



THE CITY OF WINNIPEG

BID OPPORTUNITY

BID OPPORTUNITY NO. 447-2006

**SUPPLY AND APPLICATION OF FLOORING AND MOISTURE REDUCTION
BARRIER COATING AT VINCE LEAH COMMUNITY CENTRE – 1295 SALTER
AVENUE**

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PART B - BIDDING PROCEDURES

B1. PROJECT TITLE

- B1.1 SUPPLY AND APPLICATION OF FLOORING AND MOISTURE REDUCTION BARRIER COATING AT VINCE LEAH COMMUNITY CENTRE – 1295 SALTER AVENUE

B2. SUBMISSION DEADLINE

- B2.1 The Submission Deadline is 12:00 noon Winnipeg time, July 14, 2006.
- B2.2 Bid Submissions determined by the Manager of Materials to have been received later than the Submission Deadline will not be accepted and will be returned upon request.
- B2.3 The Contract Administrator or the Manager of Materials may extend the Submission Deadline by issuing an addendum at any time prior to the time and date specified in B2.1.

B3. SITE INVESTIGATION

- B3.1 Further to GC:3.1, the Bidder may view the Site without making an appointment.

B4. ENQUIRIES

- B4.1 All enquiries shall be directed to the Contract Administrator identified in D3.1.
- B4.2 If the Bidder finds errors, discrepancies or omissions in the Bid Opportunity, or is unsure of the meaning or intent of any provision therein, the Bidder shall notify the Contract Administrator of the error, discrepancy or omission, or request a clarification as to the meaning or intent of the provision at least five (5) Business Days prior to the Submission Deadline.
- B4.3 Responses to enquiries which, in the sole judgment of the Contract Administrator, require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator to all Bidders by issuing an addendum.
- B4.4 Responses to enquiries which, in the sole judgment of the Contract Administrator, do not require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator only to the Bidder who made the enquiry.
- B4.5 The Bidder shall not be entitled to rely on any response or interpretation received pursuant to 0 unless that response or interpretation is provided by the Contract Administrator in writing.

B5. ADDENDA

- B5.1 The Contract Administrator may, at any time prior to the Submission Deadline, issue addenda correcting errors, discrepancies or omissions in the Bid Opportunity, or clarifying the meaning or intent of any provision therein.
- B5.2 The Contract Administrator will issue each addendum at least two (2) Business Days prior to the Submission Deadline, or provide at least two (2) Business Days by extending the Submission Deadline.
- B5.2.1 Addenda will be available on the Bid Opportunities page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at <http://www.winnipeg.ca/matmgt>.

B5.2.2 The Bidder is responsible for ensuring that he has received all addenda and is advised to check the Materials Management Branch internet site for addenda shortly before submitting his Bid.

B5.3 The Bidder shall acknowledge receipt of each addendum in Paragraph 8 of Form A: Bid. Failure to acknowledge receipt of an addendum may render a Bid non-responsive.

B6. SUBSTITUTES

B6.1 The Work is based on the Plant, Materials and methods specified in the Bid Opportunity.

B6.2 Substitutions shall not be allowed unless application has been made to and prior approval has been granted by the Contract Administrator in writing.

B6.3 Requests for approval of a substitute will not be considered unless received in writing by the Contract Administrator at least five (5) Business Days prior to the Submission Deadline.

B6.4 The Bidder shall ensure that any and all requests for approval of a substitute:

- (a) provide sufficient information and details to enable the Contract Administrator to determine the acceptability of the Plant, Material or method as either an approved equal or alternative;
- (b) identify any and all changes required in the applicable Work, and all changes to any other Work, which would become necessary to accommodate the substitute;
- (c) identify any anticipated cost or time savings that may be associated with the substitute;
- (d) certify that, in the case of a request for approval as an approved equal, the substitute will fully perform the functions called for by the general design, be of equal or superior substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the proposed work schedule and the dates specified in the Supplemental Conditions for Substantial Performance and Total Performance;
- (e) certify that, in the case of a request for approval as an approved alternative, the substitute will adequately perform the functions called for by the general design, be similar in substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the proposed work schedule and the dates specified in the Supplemental Conditions for Substantial Performance and Total Performance.

B6.5 The Contract Administrator, after assessing the request for approval of a substitute, may in his sole discretion grant approval for the use of a substitute as an "approved equal" or as an "approved alternative", or may refuse to grant approval of the substitute.

B6.6 The Contract Administrator will provide a response in writing, at least two (2) Business Days prior to the Submission Deadline, only to the Bidder who requested approval of the substitute.

B6.6.1 The Bidder requesting and obtaining the approval of a substitute shall be entirely responsible for disseminating information regarding the approval to any person or persons he wishes to inform.

B6.7 If the Contract Administrator approves a substitute as an "approved equal", any Bidder may use the approved equal in place of the specified item.

B6.8 If the Contract Administrator approves a substitute as an "approved alternative", any Bidder bidding that approved alternative shall base his Total Bid Price upon the specified item but may also indicate an alternative price based upon the approved alternative. Such alternatives will be evaluated in accordance with B14.

B6.9 No later claim by the Contractor for an addition to the Total Bid Price because of any other changes in the Work necessitated by the use of an approved equal or an approved alternative will be considered.

B7. BID SUBMISSION

B7.1 The Bid Submission consists of the following components:

- (a) Form A: Bid;
- (b) Form B: Prices.

B7.2 The Bid Submission shall be submitted enclosed and sealed in an envelope clearly marked with the Bid Opportunity number and the Bidder's name and address.

B7.2.1 Samples or other components of the Bid Submission which cannot reasonably be enclosed in the envelope may be packaged separately, but shall be clearly marked with the Bid Opportunity number, the Bidder's name and address, and an indication that the contents are part of the Bidder's Bid Submission.

B7.3 Bid Submissions submitted by facsimile transmission (fax) or internet electronic mail (e-mail) will not be accepted.

B7.4 Bid Submissions shall be submitted to:

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

B8. BID

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

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

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

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

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

B8.4 Paragraph 10 of Form A: Bid shall be signed in accordance with the following requirements:

- (a) if the Bidder is a sole proprietor carrying on business in his own name, it shall be signed by the Bidder;
- (b) if the Bidder is a partnership, it shall be signed by the partner or partners who have authority to sign for the partnership;
- (c) if the Bidder is a corporation, it shall be signed by its duly authorized officer or officers;

- (d) if the Bidder is carrying on business under a name other than his own, it shall be signed by the registered owner of the business name, or by the registered owner's authorized officials if the owner is a partnership or a corporation.

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

B8.4.2 All signatures shall be original.

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

B9. PRICES

B9.1 The Bidder shall state the lump sum price in Canadian funds for the Work on Form B: Prices.

B10. QUALIFICATION

B10.1 The Bidder shall:

- (a) undertake to be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba;
- (b) be responsible and not be suspended, debarred or in default of any obligation to the City;
- (c) be financially capable of carrying out the terms of the Contract;
- (d) have all the necessary experience, capital, organization, and equipment to perform the Work in strict accordance with the terms and provisions of the Contract;
- (e) have successfully carried out work, similar in nature, scope and value to the Work;
- (f) employ only Subcontractors who:
 - (i) are responsible and not suspended, debarred or in default of any obligation to the City (a list of suspended or debarred individuals and companies is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at <http://www.winnipeg.ca/matmgt>); and
 - (ii) have successfully carried out work similar in nature, scope and value to the portion of the Work proposed to be subcontracted to them, and are fully capable of performing the Work required to be done in accordance with the terms of the Contract;
- (g) have a written workplace safety and health program in accordance with The Workplace Safety and Health Act (Manitoba).

B10.2 The Bidder shall be prepared to submit, within three (3) Business Days of a request by the Contract Administrator, proof satisfactory to the Contract Administrator of the qualifications of the Bidder and of any proposed Subcontractor.

B10.3 The Bidder shall provide, on the request of the Contract Administrator, full access to any of the Bidder's equipment and facilities to confirm, to the Contract Administrator's satisfaction, that the Bidder's equipment and facilities are adequate to perform the Work.

B11. OPENING OF BIDS AND RELEASE OF INFORMATION

B11.1 Bid Submissions will be opened publicly, after the Submission Deadline has elapsed, in the office of the Corporate Finance Department, Materials Management Branch, or in such other office as may be designated by the Manager of Materials.

B11.1.1 Bidders or their representatives may attend.

B11.2 After the public opening, the names of the Bidders and their Total Bid Prices as read out (unevaluated, and pending review and verification of conformance with requirements) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at <http://www.winnipeg.ca/matmgt>.

B11.3 After award of Contract, the name(s) of the successful Bidder(s) and the Contract Amount(s) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at <http://www.winnipeg.ca/matmgt>.

B11.4 The Bidder is advised that any information contained in any Bid Submission may be released if required by City policy or procedures, by The Freedom of Information and Protection of Privacy Act (Manitoba), by other authorities having jurisdiction, or by law.

B12. IRREVOCABLE BID

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

B12.2 The acceptance by the City of any Bid shall not release the Bids of the next two lowest evaluated responsive Bidders and these Bidders shall be bound by their Bids on such Work for the time period specified in Paragraph 9 of Form A: Bid.

B13. WITHDRAWAL OF BIDS

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

B13.1.1 Notwithstanding GC:23.3, the time and date of receipt of any notice withdrawing a Bid shall be the time and date of receipt as determined by the Manager of Materials.

B13.1.2 The City will assume that any one of the contact persons named in Paragraph 3 of Form A: Bid or the Bidder's authorized representatives named in Paragraph 10 of Form A: Bid, and only such person, has authority to give notice of withdrawal.

B13.1.3 If a Bidder gives notice of withdrawal prior to the Submission Deadline, the Manager of Materials shall:

- (a) retain the Bid Submission until after the Submission Deadline has elapsed;
- (b) open the Bid Submission to identify the contact person named in Paragraph 3 of Form A: Bid and the Bidder's authorized representatives named in Paragraph 10 of Form A: Bid; and
- (c) if the notice has been given by any one of the persons specified in B13.1.3(b), declare the Bid withdrawn.

B13.2 A Bidder who withdraws his Bid after the Submission Deadline but before his Bid has been released or has lapsed as provided for in B12.2 shall be liable for such damages as are imposed upon the Bidder by law and subject to such sanctions as the Chief Administrative Officer considers appropriate in the circumstances. The City, in such event, shall be entitled to all rights and remedies available to it at law.

B14. EVALUATION OF BIDS

B14.1 Award of the Contract shall be based on the following bid evaluation criteria:

- (a) compliance by the Bidder with the requirements of the Bid Opportunity (pass/fail);
- (b) qualifications of the Bidder and the Subcontractors, if any, pursuant to B10 (pass/fail);
- (c) Total Bid Price;
- (d) economic analysis of any approved alternative pursuant to B6.

B14.2 Further to B14.1(a), the Award Authority may reject a Bid as being non-responsive if the Bid Submission is incomplete, obscure or conditional, or contains additions, deletions, alterations or other irregularities. The Award Authority may reject all or any part of any Bid, or waive technical requirements if the interests of the City so require.

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

B14.4 Further to B14.1(c), the Total Bid Price shall be the lump sum price shown on Form B: Prices.

B14.4.1 If there is any discrepancy between the lump sum price written in figures and the lump sum price written in words, the price written in words shall take precedence.

B15. AWARD OF CONTRACT

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

B15.2 The City will have no obligation to award a Contract to a Bidder, even though one or all of the Bidders are determined to be responsible and qualified, and the Bids are determined to be responsive.

B15.2.1 Without limiting the generality of B15.2, the City will have no obligation to award a Contract where:

- (a) the prices exceed the available City funds for the Work;
- (b) the prices are materially in excess of the prices received for similar work in the past;
- (c) the prices are materially in excess of the City's cost to perform the Work, or a significant portion thereof, with its own forces;
- (d) only one Bid is received; or
- (e) in the judgment of the Award Authority, the interests of the City would best be served by not awarding a Contract.

B15.3 Where an award of Contract is made by the City, the award shall be made to the responsible and qualified Bidder submitting the lowest evaluated responsive Bid.

B15.4 Notwithstanding GC:4, the City will issue a Purchase Order to the successful Bidder in lieu of the execution of a Contract.

B15.5 The Contract, as defined in GC:1.1, in its entirety shall be deemed to be incorporated in and to form a part of the Purchase Order notwithstanding that it is not necessarily attached to or accompany said Purchase Order.

PART C - GENERAL CONDITIONS

C1. GENERAL CONDITIONS

C1.1 The *General Conditions for Construction Contracts* (Revision 2000 11 09) are applicable to the Work of the Contract.

C1.1.1 The *General Conditions for Construction Contracts* are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at <http://www.winnipeg.ca/matmgt>.

PART D - SUPPLEMENTAL CONDITIONS

GENERAL

D1. GENERAL CONDITIONS

- D1.1 In addition to the *General Conditions for Construction Contracts*, these Supplemental Conditions are applicable to the Work of the Contract.
- D1.2 The General Conditions are amended by striking out “The City of Winnipeg Act” wherever it appears in the General Conditions and substituting “The City of Winnipeg Charter”.
- D1.3 The General Conditions are amended by striking out “Tender Package” wherever it appears in the General Conditions and substituting “Bid Opportunity”.
- D1.4 The General Conditions are amended by striking out “Tender Submission” wherever it appears in the General Conditions and substituting “Bid Submission”.
- D1.5 The General Conditions are amended by deleting GC:6.16 and GC:6.17. The City of Winnipeg is now within the jurisdiction of the Manitoba Ombudsman pursuant to The Ombudsman Act.

D2. SCOPE OF WORK

- D2.1 The Work to be done under the Contract shall consist of the supply and application of flooring and moisture reduction barrier coating at Vince Leah Community Centre – 1295 Salter Avenue.
- D2.2 The major components of the Work are as follows:
- (a) Section 09624 Sport Impact Rubber Flooring
 - (b) Removal and disposal of existing rubber sports flooring prior to surface preparation in areas as indicated on the construction drawing.
 - (c) Surface preparation of existing concrete substrate to accommodate moisture reduction barrier coating and Sport Impact rubber sports flooring.
 - (d) Adjust height of the existing doors if necessary by cutting down or grinding to accommodate new floor material thicknesses.
 - (e) Initial maintenance and final clean-up of Site.

D3. CONTRACT ADMINISTRATOR

- D3.1 The Contract Administrator is:
- Lou Chubenko
Project Officer II
Public Works Department
100 Main Street
Winnipeg, MB R3C 1A4
- Telephone No. (204) 986-7278
Facsimile No. (204) 986-7311
- D3.2 At the pre-construction meeting, the Contract Administrator will identify additional personnel representing the Contract Administrator and their respective roles and responsibilities for the Work.

D4. CONTRACTOR'S SUPERVISOR

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

D5. NOTICES

- D5.1 Except as provided for in GC:23.2.2, all notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the Contractor shall be sent to the address or facsimile number identified by the Contractor in Paragraph 2 of Form A: Bid.
- D5.2 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the City, except as expressly otherwise required in D5.3, D5.4 or elsewhere in the Contract, shall be sent to the attention of the Contract Administrator at the address or facsimile number identified in D3.1.
- D5.3 All notices of appeal to the Chief Administrative Officer shall be sent to the attention of the Chief Financial Officer at the following address or facsimile number:
The City of Winnipeg
Chief Administrative Officer Secretariat
Administration Building, 3rd Floor
510 Main Street
Winnipeg MB R3B 1B9
Facsimile No.: (204) 949-1174
- D5.4 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications required to be submitted or returned to the City Solicitor shall be sent to the following address or facsimile number:
The City of Winnipeg
Corporate Services Department
Legal Services Division
185 King Street, 3rd Floor
Winnipeg MB R3B 1J1
Facsimile No.: (204) 947-9155

SUBMISSIONS

D6. INSURANCE

- D6.1 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) all inclusive, with The City of Winnipeg being added as an additional insured, with a cross-liability clause, such liability policy to also contain a contractual liability, an unlicensed motor vehicle liability and a products and completed operations endorsement to remain in place at all times during the performance of the Work and throughout the warranty period;
 - (b) automobile liability insurance for owned and non-owned automobiles used for or in connection with the Work in the amount of at least two million dollars (\$2,000,000.00) at all times during the performance of the Work and until the date of Total Performance;
- D6.2 Deductibles shall be borne by the Contractor.

- D6.3 The Contractor shall provide the City Solicitor with a certificate of insurance of each policy, in a form satisfactory to the City Solicitor, at least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than seven (7) Calendar Days from notification of the award of Contract.
- D6.4 The Contractor shall not cancel, materially alter, or cause each policy to lapse without providing at least fifteen (15) Calendar Days prior written notice to the Contract Administrator.

SCHEDULE OF WORK

D7. COMMENCEMENT

- D7.1 The Contractor shall not commence any Work until he is in receipt of a Purchase Order from the Award Authority authorizing the commencement of the Work.
- D7.2 The Contractor shall not commence any Work on the Site until:
- (a) the Contract Administrator has confirmed receipt and approval of:
 - (i) evidence that the Contractor is 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;
 - (ii) evidence of the workers compensation coverage specified in GC:6.14; and
 - (iii) evidence of the insurance specified in D6.
 - (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.
- D7.3 The Contractor shall not commence the Work on the Site before October 2, 2006.

D8. SUBSTANTIAL PERFORMANCE

- D8.1 The Contractor shall achieve Substantial Performance within thirty (30) consecutive Working Days of the commencement of the Work as specified in D7.
- D8.2 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.
- D8.3 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.

D9. TOTAL PERFORMANCE

- D9.1 The Contractor shall achieve Total Performance within thirty five (35) consecutive Working Days of the commencement of the Work as specified in D7.
- D9.2 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.

D9.3 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.

D10. LIQUIDATED DAMAGES

D10.1 If the Contractor fails to achieve Substantial Performance in accordance with the Contract by the day fixed herein for Substantial Performance, the Contractor shall pay the City one hundred dollars (\$100) per Working Day for each and every Working Day following the day fixed herein for Substantial Performance during which such failure continues.

D10.2 The amount specified for liquidated damages in D10.1 is based on a genuine pre-estimate of the City's losses in the event that the Contractor does not achieve Substantial Performance by the day fixed herein for same.

D10.3 The City may reduce any payment to the Contractor by the amount of any liquidated damages assessed.

CONTROL OF WORK

D11. PRIME CONTRACTOR – THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA)

D11.1 Further to GC:6.26, 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).

WARRANTY

D12. WARRANTY

D12.1 Notwithstanding GC:13.2, the warranty period shall begin on the date of Substantial Performance and shall expire one (1) year thereafter unless extended pursuant to GC:13.2.1 or GC:13.2.2, in which case it shall expire when provided for thereunder.

D12.2 Notwithstanding GC:13.2 or D12.1, the Contract Administrator may permit the warranty period for a portion or portions of the Work to begin prior to the date of Substantial Performance if:

- (a) a portion of the Work cannot be completed because of unseasonable weather or other conditions reasonably beyond the control of the Contractor but that portion does not prevent the balance of the Work from being put to its intended use.

D12.2.1 In such case, the date specified by the Contract Administrator for the warranty period to begin shall be substituted for the date specified in GC:13.2 for the warranty period to begin.

PART E - SPECIFICATIONS

GENERAL

E1. APPLICABLE SPECIFICATIONS, STANDARD DETAILS AND DRAWINGS

- E1.1 *The City of Winnipeg Standard Construction Specifications* in its entirety, whether or not specifically listed on Form B: Prices, shall apply to the Work.
- E1.1.1 *The City of Winnipeg Standard Construction Specifications* is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at <http://www.winnipeg.ca/matmgt>.
- E1.1.2 The version in effect three (3) Business Days before the Submission Deadline shall apply.
- E1.1.3 Further to GC:2.4(d), Specifications included in the Bid Opportunity shall govern over *The City of Winnipeg Standard Construction Specifications*.
- E1.2 The following Drawings are applicable to the Work:

<u>Drawing No.</u>	<u>Drawing Name/Title</u>
A-1	Building Floor Plan Layout

E2. SUMMARY

- E2.1 Section Includes: Supply and application of moisture reduction barrier coating to properly prepared concrete substrate surfaces and the supply and installation of Sport Impact rubber sport flooring sheet goods, reducer strips and rubber cove base as indicated on the construction drawing and as specified herein.
- E2.2 Related Works:
- (a) Section 09624 Sport Impact Rubber Flooring.
 - (b) Removal and disposal of existing rubber sports flooring prior to surface preparation in areas as indicated on the construction drawing.
 - (c) Surface preparation of existing concrete substrate to accommodate moisture reduction barrier coating and Sport Impact rubber sport flooring.
 - (d) Test existing concrete substrate using a Calcium Chloride Test (ASTM F1869) and concrete moisture probes to measure the relative humidity.
 - (e) Adjust height of the existing doors if necessary by cutting down or grinding to accommodate new floor material thicknesses.
 - (f) Initial maintenance and final clean-up of Site.

E3. PRODUCTS

- E3.1 Planiseal MRB (Moisture Reduction Barrier)
- (a) Planiseal MRB: a two-component, solvent-free fluid-applied breathable epoxy coating as manufactured by Mapei.

E3.2 Technical Data:

Pot life (mixed and applied within)	60 minutes
Working Temperature	Minimum 15 degrees C; maximum 30 degrees C
Open time before covering	Minimum 16 hours;

	maximum 48 hours
Moisture vapor transmission reduction	>75%
Max. Allowable moisture vapor transmission rate	12 lbs. /1,000 sq. ft. /24 hours
Direct tensile bond strength –	ASTM D 4541 >175 psi
Coverage	200 to 300 sq. ft. /gallon
Shelf life	1 year
Storage	Store in cool, dry place. Protect from freezing

E4. SURFACE PREPARATION

- E4.1 All concrete substrates must be structurally sound, stable and solid.
- E4.2 Thoroughly clean surface of any substance that could interfere with the bond of the Planiseal MRB. This includes but is not limited to dirt, paint, tar, asphalt, silicates, wax, oil grease, latex compounds, and sealers, curing compounds, form release agents, loose toppings, foreign substances and adhesive residue.
- E4.3 Mechanically prepare cracks, control, construction and expansion joints with a diamond crack-chasing/concrete-cutting blade. Over cut the joint width to obtain a sound substrate. Use a dustless collection system to completely remove the dust and contaminants.
- E4.4 Mechanically clean and prepare the concrete substrate by shot blasting, scarifying, sandblasting, aggressive diamond cup grinding.
- E4.5 Vacuum the prepared cracks and joints again to remove all dust, steel shot and contaminants.
- E4.6 Concrete substrate and ambient room temperature must be a minimum 60 degrees F (16 degrees C) with a maximum 86 degrees F (30 degrees C). Temperatures must be maintained within this range for a minimum of 24 hours after the installation of the finish flooring system.

E5. MIXING

- E5.1 Premix “B” Component to a homogeneous consistency before adding “A” Component to it and mixing together.
- E5.2 Using a low speed mixer (300 to 450 rpm) and a “Jiffy” mixing paddle mix Part B and then add Part A into the “B” container, mix thoroughly for a total of 5 minutes. Stop after 2 minutes to scrape down the sides and corners of the mixing pail in order to incorporate any unmixed material, then continue mixing for another 3 minutes. Mix to a smooth, homogeneous consistency. Do not mix at high speeds, which can trap air within the mixed material.
- E5.3 Only mix enough material that can be applied within pot life - approximately 60 minutes at 73 degrees F (23 degrees C).

E6. APPLICATION

- E6.1 Make sure concrete substrate and ambient room temperature is a minimum 60 degrees F (30 degrees C) prior to application.
- E6.2 Use a short 10mm (3/8 inch) nap roller. Start rolling material in a north/south direction followed immediately in an east/west direction across the entire surface being treated. This includes up to and around the perimeter of any restrained surfaces. Apply only one coat with sufficient

material working it into the concrete substrate. Use a quality paint brush for the hard to reach areas.

- E6.3 The finished application must cover the concrete substrate completely without any voids or pin-holes. Typical coverage rate is 200 to 300 square feet per gallon (4,9 to 7,4 m²/L). Actual coverage will vary depending on concrete porosity and profile as well as temperature and humidity.

E7. JOINT TREATMENTS

- E7.1 Application drying time – allow Planiseal MRB to cure from 16 to 24 hours before filling the treated crack and joints.
- E7.2 Filling cracks and joints – refer to specific manufacturer's recommendations.
- E7.2.1 Expansion Joints – Must be honored through the finished flooring system.
- E7.2.2 Structural Crack Repair – Epoxy inject cracks full depth filling the void completely. Use a quality high-modulus epoxy such as Planibond EBA, Planibond E-Gel or Planibond E-LV.
- E7.2.3 Waterproofing Cracks – Install flexible epoxy joint filler into cracks, over filling the crack. Once the flexible epoxy filler has sufficiently cured shave off access material from the surface. Follow epoxy manufacturer's recommendation.

E8. DIRECTLY BONDED FLOOR COVERINGS

- E8.1 Planiseal MRB must first be installed and cured before placing any of the following systems. Before applying the next flooring sequence wait a minimum 16 hours, maximum 48 hours after application of the Planiseal MRB.
- E8.2 Rubber Floor Coverings – Apply the Ultrabond 2-component epoxy or polyurethane adhesives directly onto planiseal.

E9. CLEAN-UP

- E9.1 Fresh/wet material can be cleaned with soapy warm water.
- E9.2 Cured material must be mechanically removed.

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E10. GENERAL

- E10.1 Description of Work:
- (a) The supply and installation of a 10mm (3/8 inch) prefabricated rubber sport flooring, dual durometer vulcanized and calendared with a special embossing including adhesive, rubber cove base and 10mm (3/8 inch) thick reducer strips.
- E10.2 Related Works:
- (a) Surface preparation of existing concrete substrate to accommodate moisture reduction barrier coating and rubber sport flooring surfaces.
- E10.3 Quality Assurance:
- (a) The manufacturer to be a firm experienced in the manufacturing of prefabricated rubber sport flooring.

- (b) All installation work must be performed by an accredited contractor and shall have over (3) three years experience in the installation of prefabricated sport rubber surfaces.

E10.4 Submittals:

- (a) Technical data sheets of the product
- (b) Submit three (3) copies of the maintenance procedures manual.

E10.5 Delivery and Storage

- (a) Deliver and store the material in the original packaging with the labels intact in a controlled environment of a minimum temperature of 55 degrees F (13 degrees C) and under 50% relative humidity.

E10.6 Site Conditions:

- (a) Maintain a stable room and sub floor temperature, minimum 65 degrees F (18 degrees C), for a period of 48 hours prior to, during and 48 hours after installation.
- (b) Moisture vapor emissions content of the concrete slab must not exceed 3 lbs./100 square feet/24 hours when using the calcium chloride test as per ASTM F1869-98.
- (c) Installation of the rubber sport flooring shall only commence once the moisture reduction barrier has been completed.

E10.7 Warranty:

- (a) Provide manufacturer's standard written warranty.

E11. PRODUCTS

E11.1 Prefabricated rubber sport flooring shall be SPORT IMPACT 10mm (3/8 inch) thickness, with smooth textured pattern as manufactured by MONDO AMERICA INC., or approved equal in accordance with B6. Colors shall be selected by Contract Administrator.

E11.2 Prefabricated rubber sport flooring to be sheet goods, calendared and vulcanized with a base of natural and synthetic rubber, stabilizing agents and pigmentation. The material shall be provided in (91cm x 91cm) 36 inches by 36 inches tiles.

E11.3 Prefabricated rubber sport flooring to be manufactured in two layers, which are vulcanized together. The shore hardness of the lower layer to be less than the upper layer, shore hardness of the respected layers to be recommended by the manufacturer and within the limits herein specified. Field laminated dual durometer are unacceptable.

E11.4 Physical properties of rubber sport flooring to conform to the following:

Hardness Shore A	ASTM D2240	Top 80, Bottom 75
Critical Radiant Flux	ASTM E648	0.46 watt/sq. cm. Class 1
Static Load Limit		ASTM F970 0.003 inches
Fungal Resistance Test	ASTM G21-90	No growth
Coefficient of Friction	ASTM D2047	Dry > 1.20 Wet 0.67
V.O.C. Compliance	ASTM D5116	Yes
Color Stability	Good	
Light Reflection	Average	
Chemical Resistance	Good	

E11.5 Adhesive: Rubber sport flooring adhesive shall be a two part polyurethane adhesive

E11.6 (P.U. 100) suitable for adherence of sheet goods to concrete. Adhesive to be supplied and approved by the rubber sports flooring manufacturer.

- E11.7 Patching Compound: Patching compound to be supplied and approved by rubber sports flooring manufacturer.
- E11.8 Reducer Strips: Reducer strips shall be 10mm (3/8 inch) thick, 2 inch wide, at locations where dissimilar flooring material surfaces abut.
- E11.9 Rubber Cove Base: Marley Flexco Wallflowers, premium rubber wall base, continuous, 4 inches high, and thickness shall be 1/8 inch gauge. Use pre-molded end pieces at flush door frames. Cap internal corners and make joints tight. Apply caulking at door frames and obstructions. Colors shall be selected by the Contract Administrator.

E12. EXECUTION

- E12.1 Ensure that existing concrete substrates are dry and exhibit neutral alkalinity. Moisture vapor emission tests are mandatory on various areas of the sub-floor prior to the beginning of the installation.
- E12.2 Remove sub-floor ridges and bumps. Fill low spots, cracks, joints, holes and other defects with patching compound.
- E12.3 Clean floor and apply and float feathering compound to leave smooth, flat, hard surface. Prohibit traffic until the feathering compound has cured.
- E12.4 Sub-floor shall be prepared as per manufacturer's recommendations.

E13. INSTALLATION

- E13.1 Install sports rubber flooring in accordance with manufacturer's written instructions.
- E13.2 Cut and adjust sport flooring prior to adhesion. All edges of the sheet goods must be straight-edged before adjusting the seams.
- E13.3 Mix adhesive in accordance with manufacturer's written instructions.
- E13.4 Hold all seams in place with suitable weights for a minimum 12 hours.
- E13.5 Surface to be protected before, during and after installation until project's acceptance by the Contract Administrator.
- E13.6 Wait 48 hours after the installation before the initial cleaning of the surface.

E14. INITIAL CLEANING

- E14.1 After the flooring installation is completed; the finished floor shall be swept and/or vacuumed clean of all debris and dust. A thorough initial wash shall be done approximately 48 hours after the completion of the installation.
- E14.2 Precautions shall be taken in order to ensure that the following products and equipment are never used to maintain the sports rubber flooring. They include steel wool or abrasive brushes, abrasive or very alkaline cleaners and solvents of any type.
- E14.3 Dilute the Traski Profi detergent in warm water at a ratio recommended by the manufacturer (2-4 oz. /gallon).
- E14.4 Apply the solution to the floor by mop or auto scrubber, with the vacuum not running.

- E14.5 Allow the solution to stand on the surface for approximately 10 to 15 minutes after the application. Apply enough solution so it will not dry during that time period.
- E14.6 Scrub the area with an auto-scrubber equipped with red, green, purple or microfibre pad in multiple directions. During the scrubbing procedure, do not vacuum the solution.
- E14.7 Once the area has been scrubbed, thoroughly vacuum up the solution. Rinse the area entirely with clean fresh water.
- E14.8 Repeat rinsing as required to remove all residues.
- E14.9 Application of Acrylic Floor Finish: After the wash with Taski Profi, apply one coat of a conditioning product following the flooring manufacturer's instructions. (Recommended products: Taski Vision Matte or Johnson CareFree Matte from Diversy Lever)