



THE CITY OF WINNIPEG

TENDER

TENDER NO. 324-2023

SINCLAIR PARK COMMUNITY CENTRE BASKETBALL COURT CONSTRUCTION

TABLE OF CONTENTS

PART A - BID SUBMISSION

Form A: Bid/Proposal

Form B: Prices

PART B - BIDDING PROCEDURES

B1. Contract Title	1
B2. Submission Deadline	1
B3. Site Investigation	1
B4. Enquiries	1
B5. Confidentiality	1
B6. Addenda	2
B7. Substitutes	2
B8. Bid Components	3
B9. Bid	3
B10. Prices	4
B11. Disclosure	4
B12. Conflict of Interest and Good Faith	4
B13. Qualification	6
B14. Opening of Bids and Release of Information	7
B15. Irrevocable Bid	7
B16. Withdrawal of Bids	7
B17. Evaluation of Bids	7
B18. Award of Contract	8

PART C - GENERAL CONDITIONS

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

PART D - SUPPLEMENTAL CONDITIONS

General

D1. General Conditions	1
D2. Scope of Work	1
D3. Site Investigation Due Diligence and Risk	1
D4. Definitions	2
D5. Contract Administrator	2
D6. Contractor's Supervisor	2
D7. Accessible Customer Service Requirements	2
D8. Unfair Labour Practices	3

Submissions

D9. Authority to Carry on Business	3
D10. Safe Work Plan	4
D11. Insurance	4
D12. Contract Security	4
D13. Subcontractor List	5
D14. Detailed Work Schedule	6
D15. Park Access Restrictions	6

Schedule of Work

D16. Commencement	6
D17. Substantial Performance	7
D18. Total Performance	7
D19. Liquidated Damages	7
D20. Supply Chain Disruption Schedule Delays	7
D21. Scheduled Maintenance	8

Control of Work

D22. Job Meetings	8
-------------------	---

D23. Prime Contractor – The Workplace Safety and Health Act (Manitoba)	9
D24. The Workplace Safety and Health Act (Manitoba) – Qualifications	9
Measurement and Payment	
D25. Payment	9
Warranty	
D26. Warranty	9
Dispute Resolution	
D27. Dispute Resolution	9
Third Party Agreements	
D28. Funding and/or Contribution Agreement Obligations	10
Form H1: Performance Bond	12
Form H2: Labour and Material Payment Bond	14
Form H3: Irrevocable Standby Letter of Credit	16
Form J: Subcontractor List	18

PART E - SPECIFICATIONS

General	
E1. Applicable Specifications and Drawings	1
E2. Access to Site	2
E3. Permits, Notices, Licenses, Certificates, Laws And Rules	2
E4. Damage To Existing Structures, Trees And Property	2
E5. Pedestrian Safety And Traffic Management	3
E6. Protection of Survey Infrastructure	3
E7. Site Enclosures	3
E8. General Instructions	4
E9. Backstop Removal	5
E10. Removal and Reinstalation of Wood Bollards and Chain	6
E11. Excavation and Grading	6
E12. Removal Of Catch basins	8
E13. Land Drainage Sewer Pipe	9
E14. Perforated Drainage Pipe	10
E15. Drain Basins	12
E16. Asphalt Entrance Approach To Sport Court	13
E17. Sport Court Compacted Granular Base	16
E18. Sport Court Asphaltic Conrete Pavement Works	18
E19. Sport Court Surfacing	20
E20. Site Furnishings	22
E21. Basketball Standards	23
E22. Chain Link Fencing and Gates	24
E23. Topsoil and Sodding	24

PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

B1.1 SINCLAIR PARK COMMUNITY CENTRE BASKETBALL COURT CONSTRUCTION

B2. SUBMISSION DEADLINE

B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, July 24, 2023.

B2.2 The Contract Administrator or the Manager of Materials may extend the Submission Deadline by issuing an addendum at any time prior to the time and date specified in B2.1.

B3. SITE INVESTIGATION

B3.1 Further to C3.1, the Bidder may view the Site without making an appointment.

B3.2 The Bidder is responsible for inspecting the Site, the nature of the Work to be done and all conditions that might affect their Bid or their performance of the Work, and shall assume all risk for conditions existing or arising in the course of the Work which have been or could have been determined through such inspection.

B4. ENQUIRIES

B4.1 All enquiries shall be directed to the Contract Administrator identified in D5.1.

B4.2 If the Bidder finds errors, discrepancies or omissions in the Tender, or is unsure of the meaning or intent of any provision therein, the Bidder shall notify the Contract Administrator of the error, discrepancy or omission, or request a clarification as to the meaning or intent of the provision at least five (5) Business Days prior to the Submission Deadline.

B4.3 Responses to enquiries which, in the sole judgment of the Contract Administrator, require a correction to or a clarification of the Tender will be provided by the Contract Administrator to all Bidders by issuing an addendum.

B4.4 Responses to enquiries which, in the sole judgment of the Contract Administrator, do not require a correction to or a clarification of the Tender will be provided by the Contract Administrator only to the Bidder who made the enquiry.

B4.5 The Bidder shall not be entitled to rely on any response or interpretation received pursuant to B4 unless that response or interpretation is provided by the Contract Administrator in writing.

B4.6 Any enquiries concerning submitting through MERX should be addressed to:
MERX Customer Support
Phone: 1-800-964-6379
Email: merx@merx.com

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 Tender to the media or any member of the public without the prior written authorization of the Contract Administrator.

B6. ADDENDA

B6.1 The Contract Administrator may, at any time prior to the Submission Deadline, issue addenda correcting errors, discrepancies or omissions in the Tender, 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.

B6.3 Addenda will be available on the MERX website at www.merx.com.

B6.4 The Bidder is responsible for ensuring that they have received all addenda and is advised to check the MERX website for addenda regularly and shortly before the Submission Deadline, as may be amended by addendum.

B6.5 The Bidder shall acknowledge receipt of each addendum in Paragraph 10 of Form A: Bid/Proposal. Failure to acknowledge receipt of an addendum may render a Bid non-responsive

B6.6 Notwithstanding B4, enquiries related to an Addendum may be directed to the Contract Administrator indicated in D5.

B7. SUBSTITUTES

B7.1 The Work is based on the Plant, Materials and methods specified in the Tender.

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 their 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.
- 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 they wish 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 their 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 B17.
- 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. BID COMPONENTS

- B8.1 The Bid shall consist of the following components:
- (a) Form A: Bid/Proposal;
 - (b) Form B: Prices.
- B8.2 All components of the Bid shall be fully completed or provided, and submitted by the Bidder no later than the Submission Deadline, with all required entries made clearly and completely.
- B8.3 The Bid shall be submitted electronically through MERX at www.merx.com.
- B8.3.1 Bids will **only** be accepted electronically through MERX.
- B8.4 Bidders are advised that inclusion of terms and conditions inconsistent with the Tender document, including the General Conditions, will be evaluated in accordance with B17.1(a).

B9. BID

- B9.1 The Bidder shall complete Form A: Bid/Proposal, making all required entries.
- B9.2 Paragraph 2 of Form A: Bid/Proposal shall be completed in accordance with the following requirements:
- (a) if the Bidder is a sole proprietor carrying on business in their own name, their 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 their 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 Bid 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: Bid/Proposal, the Bidder shall identify a contact person who is authorized to represent the Bidder for purposes of the Bid.

- B9.4 Paragraph 13 of Form A: Bid/Proposal shall be signed in accordance with the following requirements:
- (a) if the Bidder is a sole proprietor carrying on business in their own name, it shall be signed by the Bidder;
 - (b) if the Bidder is a partnership, it shall be signed by the partner or partners who have authority to sign for the partnership;
 - (c) if the Bidder is a corporation, it shall be signed by their duly authorized officer or officers;
 - (d) if the Bidder is carrying on business under a name other than their 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: Bid/Proposal should be entered below such signatures.
- B9.4.2 All signatures shall be original.
- B9.5 If a Bid is submitted jointly by two or more persons, the word "Bidder" shall mean each and all such persons, and the undertakings, covenants and obligations of such joint Bidders in the Bid and the Contract, when awarded, shall be both joint and several.

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).
- B10.5 The Bidder shall enter the Total Bid Price from Form B: Prices into the Total Bid Price field in MERX.
- B10.5.1 Bidders are advised that the calculation indicated in B17.4 will prevail over the Total Bid Price entered in MERX.

B11. DISCLOSURE

- B11.1 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.
- B11.2 The Persons are:
- (a) Maple Leaf Construction in regards to pre-construction cost estimates.

B12. CONFLICT OF INTEREST AND GOOD FAITH

- B12.1 Further to C3.2, Bidders, by responding to this Tender, declare that no Conflict of Interest currently exists, or is reasonably expected to exist in the future.
- B12.2 Conflict of Interest means any situation or circumstance where a Bidder or employee of the Bidder proposed for the Work has:

- (a) other commitments;
- (b) relationships;
- (c) financial interests; or
- (d) involvement in ongoing litigation;

that could or would be seen to:

- (i) exercise an improper influence over the objective, unbiased and impartial exercise of the independent judgment of the City with respect to the evaluation of Bids or award of the Contract; or
 - (ii) compromise, impair or be incompatible with the effective performance of a Bidder's obligations under the Contract.
- (e) has contractual or other obligations to the City that could or would be seen to have been compromised or impaired as a result of their participation in the Tender process or the Work; or
 - (f) has knowledge of confidential information (other than confidential information disclosed by the City in the normal course of the Tender process) of strategic and/or material relevance to the Tender process or to the Work that is not available to other bidders and that could or would be seen to give that Bidder an unfair competitive advantage.

B12.3 In connection with their Bid, each entity identified in B12.2 shall:

- (a) avoid any perceived, potential or actual Conflict of Interest in relation to the procurement process and the Work;
- (b) upon discovering any perceived, potential or actual Conflict of Interest at any time during the Tender process, promptly disclose a detailed description of the Conflict of Interest to the City in a written statement to the Contract Administrator; and
- (c) provide the City with the proposed means to avoid or mitigate, to the greatest extent practicable, any perceived, potential or actual Conflict of Interest and shall submit any additional information to the City that the City considers necessary to properly assess the perceived, potential or actual Conflict of Interest.

B12.4 Without limiting B12.3, the City may, in their sole discretion, waive any and all perceived, potential or actual Conflicts of Interest. The City's waiver may be based upon such terms and conditions as the City, in their sole discretion, requires to satisfy itself that the Conflict of Interest has been appropriately avoided or mitigated, including requiring the Bidder to put into place such policies, procedures, measures and other safeguards as may be required by and be acceptable to the City, in their sole discretion, to avoid or mitigate the impact of such Conflict of Interest.

B12.5 Without limiting B12.3, and in addition to all contractual or other rights or rights at law or in equity or legislation that may be available to the City, the City may, in their sole discretion:

- (a) disqualify a Bidder that fails to disclose a perceived, potential or actual Conflict of Interest of the Bidder or any of their employees proposed for the Work;
- (b) require the removal or replacement of any employees proposed for the Work that has a perceived, actual or potential Conflict of Interest that the City, in their sole discretion, determines cannot be avoided or mitigated;
- (c) disqualify a Bidder or employees proposed for the Work that fails to comply with any requirements prescribed by the City pursuant to B12.4 to avoid or mitigate a Conflict of Interest; and
- (d) disqualify a Bidder if the Bidder, or one of their employees proposed for the Work, has a perceived, potential or actual Conflict of Interest that, in the City's sole discretion, cannot be avoided or mitigated, or otherwise resolved.

B12.6 The final determination of whether a perceived, potential or actual Conflict of Interest exists shall be made by the City, in their sole discretion.

B13. QUALIFICATION

B13.1 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.

B13.2 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 <https://www.winnipeg.ca/matmgt/Templates/files/debar.pdf>

B13.3 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);
- (d) have completed the Accessible Customer Service online training required by the Accessibility for Manitobans Act (AMA) (see B13.5 and D7).

B13.4 Further to B13.3(c), the Bidder shall, within five (5) Business Days of a request by the Contract Administrator, provide proof satisfactory to the Contract Administrator that the Bidder/Subcontractor has a workplace safety and health program meeting the requirements of The Workplace Safety and Health Act (Manitoba), by providing:

- (a) Written confirmation of a safety and health certification meeting SAFE Work Manitoba's SAFE Work Certified Standard (e.g., COR™ and SECOR™) or
 - (i) 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
 - (ii) 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
- (b) a report or letter to that effect from an independent reviewer acceptable to the City. (A list of acceptable reviewers and the review template are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/>).

B13.5 Further to B13.3(d), the Bidder acknowledges they and all Subcontractors have obtained training required by the Accessibility for Manitobans Act (AMA) available at <http://www.accessibilitymb.ca/training.html> for anyone that may have any interaction with the public on behalf of the City of Winnipeg.

B13.6 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.

B13.7 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.

B14. OPENING OF BIDS AND RELEASE OF INFORMATION

B14.1 Bids will not be opened publicly.

B14.2 Following the submission deadline, the names of the Bidders and their Total Bid Prices (unevaluated, and pending review and verification of conformance with requirements) will be available on the MERX website at www.merx.com.

B14.3 After award of Contract, the name(s) of the successful Bidder(s) and their Contract amount(s) will be available on the MERX website at www.merx.com.

B14.4 The Bidder is advised that any information contained in any Bid 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).

B14.4.1 To the extent permitted, the City shall treat as confidential information, those aspects of a Bid Submission identified by the Bidder as such in accordance with and by reference to Part 2, Section 17 or Section 18 or Section 26 of The Freedom of Information and Protection of Privacy Act (Manitoba), as amended.

B15. IRREVOCABLE BID

B15.1 The Bid(s) submitted by the Bidder shall be irrevocable for the time period specified in Paragraph 11 of Form A: Bid/Proposal.

B15.2 The acceptance by the City of any Bid shall not release the Bids of the next two lowest evaluated responsive Bidders and these Bidders shall be bound by their Bids on such Work for the time period specified in Paragraph 11 of Form A: Bid/Proposal.

B16. WITHDRAWAL OF BIDS

B16.1 A Bidder may withdraw their Bid without penalty prior to the Submission Deadline.

B17. EVALUATION OF BIDS

B17.1 Award of the Contract shall be based on the following bid evaluation criteria:

- (a) compliance by the Bidder with the requirements of the Tender or acceptable deviation there from (pass/fail);
- (b) qualifications of the Bidder and the Subcontractors, if any, pursuant to B13 (pass/fail);
- (c) Total Bid Price;
- (d) economic analysis of any approved alternative pursuant to B7.

B17.2 Further to B17.1(a), the Award Authority may reject a Bid as being non-responsive if the Bid is incomplete, obscure or conditional, or contains additions, deletions, alterations or other irregularities. The Award Authority may reject all or any part of any Bid, or waive technical requirements or minor informalities or irregularities, if the interests of the City so require.

B17.3 Further to B17.1(b), the Award Authority shall reject any Bid submitted by a Bidder who does not demonstrate, in their Bid or in other information required to be submitted, that they are qualified.

B17.4 Further to B17.1(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.

B17.4.1 Further to B17.1(a), in the event that a unit price is not provided on Form B: Prices, the City may determine the unit price by dividing the Amount (extended price) by the approximate quantity, for the purposes of evaluation and payment.

B17.4.2 Bidders are advised that the calculation indicated in B17.4 will prevail over the Total Bid Price entered in MERX.

B18. AWARD OF CONTRACT

B18.1 The City will give notice of the award of the Contract or will give notice that no award will be made.

B18.2 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 qualified, and the Bids are determined to be responsive.

B18.2.1 Without limiting the generality of B18.2, 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 their 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.

B18.3 Where an award of Contract is made by the City, the award shall be made to the qualified Bidder submitting the lowest evaluated responsive Bid, in accordance with B17.

B18.4 Further to Paragraph 7 of Form A: Bid/Proposal and C4, the City may issue a purchase order to the successful Bidder in lieu of the execution of a Contract.

B18.4.1 The Contract Documents, as defined in C1.1(p), in their entirety shall be deemed to be incorporated in and to form a part of the purchase order notwithstanding that they are not necessarily attached to or accompany said purchase order.

B18.5 Following the award of contract, a Bidder will be provided with information related to the evaluation of their Bid upon written request to the Contract Administrator.

PART C - GENERAL CONDITIONS

C0. GENERAL CONDITIONS

- C0.1 The *General Conditions for Construction* (Revision 2020-01-31) 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 http://www.winnipeg.ca/matmgt/gen_cond.stm
- C0.2 A reference in the Tender 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) Remove and salvage wooden bollards and reinstall;
- (b) Excavation for new basketball court area and entrance approach;
- (c) Supply and install sub-surface land drainage system;
- (d) Import and place suitable clean clay fill for new court area and entrance approach;
- (e) Subgrade compaction;
- (f) Site grading;
- (g) Material testing;
- (h) Installation of geogrid and geotextile;
- (i) Supply, install and compact granular base materials;
- (j) Supply and install asphalt surfacing;
- (k) Supply and install Sport Court Surfacing material with lines;
- (l) Supply and install chain link fencing and gates;
- (m) Supply and install hoops and nets;
- (n) Pick up and install benches;
- (o) Pick up and install waste receptacle;
- (p) Supply and install topsoil and sod.

D3. SITE INVESTIGATION DUE DILIGENCE AND RISK

D3.1 Notwithstanding C3.1, the Contractor acknowledges that the site investigation reports and other site information included in this Tender have been provided to it and may be relied upon by the Contractor to the extent that the Contractor uses Good Industry Practice in interpreting such report(s) and site information and carries out the Work in accordance with Good Industry Practice based upon such report(s) and the information contained in them and such other site information. In the event that a site condition related to:

- (a) the location of any utility which can be determined from the records or other information available at the offices of any public authority or person, including a municipal corporation and any board or commission thereof, having jurisdiction or control over the utility;
- (b) the Site conditions, including but not limited to subsurface hazardous materials or other concealed physical conditions;
- (c) the location, nature, quality or quantity of the materials to be removed or to be employed in the performance of the Work;
- (d) the nature, quality or quantity of the Plant needed to perform the Work;
- (e) all matters concerning access to the Site, power supplies, location of existing services, utilities or materials necessary for the completion of the Work; and
- (f) all other matters which could in any way affect the performance of the Work;

that could not have been “properly inferable”, “readily apparent” and readily discoverable” using Good Industry Practice by the Contractor, results in additional Work which is a direct result of this newly discovered site condition, such additional Work will be considered by the City under Changes in Work.

D4. DEFINITIONS

D4.1 When used in this Tender:

- (a) “**Supply Chain Disruption**” means an inability by the Contractor to obtain goods or services from third parties necessary to perform the Work of the Contract within the schedule specified therein, despite the Contractor making all reasonable commercial efforts to procure same. Contractors are advised that increased costs do not, in and of themselves, amount to a Supply Chain Disruption;
- (b) “CW” means current City of Winnipeg Standard Construction Specification;
- (c) “SCD” means current City of Winnipeg Parks Planning Standard Construction Detail Drawings;
- (d) “SD” means current City of Winnipeg Standard Construction Detail.

D5. CONTRACT ADMINISTRATOR

D5.1 The Contract Administrator is:

Rob Zanewich
Project Coordinator
Telephone No. 204 451-2723
Email Address rzanewich@winnipeg.ca

D5.2 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.

D6. CONTRACTOR'S SUPERVISOR

D6.1 At the pre-construction meeting, the Contractor shall identify their designated supervisor and any additional personnel representing the Contractor and their respective roles and responsibilities for the Work.

D7. ACCESSIBLE CUSTOMER SERVICE REQUIREMENTS

D7.1 The Accessibility for Manitobans Act (AMA) imposes obligations on The City of Winnipeg to provide accessible customer service to all persons in accordance with the Customer Service Standard Regulation (“CSSR”) to ensure inclusive access and participation for all people who live, work or visit Winnipeg regardless of their abilities.

D7.1.1 The Contractor agrees to comply with the accessible customer service obligations under the CSSR and further agrees that when providing the Goods or Services or otherwise acting on the City of Winnipeg’s behalf, shall comply with all obligations under the AMA applicable to public sector bodies.

D7.1.2 The accessible customer service obligations include, but are not limited to:

- (a) providing barrier-free access to goods and services;
- (b) providing reasonable accommodations;
- (c) reasonably accommodating assistive devices, support persons, and support animals;
- (d) providing accessibility features e.g. ramps, wide aisles, accessible washrooms, power doors and elevators;
- (e) inform the public when accessibility features are not available;

- (f) providing a mechanism or process for receiving and responding to public feedback on the accessibility of all goods and services; and
- (g) providing adequate training of staff and documentation of same.

D8. UNFAIR LABOUR PRACTICES

- D8.1 Further to C3.2, the Contractor declares that in bidding for the Work and in entering into this Contract, the Contractor and any proposed Subcontractor(s) conduct their respective business in accordance with established international codes embodied in United Nations Universal Declaration of Human Rights (UDHR) <https://www.un.org/en/about-us/universal-declaration-of-human-rights> International Labour Organization (ILO) [https://www.ilo.org/global/lang--en/index.htm](https://www.ilo.org/global/lang-en/index.htm) conventions as ratified by Canada.
- D8.2 The City of Winnipeg is committed and requires its Contractors and their Subcontractors, to be committed to upholding and promoting international human and labour rights, including fundamental principles and rights at work covered by ILO eight (8) fundamental conventions and the United Nations Universal Declaration of Human Rights which includes child and forced labour.
- D8.3 Upon request from the Contract Administrator, the Contractor shall provide disclosure of the sources (by company and country) of the raw materials used in the Work and a description of the manufacturing environment or processes (labour unions, minimum wages, safety, etc.).
- D8.4 Failure to provide the evidence required under D8.3, may be determined to be an event of default in accordance with C18.
- D8.5 In the event that the City, in its sole discretion, determines the Contractor to have violated the requirements of this section, it will be considered a fundamental breach of the Contract and the Contractor shall pay to the City a sum specified by the Contract Administrator in writing ("Unfair Labour Practice Penalty"). Such a violation shall also be considered an Event of Default, and shall entitle the City to pursue all other remedies it is entitled to in connection with same pursuant to the Contract.
- D8.5.1 The Unfair Labour Practice Penalty shall be such a sum as determined appropriate by the City, having due regard to the gravity of the Contractor's violation of the above requirements, any cost of obtaining replacement goods/ services or rectification of the breach, and the impact upon the City's reputation in the eyes of the public as a result of same.
- D8.5.2 The Contractor shall pay the Unfair Labour Practice Penalty to the City within thirty (30) Calendar Days of receiving a demand for same in accordance with clause D8.5. The City may also hold back the amount of the Unfair Labour Practice Penalty from payment for any amount it owes the Contractor.
- D8.5.3 The obligations and rights conveyed by this clause survive the expiry or termination of this Contract, and may be exercised by the City following the performance of the Work, should the City determine, that a violation by the Contractor of the above clauses has occurred following same. In no instance shall the Unfair Labour Practice Penalty exceed the total of twice the Contract value.

SUBMISSIONS

D9. AUTHORITY TO CARRY ON BUSINESS

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

D10. SAFE WORK PLAN

- D10.1 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 Documents, if applicable.
- D10.2 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 <http://www.winnipeg.ca/matmgt/Safety/default.stm>
- D10.3 Notwithstanding B13.4 at any time during the term of the Contract, the City may, at their sole discretion and acting reasonably, require an updated COR Certificate or Annual Letter of good Standing. A Contractor, who fails to provide a satisfactory COR Certificate or Annual Letter of good Standing, will not be permitted to continue to perform any Work.

D11. INSURANCE

- D11.1 The Contractor shall provide and maintain the following insurance coverage:
- (a) commercial general liability insurance, in the amount of at least two million dollars (\$2,000,000.00) inclusive, with The City of Winnipeg added as an additional insured, with a cross-liability clause, such liability policy to also contain contractual liability, unlicensed motor vehicle liability, non-owned automobile liability and products and completed operations, to remain in place at all times during the performance of the Work and throughout the warranty period;
 - (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 cover all machinery, equipment, supplies and/or materials intended to enter into and form part of any installation.
- D11.2 Deductibles shall be borne by the Contractor.
- D11.3 The Contractor shall provide the Contract Administrator with a certificate(s) of insurance, in a form satisfactory to the City Solicitor, at least two (2) Business Days prior to the commencement of any Work but in no event later than seven (7) Calendar Days from notification of the award of Contract by Purchase Order.
- D11.4 The Contractor shall not cancel, materially alter, or cause each policy to lapse without providing at least thirty (30) Calendar Days prior written notice to the Contract Administrator.

D12. CONTRACT SECURITY

- D12.1 If the Contract Price exceeds twenty-five thousand dollars (\$25,000.00), the Contractor shall provide and maintain contract 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; and
 - (b) a labour and material payment bond of a company registered to conduct the business of a surety in Manitoba, in the form attached to these Supplemental Conditions (Form H2: Labour and Material Payment Bond), in an amount equal to fifty percent (50%) of the Contract Price; or
 - (c) 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 H3: Irrevocable Standby Letter of Credit), in the amount of fifty percent (50%) of the Contract Price; or
- (d) 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.
- D12.1.1** Where the contract security is a performance bond, it may be submitted in hard copy or digital format. If submitted in digital format the contract security must meet the following criteria:
- (a) the version submitted by the Contractor must have valid digital signatures and seals;
 - (b) the version submitted by the Contractor must be verifiable by the City with respect to the totality and wholeness of the bond form, including: the content; all digital signatures and digital seals; with the surety company, or an approved verification service provider of the surety company.
 - (c) the version submitted must be viewable, printable and storable in standard electronic file formats compatible with the City, and in a single file. Allowable formats include pdf.
 - (d) the verification may be conducted by the City immediately or at any time during the life of the bond and at the discretion of the City with no requirement for passwords or fees.
 - (e) the results of the verification must provide a clear, immediate and printable indication of pass or fail regarding D12.1.1(b).
- D12.1.2** Digital bonds failing the verification process will not be considered to be valid and may be determined to be an event of default in accordance with C18.1. If a digital bond fails the verification process, the Contractor may provide a replacement bond (in hard copy or digital format) within seven (7) Calendar Days of the City’s request or within such greater period of time as the City in their discretion, exercised reasonably, allows.
- D12.1.3** Digital bonds passing the verification process will be treated as original and authentic.
- D12.1.4** Where the contract 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 contract security.
- D12.2** The Contractor shall provide the Contract Administrator identified in D5 with the required contract security within seven (7) Calendar Days of notification of the award of the Contract by way of Purchase Order or an award letter and 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 Documents, if applicable.
- D12.3** Where the Contract Security is provided in accordance with D12.1(a) and D12.1(b), the Contractor shall, as soon as practicable after entering into a contract with a Subcontractor:
- (a) give the Subcontractor written notice of the existence of the labour and material payment bond in D12.1(b); and
 - (b) post a notice of the bond and/or a copy of that bond in a conspicuous location at the Site of the Work.
- D13. SUBCONTRACTOR LIST**
- D13.1** 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.

D14. DETAILED WORK SCHEDULE

- D14.1 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 Documents, if applicable.
- D14.2 The detailed work schedule shall consist of the following:
- (a) Excavation of court area and entrance approach;
 - (b) Preparation of court area and entrance approach subgrade;
 - (c) Installation of land drainage system;
 - (d) Subgrade compaction and geogrid installation;
 - (e) Installation and compaction of sub-base and base course material;
 - (f) Installation of benches, waste receptacle and basketball hoops and posts;
 - (g) Installation of asphalt;
 - (h) Installation of sport court surfacing and lines; and
 - (i) Installation of topsoil and sod; and
- all acceptable to the Contract Administrator.
- D14.3 Other milestone dates appropriate to this project should also be included to make the Contract Administrator aware of them.

D15. PARK ACCESS RESTRICTIONS

- D15.1 The Contractor shall ensure that the construction site is secured and that the public does not gain access to the work areas using adequate and applicable signage and barricades to the satisfaction of the Contract Administrator.
- D15.2 At a minimum, the Contractor shall review the site conditions on a daily basis to ensure that all features related to Park Access Restrictions are in place. The site review is intended to correct deficiencies as a result of unforeseen events such as wind, traffic, or the general public. Deficiencies that are direct result of the Contractors actions must be corrected immediately.
- D15.3 Upon request from the Contract Administrator, the Contractor shall provide records demonstrating that the site has been maintained as per D15.1.

SCHEDULE OF WORK

D16. COMMENCEMENT

- D16.1 The Contractor shall not commence any Work until they are in receipt of a Purchase Order from the Award Authority authorizing the commencement of the Work.
- D16.2 The Contractor shall not commence any Work on the Site until:
- (a) the Contract Administrator has confirmed receipt and approval of:
 - (i) evidence of authority to carry on business specified in D9;
 - (ii) evidence of the workers compensation coverage specified in C6.15;
 - (iii) the Safe Work Plan specified in D10;
 - (iv) evidence of the insurance specified in D11;
 - (v) the contract security specified in D12;
 - (vi) the Subcontractor list specified in D13;
 - (vii) the detailed work schedule specified in D14;
 - (viii) the direct deposit application form specified in D25.

- (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.

D16.3 The Contractor shall provide the Contract Administrator with written evidence that a Locate Request for existing utilities has been submitted for the project within five (5) Working Days of receipt of the award letter.

D16.4 The Contractor shall commence the Work on the Site within fifteen (15) Working Days of receipt of the award letter.

D17. SUBSTANTIAL PERFORMANCE

D17.1 The Contractor shall achieve Substantial Performance within twenty-five (25) consecutive Working Days of the commencement of the Work as specified in D16.

D17.2 When the Contractor considers the Work to be substantially performed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Contract Administrator for purposes of verifying Substantial Performance. Any defects or deficiencies in the Work noted during that inspection shall be remedied by the Contractor at the earliest possible instance and the Contract Administrator notified so that the Work can be reinspected.

D17.3 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.

D18. TOTAL PERFORMANCE

D18.1 The Contractor shall achieve Total Performance within thirty (30) consecutive Working Days of the commencement of the Work as specified in D16.

D18.2 When the Contractor or the Contract Administrator considers the Work to be totally performed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Contract Administrator for purposes of verifying Total Performance. Any defects or deficiencies in the Work noted during that inspection shall be remedied by the Contractor at the earliest possible instance and the Contract Administrator notified so that the Work can be reinspected.

D18.3 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.

D19. LIQUIDATED DAMAGES

D19.1 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 (\$500.00) per Working Day for each and every Working Day following the day fixed herein for Total Performance during which such failure continues.

D19.2 The amount specified for liquidated damages in D19.1 is based on a genuine pre-estimate of the City's damages in the event that the Contractor does not achieve Total Performance by the day fixed herein for same.

D19.3 The City may reduce any payment to the Contractor by the amount of any liquidated damages assessed.

D20. SUPPLY CHAIN DISRUPTION SCHEDULE DELAYS

D20.1 The City acknowledges that the schedule for this Contract may be impacted by the Supply Chain Disruption. Commencement and progress of the Work shall be performed by the Contractor with due consideration to the delivery requirements and schedule identified in the Contract, in close consultation with the Contract Administrator.

- D20.2 If the Contractor is delayed in the performance of the Work by reason of the Supply Chain Disruption, the Work schedule may be adjusted by a period of time equal to the time lost due to such delay and costs related to such delay will be determined as identified herein.
- D20.3 A minimum of seven (7) Calendar Days prior to the commencement of Work, the Contractor shall declare whether a Supply Chain Disruption will affect the start date. The Contractor shall provide sufficient evidence that the delay is directly related to a Supply Chain Disruption, including but not limited to evidence related to ordering of Material or Goods, production and/or manufacturing schedules or availability of staff as appropriate.
- D20.4 For any delay related to Supply Chain Disruption and identified after Work has commenced, the Contractor shall within seven (7) Calendar Days of becoming aware of the anticipated delay declare the additional delay and shall provide sufficient evidence as indicated in D20.3. Failure to provide this notice will result in no additional time delays being considered by the City.
- D20.5 The Work schedule, including the durations identified in D17 to D18 where applicable, will be adjusted to reflect delays accepted by the Contract Administrator. No additional payment will be made for adjustment of schedules except where seasonal work, not previously identified in the Contract, is carried over to the following construction season.
- D20.6 Where Work not previously identified is being carried over solely as a result of delays related to Supply Chain Disruption, as confirmed by the Contract Administrator, the cost of temporary works to maintain the Work in a safe manner until Work recommences, will be considered by the Contract Administrator. Where the Work is carried over only partially due to Supply Chain Disruption, a partial consideration of the cost of temporary works will be considered by the Contract Administrator.
- D20.7 Any time or cost implications as a result of Supply Chain Disruption and in accordance with the above, as confirmed by the Contract Administrator, shall be documented in accordance with C7.

D21. SCHEDULED MAINTENANCE

- D21.1 The Contractor shall perform the following scheduled maintenance in the manner and within the time periods required by the Specifications:
- (a) Sod maintenance as specified in E23.
- D21.2 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

D22. JOB MEETINGS

- D22.1 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.
- D22.2 The Contract Administrator reserves the right to cancel any job meeting or call additional job meetings whenever they deem it necessary.

D23. PRIME CONTRACTOR – THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA)

D23.1 Further to C6.26, 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).

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

D24.1 Further to B13.4, 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 their sole discretion and acting reasonably, require updated proof of compliance, as set out in B13.4.

MEASUREMENT AND PAYMENT

D25. PAYMENT

D25.1 Further to C12, the City shall make payments to the Contractor by direct deposit to the Contractor's banking institution, and by no other means. Payments will not be made until the Contractor has made satisfactory direct deposit arrangements with the City. Direct deposit application forms are at https://winnipeg.ca/finance/files/Direct_Deposit_Form.pdf

WARRANTY

D26. WARRANTY

D26.1 Warranty is as stated in C13.

DISPUTE RESOLUTION

D27. DISPUTE RESOLUTION

D27.1 If the Contractor disagrees with any opinion, determination, or decision of the Contract Administrator, the Contractor shall act in accordance with the Contract Administrator's opinion, determination, or decision unless and until same is modified by the process followed by the parties pursuant to D27.

D27.2 The entire text of C21.4 is deleted, and amended to read: "Intentionally Deleted"

D27.3 The entire text of C21.5 is deleted, and amended to read:

- (a) If Legal Services has determined that the Disputed Matter may proceed in the Appeal Process, the Contractor must, within ten (10) Business Days of the date of the Legal Services Response Letter, submit their written Appeal Form, in the manner and format set out on the City's Materials Management Website, to the Chief Administrative Officer, and to the Contract Administrator. The Contractor may not raise any other disputes other than the Disputed Matter in their Appeal Form.

D27.4 Further to C21, prior to the Contract Administrator's issuance of a Final Determination, the following informal dispute resolution process shall be followed where the Contractor disagrees with any opinion, determination, or decision of the Contract Administrator ("Dispute"):

- (a) In the event of a Dispute, attempts shall be made by the Contract Administrator and the Contractor's equivalent representative to resolve Disputes within the normal course of project dealings between the Contract Administrator and the Contractor's equivalent representative.
- (b) Disputes which in the reasonable opinion of the Contract Administrator or the Contractor's equivalent representative cannot be resolved within the normal course of project dealings as described above shall be referred to a without prejudice escalating negotiation process

consisting of, at a minimum, the position levels as shown below and the equivalent Contractor representative levels:

- (i) The Contract Administrator;
- (ii) Supervisory level between the Contract Administrator and applicable Department Head;
- (iii) Department Head.

- D27.4.1 Names and positions of Contractor representatives equivalent to the above City position levels shall be determined by the Contractor and communicated to the City at the pre-commencement or kick off meeting.
- D27.4.2 As these negotiations are not an adjudicative hearing, neither party may have legal counsel present during the negotiations.
- D27.4.3 Both the City and the Contractor agree to make all reasonable efforts to conduct the above escalating negotiation process within twenty (20) Business Days, unless both parties agree, in writing, to extend that period of time.
- D27.4.4 If the Dispute is not resolved to the City and Contractor's mutual satisfaction after discussions have occurred at the final escalated level as described above, or the time period set out in D27.4.3, as extended if applicable, has elapsed, the Contract Administrator will issue a Final Determination as defined in C1.1(v), at which point the parties will be governed by the Dispute Resolution process set out in C21.

THIRD PARTY AGREEMENTS

D28. FUNDING AND/OR CONTRIBUTION AGREEMENT OBLIGATIONS

- D28.1 Funding for the Work of the Contract is being provided to the City of Winnipeg by the Government of Manitoba and/or the Government of Canada and accordingly, as required by the applicable funding agreements, the following terms and conditions shall apply.
- D28.2 For the purposes of D28:
- (a) **"Government of Canada"** includes the authorized officials, auditors, and representatives of the Government of Canada; and
 - (b) **"Government of Manitoba"** includes the authorized officials, auditors, and representatives of the Government of Manitoba.
- D28.3 Indemnification By Contractor
- D28.3.1 In addition to the indemnity obligations outlined in C17 of the General Conditions for Construction, the Contractor agrees to indemnify and save harmless the Government of Canada and the Government of Manitoba and each of their respective Ministers, officers, servants, employees, and agents from and against all claims and demands, losses, costs, damages, actions, suit or other proceedings brought or pursued in any manner in respect of any matter caused by the Contractor or arising from this Contract or the Work, or from the goods or services provided or required to be provided by the Contractor, except those resulting from the negligence of any of the Government of Canada's or the Government of Manitoba's Ministers, officers, servants, employees, or agents, as the case may be.
- D28.3.2 The Contractor agrees that in no event will Canada or Manitoba, their respective officers, servants, employees or agents be held liable for any damages in contract, tort (including negligence) or otherwise, for:
- (a) any injury to any person, including, but not limited to, death, economic loss or infringement of rights;
 - (b) any damage to or loss or destruction of property of any person; or
 - (c) any obligation of any person, including, but not limited to, any obligation arising from a loan, capital lease or other long term obligation;

in relation to this Contract or the Work.

D28.4 Records Retention and Audits

D28.4.1 The Contractor shall maintain and preserve accurate and complete records in respect of this Contract and the Work, including all accounting records, financial documents, copies of contracts with other parties and other records relating to this Contract and the Work during the term of the Contract and for at least six (6) years after Total Performance. Those records bearing original signatures or professional seals or stamps must be preserved in paper form; other records may be retained in electronic form.

D28.4.2 In addition to the record keeping and inspection obligations outlined in C6 of the General Conditions for Construction, the Contractor shall keep available for inspection and audit at all reasonable times while this Contract is in effect and until at least six (6) years after Total Performance, all records, documents, and contracts referred to in D28.4.1 for inspection, copying and audit by the City of Winnipeg, the Government of Manitoba and/or the Government of Canada and their respective representatives and auditors, and to produce them on demand; to provide reasonable facilities for such inspections, copying and audits, to provide copies of and extracts from such records, documents, or contracts upon request by the City of Winnipeg, the Government of Manitoba, and/or the Government of Canada and their respective representatives and auditors, and to promptly provide such other information and explanations as may be reasonably requested by the City of Winnipeg, the Government of Manitoba, and/or the Government of Canada from time-to-time.

D28.5 Other Obligations

D28.5.1 The Contractor consents to the City providing a copy of the Contract Documents to the Government of Manitoba and/or the Government of Canada upon request from either entity.

D28.5.2 If the Lobbyists Registration Act (Manitoba) applies to the Contractor, the Contractor represents and warrants that it has filed a return and is registered and in full compliance with the obligations of that Act, and covenants that it will continue to comply for the duration of this Contract.

D28.5.3 The Contractor shall comply with all applicable legislation and standards, whether federal, provincial, or municipal, including (without limitation) labour, environmental, and human rights laws, in the course of providing the Work.

D28.5.4 The Contractor shall properly account for the Work provided under this Contract and payment received in this respect, prepared in accordance with generally accepted accounting principles in effect in Canada, including those principles and standards approved or recommended from time-to-time by the Chartered Professional Accountants of Canada or the Public Sector Accounting Board, as applicable, applied on a consistent basis.

D28.5.5 The Contractor represents and warrants that no current or former public servant or public office holder, to whom the Value and Ethics Code for the Public Sector, the Policy on Conflict of Interest and Post Employment, or the Conflict of Interest Act applies, shall derive direct benefit from this Contract, including any employment, payments, or gifts, unless the provision or receipt of such benefits is in compliance with such codes and the legislation.

D28.5.6 The Contractor represents and warrants that no member of the House of Commons or of the Senate of Canada or of the Legislative Assembly of Manitoba is a shareholder, director or officer of the Contractor or of a Subcontractor, and that no such member is entitled to any benefits arising from this Contract or from a contract with the Contractor or a Subcontractor concerning the Work.

FORM H1: PERFORMANCE BOND
(See D12)

KNOW EVERYONE BY THESE PRESENTS THAT

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

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

_____ dollars (\$_____.)

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

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

TENDER NO. 324-2023

SINCLAIR PARK COMMUNITY CENTRE BASKETBALL COURT CONSTRUCTION

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

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

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

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

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

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

_____ day of _____, 20____.

SIGNED AND SEALED
in the presence of:

(Witness as to Principal if no seal)

(Name of Principal)

Per: _____ (Seal)

Per: _____

(Name of Surety)

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

FORM H2: LABOUR AND MATERIAL PAYMENT BOND
(See D12)

KNOW EVERYONE BY THESE PRESENTS THAT

_____ ,
his/its heirs, executors, administrators, successors or assigns (hereinafter called the "Principal"), and

_____ ,
his/its heirs, executors, administrators, successors or assigns (hereinafter called the "Surety"), are held and firmly bound unto **THE CITY OF WINNIPEG** (hereinafter called the "Obligee"), for the use and benefit of claimants as hereinbelow defined, in the amount of

_____ dollars (\$_____)

of lawful money of Canada, for the payment whereof we, the Principal and the Surety jointly and severally bind ourselves firmly by these presents.

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

TENDER NO. 324-2023

SINCLAIR PARK COMMUNITY CENTRE BASKETBALL COURT CONSTRUCTION

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 promptly make payment to all claimants as hereinafter defined, for all labour, service and material used or reasonably required for use in the performance of the Contract, then this obligation shall be void, otherwise it shall remain in full force and effect subject, however, to the following conditions:

- (a) A claimant is defined as one having a direct contract with the Principal for labour, service and material, or any of them, used or reasonably required for use in the performance of the contract, labour, service and material being construed to include that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental of equipment (but excluding rent of equipment where the rent pursuant to an agreement is to be applied towards the purchase price thereof) directly applicable to the Contract;
- (b) The above-named Principal and Surety hereby jointly and severally agree with the Obligee that every claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) days after the date on which the last of such claimant's work, labour or service was done or performed, or materials were furnished by such claimant, may sue on this bond, prosecute the suit to final judgment for such sum or sums as may be justly due claimant, and have execution thereon;
- (c) No suit or action shall be commenced hereunder by any claimant
 - (i) unless claimant shall have given written notice to the Principal and the Surety above-named, within one hundred and twenty (120) days after such claimant did or performed the last of the work, labour or service, or furnished the last of the materials for which said claim is made, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were furnished, or for whom the work, labour or service was done or performed. Such notice shall be served by mailing the same by registered mail to the Principal, and Surety, at any place where an office is regularly maintained for the transaction of business, or served in any manner in which legal process may be served in the Province of Manitoba;

- (ii) after the expiration of one (1) year following the date on which Principal ceased work on said Contract; including work performed under the guarantees provided in the Contract;
 - (iii) other than in a court of competent jurisdiction in the Province of Manitoba.
- (d) The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of mechanics liens which may be filed of record against said improvement, whether or not claim for the amount of such lien be presented under and against this bond.
- (e) The Surety shall not be liable for a greater sum than the specified penalty of this bond.

The Principal and Surety hereby agree that The Guarantors' Liability Act (Manitoba) shall apply to this Bond.

IN TESTIMONY WHEREOF, the Principal has hereunto set its hand affixed its seal, and the Surety has caused these presents to be sealed and with its corporate seal duly attested by the authorized signature of its signing authority this

_____ day of _____, 20____.

SIGNED AND SEALED
in the presence of:

(Witness as to Principal if no seal)

(Name of Principal)

Per: _____ (Seal)

Per: _____

(Name of Surety)

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

**FORM H3: IRREVOCABLE STANDBY LETTER OF CREDIT
(CONTRACT SECURITY)
(See D12)**

(Date)

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

RE: CONTRACT SECURITY - TENDER NO. 324-2023

SINCLAIR PARK COMMUNITY CENTRE BASKETBALL COURT CONSTRUCTION

Pursuant to the request of and for the account of our customer,

(Name of Contractor)

(Address of Contractor)

WE HEREBY ESTABLISH in your favour our irrevocable Standby Letter of Credit for a sum not exceeding in the aggregate

_____ Canadian dollars.

This Standby Letter of Credit may be drawn on by you at any time and from time to time upon written demand for payment made upon us by you. It is understood that we are obligated under this Standby Letter of Credit for the payment of monies only and we hereby agree that we shall honour your demand for payment without inquiring whether you have a right as between yourself and our customer to make such demand and without recognizing any claim of our customer or objection by the customer to payment by us.

The amount of this Standby Letter of Credit may be reduced from time to time only by amounts drawn upon it by you or by formal notice in writing given to us by you if you desire such reduction or are willing that it be made.

We engage with you that all demands for payment made within the terms and currency of this Standby Letter of Credit will be duly honoured if presented to us at:

(Address)

and we confirm and hereby undertake to ensure that all demands for payment will be duly honoured by us.

All demands for payment shall specifically state that they are drawn under this Standby Letter of Credit.

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

(Date)

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

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

Except where they may conflict with the terms and conditions contained in this Letter of Credit, the International Standby Practices 1998 shall apply to this Letter of Credit. This Letter of Credit shall also be governed by and construed in accordance with the laws of the Province of Manitoba and of Canada as applicable therein, except to the extent that such laws are inconsistent with the International Standby Practices 1998. This Letter of Credit is subject to the exclusive jurisdiction of the courts in the Province of Manitoba and all courts competent to hear appeals therefrom.

(Name of bank or financial institution)

Per: _____
(Authorized Signing Officer)

Per: _____
(Authorized Signing Officer)

PART E - SPECIFICATIONS

GENERAL

E1. APPLICABLE SPECIFICATIONS AND DRAWINGS

- E1.1 These Specifications shall apply to the Work.
- E1.2 *The City of Winnipeg Standard Construction Specifications* in their entirety, whether or not specifically listed on Form B: Prices, shall apply to the Work.
- E1.2.1 *The City of Winnipeg Standard Construction Specifications* is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/Spec/Default.stm>
- E1.2.2 The version in effect three (3) Business Days before the Submission Deadline shall apply.
- E1.2.3 Further to C2.4(d), Specifications included in the Tender shall govern over *The City of Winnipeg Standard Construction Specifications*.
- E1.3 Bidders are reminded that requests for approval of substitutes as an approved equal or an approved alternative shall be made in accordance with B7. In every instance where a brand name or design specification is used, the City will also consider approved equals and/or approved alternatives in accordance with B7.
- E1.4 The following are applicable to the Work:

<u>Specification No.</u>	<u>Specification Title</u>
CW-1110	General Instructions
CW-1130	Site Requirements
CW-2030	Excavation Bedding and Backfill
CW-2130	Gravity Sewers
CW-2160	Concrete Underground Structures and Works
CW-3110	Sub-Grade, Sub-Base and Base Course Construction
CW-3135	Supply and Installation of Geogrid
CW-3170	Earthwork and Grading
CW-3310	Portland Cement Concrete Pavement Works
CW-3410	Asphaltic Concrete Pavement Works
CW-3510	Sodding
CW-3540	Topsoil
CW-3550	Chain Link Fence

<u>Drawing No.</u>	<u>Drawing Name/Title</u>
S.26-D1	Sinclair Park CC Basketball Court Construction - Existing Conditions & Removals
S.26-D2	Sinclair Park CC Basketball Court Construction - Proposed
S.26-D3	Sinclair Park CC Basketball Court Construction - Details
S.26-D4	Sinclair Park CC Basketball Court Construction - Layout Plan
C-101	Sinclair Park CC Basketball Court Construction - Grading & Servicing Plan
C-501	Sinclair Park CC Basketball Court Construction - Details
SCD-105G	Post & Chain Fencing for Vehicle Access
SCD-119	Waste Receptacle Metal Slat Type
SCD-121C	Tache Backless Bench Composite w/ Arms
SCD-304	Tennis and Basketball Fencing
SCD-305A	Typical Sport Court Section
SCD-320	High School Basketball
SCD-648	Park Pathway Asphalt
SCD-661	Perforated Pipe w/ Filter Cloth Drainage System
SCD-668	Drain Basin
SD-243	Sodding Details

SD-001 Standard Trench and Excavation Backfill Classes

E2. ACCESS TO SITE

- E2.1 Access to the Site as required by the Contractor shall be provided and maintained by the Contractor at his/her own expense and approved by the Contract Administrator.
- E2.2 The Contractor's operations shall be limited to the minimum area necessary for undertaking the Work and he/she shall be responsible for all damage resulting from his/her Work on private property.

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

- E3.1 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.
- E3.2 The Contractor shall comply with all laws, ordinances, rules and regulations that would relate to the Work.
- E3.3 All notices, consents, approvals, statements, authorizations, documents or other communications to the City shall be submitted to the Contract Administrator.
- E3.4 All Work shall be performed in compliance with the Manitoba Workplace Health and Safety Act.
- E3.5 All Work shall be performed in compliance with the Manitoba Workplace Health and Safety Fall Protection guidelines.
- E3.6 The Contractor and Sub-contractors must be fully aware of all Work involving hazardous materials. All Work must be performed in compliance with the Manitoba Department of Labour 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.

E4. DAMAGE TO EXISTING STRUCTURES, TREES AND PROPERTY

- E4.1 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.
- E4.2 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 mm 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, refueled; 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.

E4.3 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.

E4.4 No separate measurement or payment will be made for the protection of trees.

E5. PEDESTRIAN SAFETY AND TRAFFIC MANAGEMENT

E5.1 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/she is working near them. Any damage caused by the negligence of the Contractor or his/her Subcontractors to the adjacent Works or properties, shall be promptly repaired by him at his/her own expense, to the satisfaction of the Contract Administrator.

E5.2 Ambulance/ Emergency vehicle access must be maintained at all times.

E5.3 Contractor to maintain public sidewalk access free and clear of construction equipment, construction material, and debris.

E6. PROTECTION OF SURVEY INFRASTRUCTURE

E6.1 Notwithstanding clause 4 "Persons and municipalities to protect Outline Monuments"; under The Surveys Act, of Manitoba, the Contractor shall be responsible to protect the Survey Infrastructure from damage as a result of the Work.

E6.2 Further to C6.26 (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 204-918-1360 (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.

E6.3 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. 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.

E6.4 An approximate estimate of the cost to restore a legal survey monument is \$1,000 per bar and \$3,000 per control monument. Contractors shall ensure their landscaping and other subcontractors are aware of this clearance procedure and the potential restoration costs. Where possible, amounts owed to the City in accordance with the above will be deducted from payments to be made by the City to the Contractor.

E7. SITE ENCLOSURES

E7.1 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.

E7.2 Site enclosures shall be considered incidental to the Contract Work.

E8. GENERAL INSTRUCTIONS

E8.1 General

- (a) This Specification provides general instructions for definitions of terms used in the Standard Construction Specifications, quality control measures for materials supplied, equipment used, submittals (samples, mock-ups, photographic documentation), and shop drawings and product data required for performing the Work as per the Specifications and as directed by the Contract Administrator.
- (b) Do not proceed with Work affected by submittal until review is complete.
- (c) Present shop drawings, product data, samples and mock-ups in Metric units.
- (d) Review submittals prior to submission to Contract Administrator. This review represents that necessary requirements have been determined and verified, or will be, and that each submittal has been checked and co-ordinated with requirements of the Work, Specifications and Drawings. Submittals not stamped, signed, dated and identified as to specific project may be returned without being examined and considered rejected.
- (e) Notify Contract Administrator, in writing at time of submission, identifying deviations from requirements of the Specifications and Drawings stating reasons for deviations.
- (f) Verify field measurements and affected adjacent Work are co-ordinated.
- (g) Contractor's responsibility for errors and omissions in submission is not relieved by Contract Administrator's review of submittals.
- (h) Contractor's responsibility for deviations in submission from requirements of the Specifications and Drawings is not relieved by Contract Administrator review.
- (i) Keep one reviewed copy of each submission on site.

E8.2 Definitions

- (a) Capitalized wording that appears in the City of Winnipeg Standard Construction Specifications is applicable to the definitions contained in Clause GC:1 of the General Conditions for Construction Contracts.

E8.3 Quality Control

E8.3.1 Quality Control

- (a) Testing and Approval of Materials
 - (i) Material testing by a qualified independent testing laboratory approved by the Contract Administrator shall be required as per this Specification and as directed by the Contract Administrator.
 - (ii) The Contractor shall not proceed with each granular fill placement until test results have been reviewed and approval to proceed is granted by the Contract Administrator.
 - (iii) The Contract Administrator will conduct a survey of the operation to verify installation of specified layer thickness.
 - (iv) Non-conformity with the specified test requirements or compacted layer thickness will constitute sufficient grounds for rejection of the Work and may require removal and replacement by the Contractor at their own expense to the satisfaction of the Contract Administrator

E8.4 Equipment

- (a) Equipment per Section 1.4 of CW 1110.

E8.5 Submittals

- (a) Provide submittals in accordance with the Specifications or as required by the Contract Administrator.

(i) Samples

- ◆ Submit for review samples as requested in respective Specification sections. Label samples with origin and intended use.
- ◆ Deliver samples prepaid to Contract Administrator.
- ◆ Notify Contract Administrator in writing, at time of submission of deviations in samples from requirements of the Specifications or Drawings.
- ◆ Where colour, pattern or texture is criterion, submit full range of samples.
- ◆ Adjustments made on samples by Contract Administrator are not intended to change Contract Price. If adjustments affect value of Work, state such in writing to Contract Administrator prior to proceeding with Work.
- ◆ Make changes in samples which Contract Administrator may require, consistent with the Specifications and Drawings.
- ◆ Reviewed and accepted samples will become standard of workmanship

(ii) Photographic Documentation

- ◆ Submit electronic copy of colour digital photography in jpg format, standard resolution as directed by the Contract Administrator.
- ◆ Contractor to identify name and number of project and date of exposure.

(iii) As-Built Drawings

- ◆ Submit electronic file of as As-Built drawings in a timely manner, as per the Specifications, and as directed by the Contract Administrator.
- ◆ Contractor to stamp, date, and initial As-Built drawings prior to submitting.

E8.6 Shop Drawings and Product Data

- (a) Prepare and submit Shop Drawings and Product Data in accordance with Section 1.5 of CW 1110 and as an electronic file.
- (b) Shop Drawing and Product Data review and conditions will be conducted per Section 1.5 of CW 1110.

E8.7 Measurement and Payment

- (a) Quality Control requirements, Equipment, Submittals and Shop Drawings and Product Data will not be measured for payment and will be included with the Work unless otherwise indicated in the Specifications.

E9. BACKSTOP REMOVAL

E9.1 Description

- E9.1.1 This Specification shall cover the removal of the existing chain link backstop fence mesh, posts, two benches and concrete piles as identified on the Drawings.
- E9.1.2 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.

E9.2 Construction Methods

E9.2.1 Backstop Removal

- (a) The Contractor shall remove the backstop chain link fence mesh, posts, benches and concrete piles designated for removal including any hardware and fasteners.
- (b) Backfill fence and bench post holes with compacted class 2 or class 3 backfill.

- (c) The Contractor shall load and haul all materials from the site and legally dispose of these materials.

E9.3 Measurement and Payment

E9.3.1 Method of Measurement shall be as follows:

- (a) Backstop Removal shall be measured on a lump sum basis for:
 - (i) "Backstop Removal and Upper 600m of concrete piles." on the Bid Form B: Prices

E9.3.2 Basis of Payment shall be as follows:

- (a) Backstop Removal will be paid for at the Contract Lump Sum Price for "Backstop Removal and Upper 600m of concrete piles." The amount to be paid for shall be the total number of units, as indicated on the Bid 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.

- E9.4 No separate measurement or payment shall be made for the removal and disposal of any hardware, concrete piles, benches or back filling of post holes.

E10. REMOVAL AND REINSTALLATION OF WOOD BOLLARDS AND CHAIN

E10.1 Description

- E10.1.1 This Specification shall cover the removal and reinstallation of four existing wood bollards and access chain as identified on the Drawings.

- E10.1.2 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.

E10.2 Construction Methods

E10.2.1 Wood Bollard and Chain Removal and Reinstallation

- (a) The Contractor shall remove and salvage the 4 existing wood bollards and chain shown on the Drawing. Once access to the construction area is longer required, the Contractor shall reinstall the four (4) bollards and chain in the same location and to the same height they were at before removal.

E10.3 Measurement and Payment

E10.3.1 Method of Measurement shall be as follows:

- (a) Removal and Reinstallation of Wood Bollards and Chain shall be measured on a lump sum basis for:
 - (i) "Removal and Reinstallation of Wood Bollards and Chain" on the Bid Form B: Prices

E10.3.2 Basis of Payment shall be as follows:

- (a) Removal and Reinstallation of Wood Bollards and Chain will be paid for at the Contract lump sum price for "Removal and Reinstallation of Wood Bollards and Chain" The amount to be paid for shall be the total number of units, as indicated on the Bid 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.

E11. EXCAVATION AND GRADING

E11.1 General Description

- E11.1.1 This Specification shall amend and supplement CW 3110 and CW 3170. It shall cover the excavation and legal disposal of existing earthen materials and site grading for site drainage areas, asphaltic sport court and entrance approach.
- E11.1.2 If required by the Contract Administrator, layout and grades shall be established by a professional land surveyor.
- E11.1.3 Excavation includes the removal of items (i.e., earthen materials) 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.
- E11.1.4 Work shall include but not be limited to the following:
- (a) Asphalt Basketball Court
 - (b) Asphalt Entrance Approach to Basketball Court as per the Drawings and SCD-648.
 - (c) Site drainage areas outside the Basketball Court area.
- E11.1.5 Excavate, add clean fill if necessary, and grade to the limits shown on Drawings to the depths necessary to achieve finish grades indicated in the Drawings.
- E11.1.6 All extraneous materials are to be removed from the Site and disposed of in a safe and legal manner.
- E11.1.7 The Work to be completed by the Contractor under this Specification shall include the supply of all materials, and the furnishings of all superintendence, overhead, labour, equipment, tools, and all other things necessary for and incidental to the satisfactory completion of all the Work shown on the Drawings and specified herein.
- E11.2 Construction Methods
- E11.2.1 Excavation
- (a) If required to achieve finished grades, stockpile suitable, approved material on Site for reuse (clean topsoil, clean earth fill,) in a secure location to the satisfaction of the Contract Administrator. 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) Excavate to the limits shown and as necessary to achieve finish grades as indicated on the Drawings. Where design grades are not shown, the new surface materials shall be installed to meet flush with surrounding grades, and sloped so as not to impede the existing drainage pattern.
 - (e) The Contractor shall construct all sub-grades in accordance with CW 3110. This shall include the use of suitable compaction equipment as approved by the Contract Administrator to achieve a minimum compaction of 98% Standard Proctor Density below all paved areas (asphalt, concrete, stone chip and limestone paving), and 90% Standard Proctor Density in all other areas disturbed under this Contract unless otherwise indicated. Lifts shall not exceed a compacted thickness of 150 mm.
 - (f) Where new sod will meet existing, employ a vertical shearing operation, such as using a sharp spade or edger, along the outside edges of the excavation to create a clean and definite line for the new sod to abut flush to.
- E11.2.2 Grading
- (a) Site grading shall be as per the Drawings.
 - (b) The design grade shall be considered to be straight grade between finished design elevations shown. Changes in grade at swales or where it meets existing sod shall be gently contoured to allow for ease of grass mowing operations.

- (c) Contractor to ensure site grading does not create tripping hazards and no areas of standing water remain.
- (d) If necessary the Contractor shall import clean fill to achieve grades as per the Drawings.
- (e) Backfill shall be placed in a dry, thawed condition and shall be maintained free of moisture or frost.
- (f) In fill areas where the difference between the existing ground elevation and the new finished design elevation is less than 300 mm, the Contractor shall scarify the existing ground to a minimum depth of 50 mm prior to placement of any fill.
- (g) In areas where new grades are greater than 75 mm than existing grades, clean fill shall be used to achieve finished subgrade levels. Suitable clean fill can be used from On-Site grading operations. If additional clean fill is required, it must be hauled in from Off-Site. All costs in connection with importing clean clay fill are incidental and shall be included in the unit price bid for construction of the basketball court or site drainage areas.

E11.2.3 Finish Grading

- (a) Following earthmoving, rough grading and compaction, the Work areas shall be finish graded to provide a maximum deviation of 50 mm in 10 meters from the design grade with no low areas that hold water. The finished surface of all disturbed areas shall be dragged and smoothed in such a manner that there are no loose soil particles greater than 50 mm.
- (b) When grading for a field or swale, the grading work must be undertaken using earthmoving equipment that is guided by laser or GPS controlled data. Visual grade stakes shall also be installed to supplement the electronic data, unless otherwise agreed to by Contract Administrator.
- (c) All surplus fill material shall be removed and legally disposed off-site.
- (d) Do not disturb adjacent items designated to remain in place.

E11.3 Method of Measurement and Basis of Payment

- (a) Method of Measurement and Basis of Payment for Excavation and Grading shall be included in E18, "Sport Court Asphaltic Concrete Pavement Works."
- (b) Method of Measurement for "Site Grading Outside of Asphalt Areas", shall be measured on a square metre basis and will be paid for at the Contract Unit Prices.
- (c) No separate measurement will be made for retainment of services by the Contractor relating to survey or layout and establishing grades as these items are incidental to the Work herein.
- (d) No separate measurement will be made for the following items as these items are incidental to the Work therein:
 - (i) Import of clean fill to achieve rough grading grades and earthwork and site grading grades.

E11.3.1 Basis of Payment shall be as follows:

- (a) Method of Payment for "Site Grading Outside of Asphalt Areas" shall be the total number of units, as indicated on Form B: Prices. This price shall be full payment for "Site Grading" including excavation and grading, excavation of existing infield mix, removal of fill and importation of clean clay fill if necessary, 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.

E12. REMOVAL OF CATCH BASINS

E12.1 Description

- E12.1.1 This Specification shall cover the removal of two existing catch basins as identified on the Drawings.

E12.1.2 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.

E12.2 Construction Methods

E12.2.1 Catch Basin Removal

- (a) The Contractor shall remove the catch basins designated for removal and plug and abandon the existing sewer pipe in accordance with 3.19 of CW 2130-R12.
- (b) Backfill holes from old catch basin areas with compacted class 2 or class 3 backfill. Final 100mm shall be finished with topsoil and sod as per E23.
- (c) The Contractor shall load and haul all materials from the site and legally dispose of these materials.

E12.3 Measurement and Payment

E12.3.1 Method of Measurement shall be as follows:

- (a) Removal of Catch Basin shall be measured on a lump sum basis for:
 - (i) "Removal of Catch Basins" on the Bid Form B: Prices

E12.3.2 Basis of Payment shall be as follows:

- (a) Removal of Catch Basins will be paid for at the Contract lump sum price for "Removal of Catch Basins." The amount to be paid for shall be the total number of units, as indicated on the Bid 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.

E12.4 No separate measurement or payment shall be made for plugging and abandoning the existing land drainage sewers.

E13. LAND DRAINAGE SEWER PIPE

E13.1 Description

E13.1.1 This Specification shall amend and supplement CW 2130 "Gravity Sewers" and shall cover the supply and installation of land drainage sewer pipe, couplings, elbows, bends, tees and saddles associated with manhole connections as well as the land drainage sewer.

E13.1.2 The Work to be completed by the Contractor under this Specification shall include the supply of all materials, and the furnishings of all superintendence, overhead, labour, equipment, tools, materials testing and all other things necessary for and incidental to the satisfactory completion of all the Work shown on the Drawings and specified herein.

E13.2 Materials

- (a) ADS, HDPE 250 mm diameter dual wall N-12WTIB sub-surface drainage pipe, smooth-walled interior solid c/w all gaskets and fittings specified by the Manufacturer according to the lengths shown on the Drawings.

E13.3 Construction Methods

- (a) The land drainage pipes are to be installed as per CW 2130 "Gravity Sewers," and as shown on the Drawings.
- (b) The layout of the land drainage pipes shall to be marked out on Site and reviewed by the Contract Administrator.
- (c) Trenches shall be excavated as shown on the Drawings and in accordance with CW 2030 and CW 2130. 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 drainage pipe that can be installed and backfilled prior to the end of each Working Day.

- (d) The bottoms of trenches are to be free of loose materials and shall have a constant slope as indicated on the Drawings. Over excavation of the trench shall be backfilled to the correct grade with compacted excavated material prior to placement of the land drainage pipe.
- (e) Trench bedding and backfill in accordance with CW 2030 and SD-001 and SD-002.
- (f) The grades of the bottom of the trench are to be reviewed by the Contract Administrator prior to the installation of land drainage pipe.
- (g) Land Drainage Pipe shall be joined with a bell-and-spigot joint. The joint shall be watertight. Gaskets shall be made of polyisoprene and shall not have any visible cracking. Gaskets shall be installed by the pipe manufacturer and covered with a removable wrap to ensure the gasket is free from debris. A joint lubricant available from the Manufacturer shall be used on the gasket and bell during assembly.
- (h) Fittings for the land drainage pipes shall be in accordance with the Manufacturer's specifications. Ensure watertight bell and spigot joints.
- (i) Any damaged portion of the land drainage pipes shall be replaced or repaired by splicing in an undamaged section of like material at the Contractor's expense.
- (j) Land Drainage Pipes shall be connected to each Drain Basin then finally, to the existing concrete manholes as per Manufacturer's specifications, CW2130 and the Drawings.
- (k) Land Drainage Pipe Restrictors shall be supplied and installed in accordance with Drawing C-501 and SD-025B. Restrictors shall be cemented inside outlet pipes. Diameter sizes as per C-501.
- (l) After the land drainage pipe has been installed and connections made to Drain Basins and manholes, the Contractor shall clean out the sewer pipes and supply the Contract Administrator with a video inspection of the interior of the entire length of all land drainage pipes.

E13.4 Method of Measurement and Basis of Payment

E13.4.1 Method of Measurement shall be as follows:

- (a) (a) Land drainage pipes will be measured on a linear metre basis for:
 - (i) "Supply and Install Land Drainage Pipes"; on the Bid Form B: Prices.
- (b) No separate measurement shall be made for connections to Drain Basins or Manholes as this work is incidental to the Work herein.
- (c) No separate measurement shall be made for sewer cleaning and video inspection as this work is incidental to the Work herein.

E13.4.2 Basis of Payment shall be as follows:

- (a) Supply and Install Land Drainage Pipe 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 the Bid Form. 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.
- (b) Price will also include all restoration work required, sewer cleaning and video inspection.

E14. PERFORATED DRAINAGE PIPE

E14.1 General Description

- E14.1.1 This Specification shall cover the supply and installation of a perforated HDPE drainage pipe complete with connection to a proposed Drain Basin as shown on the Drawings and in accordance with SCD-661.
- E14.1.2 Work to be executed as per CW-2130, CW-3120, CW-3130, SD-245, SCD-661 and as shown on the Drawings.

- E14.1.3 The Work to be completed by the Contractor under this Specification shall include the supply of all materials, and the furnishings of all superintendence, overhead, labour, equipment, tools, and all other things necessary for and incidental to the satisfactory completion of all the Work shown on the Drawings and specified herein.
- E14.2 Materials
- E14.2.1 Perforated Drainage Pipe shall may be:
- (a) "Goldline" 100 mm dia. (4") high-density polyethylene (HDPE) perforated drainage pipe, complete with fittings and polyester sock.
 - (i) Goldline®
 - ◆ Manufacturer: Prinsco Water Management Solutions
 - (ii) Website: <https://www.prinsco.com/prinsco-markets/products/goldline-stormwater/>
 - (iii) Ph: 1-800-992-1725
 - ◆ Specifications: <https://www.prinsco.com/wp-content/uploads/2017/09/Goldline-HD-Prinsco-Single-Wall-Specification.pdf>
 - (iv) Or approved substitute as per B7.
 - ◆ Substitutions must meet the requirements of the American Association of State Highway and Transportation Officials (AASHTO) M252 and AASHTO M294.
 - ◆ Geotextile cover substitutions must meet requirements of ASTM D-3776, ASTM D-4632, ASTM D-751, ASTM D-3786, ASTM D-4533, ASTM D-4491, ASTM D-4751, ASTM D-4595 and ASTM G-21
 - ◆ Drainage core substitutions must meet requirements of ASTM D-1777, ASTM D-4716 and ASTM D-1621
- E14.2.2 Fittings
- (a) The fittings used shall be of the Manufacturer's connector designed specifically for the purpose. Cleanouts may be provided as indicated on the Drawings.
- E14.2.3 Backfill for Trenches
- (a) Backfill for trenches utilizing HDPE perforated drainage pipe as per CW-3120, CW-3130 and SCD-661.
- E14.3 Construction Methods
- E14.3.1 Installation of Goldline (HDPE) perforated drainage pipe:
- (a) Perforated Drain Pipe is not to proceed until after the excavation/grading has been approved by the Contract Administrator.
 - (b) The layout of the subdrain is to be marked on Site and approved by the Contract Administrator prior to trenching.
 - (c) Layout of Perforated Drain Pipe shall be coordinated with layout of Drain Basin to prevent damage to pipe during Drain Basin installation.
 - (d) Install as per the Drawings and as per CW-3120, CW-3130, and SCD-661.
- E14.3.2 Fittings for the drain will be installed in accordance with the Manufacturer's recommendations and written specifications ensuring a watertight connection.
- E14.3.3 Contractor is to protect pipe from excessive weight for the duration of construction and to repair and make good any pipe collapsed prior to acceptance.
- E14.3.4 The Contractor shall be responsible for restoration of any surfaces damaged during the Work under this section.
- E14.3.5 The drainage swale on top of the trench is to be finished as shown on the Drawings.

- E14.3.6 The sub-surface drain pipe shall be connected to a 1.5m long HDPE solid pipe and the pipe shall then be connected to the proposed Drain Basin in accordance with Manufacturer's recommendations and to the satisfaction of the Contract Administrator.
- E14.3.7 Connections to proposed Drain Basin as per Section 3.15 of CW 2130, ensuring a watertight connection.
- E14.3.8 Trenches must be inspected by the Contract Administrator prior to backfilling.
- E14.4 Method of Measurement and Basis of Payment
- E14.4.1 Method of Measurement shall be as follows:
- (a) Perforated Drain Pipe will be measured on a lineal metre basis for "Supply and Install Perforated Drainage Pipe" on Form B: Prices.
 - (b) No separate measurement shall be made for Restrictors or connection to the Drain Basins as these items are incidental to the Work herein.
- E14.4.2 Basis of Payment shall be as follows:
- (a) Perforated Drainage Pipe 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.
- E14.5 No separate payment shall be made for connection to the Drain Basin as this item is incidental to the Work herein.

E15. DRAIN BASINS

- E15.1 Description
- (a) This Specification shall cover the supply and installation of three (3) Drain Basins, frames, lockable covers and any associated fittings or accessories and appurtenances as well as any necessary repairs to sidewalks, turf or otherwise.
- E15.2 Materials
- (a) Two (2) 600 mm diameter Nyloplast 2824AG Drain Basins c/w lockable Standard Ductile Iron Grate and Frame, 300 mm sump depth and all required fittings specified by the Manufacturer and as shown on the Drawings and SCD-668.
 - (b) One (1) 300 mm diameter Nyloplast 2812AG Drain Basin c/w lockable Standard Ductile Iron Grate and Frame, 300 mm sump depth and all required fittings specified by the Manufacturer and as shown on the Drawings and SCD-668.
- E15.3 Construction Methods
- (a) Drain Basins are to be installed in the locations and to the design elevations shown on the Drawings.
 - (b) The location of the Drain Basins shall to be marked out on Site and reviewed by the Contract Administrator prior to installation.
 - (c) Excavations at any time shall not exceed the amount of Drain Basins that can be installed and backfilled prior to the end of each Working Day.
 - (d) Drain Basin bedding and backfill in accordance with the Drawings, SCD-668, CW 2030 and SD-001 and SD-002.
 - (e) The grades of the bottom of the Drain Basin are to be reviewed by the Contract Administrator prior to the installation of Drain Basin.
 - (f) Non-woven Filter Fabric, as shown on the Drawing shall be supplied and installed in accordance with CW 3130.
 - (g) Land Drainage Pipes shall be connected to each Drain Basin then finally, to the existing concrete manholes as per CW 2130 and the Drawings.

E15.4 Method of Measurement and Basis of Payment

E15.4.1 Method of Measurement shall be as follows:

- (a) (a) Drain Basins will be measured on a linear metre basis for:
 - (i) "Supply & Install 600mm Drain Basin c/w Frame, Lockable Cover and 300mm Sump," and;
 - (ii) "Supply & Install 300mm Drain Basin c/w Frame, Lockable Cover and 300mm Sump," on the Bid Form B: Prices.
- (b) No separate measurement shall be made for connections to Drain Basins or Manholes as this work is incidental to the Work herein.

E15.4.2 Basis of Payment shall be as follows:

- (a) Supply and Install Drain Basins 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 the Bid Form. 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 ENTRANCE APPROACH TO SPORT COURT

E16.1 General Description

E16.1.1 This Specification shall supplement CW 3110, CW 3130, and 3410 and shall cover the supply and installation of asphalt entrance approach to sport court.

E16.1.2 The Work to be completed by the Contractor under this Specification shall include the supply of all materials, and the furnishings of all superintendence, overhead, labour, equipment, tools, and all other things necessary for and incidental to the satisfactory completion of all the Work shown on the Drawings and specified herein.

E16.1.3 The use of recycled concrete as a base material will not be permitted.

E16.2 General Instructions

E16.2.1 Quality Control

- (a) Testing and Approval of Materials
 - (i) Material testing will be required as per this Specification and as directed by the Contract Administrator.

E16.2.2 Submittals

- (a) Samples
 - (i) Material samples may be required, at the discretion of the Contract Administrator, for materials supplied under this Specification.

E16.3 Excavation

E16.3.1 Description

- (a) This specification shall be done in accordance with E10, the Drawings, CW 3170, CW 3110, and as per SCD-648 as indicated on the Drawings.
- (b) Excavation shall be understood to include all removal of existing insitu material necessary to achieve finished grade and as indicated on the Drawings.
- (c) The Contractor shall survey and stake out the proposed asphalt entrance approach to sport court prior to the start of construction as shown on the construction drawings. Layout shall be checked and confirmed with Contract Administrator prior to construction.

E16.3.2 Construction Methods

- (a) Excavation shall be done in accordance with E10, SCD-648 and as outlined in Section 3.2 of CW 3110.

- (b) In locations where, existing tree root systems intersect with the pavement area, excavation shall be done carefully so as not to damage or sever any roots of the trees.
- (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 legally disposed of off-site to the satisfaction of the Contract Administrator.

E16.4 Sub-Grade Compaction

E16.4.1 Description

- (a) Sub grade compaction shall be done in accordance with CW 3110.

E16.4.2 Construction Methods

- (a) Sub-grade compaction shall be performed as outlined in Section 3.3 of CW 3110.
- (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 (minimum 25 passes) and inspected by the Contract Administrator to detect for any soft spots prior to the placement of overlying granular fills.

E16.5 Geotextile Fabric

E16.5.1 Description

- (a) Geotextile Fabric shall be placed in accordance with CW 3130.

E16.5.2 Materials

- (a) The separation/ reinforcement non-woven geotextile fabric shall conform to the Products Approved as listed in City of Winnipeg Specification for Approved Products for Surface Works.
 - (i) https://www.winnipeg.ca/finance/findata/matmgt/std_const_spec/current/Docs/Approved_Products_Surface_Works.pdf

E16.5.3 Construction Methods

- (a) Separation/ Reinforcement geotextile fabric shall be installed as outlined in Section 3.1 of CW 3110.

E16.6 Crushed Limestone Sub-base Course Material

E16.6.1 Description

- (a) Crushed limestone sub-base material shall be supplied and installed in accordance with CW 3110.

E16.6.2 Materials

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

E16.6.3 Construction Methods

- (a) Crushed limestone sub-base material shall be supplied and installed as outlined in Section 3.4 of CW 3110.
- (b) All limestone sub-base material shall be placed and compacted as specified to a finished thickness as shown on the Drawings.

E16.7 Crushed Limestone Base Course Material

E16.7.1 Description

- (a) Crushed limestone base material shall be supplied and installed in accordance with CW 3110.

E16.7.2 Materials

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

E16.7.3 Construction Methods

- (a) Crushed limestone base material shall be supplied and installed as outlined in Section 3.6 of CW 3110.
- (b) All limestone base course material shall be placed and compacted as specified to finished thickness as shown on the drawings.

E16.8 Asphaltic Pavement

E16.8.1 Description

- (a) Asphaltic Pavement for the asphalt entrance approach to sport court shall be supplied and installed in accordance with City of Winnipeg Standard Construction Specification CW 3410 "Asphaltic Concrete Pavement Works".

E16.8.2 This Specification shall supplement the Drawings, SCD-648 and shall cover the supply and installation of asphaltic concrete pavement.

E16.8.3 The Work to be completed by the Contractor under this Specification shall include the supply of all materials, and the furnishings of all superintendence, overhead, labour, equipment, tools, material testing and all other things necessary for and incidental to the satisfactory completion of all the Work shown on the Drawings and specified herein.

E16.9 Materials

E16.9.1 Asphaltic Concrete shall be Type 1A as specified and to a compacted thickness of 75mm (3") as shown on the Drawings.

E16.10 Crack Sealing

- (a) As a Warranty requirement, the Contractor shall rout and seal any and all cracks which may appear in the asphalt entrance approach to sport court 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 GC.13- Warranty.

E16.11 Quality Control for Hard Surfaced Areas

- (a) Further to Section 10, Quality Control, of CW 3110 and CW 3410, the Contractor shall 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 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.

E16.12 Method of Measurement and Basis of Payment

E16.12.1 Method of Measurement

- (a) Asphalt entrance approach to sport court works shall be measured on a square metre basis for: "Asphalt Entrance Approach to Sport Court," including excavation and grading, importation of clean clay fill if required, material testing, sub-grade compaction, non-woven geotextile, 50mm and 20mm down crushed limestone, asphalt pavement as per SCD-648" on Form B: Prices.

E16.12.2 Basis of Payment shall be as follows:

- (a) Asphalt entrance approach to sport court works 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 "Asphalt Entrance Approach to Sport Court," including excavation and grading, importation of clean clay fill if required, material testing, sub-grade compaction, non-woven geotextile, 50mm and 20mm down crushed limestone, asphalt pavement as per SCD-648, 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. SPORT COURT COMPACTED GRANULAR BASE

E17.1 Description

E17.1.1 This Specification shall amend and supplement CW 3110 and shall cover the supply and installation of compacted granular sub-base and base for the Sport Court.

E17.1.2 The Work to be completed by the Contractor under this Specification shall include the supply of all materials, and the furnishings of all superintendence, overhead, labour, equipment, tools, materials testing and all other things necessary for and incidental to the satisfactory completion of all the Work shown on the Drawings and specified herein.

E17.2 General Instructions

E17.2.1 Quality Control

(a) Testing and Approval of Materials

- (i) Further to Section 10, Quality Control, of CW 3110 and CW 3410, the Contractor shall 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.
- (ii) The Contractor shall not proceed with each granular fill placement until test results have been reviewed and approval to proceed is granted by the Contract Administrator.
- (iii) The Contract Administrator will conduct a survey of the operation to verify installation of specified layer thickness.
- (iv) Non-conformity with the specified test requirements or compacted layer thickness will constitute sufficient grounds for rejection of the Work.

E17.2.2 Submittals

(a) Samples

- (i) Material samples may be required, at the discretion of the Contract Administrator, for materials supplied under this Specification.

E17.3 Excavation

E17.3.1 Description

- (a) Excavation shall be understood to include all removal of existing insitu material necessary to achieve finished grade and as indicated and instructed on the Drawings, CW 3170, CW 3110 and in accordance with E10.
- (b) The Contractor shall survey and stake out the proposed court 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.

E17.3.2 Construction Methods

- (a) Excavation shall be performed as per E10 and as outlined in Section 3.2 of CW 3310.
- (b) In locations, where existing trees root systems intersect with the pavement area, excavation shall be done carefully so as not to damage or sever any roots of the trees.

- (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.

E17.4 Sub-Grade Compaction

E17.4.1 Description

- (a) Sub grade compaction shall be done in accordance with CW 3110.

E17.4.2 Construction Methods

- (a) Sub-grade compaction shall be performed as outlined in Section 3.3 of CW 3110.
- (b) Sub-grade shall be free of any fibrous organics, softened and disturbed soil.
- (c) Compact areas of suitable sub-grade material for the full width of the excavation, to a minimum compaction of 98% Standard Proctor Density below all paved areas (asphalt, concrete, stone chip and limestone paving), and 90% Standard Proctor Density in all other areas disturbed under this Contract. If the sub-grade material cannot be compacted to the required density, the Contractor shall proceed as directed by the Contract Administrator.

E17.5 Combination Geogrid/Geotextile

E17.5.1 Description

- (a) Combination Geogrid/Geotextile shall be supplied in accordance with CW 3135.

E17.5.2 Materials

- (a) Combination Geogrid/Geotextile shall be Naue Combigrd 30/30; Titan Swamp Grid 30 or approved equal as per B7 and shall be supplied and placed in accordance with CW 3135.
- (b) Combination Geogrid/Geotextile shall conform to the Products Approved as listed in City of Winnipeg Specification for Approved Products for Surface Works.
 - (i) https://legacy.winnipeg.ca/finance/findata/matmgt/std_const_spec/current/Docs/Approved_Product_Suppliers.pdf

E17.5.3 Construction Methods

- (a) Separation/reinforcement Combination Geogrid/Geotextile shall be installed as outlined in Section 3.0 of CW 3135.

E17.6 Crushed Limestone Materials

E17.6.1 Description

- (a) Crushed limestone sub-base and base material shall be supplied and installed in accordance with CW 3110, the Specification and the Drawings.

E17.6.2 Materials - Limestone Materials Only

- (a) 300mm layer of 50 mm (2") down crushed limestone;
- (b) 150 mm layer of 20 mm (3/4") down crushed limestone.
- (c) Base course shall be Granular C as per current CW 3110, the Drawings, and this specification.
- (d) Notwithstanding current CW 3110 Section 1.2, Clause 1.2.7, Granular A, Granular B, and recycled aggregates or materials will not be accepted.

(e) Sub-base and Base Course Material Grading Requirements:

CANADIAN METRIC SIEVE SIZE	Percent of Total Dry Weight Passing Each Sieve		
	6 mm (1.4") Topping Material	20 mm (3/4") Base Course	50 mm (2") Base Course
50 000	--	--	100%
25 000	--	--	--
20 000	--	100%	--
10 000	100%	--	--
5 000	65% - 100%	40% - 70%	25% - 60%
2 500	40% - 75%	25% - 60%	--
1 250	35% - 65%	--	--
630	19% - 36%	--	--
315	14% - 28%	8% - 25%	--
160	12% - 24%	--	--
80	10% - 25%	6% - 17%	4% - 15%

E17.6.3 Construction Methods

- (a) All limestone material shall be placed and compacted as specified to finished thickness as stated herein and as shown on the Drawings.
- (b) Sub-base and Base Course shall be compacted to a minimum of one hundred percent (100%) of Standard Proctor Density.

E17.7 Method of Measurement and Basis of Payment

- (a) Method and Measurement and Basis of Payment for Sport Court Compacted Granular Base shall be included in E18, Sport Court Asphaltic Concrete Pavement Works.

E18. SPORT COURT ASPHALTIC CONCRETE PAVEMENT WORKS

E18.1 Asphaltic Pavement

E18.1.1 Description

- (a) Sport Court Asphaltic Concrete Pavement Works shall be supplied and installed in accordance with City of Winnipeg Standard Construction Specification CW 3410, "Asphaltic Concrete Pavement Works."
- (b) The Work to be completed by the Contractor under this Specification shall include the supply of all materials, and the furnishings of all superintendence, overhead, labour, equipment, tools, material testing and all other things necessary for and incidental to the satisfactory completion of all the Work shown on the Drawings and specified herein.

E18.1.2 Materials

- (a) Asphaltic Concrete Pavement shall be a modified Type 1A (Sport Court Mix) as specified below to a compacted thickness of 75mm (3") as shown on the Drawings.
 - (i) Sport Court Mix Gradation:

Sieve Size	% Passing
16.0 mm	99.3
14.0 mm	97.7
12.5 mm	94.2
10.0 mm	89.2
5.0 mm	73.7
2.5 mm	63.1
1.25 mm	52.8
630 µm	38.6

425 µm	27.1
315 µm	18.8
160 µm	9.0
80 µm	6.8

E18.1.3 Construction Methods

- (a) Sport Court 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.
- (b) Sub-base and Base Course shall be compacted to a minimum of one hundred percent (100%) of Standard Proctor Density.

E18.1.4 Crack Repairs

E18.1.5 As a warranty requirement, the Contractor shall repair and seal any and all cracks which may appear in the Sport Court during the one-year warranty period. Patching mix for use in cracks and other imperfections in the asphalt surface shall be supplied and installed in accordance E19, the Manufacturer's written specifications and to the satisfaction of the Contract Administrator.

- (a) All crack repairs shall also be recoated with colour matched sports court surfacing material as per E19.
- (b) Repaired area shall remain true to grade.
- (c) No separate payment will be made for these items as it is considered a warranty issue and shall fall under G.C.13- Warranty.

E18.1.6 Quality Control for Hard Surfaced Areas

- (a) Further to Section 10, Quality Control, of CW 3110 and CW 3410, the Contractor shall 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 compaction has reviewed and approval to proceed 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.
- (e) The Contractor shall flood the asphalt court surface prior to applying sport court surfacing to ensure there are no depressions deeper than 2mm.

E18.2 Method of Measurement and Basis of Payment

- (a) Sport Court Asphaltic Concrete Pavement Works shall be measured on a square metre basis for: "Sport Court Asphaltic Concrete Pavement Works" including excavation and grading, removal of fill, importation of clean clay fill if necessary, material testing, sub-grade compaction, geogrid, 50mm and 20mm down crushed limestone, asphalt pavement as per Form B: Prices.
- (b) Basis of Payment shall be as follows:
 - (a) Sport Court Asphaltic Concrete Pavement Works 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 "Sport Court Asphaltic Concrete Pavement Works" including excavation and grading, removal of fill, importation of clean clay fill if necessary, material testing, sub-grade compaction, Combination Geogrid/Geotextile, 50mm and 20mm down crushed limestone, asphalt pavement" 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. SPORT COURT SURFACING

E19.1 General Description

- (a) This Specification shall cover the supply and installation of acrylic sports court surfacing on asphalt and line painting of court markers.

E19.2 Materials

E19.2.1 Patching mix for use in cracks, holes, depressions and other imperfections in the asphalt surface. This material will be used in accordance with the Manufacturer's written specifications with regard to sand sizes, prime coats, and depth of depression, hole or crack.

E19.2.2 Patching crack filler: for use in fine cracks and for minor cosmetic thin repairs and fills prior to filler course. Placed in accordance with the Manufacturer's written specifications

E19.2.3 100% Acrylic Filler Course shall be:

(a) Acrylic Resurfacer,

- (i) Manufacturer: California Sports Surfaces - Acrylotex
- (ii) Specifications: <https://plexipave.files.wordpress.com/2015/07/10-25acrylotexsystem-1.pdf>
- (iii) Supplier & Installer:

- ◆ Cords Park Mark Ltd.
3 Swann Drive
Winnipeg, MB R3R 3T9
Ph: (204) 895-1471
Fax: (204) 897-0576

(b) Acrylic Resurfacer

- (i) Manufacturer: Laykold - Advantage
- (ii) Specifications: [LAYKOLD Acrylic Sport & Recreational Surfaces \(prairiesurfaces.ca\)](http://prairiesurfaces.ca)
- (iii) Supplier & Installer:

- ◆ Prairie Surfaces
45 Froese Crescent
Winnipeg, MB R4H 0E6
Ph: (204) 295-6910

(c) Or approved substitute.

E19.2.4 Acrylic Color Playing Surface shall be:

- (i) Manufacturer: California Sports Surfaces - Acrylotex
- (ii) Specifications: <https://plexipave.files.wordpress.com/2015/07/10-25acrylotexsystem-1.pdf>
- (iii) Supplier & Installer:

- ◆ Cords Park Mark Ltd.
3 Swann Drive
Winnipeg, MB R3R 3T9
Ph: (204) 895-1471
Fax: (204) 897-0576

(b) Acrylic Color Playing Surface shall be:

- (i) Manufacturer: Laykold - Advantage
- (ii) Specifications: [LAYKOLD Acrylic Sport & Recreational Surfaces \(prairiesurfaces.ca\)](http://prairiesurfaces.ca)
- (iii) Supplier & Installer:
 - ◆ Prairie Surfaces
45 Froese Crescent
Headingley, MB R4H 0E6
Ph: (204) 295-6910

- (c) Or approved substitute.
- (d) Court and line colours as per the Drawings

E19.2.5 Line Paint

E19.2.6 100% acrylic resin containing no alkyds or vinyl constitutes. Texturing shall be rounded silica sand. Percent solids by weight (minimum) 60.5%. Weight: 12-12.3 lbs/gallon.

E19.3 Construction Methods

E19.3.1 Clean all asphalt surfaces of loose dirt, oil, grease, leaves and other debris in strict accordance with Manufacturer's written specifications and to the satisfaction of the Contract Administrator.

E19.3.2 Asphalt surface must be inspected and approved by the Contract Administrator prior to applying the Sport Court Surfacing.

E19.3.3 Clean all holes and cracks.

E19.3.4 Depressions holding enough water to cover a flat twenty-five-cent coin shall be filled with patch mix. This step shall be accomplished prior to the squeegee draining. Define and mark all areas holding enough water to cover a twenty-five-cent coin. Spread court patch 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.

E19.3.5 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 pre-coat depressions and crack/hole repairs to achieve better planarity prior to filler course application.

E19.3.6 Over a properly prepared surface of asphalt apply one coat of acrylic resurfacer according to the Manufacturer's written specifications.

E19.3.7 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 playing surface system.

E19.3.8 Line paint shall be 50 mm wide unless otherwise noted on the drawings. Lines shall be carefully laid out as per the Drawings. The area to be marked shall be taped to insure a crisp line edge. Line paint shall have a texture similar to the surrounding play surface. Application shall be made by brush or roller at the rate of recommended by the Manufacturer.

E19.4 Method of Measurement and Basis of Payment

E19.4.1 Method of Measurement shall be as follows:

- (a) Sports Court Surfacing will be measured on a square metre basis for:
 - (i) "Supply & Install Sport Court Surfacing w/ lines" on the Bid Form B: Prices.

E19.4.2 Basis of Payment shall be as follows:

- (a) Sports Court 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 the Bid Form. 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 FURNISHINGS

E20.1 General Description

E20.1.1 This Specification shall cover the pick-up and installation of site furnishings as per the Drawings.

E20.1.2 The Work to be completed by the Contractor under this Specification shall include the pick up of all materials, and the furnishings of all superintendence, overhead, labour, equipment, tools, and all other things necessary for and incidental to the satisfactory completion of all the Work shown on the 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 subject to inspection and testing by the Contract Administrator.

E20.2.2 All site furnishings as per the Drawings, or approved substitutions in accordance with Bidding Procedures – Substitutions.

E20.2.3 Ordering

- (a) To order City of Winnipeg supplied site furnishings email: pwd-cps-orderdesk@winnipeg.ca

E20.2.4 City of Winnipeg supplied Site Furnishings:

- (a) Tache Backless Bench Composite with arms x 2
- (i) Product Number: 52501086GLV
 - (ii) Finish:
 - ◆ Composite Slats: Cedar Tone Finish
 - ◆ Metal: Galvanized
 - (iii) Specification:
 - ◆ SCD-121C
- (b) Waste Receptacle – Side Opening Metal Slat Type with insert
- (i) Product Numbers: 52501063GLV and 52501063GLVi
 - (ii) Finish:
 - ◆ Metal – Galvanized
 - (iii) Specification:
 - ◆ SCD-119

E20.3 Construction Methods

E20.3.1 All Work is to be located and installed in accordance with the Drawings, and associated SCDs and/or Manufacturer's written instructions and specifications, using approved non-rusting, tamper resistant fasteners to ensure solid, durable, finished work suitable for the purpose intended. Fasteners and assembly hardware shall be incidental to the Work.

E20.3.2 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.

E20.3.3 All furnishings and fixtures to be carefully handled so that no parts will be bent, broken or otherwise damaged. Hammering is prohibited.

- (a) Damaged Site Furnishings will not be accepted.

E20.3.4 Concrete Foundations

- (a) Concrete foundation construction as per SCD-121C, SCD-119, CW 2160 and CW 3310.

E20.4 Method of Measurement and Basis of Payment

E20.4.1 Method of Measurement shall be as follows:

- (a) Pick-up and installation of Site Furnishings will be will be measured at the Contract Unit Price per unit for:
 - (i) "Pick up and Install In-Ground Backless Bench with Arms"; and
 - (ii) "Pick up and Install Waste Receptacle – Side Opening Metal Slat Type"
 - (iii) Price shall be payment in full for supplying all materials and for performing all operations herein described and all other items incidental to the work included in this Specification.

E20.4.2 Basis of Payment shall be as follows:

- (a) Site Furnishings 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. The 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.

E21. BASKETBALL STANDARDS

E21.1 Description

- E21.1.1 This specification shall cover all aspects of the supply and installation of one (1) pair of basketball standards including post, backboard, goal, net, and piles.

E21.2 Materials

E21.2.1 Basketball Standard shall either be:

- (a) Sportsplay single heavy-duty basketball standards, product # 541-616, 114mm O.D. galvanized steel post, 1828mm extension, aluminum backboard, super goal (double rimmed) and chain net, OR
- (b) Douglas goose neck heavy duty basketball standards, Model # 39180M, 141mm O.D. galvanized steel post, 1828mm extension and Douglas FAL aluminum backboard, Model # 39166 and Dura Goal II (double rimmed) goal and chain net, Model # 39157.
- (c) Or approved substitute in accordance with B7.

E21.3 Concrete Piles

- E21.3.1 As per CW 2160.

- E21.3.2 Concrete Type A, compressive strength 32 MPa at 28 days, minimum cementitious content 340 Kg/m³, sulfate resistant.

- E21.3.3 6.0 M depth, 400mm diameter reinforced concrete piles as shown on the Drawings.

E21.4 Construction Methods

- E21.4.1 Basketball standards are to be installed in concrete piles according to Drawings and Manufacturer's Specifications.

- E21.4.2 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.

- E21.4.3 No concrete work shall commence until the excavation has been completed in accordance with the with the drawings, the current version of CW 3110 and inspected and approved by the Contract Administrator.

E21.5 Method of Measurement and Basis of Payment

E21.5.1 Method of Measurement shall be as follows:

- (a) Basketball Standards shall be measured at the Contract Unit Price per unit for:
 - (i) "Supply & Install Basketball Hoop & Nets (one (1) set = two (2) posts with piles, two (2) hoops & two (2) nets)", on Form B: Prices

E21.5.2 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.

E22. CHAIN LINK FENCING AND GATES

E22.1 This Specification shall supplement CW 3550 and shall cover the supply and installation of chain link fencing and gates as per the Drawings.

E22.2 Materials and Methods

- (a) As specified in CW 3550 and on Drawings.
- (b) Fencing & gates to be installed in locations shown on the Drawings.

E22.2.1 Method of Measurement shall be as follows:

- (a) (a) Chain Link Fencing and Gates will be measured on a linear metre basis for:
 - (i) "Supply & Install Chain Link Fence (3.05m Height) c/w Gates"; on the Bid Form B: Prices.
- (b) No separate measurement shall be made for Gates as this work is incidental to the Work herein.

E22.2.2 Basis of Payment shall be as follows:

- (a) Chain Link Fencing and Gates 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 the Bid Form. 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.
- (b) No additional payment shall be made for Gates as this work is incidental to the Work herein.

E23. TOPSOIL AND SODDING

E23.1 General Description

E23.1.1 This Specification shall amend and supplement CW 3510, and CW 3540 and cover the supply and installation of topsoil and sod.

- (a) The Contractor shall install mineral sod and a minimum 75 mm (for sod) compacted thickness of topsoil, as required.

E23.1.2 The Work to be completed by the Contractor under this Specification shall include the supply of all materials, and the furnishings of all superintendence, overhead, labour, equipment, tools, and all other things necessary for and incidental to the satisfactory completion of all the Work shown on the Drawings and specified herein.

E23.2 General Instructions

E23.2.1 Quality Control

- (a) Testing and Approval of Materials

- (i) Material testing may be required as per this Specification and as directed by the Contract Administrator.

E23.3 Materials and Construction Methods

E23.3.1 Topsoil shall be as per CW 3540.

E23.3.2 Sod shall be as per CW 3510.

E23.3.3 The Contractor shall install sod in locations as shown on Drawings to cover areas indicated on Drawings.

E23.3.4 Any areas damaged beyond the areas indicated on the Drawings shall be the responsibility of the Contractor to restore through use of topsoil and sod, unless otherwise approved by the Contract Administrator.

E23.3.5 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.

E23.3.6 Where new sod will meet existing, employ a vertical shearing operation, such as using a sharp spade or edger, along the outside edges of the excavation to create a clean and definite line for the new sod to abut flush to.

E23.3.7 Low Spots and/or Ruts

- (a) The Contractor shall install topsoil and seed in areas where ruts and low spots presently exist. This shall be identified on Site by the Contract Administrator.

E23.3.8 Restoration shall be achieved using topsoil and sod unless otherwise directed by the Contract Administrator.

E23.3.9 After completion, extents of new sod shall be clearly marked with stakes and/or flags for the duration of maintenance period. The Contractor shall provide adequate protection of sodded areas from erosion, pedestrian and mechanical damage and shall only remove such protection after the sodded area has been accepted by the City sod inspector or designate.

E23.4 Maintenance Period

E23.4.1 Thirty (30) day maintenance period on sod and seed will commence at Total Performance and acceptance.

E23.4.2 Termination of maintenance period

- (a) Termination of maintenance period for sod per Section 9.10 of CW 3510.

E23.5 Method of Measurement and Basis of Payment

E23.5.1 Method of Measurement shall be as follows:

- (a) Topsoil and Sodding will be measured on a per square metre basis for:
 - (i) "Supply and Install Top Soil and Sod" on the Bid Form B: Prices.

E23.5.2 Basis of Payment shall be as follows:

- (a) Topsoil and Sodding 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 the Bid Form. 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.