



**THE CITY OF WINNIPEG**

# **TENDER**

**TENDER NO. 273-2020**

**ROOF REPLACEMENT - 1539 WAVERLEY**

## 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	7

### PART C - GENERAL CONDITIONS

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

### PART D - SUPPLEMENTAL CONDITIONS

#### General

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

#### Submissions

D6. Authority to Carry on Business	2
D7. Safe Work Plan	2
D8. Insurance	2
D9. Contract Security	2
D10. Subcontractor List	3
D11. Detailed Work Schedule	3

#### Schedule of Work

D12. Commencement	4
D13. Substantial Performance	4
D14. Total Performance	4
D15. Liquidated Damages	5
D16. Covid 19 Schedule Delays	5

#### Control of Work

D17. Job Meetings	6
D18. Prime Contractor – The Workplace Safety and Health Act (Manitoba)	6
D19. The Workplace Safety and Health Act (Manitoba) – Qualifications	6

#### Measurement and Payment

D20. Invoices	6
D21. Payment	6

**Warranty**

D22. Warranty	7
---------------	---

**Third Party Agreements**

D23. Funding and/or Contribution Agreement Obligations	7
--	---

Form H1: Performance Bond	10
---------------------------	----

Form H2: Labour and Material Payment Bond	12
---	----

Form H3: Irrevocable Standby Letter of Credit	14
---	----

Form J: Subcontractor List	16
----------------------------	----

**PART E - SPECIFICATIONS**

**General**

E1. Applicable Specifications and Drawings	17
--	----

E2. Hazardous Materials\	25
--------------------------	----

## **PART B - BIDDING PROCEDURES**

### **B1. CONTRACT TITLE**

B1.1 ROOF REPLACEMENT - 1539 WAVERLEY

### **B2. SUBMISSION DEADLINE**

B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, May 15, 2020.

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, a Site meeting will be held at 10am on May 1, 2020 to provide Bidders access to the Site.

B3.2 The Bidder is advised that they are to meet at the main entrance to the facility prior to the start of the meeting. Due to the Covid 19 pandemic, social distancing will be observed on site during the inspection. Bidders are encouraged to wear PPE during the site investigation.

B3.3 The Bidder shall not be entitled to rely on any information or interpretation received at the Site investigation unless that information or interpretation is the Bidder's direct observation, or is provided by the Contract Administrator in writing.

### **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 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](http://www.merx.com).

B6.4 The Bidder is responsible for ensuring that he/she has 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 D3.

## **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 in accordance with B7 in accordance with B7 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 in accordance with B7, the substitute will fully perform the functions called for by the general design, be of equal in accordance with B7 or superior substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the proposed work schedule and the dates specified in the Supplemental Conditions for Substantial Performance and Total Performance;
- (e) certify that, in the case of a request for approval as an approved alternative, the substitute will adequately perform the functions called for by the general design, be similar in substance to that specified, is suited to the same use and capable of performing the same

function as that specified and can be incorporated into the Work, strictly in accordance with the proposed work schedule and the dates specified in the Supplemental Conditions for Substantial Performance and Total Performance.

- B7.5 The Contract Administrator, after assessing the request for approval of a substitute, may in his/her sole discretion grant approval for the use of a substitute as an “approved equal in accordance with B7” 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 he/she wishes to inform.
- B7.7 If the Contract Administrator approves a substitute as an “approved equal in accordance with B7”, any Bidder may use the approved equal in accordance with B7 in accordance with B7 in place of the specified item.
- B7.8 If the Contract Administrator approves a substitute as an “approved alternative”, any Bidder bidding that approved alternative may base his/her Total Bid Price upon the specified item but may also indicate an alternative price based upon the approved alternative. Such alternatives will be evaluated in accordance with 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 in accordance with B7 in accordance with B7 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 Further to B8.1, the Bidder should include the written correspondence from the Contract Administrator approving a substitute in accordance with B7.
- B8.3 All components of the Bid shall be fully completed or provided, and submitted by the Bidder no later than the Submission Deadline, with all required entries made clearly and completely.
- B8.4 The Bid shall be submitted electronically through MERX at [www.merx.com](http://www.merx.com).
- B8.4.1 Bids will **only** be accepted electronically through MERX.
- B8.5 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 his/her own name, his/her name shall be inserted;
  - (b) if the Bidder is a partnership, the full name of the partnership shall be inserted;
  - (c) if the Bidder is a corporation, the full name of the corporation shall be inserted;

- (d) if the Bidder is carrying on business under a name other than his/her own, the business name and the name of every partner or corporation who is the owner of such business name shall be inserted.

B9.2.1 If a 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 his/her 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/her 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 printed 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 enter the lump sum price in Canadian funds for the Work in the Total Bid Price field in MERX.

B10.1.1 Prices stated shall not include any costs which may be incurred by the Contractor with respect to any applicable funding agreement obligations as outlined in D23. Any such costs shall be determined in accordance with D23.

B10.2 Payments to Non-Resident Contractors are subject to Non-Resident Withholding Tax pursuant to the Income Tax Act (Canada).

## **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) N/A

## **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 its 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 its 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 its 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 its 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 its 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 its sole discretion:

- (a) disqualify a Bidder that fails to disclose a perceived, potential or actual Conflict of Interest of the Bidder or any of its 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 its 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 its 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 its 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);

**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** 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.

**B13.6** The Bidder shall provide, on the request of the Contract Administrator, full access to any of the Bidder's equipment and facilities to confirm, to the Contract Administrator's satisfaction, that the Bidder's equipment and facilities are adequate to perform the Work.

#### **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](http://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](http://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 his/her 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 his/her Bid or in other information required to be submitted, that he/she is qualified.
- B17.4 Further to B17.1(c), the Total Bid Price shall be the lump sum price entered into 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 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.
- B18.3 The Work of this Contract is contingent upon Council approval of sufficient funding in the 2020 Capital Budget. If the Capital Budget approved by Council does not include sufficient funding for the Work, the City will have no obligation to award a Contract.
- B18.4 If funding for the Work is provided to the City of Winnipeg by the Government of Manitoba and/or the Government of Canada, Bidders are advised that the terms of D23 shall immediately take effect upon confirmation of such funding, regardless of when funding is confirmed.
- B18.5 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.
- B18.5.1 Following the award of contract, a Bidder will be provided with information related to the evaluation of his/her Bid upon written request to the Contract Administrator.
- B18.6 Further to C4, the City may issue a Purchase Order to the successful Bidder to form the Contract.
- B18.7 The Contract Documents, as defined in C1.1, 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.

## 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](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 Work to be done under the Contract shall consist of the removal of the existing low slope built up roofing system to decking and install a new styrene-butadiene-styrene (SBS) modified bitumen low slope roofing system, including all new drainage, accessories and metal flashings for roof sections A2 and B2 of 1539 Waverley.

#### **D3. CONTRACT ADMINISTRATOR**

D3.1 The Contract Administrator is Agassiz Consulting Group, represented by:

Larry Rech  
Senior Roof Consultant  
Telephone No. 204-771-2944  
Email Address lrech@aggassiz.biz

D3.2 At the pre-construction meeting, Larry Rech will identify additional personnel representing the Contract Administrator and their respective roles and responsibilities for the Work.

D3.3 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/her 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 C22.4, 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/Proposal.

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 or elsewhere in the Contract, shall be sent to the attention of the Contract Administrator identified in D3.

D5.3 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications required to be submitted or returned to the City Solicitor shall be sent to the following facsimile number:

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

## **SUBMISSIONS**

### **D6. AUTHORITY TO CARRY ON BUSINESS**

D6.1 The Contractor shall be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, or if the Contractor does not carry on business in Manitoba, in the jurisdiction where the Contractor does carry on business, throughout the term of the Contract, and shall provide the Contract Administrator with evidence thereof upon request.

### **D7. SAFE WORK PLAN**

D7.1 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.

D7.2 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>

D7.3 Notwithstanding B13.4 at any time during the term of the Contract, the City may, at its 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.

### **D8. INSURANCE**

D8.1 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.

D8.2 Deductibles shall be borne by the Contractor.

D8.3 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.

D8.4 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.

### **D9. CONTRACT SECURITY**

D9.1 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 in accordance with B7 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.

D9.1.1 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.

D9.2 The Contractor shall provide the City Solicitor with the required contract security within seven (7) Calendar Days of notification of the award of the Contract by way of Purchase Order and prior to the commencement of any Work on the Site.

D9.3 Where the Contract Security is provided in accordance with D9.1(a) and D9.1(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 D9.1(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.

## **D10. SUBCONTRACTOR LIST**

D10.1 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.

## **D11. DETAILED WORK SCHEDULE**

D11.1 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.

- (a) Alterations to the schedule due to the Covid-19 Pandemic as defined in section D16.

D11.2 The detailed work schedule shall consist of the following:

- (a) a critical path method (C.P.M.) schedule for the Work;
  - (b) a Gantt chart for the Work based on the C.P.M. schedule;
- all acceptable to the Contract Administrator.

D11.3 Further to D11.2(a), the C.P.M. schedule shall clearly identify the start and completion dates of all of the following activities/tasks making up the Work as well as showing those activities/tasks on the critical path:

D11.4 Further to D11.2(b), the Gantt chart shall show the time on a weekly basis, required to carry out the Work of each trade, or specification division. The time shall be on the horizontal axis, and the type of trade shall be on the vertical axis.

## **SCHEDULE OF WORK**

### **D12. COMMENCEMENT**

D12.1 The Contractor shall not commence any Work until he/she is in receipt of a Purchase Order from the Award Authority authorizing the commencement of the Work.

D12.2 The Contractor shall not commence any Work on the Site until:

- (a) the Contract Administrator has confirmed receipt and approval of:
  - (i) evidence of authority to carry on business specified in D6;
  - (ii) evidence of the workers compensation coverage specified in C6.15;
  - (iii) the Safe Work Plan specified in D7;
  - (iv) evidence of the insurance specified in D8;
  - (v) the contract security specified in D9;
  - (vi) the Subcontractor list specified in D10; and
  - (vii) the detailed work schedule specified in D11.
- (b) the Contractor has attended a pre-construction meeting with the Contract Administrator, or the Contract Administrator has waived the requirement for a pre-construction meeting.
- (c) All tapered insulation shop drawings.
- (d) Submittal of copies of the Manitoba Hydro Commercial Building Envelope Program approval letter and incentive calculation where applicable.
- (e) Submit a letter issued by the Roofing Manufacturer stating approved licensed applicator status and approval to issue warranty for the specified system or its approved equal in accordance with B7, on this project
- (f) Submit product data sheets for primers, insulation, SBS membranes, adhesives, and MSDS for all products, other safety and handling instructions and installation instructions within five(5) working days prior to commencement onsite.

D12.3 The City intends to award this Contract by June 12, 2020

D12.3.1 If the actual date of award is later than the intended date, Substantial Performance, and Total Performance will be adjusted by the difference between the aforementioned intended and actual dates.

### **D13. SUBSTANTIAL PERFORMANCE**

D13.1 The Contractor shall achieve Substantial Performance within forty five (45) consecutive Working Days of the commencement of the Work as specified in D12.

D13.2 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.

D13.3 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.

### **D14. TOTAL PERFORMANCE**

D14.1 The Contractor shall achieve Total Performance within sixty (60) consecutive Working Days of the commencement of the Work as specified in D12.

D14.2 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.

D14.3 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.

#### **D15. LIQUIDATED DAMAGES**

D15.1 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 three hundred dollars (\$300.00) per Working Day for each and every Working Day following the day fixed herein for Total Performance during which such failure continues.

D15.2 The amount specified for liquidated damages in D15.1 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.

D15.3 The City may reduce any payment to the Contractor by the amount of any liquidated damages assessed.

#### **D16. COVID 19 SCHEDULE DELAYS**

D16.1 The City acknowledges that the schedule for this Contract may be impacted by the COVID-19 pandemic. Commencement and progress of the Work shall be performed by the Contractor with due consideration to the health and safety of workers and the public and directives from health authorities and various levels of government, and in close consultation with the Contract Administrator.

D16.2 If the Contractor is delayed in the performance of the Work by reason of the COVID-19 pandemic, the Work schedule may be adjusted by a period of time equal in accordance with B7 to the time lost due to such delay and costs related to such delay will be determined as identified herein.

D16.3 A minimum of seven (7) Calendar Days prior to the commencement of Work, the Contractor shall declare whether COVID-19 will affect the start date. If the Contractor declares that COVID-19 will affect the start date, the Contractor shall provide sufficient evidence that the delay is directly related to COVID-19, including but not limited to evidence related to availability of staff, availability of Material or work by others.

D16.4 For any delay related to COVID-19 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 D16.3. Failure to provide this notice will result in no additional time delays being considered by the City.

D16.5 The Work schedule, including the durations identified in D13 and D14 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.

D16.6 Where Work not previously identified is being carried over solely as a result of delays related to COVID-19, 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 COVID-19, a partial consideration of the cost of temporary works will be considered by the Contract Administrator.

D16.7 Any time or cost implications as a result of COVID-19 and in accordance with the above, as confirmed by the Contract Administrator, shall be documented in accordance with C7.

## CONTROL OF WORK

### D17. JOB MEETINGS

- D17.1 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.
- D17.2 The Contract Administrator reserves the right to cancel any job meeting or call additional job meetings whenever he/she deems it necessary.

### D18. PRIME CONTRACTOR – THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA)

- D18.1 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).

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

- D19.1 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 its sole discretion and acting reasonably, require updated proof of compliance, as set out in B13.4.

## MEASUREMENT AND PAYMENT

### D20. INVOICES

- D20.1 Further to C12, the Contractor shall submit an invoice for each portion of Work performed. to:  
The City of Winnipeg  
Corporate Finance - Accounts Payable  
4th Floor, Administration Building, 510 Main Street  
Winnipeg MB R3B 1B9  
Facsimile No.: 204-949-0864  
Send Invoices to [CityWpgAP-INVOICES@winnipeg.ca](mailto:CityWpgAP-INVOICES@winnipeg.ca)  
Send Invoice Inquiries to [CityWpgAP-INQUIRIES@winnipeg.ca](mailto:CityWpgAP-INQUIRIES@winnipeg.ca)
- D20.2 Invoices must clearly indicate, as a minimum:
- the City's purchase order number;
  - date of delivery;
  - delivery address;
  - type and quantity of work performed;
  - the amount payable with GST and MRST shown as separate amounts; and
  - the Contractor's GST registration number.
- D20.3 The City will bear no responsibility for delays in approval of invoices which are improperly submitted.

### D21. PAYMENT

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

## WARRANTY

### D22. WARRANTY

- D22.1 Notwithstanding C13.2, the warranty period shall begin on the date of Total Performance and shall expire five (5) years thereafter, except where longer warranty periods are specified, unless extended pursuant to C13.2.1 or C13.2.2, in which case it shall expire when provided for thereunder.
- D22.2 For the purpose of Performance Security, the warranty period shall be one (1) year.
- D22.3 Notwithstanding C13.2, the Contract Administrator may permit the warranty period for a portion or portions of the Work to begin prior to the date of Total Performance if a 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.
- D22.4 In such case, the date specified by the Contract Administrator for the warranty period to begin shall be substituted for the date specified in C13.2 for the warranty period to begin.
- D22.5 The membrane manufacturer will issue a written warranty document in the owner's name, valid for a 10 year period, saying that it will repair any deficiencies of the membrane and restore the roofing system to a dry and watertight condition, to the extent that the membrane manufacturing or defects caused the water infiltration. The warranty must cover the entire cost of the repair(s) during the entire warranty period. The warranty must be transferrable, at no extra cost to subsequent building owners. The warranty certificate must reflect this requirement.
- D22.6 The contractor will issue a written and signed document in the owner's name, certifying that the work executed will remain in place and free of workmanship defect for a period of five (5) years, starting from the date of Total Performance and/or the early start date of the warranty as per D22.3. The warranty must cover the entire cost of the repair(s) during the entire warranty period to restore the roof system to a dry and watertight condition. The warranty must be transferrable; at no extra cost to subsequent building owners, the warranty certificate must reflect this requirement.

## THIRD PARTY AGREEMENTS

### D23. FUNDING AND/OR CONTRIBUTION AGREEMENT OBLIGATIONS

- D23.1 In the event that funding for the Work of the Contract is provided to the City of Winnipeg by the Government of Manitoba and/or the Government of Canada, the following terms and conditions shall apply, as required by the applicable funding agreements.
- D23.2 Further to D23.1, in the event that the obligations in D23 apply, actual costs legitimately incurred by the Contractor as a direct result of these obligations ("Funding Costs") shall be determined by the actual cost to the Contractor and not by the valuation method(s) outlined in C7.4. In all other respects Funding Costs will be processed in accordance with Changes in Work under C7.
- D23.3 For the purposes of D23:
- (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.
- D23.4 Modified Insurance Requirements
- D23.4.1 If not already required under the insurance requirements identified in D8, the Contractor will be required to provide wrap-up liability insurance in an amount of no less than two million dollars (\$2,000,000) inclusive per occurrence. Such policy will be written in the joint

names of the City, Contractor, Consultants and all sub-contractors and sub-consultants and include twelve (12) months completed operations. The Government of Manitoba and its Ministers, officers, employees, and agents shall be added as additional insureds.

- D23.4.2 If not already required under the insurance requirements identified in D8, the Contractor will be required to provide builders' risk insurance (including boiler and machinery insurance, as applicable) providing all risks coverage at full replacement cost, or such lower level of insurance that the City may identify on a case-by-case basis, such as an installation floater.
- D23.4.3 The Contractor shall obtain and maintain third party liability insurance with minimum coverage of two million dollars (\$2,000,000.00) per occurrence on all licensed vehicles operated at the Site. In the event that this requirement conflicts with another licensed vehicle insurance requirement in this Contract, then the requirement that provides the higher level of insurance shall apply.
- D23.4.4 Further to D8.3, insurers shall provide satisfactory Certificates of Insurance to the Government of Manitoba prior to commencement of Work as written evidence of the insurance required. The Certificates of Insurance must provide for a minimum of thirty (30) days' prior written notice to the Government of Manitoba in case of insurance cancellation.
- D23.4.5 All policies must be taken out with insurers licensed to carry on business in the Province of Manitoba.

#### D23.5 Indemnification By Contractor

- D23.5.1 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.

#### D23.6 Records Retention and Audits

- D23.6.1 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.
- D23.6.2 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 D23.6.1 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.

#### D23.7 Other Obligations

- D23.7.1 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.

- D23.7.2 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.
- D23.7.3 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.
- D23.7.4 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.

**FORM H1: PERFORMANCE BOND**  
(See D9)

KNOW ALL MEN BY THESE PRESENTS THAT

\_\_\_\_\_ ,  
(hereinafter called the "Principal"), and

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

\_\_\_\_\_ dollars (\$\_\_\_\_\_)

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

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

TENDER NO. 273-2020

ROOF REPLACEMENT - 1539 WAVERLEY

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 D9)

KNOW ALL MEN 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. **273-2020**

ROOF REPLACEMENT 1539 WAVERLEY

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 D9)**

\_\_\_\_\_  
(Date)

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

RE: CONTRACT SECURITY - TENDER NO. 273-2020  
ROOF REPLACEMENT - 1539 WAVERLEY

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 its entirety, whether or not specifically listed on Form B: Prices, shall apply to the Work.
- E1.2.1 *The City of Winnipeg Standard Construction Specifications* is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/Spec/Default.stm>
- E1.2.2 The version in effect three (3) Business Days before the Submission Deadline shall apply.
- E1.2.3 Further to C2.4(d), Specifications included in the 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 in accordance with B7 in accordance with B7 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 equal in accordance with B7s and/or approved alternatives in accordance with B7.
- E1.4 The following are applicable to the Work:

<u>Drawing No.</u>	<u>Drawing Name/Title</u>
R-1	Roof Plan
D-1	Parapet and Curb Details
L-4	Ladder Details

#### E1.5 **Materials**

##### E1.5.1 DIMENSIONAL LUMBER

- (a) This shall be construction grade spruce of the dimensions as outlined under the Description of Work.

##### E1.5.2 PLYWOOD SHEATHING

- (a) This shall be 1/2" Standard Grade spruce plywood. Thickness is to be increased to 3/4" when installed over a concrete substrate.

##### E1.5.3 DRYWALL SHEATHING

- (a) This shall be 5/8" DensDeck Prime as manufactured by Georgia Pacific or approved equal in accordance with B7 in accordance with B7.

##### E1.5.4 VAPOUR BARRIER

- (a) This shall be Soprema Sopralene 180 S/P 3.5mm with Soprema Sopralene Stick HR 40 base (for picture framing) or approved equal in accordance with B7.

##### E1.5.5 ROOFING INSULATION

- (a) Expanded Polystyrene Type II with a minimum slope and thickness's as indicated on the roof plan. This shall be as manufactured by Plastifab Ltd., Co-Star Innovations or approved equal in accordance with B7.
- (b) Soprema Sopra-ISO Plus polyisocyanurate insulation with acrylic facer or approved equal in accordance with B7. Thickness is as indicated on the roof plan.

#### E1.5.6 INSULATION SUMPS

- (a) These shall be 8' x 8' Expanded Polystyrene Type II with a minimum thickness of 1/2" and maximum thickness to the thickness of the top layer of insulation. These shall be as manufactured by Plastifab Ltd. or AMC Insulation Corp or approved equal in accordance with B7.

#### E1.5.7 INSULATION ADHESIVE

- (a) This shall be Soprema Duotack or approved equal in accordance with B7.

#### E1.5.8 POURABLE SEALER

- (a) This is to be a two-component pourable EPDM sealer. This is to be used to fill all pitch boxes or as otherwise specified.

#### E1.5.9 COVER BOARD

- (a) This shall be 3/8" Securock or approved equal in accordance with B7.

#### E1.5.10 MODIFIED BITUMEN MEMBRANE (picture framing)

- (a) Soprema Sopralene Flam 180 base sheet with Soprema Sopralene Flam 250 Gr. cap sheet or approved equal in accordance with B7.
- (b) Soprema Sopralene Stick HR 40 base and Soprema Sopralene Stick HR GR cap is to be used for a minimum distance of 3' around all curbed openings and perimeter edges. Use in conjunction with Soprema Elastocol Stick 500 adhesive primer as well as Soprema Colply Adhesive. Install in strict accordance to the manufacturer's guidelines.
- (c) Stripping:
  - (i) Soprema Sopralene Stick HR 40 self-adhering base sheet with Sopralene Stick HG GR cap sheet or approved equal in accordance with B7

#### E1.5.11 MODIFIED PRIMER

- (a) This is to be the primer recommended by the membrane manufacturer being used.

#### E1.5.12 CAULKING

- (a) This shall be Tremco Dymonic FC, or approved equal in accordance with B7. Color is to be chosen by the Contract Administrator from the standard range of colors.

#### E1.5.13 ALUMINUM PAINT

- (a) This shall be Tremco Double Duty or approved equal in accordance with B7.

#### E1.5.14 ROOF DRAINS

- (a) These shall be U-Flow Hercules - A (aluminum strainer dome) drains as supplied by Beacon Roofing Supply Ltd or approved equal in accordance with B7. Size is to match existing plumbing. If the existing drains being replaced are control flow, then the same manufacturers control flow inserts are to be installed.

#### E1.5.15 VENT STACK FLASHINGS

- (a) These shall be Insulated Stack Jack Flashing (with EPDM seals) SJ-38A - 13" (330 mm) high as manufactured by Thaler or approved equal in accordance with B7.
- (b) Sealant for connection of flashing to membrane to be Soprema Alsans or approved equal in accordance with B7.

#### E1.5.16 METAL FLASHING

- (a) This shall be a minimum of 24 gauge in thickness. Metal is to be prefinished and is to be chosen from the standard in stock range of Stelco 8000 series of colors.

#### E1.5.17 SIDING

- (a) Siding is to closely match color and profile of that already in place on the south wall of area of roof B2.

#### E1.5.18 ACCESSORIES

- (a) All nails, bolts, screws and other fasteners etc. shall all be as recommended by the manufacturer of the materials for which they are to be used.

#### E1.5.19 GAS LINE SUPPORTS

- (a) For a maximum gas line size of 2" use Clearline C-Port CXP series rubber gas line sleepers with a 3/4" rubber pad placed under. Pads shall extend a minimum of 2" out from under all sides of the sleeper or approved equal in accordance with B7.
- (b) For a greater than 2" gas lines use 12" x 12" Clearline C-Port CXW series rubber gas line sleepers c/w with appropriate Clearline accessories for height adjustments as required. or approved equal in accordance with B7

#### E1.5.20 SPRAY FOAM INSULATION

- (a) This shall be FROTH-PAK™ FS Portable Spray Foam as manufactured by DOW Chemical Corp or approved equal in accordance with B7.

#### E1.5.21 DUCT INSULATION

- (a) This shall be 2" polyisocyanurate complete with appropriate stick pins and clad with TPO membrane. All membrane seams are to be heat welded.

#### E1.5.22 FALL ARREST SYSTEM

- (a) Locate as indicated on drawings. The system and installation shall be designed by a Professional Structural Engineer registered in the Province of Manitoba, to conform to Manitoba Department of Labour requirements and CSA 291M90. Submit shop drawings, sealed by an engineer, for approval prior to fabrication.
- (b) Acceptable systems are as follows:
  - (i) Guard Rail System: Safety Rail 2000 Distributed By Unistrut Canada Limited, 585 Finley Avenue, Ajax, ON. Contact Ron Marchall, phone 905-683-8131. Or approved equal in accordance with B7
  - (ii) Any support pads on the roof surface must be placed on a continuous 3/4" rubber matt to protect the underlying roof membrane.

#### E1.5.23 ROOF HATCH

- (a) This shall be a 30" x 36" Type S-50TB roof scuttle as manufactured by The Bilco Company or approved equal in accordance with B7.

**E1.6 ROOFING PROCEDURES ( Built Up Roofing )**

- E1.6.1 Protect all new Work and the existing building and its contents against inclement weather. Supply and install equipment and enclosures necessary to provide this protection from beginning to completion of the Work.
- E1.6.2 Do not apply any roofing whatsoever during any inclement weather including when the temperature may fall lower than twenty degrees below Celsius or when the wind-chill is equal in accordance with B7 to or greater than 1700.
- E1.6.3 Do not expose roofing materials, vulnerable to water or sun damage, in quantities greater than can be weatherproofed in one day. Use only clean and dry materials and apply only during weather that will not introduce moisture into the roof system. This would include days of excessively high relative humidity. Undertake only that amount of roofing that can be completed as specified in the same day or prior to inclement weather forcing a shutdown of the operations.
- E1.6.4 Apply roofing over clean and dry surfaces and in accordance to C.R.C.A. and /or manufacturers guidelines and as amended herein.
- E1.6.5 All materials on the roof shall be stored in such a manner as to prevent blow-offs during high winds.
- E1.6.6 Should the roofing operations be terminated during the day for unforeseen circumstances all exposed vapor barrier, felts or drywall **MUST** be fully glaze coated with bitumen prior to leaving the Site that day.
- E1.6.7 Protect the surrounding surfaces against damage from the roofing operations. Where hoisting is necessary protect the buildings by hanging tarpaulins. Should equipment be parked on the surrounding lawn, it shall be protected with 3/4" plywood. Neither materials nor debris shall be stored or stock piled on adjoining roof areas that are not being replaced.
- E1.6.8 Provide protection for the public using walkways, grounds, entrances, etc., by using proper warning signs, hoarding, shelters, or barricades as agreed to by the Contract Administrator.
- E1.6.9 Where Work must or will continue over the finished roofing membrane, the Contractor will protect it with plywood sheathing.
- E1.6.10 Removal of (opening up) existing roof membrane shall be done only after consultation and with agreement by the Contract Administrator. Remove only that portion that can be fully completed as specified within the same day work period.
- E1.6.11 Employ qualified mechanical tradesmen to disconnect existing roof top units and to move the units to allow complete installation of roofing membrane, insulation and vapor barrier as specified herein. The Contractor shall be responsible for any required alterations, such as extending ducts or electrical, as is required to properly reconnect of the units. The Contractor shall be held responsible for any damage to mechanical units from the roofing operations. Contact Contract Administrator prior to any disconnection's. Notify Contract Administrator of any required unit maintenance work and provide price for any required repairs
- E1.6.12 Notify Contract Administrator and ensure he has proper time to appear on Site during application period. Failure to do so may result in the total rejection of all Work completed prior to notifying the Contract Administrator.
- E1.6.13 Inspect all roof decking prior to installation of roofing system and report all defects or unsuitable conditions to the Contract Administrator and correct deficiencies as directed.
- E1.6.14 The Site shall be inspected prior to commencement of Work to ensure no current anomalies are present such as lawn damage, asphalt on walls, broken windows. etc. All anomalies shall be reported to the Contract Administrator. They shall then be recorded and photographed by both parties at that time. Should no anomalies be reported prior to Work commencing it shall be assumed that none existed prior to commencement.



- E1.6.15 Use only equipment in good working order including all thermometers and gauges. Locate equipment as instructed by the Contract Administrator. Maintain continuous supervision while kettles in operation.
- E1.6.16 Propane bottles must be removed from the roof and site each night.
- E1.6.17 All applicable safety regulations as indicated by Manitoba Health and Safety must be strictly followed at all times.
- E1.6.18 Any damage to the existing lawn is to be repaired with new sod. Topsoil and seed will not be accepted.

**E1.7 DESCRIPTION OF WORK**

- E1.7.1 Roof assembly is to meet C.S.A. CSA A123.21 for local wind uplift requirements.
- E1.7.2 Membrane manufacturer 10 year system warranty is to be provided.
- E1.7.3 The Contractor is responsible for obtaining asbestos testing documents from the Owner. The Owner is responsible for any asbestos testing as well as any additional costs for and required asbestos abatement.
- E1.7.4 The Contractor is to view the work premises prior to the start of any roofing or set up. The Contractor is to document any existing interior water damage. Any existing damage is to be photographed and the locations documented. This is to minimize any conflicts between the Owner and Roofer should any leaks occur during construction. A copy of the report is to be submitted to both the Consultant and the Owner.
- E1.7.5 Freon charged mechanical units with exposed coolant lines must have all Freon pumped out prior to any work being undertaken around the unit. This is to eliminate the chance of any accidental Freon discharge.
- E1.7.6 The contractor shall be responsible for preparing forms for Manitoba Hydro's Commercial Building Envelope Program rebates.
- E1.7.7 Picture framing to eliminate torching at curbs, walls and parapets is mandatory.

**E1.8 INSTALLATION PROCEDURES OF ROOF AREAS A2 & B2**

- E1.8.1 The existing sheet metal flashing are to be removed and discarded from site to an authorized nuisance ground.
- E1.8.2 The existing roof assembly is to be removed to the deck and discarded from site to an authorized nuisance ground.
- E1.8.3 The existing perimeter blocking is to be removed and discarded.
- E1.8.4 All necessary precautions must be taken to ensure no excessive dirt or debris enters the building interior and protect building contents from dust etc.
- E1.8.5 Temporarily disconnect any electrical, telecommunications equipment, gas lines, etc. to allow for the proper installation of the new roofing.
- E1.8.6 Remove and discard all old non used scuppers and down pipes.
- E1.8.7 Remove and discard the old cementitious (asbestos?) panels from along the top of the east exterior wall. Better secure the underlying plywood as required.
- E1.8.8 Remove and discard the existing siding and cap flashing on the east elevation of the south divider wall. Membrane stripping is to be carried up and onto the top of this wall in lieu of the siding.
- E1.8.9 Remove all non-used items such as old curbs, electrical, chimneys, gas lines etc. This includes for the north roof hatch of which is not in use. Patch the roof deck in a structurally sound manner. Gas lines and electrical are to be capped just inside the building interior.
- E1.8.10 **ALL** loose vapor barriers are to be scraped from the deck and also discarded as above. The roof deck is to then be swept clean of all dirt and debris.
- E1.8.11 ALL LOADS OF DEBRIS REMOVED FROM SITE SHALL BE PROPERLY TARPED
- E1.8.12 Install new minimum 4" gray PVC drain lines along with new specified drains. Drain line size is to meet applicable fire and plumbing codes. Drain lines are to be fully insulated with ASJ insulation. Side laps of ASJ insulation are to be stapled as well as taped. Tie new drain lines to existing. Alter any electrical or other items that may interfere with the installation of the new drain lines. Threaded rod hangars are to be used and spaced to provide proper support for a fully filled drain line. Cap off old drains. Install control flow drains wherever combined sewer and water.

- E1.8.13 Old drains and drain lines are to be removed and the lines capped off in the building interior.
- E1.8.14 Install 1/2" plywood sheeting (3/4" on concrete areas) on the inside face of all parapets and up the base of adjoining walls and up full height of divider walls. Plywood sheeting on the base of walls is to extend a minimum of 12" up above the top of the new roofing. Remove or alter siding on walls to accommodate the new sheeting and membrane. (all sheeting is to be installed prior to the vapor barrier stripping). If fiberboard or drywall is present on the walls or the inside face of parapets it is to be removed to allow for the installation of the plywood sheeting. Siding is to terminate a minimum of 8" above the top of the new roofing.
- E1.8.15 Temporarily disconnect and remove mechanical units as required to allow roofing operations to continue. Ensure all units are in working condition prior to removal. Should the unit be malfunctioning advise the Consultant prior to removal. If this is not done the Contractor may be held responsible for the repair of the unit. Use only qualified mechanical trades people for these operations.
- E1.8.16 A structural steel stand is to be fabricated and installed to replace the existing stand for the large unit. The stand is to be fabricated from a minimum of 3" x 3" x 1/4" square steel tubing. All components of the stands are to be hot zinc dipped. The stand is to be such as to ensure that the units have a minimum of 36" clearance underneath for future roof repairs. All open ends on tubing are to be closed off with welded in place cover plates of the same size as the tubing. If possible, no cross bracing is to be used on the stand. Steel gussets can however be used as stiffeners. Legs are to sit on minimum 6"x12"x1/2" welded plates to provide bearing on the top of the sleepers. Shop drawings are to be submitted complete with engineer's stamp. Engineers are to be licensed to practice in the Province of Manitoba. Engineer is to also be responsible for confirming that the existing structure can handle any additional loading from the additional weight of the stand as well as any change in snow loading. The new stand can be structurally attached to the existing structure as is the existing or alternatively set on sleepers if feasible. The new sleepers would be fabricated by stacking minimum 2x8 PWF lumber on flat with a minimum height of 6" above the top of the new roofing. Install 1/2" pressure treated plywood on all sides of the new sleepers. If sleepers are incorporated, then they preferably should be run perpendicular to the roof slope. If parallel, then increase height of sleepers to allow for a minimum of 3"- 0" x 4' back slope.
- E1.8.17 Adhere the drywall to the steel deck using the specified adhesive. Apply in same manner as specified for insulation system. Stagger rows from one another by a minimum of 6".
- E1.8.18 Install self-adhering base sheet membrane stripping up and over all parapets and on all curbs, dividers and elevation changes. This will also provide fire protection for the installation of the vapor barrier. Install self-adhering corner gussets. MEMBRANE STRIPPING IS TO BE INSTALLED PRIOR TO THE VAPOR BARRIER TO ALLOW A TORCH SEAL TO THE STRIPPING.
- E1.8.19 Install minimum 3' width of self-adhering base sheet membrane VB around the base of all curbs. Parapets and other projections.
- E1.8.20 Torch adhere the new vapor barrier. Take all appropriate precautions to prevent fire.
- E1.8.21 New parapets are to be constructed using 2x6 studs and double top plates with 1/2" plywood on both sides. The pony wall is to be fully insulated with batt insulation. The new roof vapor barrier is to extend to the outside face of the existing walls under the new parapets. If drywall is being installed on the roof deck then matching thickness plywood is to be installed under the parapets rather than drywall. The parapets shall be securely fastened in place with appropriate fasteners at 16" on center. New parapets are to be a minimum of 12" in height but are to be raised as required to obtain a minimum height of 6" above the top of the new roofing.
- E1.8.22 NEW PARAPETS ARE TO BE INSTALLED IMMEDIATELY FOLLOWING THE INSTALLATION OF THE NEW VAPOR BARRIER SO AS TO PREVENT EXCESS WATERFLOW OVER THE EDGE OF THE ROOF.
- E1.8.23 Fabricate and install covered curbs for all mechanical and electrical lines as detailed.
- E1.8.24 All plumbing vents are to be extended at this time. Existing cast hubs are to be removed (as required) and the appropriate length black ABS extensions securely clamped to the existing plumbing using Fernco couplers.

- E1.8.25 Fabricate and install new wood curbs to replace all existing wood curbs. Curbs are to be fabricated from 1 1/2" lumber stacked on edge to obtain a minimum height of 8" above the top of the new roofing. Vent hood curbs are to be sized to eliminate any step in the metal flashing of any hoods.
- E1.8.26 Adhere the layer of sloped insulation to the vapor barrier using the specified adhesive.
- E1.8.27 Adhere the layer of polyisocyanurate insulation using the specified adhesive. Stagger rows from one another by a minimum of 6".
- E1.8.28 Fit drain insulation sumps into layer of polyisocyanurate insulation.
- E1.8.29 Adhere the cover board using the specified adhesive. Stagger rows from one another by a minimum of 6". Tape joints over drain sumps. SHEETS OF SECUROCK MUST BE PRE-PRIMED TO ALLOW PRIMER TO DRY BEFORE INSTALLTION OF TORCH APPLIED BASE SHEET MEMBRANE.
- E1.8.30 All layers of roofing insulation must be offset from one another by a minimum of 6".
- E1.8.31 Any gaps between insulation sheets wider than 1/8" are to be filled with fiberglass insulation.
- E1.8.32 The application of the adhesive must be done in strict accordance to the manufacturers guidelines with maximum spacing of adhesive ribbons not exceeding those listed below:
- (a) Outside 12' x 12' corners is not to exceed 4" on center.
  - (b) Perimeter 8' is not to exceed 6" on center.
  - (c) Remaining main field is not to exceed 12" on center.
  - (d) Inside corners are to be treated in a similar manner to outside corners.
  - (e) CONFIRM EXACT APLICATION WITH MANUFACTURER
- E1.8.33 Insulation sheets and recovery board sheets shall be placed immediately into the wet adhesive. If left open, the adhesive can skin over within several minutes. Once skinned over, adhesive will not wet into the insulation board, creating a weak bond. Do not allow the adhesive to skin over.
- E1.8.34 Install self-adhering base sheet membrane to create picture framing safety zones. Torch adhere the modified bitumen base sheet to the cover board. Ensure no wrinkles are present and that all side and end laps are properly sealed.
- E1.8.35 Ring top nails are to be installed on all base sheet stripping in a 12" grid pattern with the first row being approximately 3" up off the roof.
- E1.8.36 Set the base flanges of the Thaler Stackjacks in a bed of mastic. Seal in with a single ply of torch applied base sheet membrane. Seal the connection of the flashing to the cap sheet membrane with Soprema Alsans.
- E1.8.37 The height of the existing overflow scuppers is to be adjusted as required to accommodate the new roofing. The new scuppers are to be no more than 1/2" above the top of the new roofing. Install new overflow scuppers wherever indicated or required.
- E1.8.38 Torch adhere the cap sheet to the base sheet once again ensuring no wrinkles are present and that a minimum of 1\8" asphalt flow is present along the edges of all laps. Excessive seepage is not acceptable.
- E1.8.39 All base sheet and cap sheet rolls are to be relaxed a minimum of 4 hours prior to installation. This will help to greatly reduce any buckling in the membrane.
- E1.8.40 Torch apply the Cap sheet stripping in strict accordance to the manufacturers guidelines. The stripping shall be carried to the outside face of the parapets and 12" up adjoining walls.
- E1.8.41 Install the new siding band complete with Tyvek underlayment on east wall. Siding is to incorporate a new bottom drip flashing and is to extend to the same bottom elevation as the existing cementitious panels of which are to be removed and discarded. Panels may have asbestos. Tyvek is to lap over vertical leg of drip flashing. Tape all joints
- E1.8.42 Install Tyvek and sheet metal fascia on remaining walls.

- E1.8.43 Install the new cap flashing on all parapets and divider in a manner as the enclosed details.
- E1.8.44 Reinstall all roof top units. Extend all duct work, gas lines, and electrical as required to allow proper installation.
- E1.8.45 Replace any wood gas line sleepers or any sleepers sitting on foam insulation with new gas line sleepers and space in strict accordance to the local gas utility requirements. Threaded rod support extensions are to be used where required.
- E1.8.46 Paint all gas lines in a manner and with materials as acceptable to the local gas utility.
- E1.8.47 Install all new 26 gauge galvanized skirt flashing and storm collars on all chimneys. The skirt flashing flange is to fold a minimum of 1" down the outside face of the curbs. The connection between the skirt and base flanges are to be lock seamed. Extend chimneys as required to accommodate the height of the new roofing.
- E1.8.48 Any curbs with interior ducting are to be filled with spray foam insulation to obtain an air tight seal.
- E1.8.49 The existing north vent hood on area B2 is to be replaced with a new sheet metal hood. The hood is to face directly downwards with the opening being no less than 24" up off the roof. The hoods are to be fully insulated on the inside and incorporate appropriate bird screens. The hoods are to also incorporate an interior perimeter support angle to sit on the curb. The angles are to be fabricated from a minimum 24 gauge galvanized sheet metal and are to be set approximately 2" up from the bottom of the hood. Secure the angles to the hoods with pop rivets. Hoods are to be insulated on the interior with a minimum 1 1/2" thick insulation. Secure insulation in place with stick pins. Hoods are to be fabricated from minimum 24 gauge galvanized sheet metal.
- E1.8.50 The new curb for the large south hood on B2 is to be fabricated to eliminate the existing step flashing that extends outwards from the base of the hood. If it is unable to be eliminated then a 14 gauge 45 degree sloped flashing with welded corners can be used to support the hood.
- E1.8.51 All caulking must be properly tooled to a neat finish.
- E1.8.52 Install 4 – 2'x2' sidewalk pavers on 3/4" rubber matting in front of the roof hatch and in front of the ladder location..
- E1.8.53 Install the new specified safety railing system for the roof hatch opening.
- E1.8.54 Replace the existing wall mount ladder on A2 to lower roof area with new as detailed.
- E1.8.55 Install new termination flashing as detailed where required. Securely fasten with appropriate fasteners spaced no more than 24" on center.
- E1.8.56 Install new specified roof hatch.

## **E2. HAZARDOUS MATERIALS\**

- E2.1 If asbestos or other hazardous materials are encountered during the Work of the Contract, the Contractor shall stop all work and notify the Contract Administrator immediately. Removal of hazardous materials shall be dealt with by the City and the Contractor shall await further instruction by the Contract Administrator.