (717) 944-7481 ·

Fax (717) 944-7681

sales@zeager.com

(ii) Contact for FibarSystem 200:

The Fibar Group LLC 80 Business Park Drive, Suite 300 Armonk, NY 10504-1705

USA

Ph: (800) 342-2721 Fax: (914) 273-8659

info@FibarPlaygrounds.com

- (c) If substitute to Zeagar Woodcarpet or Fibar FibarSystem 200 is proposed, it must meet the following conditions:
  - (i) materials must be IPEMA certified Engineered Wood Fiber

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- (ii) material must consist of random-sized, clean, engineered hardwood chips. Standard wood chips or bark mulch are not acceptable.
- (iii) materials must meet or exceed ASTM F1292 standards for impact attenuation
- (iv) materials must be certified by the CSA and approved for playground use
- (v) materials must comply with ASTM F1951 for accessibility under the Canadians with Disabilities Act
- (vi) materials must be covered by \$10,000,000.00 product liability insurance as well as provide a minimum 10 year warranty against loss of resiliency
- (d) Wood Fibre surfacing shall include wood fibre, filter cloth, granular drainage layer and mats under swings and ends of slides.
- (e) Mats are to be installed directly on top of the geotextile fabric and secured in place with two (2) duckbill anchors per mat.

#### E14.3.2 Construction Methods

- (a) Wood Fibre shall be installed within the play areas, as defined by the timber edging to a minimum depth of 300 mm (after compaction). In the case where proposed play equipment includes a maximum fall height greater than 2.4m (8'), depth of material to directly correspond to maximum fall height of play equipment in accordance with manufacturer's specifications.
- (b) The installation of the Wood Fibre shall be done immediately after the play equipment has been installed.
- (c) Installation of entire system, including fibre, filter cloth, subsurface drainage and mats under swings and slide ends shall be done according manufacturer's instructions. Adequate drainage within play equipment area must be ensured as per same.
- (d) Mud grade of play area shall be graded to drain to one edge of the play area, and area cleared of any debris which inhibit proper drainage or installation of products. Drainage pipe shall be installed from the subsurface drainage system within the play area to run outside of the play area perimeter to drain into an existing catch basin. The cost of this shall be included in the price for the wood fibre supply and installation.
- (e) Filter fabric must be cut and fit around playground equipment footings and overlap seams by 300mm.
- (f) Installation shall be done by equipment sized to suit the Work being done and the Wood Fibre shall be spread by hand as necessary in the immediate vicinity of the play equipment so as not to damage same. The play equipment shall be swept clean to the satisfaction of the Contract Administrator after installation of the Wood Fibre.

#### E14.4 Method of Measurement and Basis of Payment

- E14.4.1 Method of Measurement shall be as follows:
  - (a) Protective Surfacing will be measured on a square metre basis for:
    - (i) "Engineered Wood Fibre Safety Surfacing"on Form B: Prices.
- E14.4.2 Basis of Payment shall be as follows:
  - (a) Protective Surfacing will be paid for at the Contract Unit Prices. The amount to be paid for shall be the total number of units, as indicated on Form B: Prices. This price shall be full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.

#### E15. TIMBER EDGING

- E15.1 General Description
- E15.1.1 The Contractor shall furnish all labour, materials, equipment and services necessary to complete the Work according to the drawings and specifications.

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E15.1.2 This specification shall cover the supply and installation of one, two and three tier timber edging to contain the wood fibre safety surfacing in the new play area, timber planter and earthen areas adjacent to the wading pool as per Drawings.

- E15.2 Materials and Method
- E15.2.1 Cap and screws shall be as per SCD-651 and SCD-651A.
- All wood for the bottom rows shall be pressure treated 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 140 x 140mm with a minimum length of 1200mm. All ends and cuts shall be treated with preservative before being secured. Use longest lengths possible.
- Edging material shall be cut neatly for a proper fit with no spaces or gaps between. Finished elevations shall ensure that all edging material is smooth, level, set plumb and spaced uniformly. Joints to be butt joints. Joints in straight runs are to be lapped over timber by a minimum of 600mm.
- E15.2.4 Turf shall be repaired as required around edging in accordance with City of Winnipeg Standard Specifications for Topsoil and Sodding.
- E15.3 Method of Measurement and Basis of Payment
- E15.3.1 Method of Measurement shall be as follows:
  - (a) Timber Edging will be measured on a linear metre basis for:
    - (i) "1 tier timber edging",
    - (ii) "2 tier timber edging", and;
    - (iii) "3 tier timber edging" on Form B: Prices.
- E15.3.2 Basis of Payment shall be as follows:
  - (a) Timber edging will be paid for at the Contract Unit Prices. The amount to be paid for shall be the total number of units, as indicated on Form B: Prices. This price shall be full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.

#### E16. ASPHALT

- E16.1 This specification shall cover the supply and installation of an asphalt pathway and half-court basketball court.
- E16.2 Excavation
- E16.2.1 Description
  - (a) This specification shall be done in accordance the City of Winnipeg's Standard Construction Specification CW 3110– "Sub-Grade, Sub-Base and Base Course Construction" and as per SCD-648B.
  - (b) Excavation shall be understood to include all removal of existing insitu material necessary to achieve finished grade and as indicated on Drawings, all in accordance with E12.
- E16.2.2 Construction Methods
  - (a) Excavation shall be performed as per E12 and as outlined in CW 3310 Item 3.2 "Excavation".
  - (b) In locations where existing trees root systems intersect with pathway or basketball court, excavation shall be done carefully so as not to damage or sever any roots of the trees.

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- (c) If any pavement exists at the limits of the designated area of removal, these shall be saw cut for the full depth of the pavement prior to the demolition and removal operations. All costs in connection with saw cutting are incidental and shall be included in the unit price bid for excavation.
- (d) All excavated material shall be removed, hauled and disposed of off-site to the satisfaction of the Contract Administrator.

# E16.3 Sub-Grade Compaction

# E16.3.1 Description

(a) Sub grade compaction shall be done in accordance with City of Winnipeg's Standard Construction Specification CW 3110 – "Sub-Grade, Sub-Base and Base Course Construction".

## E16.3.2 Construction Methods

- (a) Sub-grade compaction shall be performed as outlined in CW 3110 item 3.3 "Preparation of Sub-Grade and Placement of Sub-Base Material".
- (b) Sub-grade shall be free of any fibrous organics, softened and disturbed soil. The prepared sub-grade shall be proof rolled with a heavy sheep's foot roller (min 25 passes) and inspected by the Contract Administrator to detect for any soft spots prior to the placement of overlying granular fills.

### E16.4 Geotextile Fabric

## E16.4.1 Description

(a) Geotextile Fabric shall be placed in accordance with City of Winnipeg's Standard Construction Specification CW 3130 "Supply and Installation of Geotextile Fabrics".

### E16.4.2 Materials

(a) The separation/ reinforcement geotextile fabric shall conform to the Products Approved as listed in City of Winnipeg Specification for Approved Products for Surface Works.

### E16.4.3 Construction Methods

(a) Separation/ Reinforcement geotextile fabric shall be installed as outlined in CW 3110 item 3.1 "Separation/Reinforcement Geotextile Fabric".

## E16.5 Crushed limestone sub-base course material

### E16.5.1 Description

(a) Crushed limestone sub-base material shall be supplied and installed in accordance with City of Winnipeg's Standard Construction Specification CW 3110 "Sub-Grade, Sub-Base and Base Course Construction".

# E16.5.2 Materials

(a) Sub Base: 50mm (2") down crushed limestone as per Drawing SCD-648.

### E16.5.3 Construction Methods

- (a) Crushed limestone sub-base material shall be supplied and installed as outlined in CW 3110 item 3.4 "Placement of Sub-Base Material with Geotextile Fabric".
- (b) All limestone sub-base material shall be placed and compacted as specified to a finished thickness as shown on the drawings.

#### E16.6 Crushed Limestone Base Course Material

### E16.6.1 Description

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(a) Crushed limestone base material shall be supplied and installed in accordance with City of Winnipeg's Standard Construction Specification CW 3110 "Sub-Grade, Sub-Base and Base Course Construction".

#### E16.6.2 Materials

(a) Base course material shall be 20mm (3/4") down crushed limestone.

# E16.6.3 Construction Methods

- (a) Crushed limestone base material shall be supplied and installed as outlined in CW 3110 item 3.4 "Placement of Sub-Base Material with Geotextile Fabric".
- (b) All limestone base course material shall be placed and compacted as specified to finished thickness as shown on the drawings.

### E16.7 Asphaltic Pavement

### E16.7.1 Description

(a) Asphaltic Concrete shall be supplied and installed in accordance with City of Winnipeg Standard Construction Specification CW 3410 "Asphaltic Concrete Pavement Works".

### E16.7.2 Materials

(a) Asphaltic Concrete shall be Type 1A as specified and to a thickness of 75mm (3") as shown on the Drawings.

## E16.7.3 Construction Methods

(a) Asphaltic Concrete shall be supplied and installed in accordance with the lines, grades and thickness shown on the Drawings and to City of Winnipeg Construction Specification CW 3410. Asphalt shall be placed in one lift.

# E16.8 Crack Sealing

- (a) As a warranty requirement, the Contractor shall rout and seal any and all cracks which may appear during the one-year warranty period. Crack sealing shall conform to the requirements of City of Winnipeg Standard Construction CW 3250.
- (b) No separate payment will be made for this item as it is considered a warranty issue and shall fall under G.C.13- Warranty.

# E16.9 Quality Control for Hard Surfaced Areas

- (a) Further to Section 10, Quality Control, of CW 3110 and CW 3410, the Contract Administrator may obtain a qualified independent testing lab to conduct tests on materials to determine the acceptability of the sub-grade, sub-base, base course and asphaltic concrete as placed by the Contractor in accordance with the requirements of this Specification.
- (b) The Contractor shall not proceed with each granular fill placement or asphalt installation until test results have been reviewed and approval to proceed is granted by the Contract Administrator.
- (c) The Contract Administrator will conduct a survey of the operation to verify installation of specified layer thickness.
- (d) Non-conformity with the specified test requirements or compacted layer thickness will constitute sufficient grounds for rejection of the Work.

### E16.10 Method of Measurement and Basis of Payment

## E16.10.1 Method of Measurement shall be as follows:

- (a) Asphalt will be measured on a square metre basis for:
  - (i) "Asphalt Pathways" and;
  - (ii) "Asphalt Basketball Half-Court" on Form B: Prices.

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# E16.10.2 Basis of Payment shall be as follows:

(a) Asphalt Pathways and Asphalt Basketball Half-Court will be paid for at the Contract Unit Prices. The amount to be paid for shall be the total number of units, as indicated on Form B: Prices. This price shall be full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.

## E17. PLEXIPAVE SURFACING & PLEXICOLOR LINE PAINTING

E17.1 This specification shall cover the supply and installation of the coating on the asphalt surface and the line painting of the court markers.

## E17.2 Materials:

- (a) Patching Mix (Court Patch Binder): for use in cracks, holes, depressions and other imperfections in the asphalt surface. This material will be used in accordance with the manufacturer's specifications with regard to sand sizes, prime coats, and depth of depression, hole or crack.
- (b) Crack filler: for use in fine cracks and for minor cosmetic thin repairs and fills prior to filler course.
- (c) 100% Acrylic Filler Course (Acrylic Resurfacer): The filler course shall be California Acrylic Resurfacer, or an approved equal, and consist of a 100% acrylic emulsion binder containing no vinyl constituent and no asbestos fillers. The product shall contain no less than 4% attapalgite and have a pigment volume concentration not to exceed 9.5%.
- (d) Acrylic Color Playing Surface:
  - (i) Job Mixed Fortified Plexipave, a field-mixed combination of California Products Corporation's Plexichrome and Plexipave Color Base, or approved equal, blended in accordance with the manufacturer's specifications, consisting of lightfast mineral oxide pigments and fillers uniformly dispersed in a non-oxiding 100% acrylic base.
  - (ii) Tennis court inside surfacing to be "Blue" colour.
  - (iii) Court line markings to be "White"

## E17.3 Construction Method:

- (a) Clean all asphalt surfaces of loose dirt, oil, grease, leaves and other debris in strict accordance with manufacturer's directions.
- (b) Clean all holes and cracks.
- (c) Depressions holding enough water to cover a five cent piece shall be filled with Court Patch binder mix. This step shall be accomplished prior to the squeegee draining. Define and mark all areas holding enough water to cover a nickel. Spread court patch binder mix true to grade using a straight edge for strike off. Steel trowel or wood float patch so that the texture matches the surrounding area. Never add water to the mix. Light misting on surfaces and edges to feather in allowed as needed to maintain workability. All areas should be allowed to dry thoroughly and cure.
- (d) Filler course shall be applied to the clean underlying surface in one application to obtain a total quantity of not less than 47.3 to 63.2 square metres per litre 915 to 20 square yards per gallon) based on the material prior to dilution. Acrylic Resurfacer may be used to precoat depressions and crack/hole repairs to achieve better planarity prior to filler course application.
- (e) Over a properly prepared surface of asphalt apply one coat of acrylic resurfacer according to the following mix:

Acrylic Resurfacer 208.2 litres (55 gallons)

Water 75.7 litres to 151.4 litres (20 to 40 gallons)

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Sand 272.2 Kg. to 408.2 Kg (600 to 900 pounds) Liquid Yield 424 litres to 522.4 litres (112 to 138 gallons)

- (i) Mix the ingredients thoroughly using accepted mixing devices and use a 70 Durometer rubber blade squeegee to apply each coat of acrylic resurfacer as required.
- (ii) Allow the application of acrylic resurfacer to dry thoroughly. Scrape off all edges and rough spots prior to the subsequent application of acrylic resurfacer or subsequent cushion or color surface system.
- E17.4 Method of Measurement and Basis of Payment
- E17.4.1 Method of Measurement shall be as follows:
  - (a) Plexipave Surfacing and Plexicolor Line Painting will be measured on a square metre basis for:
    - (i) "Plexipave" on Form B: Prices.
- E17.4.2 Basis of Payment shall be as follows:
  - (a) Plexipave will be paid for at the Contract Unit Prices. The amount to be paid for shall be the total number of units, as indicated on Form B: Prices. This price shall be full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.

### E18. GRANULAR PATHWAYS

- E18.1 Description.
- E18.1.1 This Specification shall amend and supplement the City of Winnipeg Specification CW 3110. The Work to be done by the Contractor under this Specification shall cover all phases of supply and placement of crushed limestone surfacing materials necessary to install a Granular Path and Seating Areas as shown on Drawings.
- E18.2 Materials
- E18.2.1 The materials of the Granular Path and Seating Areas shall be as per Drawing SCD-646, "Parkway Path Crushed Limestone."
- E18.3 Construction Method
- E18.3.1 The Work included in the establishment of the Granular Path and Seating area shall include:
  - (a) The Contractor shall survey and stake out the proposed Granular Path and Seating Area prior to the start of construction as shown on the construction drawings. Layout shall be checked and confirmed with Contract Administrator prior to construction.
  - (b) Excavation of Granular Path and Seating Area shall be as per E12.
  - (c) Subgrade to be compacted.
  - (d) All granular base coarse shall be placed and compacted to the finished thickness as specified on the drawings.
  - (e) Base Coarse and Capping Coarse shall be compacted to a minimum of ninety five percent (95%) of Standard Proctor Density.
- E18.4 Method of Measurement and Basis of Payment
- E18.4.1 Method of Measurement shall be as follows:
  - (a) Granular Path and Seating Area shall be measured on a square metre basis for:
    - (i) "Granular Walkway" on Form B: Prices.

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# E18.4.2 Basis of Payment shall be as follows:

(a) Granular Path and Seating Area shall be paid for at the Contract Unit Prices. The amount to be paid for shall be the total number of units, as indicated on Form B: Prices. This price shall be full payment for excavation, subgrade compaction, supply and installation of base coarse and top coarse, supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.

## E19. WOODCHIPS

## E19.1 Description

- E19.1.1 This specification shall cover the supply and installation of Woodchip Mulch:
  - (a) located within timber edging surrounding existing American elm tree.

#### E19.2 Materials

- (a) Woodchips
  - (i) Natural. Clean bark or wood chip mulch with chips not less than 15mm nor larger than 75mm in size and not more than 20mm thick. Mulch is to be free of leaves, branches and other extraneous matter. Quantity 24 SM.

### E19.3 Construction Methods

- (a) Woodchip Surfacing surrounding existing elm tree and within timber edging shall be installed to a depth of 100mm. No excavation is permitted around tree up to the limits of the asphalt basketball court.
- E19.4 Method of Measurement and Basis of Payment
- E19.4.1 Method of Measurement shall be as follows:
  - (a) The supply and installation of Woodchip Surfacing shall be measured on a per square metre basis for:
    - (i) "Wood Chips", on Form B:Prices.
- E19.4.2 Basis of Payment shall be as follows:
  - (a) The supply and installation of Woodchips will be paid for at the Contract Unit Prices as indicated on Form B: Prices. The amount to be paid for shall be the total number of units on Form B: Prices. This price shall be full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.

# E20. SITE FURNITURE

## E20.1 Description

- E20.1.1 This specification shall cover the <u>pick-up</u> and installation of two (2) waste receptacles, three (3) backed benches, one (1) backless bench, two (2) double sided park signs without posts to be attached to chain-link fencing, one (1) single sided park sign and two (2) accessible picnic tables.
- E20.1.2 The Contractor shall furnish all labour, materials, equipment and services necessary to complete the Work as shown on Drawings and specified herein.
- E20.2 Materials
- E20.2.1 All materials supplied under this specification shall be of a type approved by the Contract Administrator, and shall be subject to inspection and testing by the Contract Administrator.
- E20.2.2 Concrete foundations shall be as per **E27**.

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## E20.2.3 Site Furniture shall be:

- (a) Waste Receptacle Metal Slat Type galvanized, as per SCD-119, Product # 52501063GLV (metal slat WR) and Product # 52501058GLV (Wire Basket) or substitute approved in accordance with B7.
- (b) <u>Backed Bench</u> Tache Style Composite Bench with Arm Rests galvanized, w/ extra arm, as per SCD-121A, **Product # 52501085GLV**, or substitute approved in accordance with **B7**.
- (c) <u>Backless Bench</u> Tache Style Composite Bench with Arm Rests galvanized, w/ extra arm as per SCD-121C, **Product # 52501086GLV**, or substitute approved in accordance with **B7**.
- (d) Park Sign Double Sided, as per SCD-153, minus the posts, product # 52501103 or substitute in accordance with B7. Sign to have the following park name and address: "Weston Park", "299 Lock Street".
- (e) Park Sign Single Sided, as per SCD-153, product # **52501101** or substitute in accordance with **B7.** Sign to have the following park name and address: "Weston Park", "299 Lock Street".
- (f) Accessible Picnic Table Tache Style Wheelchair Metal Frame Picnic Table, as per SCD-122A, with wood slats and cedar tone painted finish and galvanized frame, or substitute approved in accordance with **B7.**

#### E20.2.4

(i) For ordering Site furniture please email: <a href="mailto:pwd-cps-orderdesk@winnipeg.ca">pwd-cps-orderdesk@winnipeg.ca</a>

#### E20.3 Construction Methods

- (a) All Work is to be located and installed in accordance with the Drawings, SCDs, and following manufacturer's instructions, using approved non-rusting, vandal resistant fasteners to ensure solid, durable, finished work suitable for the purpose intended. Fasteners and assembly hardware shall be incidental to the Work;
- (b) All furnishings and fixtures to be installed plumb and true to correct elevations and location, as directed by the Contract Administrator. The Contractor shall confirm proposed locations of all site furnishings with Contract Administrator prior to installation;
- (c) All furnishings and fixtures to be carefully handled so that no parts will be bent, broken or otherwise damaged. Hammering is prohibited;
- (d) Install as per manufacturer's instructions and the attached drawings.
- (e) Concrete foundations shall be as per Drawings and E27.
- (f) Picnic Table shall be installed with two (2) duckbill anchors.

## E20.4 Method of Measurement and Basis of Payment

## E20.4.1 Method of Measurement shall be as follows:

- (a) Site Furniture will be measured on a per item basis for the following items:
  - (i) "Pick up and install benches",
  - (ii) "Pick up and install picnic tables",
  - (iii) "Pick up and install waste receptacles",
  - (iv) "Pick up and install park signs" on Form B: Prices.

## E20.4.2 Basis of Payment shall be as follows:

(a) Site Furniture will be paid for at the Contract Unit Prices. The amount to be paid for shall be the total number of units, as indicated on Form B: Prices. This price shall be full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator. The City of Winnipeg Specifications RFP No. 153-2017 Specifications Page 19 of 27

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### E21. CHAIN LINK FENCING

# E21.1 Description

- E21.1.1 The Work to be done by the Contractor under this specification shall include the furnishing of all superintendence, overhead labour, materials, equipment, tools, supplies and all other things necessary for and incidental to the satisfactory performance and completion of all Work as shown on the Drawings and as hereinafter specified, including, but not necessarily confined to the following:
  - (a) Supply and Installation of Chain Link Fencing including baffle gates as per SCD-633.
  - (b) Supply and Installation of Chain Link Gate.
- E21.1.2 This specification supplements and amends C.W. 3550 Chain Link Fencing
- E21.2 Materials
- E21.2.1 All materials, supplied under this specification shall be of a type approved by the Contract Administrator, and shall be subject to inspection and testing by the Contract Administrator.
- E21.2.2 Chain link fencing and Gate as specified in CW 3550 and on Drawings.
- E21.2.3 Fencing and Gate height shall be 1.22m (4'), with knuckled top and bottom fabric.
- E21.2.4 Gate shall have a double swing.
- E21.2.5 Gate shall include a pad lock protective box.
- E21.2.6 Gate shall include **solid** wheels.
- E21.3 Construction Methods
- E21.3.1 As per CW 3550 and the Drawings.
- E21.3.2 Fencing is to be installed minimum 300 mm in from the edge of the paving.
- E21.3.3 Install gate as per manufacturer's recommendation and CW 3550.
- E21.4 Method of Measurement and Basis of Payment
- E21.4.1 Method of Measurement shall be as follows:
  - (a) Chain Link Fencing will be measured on a lineal meter basis for the following items:
    - (i) "4' Tall Chain Link Fencing" on Form B: Prices.
  - (b) Chain Link Gate will be measured on a lump sum basis for the following items:
    - (i) "Chain Link Gate" on Form B: Prices.
- E21.4.2 Basis of Payment shall be as follows:
  - (a) 4' Tall Chain Link Fencing and Chain Link Gate will be paid for at the Contract Unit Prices. The amount to be paid for shall be the total number of units, as indicated on Form B: Prices. This price shall be full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.

### E22. WOOD BOLLARDS

- E22.1 Description
- E22.1.1 This Specification will cover the supply and installation of bollard posts as per SCD-105B and as shown on the drawings. This specification will cover supply and installation of all labour, materials, equipment and services necessary for the supply and installation of a bollard fence as shown on the drawings.
- E22.2 Materials

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- (a) Wood bollard posts shall be Western Red Cedar, free of bark, solid core, air dried, pentachlophenol dipped after shaping and drilling- or Manitoba Pine, free of bark, solid core, rough not turned and boliden treated under pressure.
- (b) 6mm down limestone.
- (c) Bollard posts shall be to the size and dimensions as indicated on the construction drawings.

### E22.3 Construction Methods

- E22.3.1 Installation of wood bollards shall be as per SCD-105B.
  - (a) Bollards shall be installed true and plumb.
  - (b) Tops of bollards shall follow final site grades.
  - (c) Backfill bollard excavations with 6mm down limestone. Tamp material thoroughly.
- E22.4 Method of Measurement and Basis of Payment
- E22.4.1 Method of Measurement shall be as follows:
  - (a) The supply and installation of Bollard Posts shall be measured on a per item basis for:
    - (i) "Bollards" on Form B: Prices.
- E22.4.2 Basis of Payment shall be as follows:
  - (a) Bollard Fencing will be paid for at the Contract Unit Prices. The amount to be paid for shall be the total number of units, as indicated on Form B: Prices. This price shall be full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.

# E23. BASKETBALL STANDARD

- E23.1 General Description
- E23.1.1 This specification shall cover all aspects of the supply and installation of a basketball standard including post, backboard, goal and chain net, and concrete pile.
- E23.2 Materials
- E23.2.1 Basketball Standards
  - (a) Douglas goose neck heavy duty basketball standards, Model # 339180M, 141mm (5 9/16") O.D. galvanized steel post, 1828mm (72") extension.
  - (b) Douglas FAL aluminum backboard, Model # 39166.
  - (c) Dura Goal II (double rimmed) goal and chain net, Model # 39157.
  - (d) Concrete Piles
    - (i) As per CW 2160.
    - (ii) Concrete Type A, compressive strength 32 MPa at 28 days, minimum cementitious content 340 Kg/m3, sulfate resistant.
    - (iii) 6.0 M deep, 400mm diameter reinforced concrete piles as shown on the Drawings.
- E23.3 Methods
- E23.3.1 Basketball standards are to be installed in concrete piles according to Drawings and manufacturer's specifications.
- E23.3.2 Layout of the posts and piles are to be such that the basketball goals are located correctly in relationship to the fence and basketball line painting as shown on the Drawings.
- E23.4 Method of Measurement and Basis of Payment

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- E23.4.1 Method of Measurement shall be as follows:
  - (a) Basketball Standards will be measured on a per unit basis for the following items:
    - (i) "Basketball Standard (pile, post, backboard and hoop)"; on Form B: Prices.
- E23.4.2 Basis of Payment shall be as follows:
  - (a) Basketball Standards will be paid for at the Contract Unit Prices. The amount to be paid for shall be the total number of units, as indicated on Form B: Prices. This price shall be full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.

## E24. SOIL AND SOD

- E24.1 Description
- E24.1.1 This Specification shall amend and supplement the most up to date revisions of City of Winnipeg Specifications CW 3510, CW 3520 and CW 3540. The Contractor shall install mineral sod and a minimum 75mm compacted thickness of topsoil, as required bringing up level of finished grade as necessary.
- E24.1.2 The Contractor shall install topsoil and sod over all graded areas including; around the perimeter of new play area, as well as over old play areas.
- Areas to be Sodded are to be laid out on Site and approved by the Contract Administrator before commencing Work. Work outside the limit approved by the Contract Administrator will not be measured and will not be paid for under this section but considered incidental to the Work. Such incidental items that will not be measured include but are not limited to topsoil and sod placed at the edge of new paving. Incidental Site restoration shall conform to the same Specifications.
- E24.1.4 Where edges of excavation abut existing turf those edges are to be cut with a sod cutter prior to excavation.
- E24.1.5 Restoration shall be achieved using topsoil and sod unless otherwise directed by the Contract Administrator.
- E24.1.6 Thirty (30) day maintenance period on sod will commence at Total Performance and acceptance.
- E24.2 Method of Measurement and Basis of Payment
- E24.2.1 Method of Measurement shall be as follows:
  - (a) Soil and Sod will be measured on a square metre basis for: "Soil and Sod" on Form B: Prices.
- E24.2.2 Basis of Payment shall be as follows:
  - (a) Soil and Sod will be paid for at the Contract Unit Prices. The amount to be paid for shall be the total number of units, as indicated on Form B: Prices. This price shall be full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.

### **PLAY EQUIPMENT**

### E25. PLAY EQUIPMENT

E25.1 This specification shall cover the supply and installation of the Play Equipment as listed below and specified herein.

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- E25.2 The Contractor shall furnish all labour, materials, equipment and services necessary to complete the Work according to the drawings and specifications.
- E25.3 The Contractor shall obtain all approvals including permit if required.

# E25.4 Play Area:

- (a) Play area to be designed for children aged 2-5 and children 5-12
- (b) Play equipment must provide the following play activities:
  - (i) Sensory & Imaginative Play;
  - (ii) Climbing;
  - (iii) Balancing;
  - (iv) Motion; and
  - (v) Sliding.
- (c) Play Equipment Theme:
  - (i) Letters, Numbers and Music
- (d) The design submission shall be evaluated as per B18.
- (e) If a playstructure is proposed, it must include 1 (one) transfer station for access of adult caregiver or reduced mobility access;
- E25.5 If colour is a feature of posts, top caps and panels, the Contract Administrator shall have the ability to modify specified colours from the proposed design after Contract Award. If the price of the equipment in the Bid Submission is subject to the colours of the proposed design, this must be indicated in the Bid Submission.
- E25.6 Components which are **unacceptable** are the following:
  - (a) Wooden structures;
  - (b) Tube (enclosed) slides and enclosed crawl tubes;
  - (c) Play panels with many small moving parts;
  - (d) Talk Tubes;
  - (e) Barrel rollers; and
  - (f) Large number of plastic components.
- E25.7 Components which are generally **not accepted but may be considered** are the following:
  - (a) Cable rides;
  - (b) Sand diggers;
  - (c) Merry-go-rounds; and
  - (d) Tire Swings.
- E25.8 Playstructures
- E25.8.1 General Description
  - (a) If a Playstructure is specified, this specification shall cover the supply and installation of it.
  - (b) Play equipment shall be installed in the play areas as shown on the attached Drawing. The play equipment and their safety zones should fit into the proposed play areas. Efficiency and good use of space will be considered in the evaluation of submissions.

### E25.8.2 Materials

(a) Posts / Caps

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(i) All posts shall be a minimum 5" O.D. round or 4" square tubing for a post and deck structure.

- (ii) 3.5 "O.D. round or 3.0" square tubing will be permitted in circumstances where a multi-deck structure has decks of varied heights which are all under 4', or for structures with 2 decks or less.
- (iii) All posts shall be fabricated from either aluminium (0.125" (11ga) min. wall thickness) or galvanized steel (0.120" (11 ga) min. wall thickness) tubing. All fabrication cuts, drill holes and weld joints shall be sprayed with a corrosion resistant coating. The bottom end of the posts is to be sealed with a moisture barrier.
- (iv) In the case of a deckless structure, a minimum size of 2 3/8" O.D. round posts fabricated out of steel or aluminum is acceptable.
- (v) Top caps shall be made of steel construction and shall be factory installed and secured in place with tamper proof, self-sealing rivets. Plastic top caps will be accepted if made of solid construction (hollow caps not accepted).
- (vi) If painted colour is a feature of posts and top caps, it shall be a baked-on polyester powder coating. The powder coating finish shall meet or exceed ASTM standards for hardness, adhesion, impact and salt spray resistance.

## (b) Decks (if applicable)

(i) All decks shall be manufactured from vinyl-coated perforated steel or a steel core composite. Deck heights may vary to a maximum height of 6'.

## (c) Clamping System

- (i) All deck, rail and play component clamping systems shall be fabricated from zinc plated, galvanized steel, stainless steel or aluminum. Tamper proof, corrosion resistant fasteners shall be used to retain clamping systems.
- (d) Handrails, Safety Rails and Handloops (if applicable)
  - (i) All handrails, safety rails and handloops shall be fabricated using a minimum of 15/16" (24mm) 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.
  - (ii) Smooth all cut edges and weld joints prior to hot dip galvanizing and ensure that all tubing is free from burrs, cracks, defects and other imperfections.

### (e) Hardware

- 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.
- (ii) All necessary hardware shall be provided.

## (f) Poly Components

- (i) Poly components such as slides and hoods shall be fabricated from U.V. stabilized, rotationally molded linear low-density polyethylene.
- (ii) Poly components such as play panels shall be fabricated from compression molded solid colour, U.V. stabilized, high-density polyethylene.

# (g) Slides (if applicable)

- (i) A minimum of one stainless steel slide is required; NO PLASTIC SLIDES may be used for additional slides. North or east orientation preferred.
- (h) Each playstructure shall have kick plates and hand loops as required to meet the most recent Canadian Standards Association Standards.

# (b) Installation

 (a) Play equipment shall be installed as per manufacturer's specifications and in accordance with the most recent Canadian Standards Association Standards. The City of Winnipeg Specifications RFP No. 153-2017 Specifications Page 24 of 27

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(b) One play equipment installer on site, at minimum, must be a valid Canadian Certified Playground Inspector.

- (c) All posts and other vertical items shall be plumb and true to vertical, if so designed.
- (d) All decks shall be level, if so designed.

# E25.9 Independent Components

# E25.9.1 General Description

- (a) The Contractor shall furnish all labour, materials, equipment and services necessary to complete the Work according to the specifications.
- (b) This specification shall cover the supply and installation of Independent Components as specified herein.
- (c) Independent Components shall be installed as per the proposed design, as the proposed budget will allow.
- (d) Independent Components shall be installed in the available areas as shown on Drawings. The Components and their safety zones must fit into the proposed play area.

### E25.9.2 Materials

- (a) All materials shall be structurally sound and suitable for safe play. Durability shall be ensured on all parts and materials.
- (b) There shall be a minimum (or no) amount of hollow plastic components. Solid plastic is acceptable.
- (c) There shall be a minimum amount of solid elements which limit visibility through the Site.
- (d) Fasteners
  - (i) All hardware shall be tamper-proof in design and requiring special tools. It shall be either carbon steel plated with zinc/nickel and iridescent chromate finish or stainless steel. All necessary hardware and tools shall be provided.
- (e) Finishes
  - (i) Finishes 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.
- (f) Slides
  - (i) If an independent slide is proposed, stainless steel is preferred. If other slides are proposed on the Site one may be plastic. North or east orientation preferred. If independent slide over 4' high is proposed, support posts must be minimum 5"O.D.
  - (ii) Tube (enclosed) slides and plastic spiral slides will not be accepted.
- (g) Foundations
  - (i) Shall be as per **E27**.

### E25.10 Method of Measurement and Basis of Payment

- E25.10.1 Method of Measurement shall be as follows:
  - (a) Play Equipment shall be measured on a lump sum basis for:
    - (i) "2-5 Play Equipment", and;
    - (ii) "5-12 Play Equipment" on Form B: Prices
- E25.10.2 Basis of Payment shall be as follows:

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(a) Play Equipment will be paid for at the Contract Unit Prices. The amount to be paid for shall be the total number of units, as indicated on Form B: Prices. This price shall be full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.

### E26. SWING SET

# E26.1 General Description

- E26.1.1 The Contractor shall furnish all labour, materials, equipment and services necessary to complete the Work according to the specifications.
- E26.1.2 This specification shall cover the supply and installation of one (1) complete 8' tall swing standard as specified herein:
  - (a) Three Leg Heavy Duty Swing Frame, 2.4m (8ft.) high, 2-Bay, complete with four (4) slash-proof rubber belt seat, heavy-duty chain, swing hangers and hammer locks / bolt links.
- E26.1.3 This specification shall also cover the supply and installation of one (1) complete 6' tall baby swing standard as specified herein:
  - (a) Two Leg Heavy Duty Arch Swing Frame, 1.83m (6ft.) high, 1-Bay, complete with two (2) slash-proof rubber, enclosed infant seats, heavy-duty chain, swing hangers and hammer locks / bolt links.

## E26.2 Materials

## E26.2.1 Topbeam

(a) All topbeams shall be fabricated from 3 1/2" O.D. 8 gauge (minimum), RS40 galvanized steel pipe with anti-wrap. All fabrication cuts, drill holes and weld joints shall be sprayed with a corrosion resistant coating.

# E26.2.2 Legs

(a) All legs shall be fabricated from 2 3/8" O.D. 10 gauge, RS40 galvanized steel pipe. All fabrication cuts, drill holes and weld joints shall be sprayed with a corrosion resistant coating. The bottom end of the posts is to be sealed with a moisture barrier.

## E26.2.3 Yoke Clamps

(a) All yoke clamps shall be either one piece construction and fabricated from 8 gauge, RS40 galvanized steel pipe or two piece, compression clamping cast aluminum or galvanized metal complete with tamper-proof hardware.

## E26.2.4 Swing Hangers

(a) All swing hangers shall be fabricated from galvanized malleable iron and have oil impregnated bearings pressed in.

## E26.2.5 Swing Chain

(a) All swing chain shall be 4/0 straight link, galvanized steel.

## E26.2.6 Enclosed Infant (Bucket) Seats

(a) 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 slashproof. Infant seats shall be fully enclosed to prevent slipping out and provide extra lower back support.

### E26.2.7 Belt Seats

(a) 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

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seats slashproof. The perimeter shall be moulded to form a blunt, impact absorbing edge.

### E26.2.8 Hardware

(a) 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.

### E26.2.9 Concrete Foundations

(a) Post shall be installed into a concrete footing the composition of which is detailed in E27.

### E26.3 Installation

- E26.3.1 Installation shall be in accordance with Manufacturers specifications.
- E26.3.2 Top rail is to be level and posts securing anchored in concrete.
- E26.3.3 Swing seats shall not be installed until the protective surfacing (in accordance with E14) has been installed
- E26.4 Method of Measurement and Basis of Payment
- E26.4.1 Method of Measurement shall be as follows:
  - (a) Swing Set will be measured on a per unit basis for:
    - (i) "8' Tall 2 Bay Senior Swings", and;
    - (ii) "6' Tall 1 Bay Arch Baby Swings" on Form B: Prices.
- E26.4.2 Basis of Payment shall be as follows:
  - (a) Swing Set will be paid for at the Contract Unit Prices. The amount to be paid for shall be the total number of units, as indicated on Form B: Prices. This price shall be full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.

## E27. FOUNDATIONS

- E27.1 General Description
- E27.1.1 All playground equipment posts, bases and anchors are to be set in concrete footings or piles to ensure stability and prevent frost heaving. An alternative to concrete footings or piles that may be approved includes a welded and secured rail mounting system. The current Standard Construction Specifications of the City of Winnipeg, CW 2160 –latest revision Concrete to be used in Underground Works, is to be utilized in the installation of the concrete works for all below ground components.

## E27.2 Materials

- E27.2.1 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 20mm, nominal;
  - (d) slump 80 +/- 20mm;
  - (e) maximum water/cement ratio 0.49.

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# E27.3 Installation

- E27.3.1 All posts and supports shall be centred in the concrete footing such that there is a complete collar of concrete around each post and support. Where posts are not perfectly centred there should be a minimum of 2" concrete at any point around the post.
- E27.3.2 All concrete footings for play equipment shall be a **minimum of 3' depth**, or in accordance with Manufacturer's specifications, whichever is greater.
- E27.4 Method of Measurement and Basis of Payment
- E27.4.1 Method of Measurement shall be as follows:
  - (a) Foundations shall be incidental to the measurement of Play Equipment listed above and as shown on Form B: Prices.
- E27.4.2 Basis of Payment shall be as follows:
  - (a) No separate payment shall be made for play equipment foundations.

## **E28. MAINTENANCE KITS**

- E28.1 All play equipment shall include 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.
- E28.2 There shall be no payment for the maintenance kits.