



**THE CITY OF WINNIPEG**

# **REQUEST FOR PROPOSAL**

**RFP NO. 449-2017**

**REQUEST FOR PROPOSAL FOR PROFESSIONAL CONSULTING SERVICES FOR  
BRIDGE DECK INVESTIGATIONS OF THE SLAW REBCHUK OVERPASS,  
PEMBINA HIGHWAY OVERPASS, AND ROUTE 20 TWIN OVERPASSES**

**Proposals shall be submitted to:**

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

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## **PART B - BIDDING PROCEDURES**

### **B1. CONTRACT TITLE**

B1.1 REQUEST FOR PROPOSAL FOR PROFESSIONAL CONSULTING SERVICES FOR BRIDGE DECK INVESTIGATIONS OF THE SLAW REBCHUK OVERPASS, PEMBINA HIGHWAY OVERPASS, AND ROUTE 20 TWIN OVERPASSES

### **B2. SUBMISSION DEADLINE**

B2.1 The Submission Deadline is 12:00 noon Winnipeg time, June 7, 2017.

B2.2 Proposals determined by the Manager of Materials to have been received later than the Submission Deadline will not be accepted and will be returned upon request.

B2.3 The Project Manager 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**

(a) Further to C3.1, the Bidder may view the Sites without making an appointment.

### **B4. ENQUIRIES**

B4.1 All enquiries shall be directed to the Project Manager identified in D2.

B4.2 If the Proponent finds errors, discrepancies or omissions in the Request for Proposal, or is unsure of the meaning or intent of any provision therein, the Proponent shall promptly notify the Project Manager of the error, discrepancy or omission at least five (5) Business Days prior to the Submission Deadline.

B4.3 If the Proponent is unsure of the meaning or intent of any provision therein, the Proponent should request clarification as to the meaning or intent prior to the Submission Deadline.

B4.4 Responses to enquiries which, in the sole judgment of the Project Manager, require a correction to or a clarification of the Request for Proposal will be provided by the Project Manager to all Proponents by issuing an addendum.

B4.5 Responses to enquiries which, in the sole judgment of the Project Manager, do not require a correction to or a clarification of the Request for Proposal will be provided by the Project Manager only to the Proponent who made the enquiry.

B4.6 All correspondence or contact by Proponents with the City in respect of this RFP must be directly and only with the City's Project Manager. Failure to restrict correspondence and contact to the Project Manager may result in the rejection of the Proponents Proposal Submission.

B4.7 The Proponent shall not be entitled to rely on any response or interpretation received pursuant to B4 unless that response or interpretation is provided by the Project Manager in writing.

### **B5. CONFIDENTIALITY**

B5.1 Information provided to a Proponent by the City or acquired by a Proponent 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 Project Manager. The use and disclosure of the Confidential Information shall not apply to information which:

- (a) was known to the Proponent before receipt hereof; or
- (b) becomes publicly known other than through the Proponent; or
- (c) is disclosed pursuant to the requirements of a governmental authority or judicial order.

B5.2 The Proponent shall not make any statement of fact or opinion regarding any aspect of the Request for Proposals to the media or any member of the public without the prior written authorization of the Project Manager.

## **B6. ADDENDA**

B6.1 The Project Manager may, at any time prior to the Submission Deadline, issue addenda correcting errors, discrepancies or omissions in the Request for Proposal, or clarifying the meaning or intent of any provision therein.

B6.2 The Project Manager will issue each addendum at least two (2) Business Days prior to the Submission Deadline, or provide at least two (2) Business Days by extending the Submission Deadline.

B6.2.1 Addenda will be available on the Bid Opportunities page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/bidopp.asp>

B6.2.2 The Proponent is responsible for ensuring that he/she has received all addenda and is advised to check the Materials Management Division website for addenda regularly and shortly before the Submission Deadline, as may be amended by addendum.

B6.3 The Proponent shall acknowledge receipt of each addendum in Paragraph 9 of Form A: Proposal. Failure to acknowledge receipt of an addendum may render a Proposal non-responsive.

## **B7. PROPOSAL SUBMISSION**

B7.1 The Proposal shall consist of the following components:

- (a) Form A: Proposal (Section A) in accordance with B8;
- (b) Fees (Section B) in accordance with B9.

B7.2 The Proposal should also consist of the following components:

- (a) Experience of Proponent and Subconsultants (Section C) in accordance with B10;
- (b) Experience of Key Personnel Assigned to the Project (Section D), in accordance with B11;
- (c) Project Understanding and Methodology (Section E) in accordance with B12; and
- (d) Project Schedule (Section F) in accordance with B13.

B7.3 Further to B7.1 all components of the Proposal shall be fully completed or provided in the order indicated, and submitted by the Proponent no later than the Submission Deadline, with all required entries made clearly and completely, to constitute a responsive Proposal.

B7.4 Further to B7.2, all components of the Proposal should be fully completed or provided in the order indicated, and submitted by the Proponent no later than the Submission Deadline, with all required entries made clearly and completely, to constitute a responsive Proposal.

B7.5 Proponents should submit one (1) unbound 8.5" x 11" original (marked "original") including tables, charts, drawing and schedule, and four (4) bound 8.5" x 11" copies (tables, charts, drawings and schedule in copies only may fold out to be 11" high) for sections identified in B7.1 and B7.2.

B7.6 Proposal format, including type of binding, size of pages and, font, etc., will not be regulated, except that the number of pages is limited to twenty five (25) and the Proposal should contain a table of contents, page numbering and should be in the Sections identified above. Proponents are encouraged to use their creativity to submit a Proposal which provides the requested information for evaluation and other information which illustrates the strength of their team.

- B7.7 Proponents are advised that inclusion of terms and conditions inconsistent with the Request for Proposal, will be evaluated in accordance with B21.1(a).
- B7.8 The Proposal shall be submitted enclosed and sealed in an envelope/package clearly marked with the RFP number and the Proponent's name and address.
- B7.9 Proposals submitted by facsimile transmission (fax) or internet electronic mail (e-mail) will not be accepted.
- B7.10 Proposals shall be submitted to:  
The City of Winnipeg  
Corporate Finance Department  
Materials Management Division  
185 King Street, Main Floor  
Winnipeg MB R3B 1J1
- B7.11 Any cost or expense incurred by the Proponent that is associated with the preparation of the Proposal shall be borne solely by the Proponent.

**B8. PROPOSAL (SECTION A)**

- B8.1 The Proponent shall complete Form A: Proposal, making all required entries.
- B8.2 Paragraph 2 of Form A: Proposal shall be completed in accordance with the following requirements:
- (a) if the Proponent is a sole proprietor carrying on business in his/her own name, his/her name shall be inserted;
  - (b) if the Proponent is a partnership, the full name of the partnership shall be inserted;
  - (c) if the Proponent is a corporation, the full name of the corporation shall be inserted;
  - (d) if the Proponent 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.
- B8.2.1 If a Proposal 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: Proposal, the Proponent shall identify a contact person who is authorized to represent the Proponent for purposes of the Proposal.
- B8.4 Paragraph 11 of Form A: Proposal shall be signed in accordance with the following requirements:
- (a) if the Proponent is a sole proprietor carrying on business in his/her own name, it shall be signed by the Proponent;
  - (b) if the Proponent is a partnership, it shall be signed by the partner or partners who have authority to sign for the partnership;
  - (c) if the Proponent is a corporation, it shall be signed by its duly authorized officer or officers and the corporate seal, if the corporation has one, should be affixed;
  - (d) if the Proponent 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.
- B8.4.1 The name and official capacity of all individuals signing Form A: Proposal should be printed below such signatures.
- B8.5 If a Proposal is submitted jointly by two or more persons, the word "Proponent" shall mean each and all such persons, and the undertakings, covenants and obligations of such joint Proponents in the Proposal and the Contract, when awarded, shall be both joint and several.

## **B9. FEES (SECTION B)**

- B9.1 The Proposal shall include a Fixed Fee for all disciplines and/or phases identified in D3 Scope of Services.
- B9.2 Adjustments to Fees will only be considered based on increases to the Scope of Services.
- B9.2.1 The City will not consider an adjustment to the Fees based on changes in the Project budget or the Final Total Cost.
- B9.3 Notwithstanding C1.1(b), Fees shall include costs for out of town travel, related meals and accommodations for the duration of the Project and shall not be considered an Allowable Disbursement.
- B9.4 The Fee Proposal shall also include an allowance for Allowable Disbursements as defined in C1.1(b). An allowance of up to 8% may be made for overhead expenses. The amount for each disbursement shall be shown on Form P: Person hours as Type 1 Disbursement.
- B9.5 Further to B9.4, the Fee Proposal shall also include disbursement costs for all external testing, traffic control, etc. An allowance of up to 5% may be made for handling charges. The amount for each disbursement shall be shown on Form P: Person hours as Type 2 Disbursement.
- B9.6 Notwithstanding C11.1, Fees submitted shall not include the Goods and Services Tax (GST) or Manitoba Retail Sales Tax (MRST, also known as PST), which shall be extra where applicable.
- B9.7 Payments to Non-Resident Consultants are subject to Non-Resident Withholding Tax pursuant to the Income Tax Act (Canada).

## **B10. EXPERIENCE OF PROPONENT AND SUBCONSULTANTS (SECTION C)**

- B10.1 Details demonstrating the history and experience of the Proponent and Subconsultants in applicable professional consultant services as required in D3.1 defined in Appendix A for up to three projects of similar scope and complexity and/or similar size and complexity. For each project listed the Proponent should submit: a description of the project; role of the consultant; the project's final cost; the year the project was completed; the project owner; and reference information (one current name with telephone number per project).
- B10.1.1 Where applicable, information should be separated into Proponent and Subconsultant project listings.
- B10.2 The Proposal should include general firm profile information, including years in business, average volume of work, number of employees and other pertinent information for the Proponent and all Subconsultants.

## **B11. EXPERIENCE OF KEY PERSONNEL ASSIGNED TO THE PROJECT (SECTION D)**

- B11.1 Describe your approach to overall team formation and coordination of team members. Include an organizational chart for the Project.
- B11.2 Submit the experience and qualifications of the Key Personnel assigned to the Project for projects of similar complexity, scope and value, including the principals-in-charge, the Consultants Representative, managers of the key disciplines and lead designers. Include educational background and degrees, professional recognition, job title, years of experience in current position, years of experience in design and construction, and years of experience with existing employer. Roles of each of the Key Personnel in the Project should be identified in the organizational chart referred to in B11.1. For each person identified, list at least two comparable projects in which they have played a primary role. If a project selected for a key person is included in B10, provide only the project name and the role of the key person. For other projects provide the description of project; the role of the person; the project owner; and reference information (one current name with telephone number per project).

B11.3 Further to B11.2 the level of effort of the Key Personnel presented in the Table required in B12.3 will be considered in evaluating the experience and qualifications.

## **B12. PROJECT UNDERSTANDING AND METHODOLOGY (SECTION E)**

B12.1 Describe your firm's project management approach and team organization during the performance of Services, so that the evaluation committee has a clear understanding of the methods the Proponent will use in the delivery of this Project.

B12.2 Proposals should address the team's understanding of the broad functional and technical requirements; the City's Project methodology with respect to the information provided within this RFP; and any other issue that conveys your team's understanding of the Project requirements.

B12.3 Methodology should be presented in accordance with the Scope of Services identified in D3. The Proposal should include Form P: Person hours for all Phases of the assignment including the hourly rate and estimated time for each individual and each task. The table shall also include the cost of all applicable disbursements and any associated mark-ups. Subtotals shall be provided summarizing the costs for each individual, each task, and each Phase of the assignment. The total Fees on Form P: Person Hour should match Fees submitted in response to B9.

## **B13. PROJECT SCHEDULE (SECTION F)**

B13.1 Proponents should present a carefully considered Critical Path Method schedule using Microsoft Project or similar project management software, complete with resource assignments (key designers), durations (weekly timescale) and milestone dates or events. The schedule should address each requirement of the Scope of Services. The Proponent's schedule should include critical dates for review and approval processes by the City and other organizations anticipated during the design and tendering phases of the Project. Reasonable times should be allowed for completion of these processes.

## **B14. DISCLOSURE**

B14.1 Various Persons provided information or services with respect to this Work. In the City's opinion, this relationship or association does not create a conflict of interest because of this full disclosure. Where applicable, additional material available as a result of contact with these Persons is listed below.

B14.2 The Persons are:

- (a) N/A.

## **B15. QUALIFICATION**

B15.1 The Proponent 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, or if the Proponent does not carry on business in Manitoba, in the jurisdiction where the Proponent does carry on business; and
- (b) be financially capable of carrying out the terms of the Contract;
- (c) have all the necessary experience, capital, organization, and equipment to perform the Services in strict accordance with the terms and provisions of the Contract;
- (d) have or establish and staff an office in Winnipeg for the duration of the Project.

B15.2 The Proponent and any proposed Subconsultant (for the portion of the Services 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 <http://www.winnipeg.ca/matmgt/debar.stm>

B15.3 The Proponent and/or any proposed Subconsultant (for the portion of the Services proposed to be subcontracted to them) shall:

- (a) have successfully carried out services for the programming; design, management of construction and contract administration for architectural and/or engineering projects of similar complexity, scope and value; and to those required for this Project; and
- (b) be fully capable of performing the Services required to be in strict accordance with the terms and provisions of the Contract; and
- (c) have a written workplace safety and health program, if required, pursuant to The Workplace Safety and Health Act (Manitoba);
- (d) have the knowledge and resources to administer the requirements of The Workplace Safety and Health Act (Manitoba) during the construction works associated with this Contract; and
- (e) undertake to meet all licensing and regulatory requirements of the appropriate governing authorities and associations in the Province of Manitoba.

B15.4 The Proponent shall submit, within three (3) Business Days of a request by the Project Manager, further proof satisfactory to the Project Manager of the qualifications of the Proponent and of any proposed Subconsultant.

B15.5 The Proponent shall provide, on the request of the Project Manager, full access to any of the Proponent's equipment and facilities to confirm, to the Project Manager's satisfaction, that the Proponent's equipment and facilities are adequate to perform the Services.

## **B16. OPENING OF PROPOSALS AND RELEASE OF INFORMATION**

B16.1 Proposals will not be opened publicly.

B16.2 After award of Contract, the names of the Proponents and the Contract amount of the successful Proponent will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/>

B16.3 To the extent permitted, the City shall treat all Proposal Submissions as confidential, however the Proponent is advised any information contained in any Proposal Submission may be released if required by The Freedom of Information and Protection of Privacy Act (Manitoba), by other authorities having jurisdiction, or by law or by City policy or procedures (which may include access by members of City Council).

B16.4 Following the award of Contract, a Proponent will be provided with information related to the evaluation of his/her submission upon written request to the Project Manager.

## **B17. IRREVOCABLE OFFER**

B17.1 The Proposal(s) submitted by the Proponent shall be irrevocable for the time period specified in Paragraph 10 of Form A: Proposal.

B17.2 The acceptance by the City of any Proposal shall not release the Proposals of the other responsive Proponents and these Proponents shall be bound by their offers on such Work until a Contract for the Work has been duly executed and the performance security furnished as herein provided, but any offer shall be deemed to have lapsed unless accepted within the time period specified in Paragraph 10 of Form A: Proposal.



## **B18. WITHDRAWAL OF OFFERS**

- B18.1 A Proponent may withdraw his/her Proposal without penalty by giving written notice to the Manager of Materials at any time prior to the Submission Deadline.
- B18.1.1 The time and date of receipt of any notice withdrawing a Proposal shall be the time and date of receipt as determined by the Manager of Materials.
- B18.1.2 The City will assume that any one of the contact persons named in Paragraph 3 of Form A: Proposal or the Proponent's authorized representatives named in Paragraph 11 of Form A: Proposal, and only such person, has authority to give notice of withdrawal.
- B18.1.3 If a Proponent gives notice of withdrawal prior to the Submission Deadline, the Manager of Materials will:
- (a) retain the Proposal until after the Submission Deadline has elapsed;
  - (b) open the Proposal to identify the contact person named in Paragraph 3 of Form A: Proposal and the Proponent's authorized representatives named in Paragraph 11 of Form A: Proposal; and
  - (c) if the notice has been given by any one of the persons specified in B18.1.3(b), declare the Proposal withdrawn.
- B18.2 A Proponent who withdraws its Proposal after the Submission Deadline but before its offer has been released or has lapsed as provided for in B17.2 shall be liable for such damages as are imposed upon the Proponent 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.

## **B19. INTERVIEWS**

- B19.1 The Project Manager may, in his/her sole discretion, interview Proponents during the evaluation process.

## **B20. NEGOTIATIONS**

- B20.1 The City reserves the right to negotiate details of the Contract with any Proponent. Proponents are advised to present their best offer, not a starting point for negotiations in their Proposal Submission.
- B20.2 The City may negotiate with the Proponents submitting, in the City's opinion, the most advantageous Proposals. The City may enter into negotiations with one or more Proponents without being obligated to offer the same opportunity to any other Proponents. Negotiations may be concurrent and will involve each Proponent individually. The City shall incur no liability to any Proponent as a result of such negotiations.
- B20.3 If, in the course of negotiations pursuant to B20.2 or otherwise, the Proponent amends or modifies a Proposal after the Submission Deadline, the City may consider the amended Proposal as an alternative to the Proposal already submitted without releasing the Proponent from the Proposal as originally submitted.

## **B21. EVALUATION OF PROPOSALS**

- B21.1 Award of the Contract shall be based on the following evaluation criteria:
- (a) compliance by the Proponent with the requirements of the Request for Proposal or acceptable deviation therefrom: (pass/fail)
  - (b) qualifications of the Proponent and the Subconsultants, if any, pursuant to B15: (pass/fail)
  - (c) Fees; (Section B) 40%

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|--|-----|
| (d) Experience of Proponent and Subconsultant; (Section C)           | 20% |
| (e) Experience of Key Personnel Assigned to the Project; (Section D) | 10% |
| (f) Project Understanding and Methodology (Section E)                | 25% |
| (g) Project Schedule. (Section F)                                    | 5%  |

- B21.2 Further to B21.1(a), the Award Authority may reject a Proposal as being non-responsive if the Proposal Submission is incomplete, obscure or conditional, or contains additions, deletions, alterations or other irregularities. The Award Authority may reject all or any part of any Proposal, or waive technical requirements or minor informalities or irregularities if the interests of the City so require.
- B21.3 Further to B21.1(b), the Award Authority shall reject any Proposal submitted by a Proponent who does not demonstrate, in its Proposal or in other information required to be submitted, that it is responsible and qualified.
- B21.4 Further to B21.1(c), Fees will be evaluated based on Fees submitted in accordance with B9.
- B21.5 Further to B21.1(d), Experience of Proponent and Subconsultants will be evaluated considering the experience of the organization on projects of similar size and complexity as well as other information requested, in accordance with B10.
- B21.6 Further to B21.1(e), Experience of Key Personnel Assigned to the Project will be evaluated considering the experience and qualifications of the Key Personnel and Subconsultant personnel on Projects of comparable size and complexity, in accordance with B11
- B21.7 Further to B21.1(f), Project Understanding and Methodology will be evaluated considering your firm's understanding of the City's Project, project management approach and team organization, in accordance with B12.
- B21.8 Further to B21.1(g), Project Schedule will be evaluated considering the Proponent's ability to comply with the requirements of the Project, in accordance with B13.
- B21.9 Notwithstanding B21.1(d) to B21.1(g), where Proponents fail to provide a response to B7.2(a) to B7.2(d), the score of zero may be assigned to the incomplete part of the response.
- B21.10 Proposals will be evaluated considering the information in the Proposal Submission and any interviews held in accordance with B19.

## **B22. AWARD OF CONTRACT**

- B22.1 The City will give notice of the award of the Contract, or will give notice that no award will be made.
- B22.2 The City will have no obligation to award a Contract to a Proponent, even though one or all of the Proponents are determined to be responsible and qualified, and the Proposals are determined to be responsive.
- B22.2.1 Without limiting the generality of B22.2, the City will have no obligation to award a Contract where:
- (a) the prices exceed the available City funds for the Services;
  - (b) the prices are materially in excess of the prices received for similar services in the past;
  - (c) the prices are materially in excess of the City's cost to perform the Services, or a significant portion thereof, with its own forces;
  - (d) only one Proposal 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.

- B22.3 Where an award of Contract is made by the City, the award shall be made to the responsible and qualified Proponent submitting the most advantageous offer.
- B22.4 The City may, at its discretion, award the Contract in phases.
- B22.5 Notwithstanding Paragraph 6 of Form A: Proposal and C4, the City will issue a Letter of Intent to the successful Proponent in lieu of execution of a Contract.
- B22.5.1 The Contract documents as defined in C1.1(o)(ii) in their entirety shall be deemed to be incorporated in and to form a part of the Letter of Intent notwithstanding that they are not necessarily attached to or accompany said Letter of Intent.
- B22.6 The form of Contract with the City of Winnipeg will be based on the Contract as defined in C1.1(o).
- B22.7 Following the award of Contract, a Proponent will be provided with information related to the evaluation of its Proposal upon written request to the Project Manager.
- B22.8 If, after the award of Contract, the Project is cancelled, the City reserves the right to terminate the Contract. The Consultant will be paid for all Services rendered up to time of termination.

## **PART C - GENERAL CONDITIONS**

### **C0. GENERAL CONDITIONS**

- C0.1 The *General Conditions for Consultant Services* (Revision 2017-03-17) are applicable to the Services of the Contract.
- C0.1.1 The *General Conditions for Consultant Services* 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 Request for Proposal to a section, clause or subclause with the prefix “**C**” designates a section, clause or subclause in the *General Conditions for Consultant Services*.

## PART D - SUPPLEMENTAL CONDITIONS

### GENERAL

#### D1. GENERAL CONDITIONS

D1.1 In addition to the *General Conditions for Consultant Services*, these Supplemental Conditions are applicable to the Services of the Contract.

#### D2. PROJECT MANAGER

D2.1 The Project Manager is:

Mohamed Mady, Ph.D., P.Eng.

Bridge Maintenance Engineer, Public Works, City of Winnipeg

Telephone No. 204 986-4046

Email Address: [mmady@winnipeg.ca](mailto:mmady@winnipeg.ca)

D2.2 At the pre-commencement meeting, the Project Manager will identify additional personnel representing the Project Manager and their respective roles and responsibilities for the Services.

D2.3 Proposal Submissions must be submitted to the address in B7.

#### D3. SCOPE OF SERVICES

D3.1 The Services required under this Contract shall consist of the deck investigations including assessment of maintenance and rehabilitation options, as outlined in D5, for each of the following structures:

- (a) Slaw Rebchuk Overpass (Salter Street Bridge) over Canadian Pacific Railway CPR Logan Yard – B115
- (b) Pembina Highway Overpass over Bishop Grandin Boulevard – B215
- (c) Route 20 Twin Overpasses (Concordia Avenue Overpasses) over Canadian Pacific Railway CPR Keewatin Line – B123

#### D4. BACKGROUND

D4.1 Slaw Rebchuk Bridge (Salter Street Bridge) over CPR Logan Yard – B115:

D4.1.1 The existing Salter St. Bridge over CPR is a 10 span (20.00 / 2x 32.00 / 2x 25.49 / 30.60 / 28.67 / 32.00 / 36.00 / 32.00 m) 294.25 m long concrete bridge supported by concrete abutments and piers. All piers are founded on concrete caissons and concrete pier shafts, while the abutments are founded on steel pipe pile foundations. The bridge was constructed in 1984 and is only 33 years old.

D4.1.2 The bridge width is 23.18 m and provides a total of 4 lanes of traffic with shy distances (2 lanes in each direction) separated with a concrete median traffic barrier, along with two 1.53 m wide sidewalks (1 in each direction) protected by aluminum traffic barrier rails supported on concrete shoulder traffic barriers. The roadway widths are 9.01 m in both NB and SB directions.

D4.1.3 The superstructure composed of 10 rows of precast prestressed concrete I-girders, spread at 2.32 m O.C. supporting a composite concrete bridge deck. The bridge deck consists of a 200 mm concrete slab reinforced with epoxy coated bars, with an additional 75 mm high density concrete topping. 9.50 m long approach slabs are present at the bridge at each end.

- D4.1.4 Non-skid polymer wearing surface was applied on the bridge deck in 2002. The bridge deck surface is in poor-to-average condition with numerous spots of epoxy peeling, map cracking and scaling.
- D4.1.5 There has been only routine maintenance of the structure over the course of its life. An investigation is required to document the condition of the bridge deck and to investigate bridge management options to best extend bridge service life for 50 years.
- D4.2 Pembina Highway Overpass over Bishop Grandin Boulevard – B215:
- D4.2.1 The existing Pembina Hwy. overpass over Bishop Grandin Blvd. is a 4 span (20.00 / 25.00 / 22.80 / 19.00 m) 86.80 m long skewed concrete bridge supported by concrete abutments and piers. All piers and abutments are founded on precast prestressed concrete pile foundations. The bridge was constructed in 1990 and is only 27 years old.
- D4.2.2 The bridge width is approximately 47.00 m and provides a total of 10 lanes of traffic with shy distances (4 and 6 lanes in NB and SB directions, respectively) separated with a 4.0 m wide concrete median curb, along with two 1.53 m wide sidewalks (1 in each direction) protected by aluminum traffic barrier rails supported on concrete shoulder traffic barriers. The roadway widths are approximately 15.50 and 23.00 m in NB and SB directions.
- D4.2.3 The superstructure composed of a cast-in-place concrete multi-cell box deck (total of 19 cells) reinforced with epoxy coated bars, with 140 mm thick high density concrete top slab. No protective wearing surface is present on the bridge deck, except the epoxy polymer layer on the sidewalks. 9.00 m long approach slabs are present at the bridge at each end.
- D4.2.4 In addition to the routine maintenance for the structure over the course of its life, an extensive maintenance program was completed in 2014 to repair the delaminated concrete areas on the deck and median curb. After a chain drag test was completed, all delaminated areas were removed up to a total thickness of 100 mm and patched with standard concrete mix. An investigation is required to document the condition of the bridge deck and to investigate bridge management options to best extend bridge service life for 50 years.
- D4.3 Route 20 Twin Overpasses (Concordia Avenue Overpasses) over CPR Keewatin Line – B123:
- D4.3.1 The existing Concordia Ave. Overpasses over CPR consist of two separated structures in the Northbound and Southbound directions. Each structure is a 5 simple-span (24.08 / 3x 24.38 / 24.08 m) 122.28 m long skewed concrete bridge supported by concrete abutments and piers. All piers and abutments are founded on precast-prestressed concrete pile foundations. The bridge was originally constructed in 1967 and is 50 years old.
- D4.3.2 Each bridge width is approximately 9.95 m and provides a total of 2 lanes of traffic with shy distances, along with concrete traffic barriers. No sidewalks present on the bridges. The roadway widths are 4.45 m in both NB and SB directions.
- D4.3.3 Each bridge superstructure composed of 5 rows of precast prestressed concrete I-girders, spread at 1.98 m O.C. supporting a composite concrete bridge deck. In 1978, the top concrete layer to the top reinforcing mat was removed and the deck was resurfaced with high density concrete topping. Later in 1987, localized areas of the deck overlay were removed and replaced with high density concrete as well as entire replacement of the existing concrete deck overhang. The current total deck thickness is 230 mm reinforced with black steel bars. 6.42 m long approach slabs are present at the bridges at each end.
- D4.3.4 Flexible Epoxy-Aggregate wearing surface was applied on the bridge decks in 1993, and has been partially fixed in 2008. The bridge deck surfaces are in poor condition with numerous spots of epoxy peeling and throughout cracks.
- D4.3.5 There has been only routine maintenance of the structure over the last 30 years. An investigation is required to document the condition of the bridge deck and to investigate bridge management options to best extend bridge service life for 50 years.
- D4.4 The projected funding for undertaking this assignment is approximately \$180,000 plus applicable taxes.

## D5. DECK INVESTIGATIONS

- D5.1 The deck investigation for each site shall be generally consistent with Type 1 and Type 2 services as outlined in Appendix A and shall include but not be limited to:
- (a) Review existing record drawings, reports, and other information that will be provided by the City to establish relevant information. This information will be provided during the RFP period upon email request to the Project Manager.
  - (b) Condition assessment (in general compliance with the protocols of the Ontario Structure Rehabilitation Manual, 2007 Edition) including:
    - (i) OSIM-type inspection of the bridge deck (top surface and underside), sidewalk (top surface and underside), approach slab, expansion joint, and traffic barriers. The City's under bridge crane will be available to the Consultant for 1 day per Site, associated traffic control for the lane closures will be provided by the City.
    - (ii) Deck delamination survey.
    - (iii) Deck cracks mapping survey.
    - (iv) Deck reinforcing covers survey.
    - (v) Deck corrosion potential survey, as feasibly possible.
    - (vi) Coring of the bridge deck and barriers; and compressive strength, hardened air void analysis, petrographic analysis, permeability testing, and chloride content testing.
    - (vii) Other assessment/tests that are recommended by the Consultant.
  - (c) Report on what immediate maintenance work, if any, should be undertaken.
  - (d) Provision of an interim report outlining findings and proposing what short term maintenance and rehabilitation options will be developed. Meetings with the City Project Manager and City Technical Steering Committee members are required to present findings and sequentially gain acceptance prior to progressing onto the next step in the investigation.
  - (e) Generation of 2 or 3 options which may include, but not limited to:
    - (i) Do nothing.
    - (ii) Scarification/cleaning of the bridge deck and overlay with 40 to 70 mm of asphalt with or without a waterproofing membrane to defer rehabilitation for approximately 10 years.
    - (iii) Scarification/hydro-demolition to the existing top mat of rebar, and the addition of a 50 mm high performance concrete overlay.
    - (iv) Full deck rehabilitation with or without removal of the top layer of reinforcing steel and contaminated concrete, traffic barriers, and replacement with a new lower lift and high performance concrete wearing surface.
  - (f) Detailed construction and life cycle cost estimates for each option.
  - (g) Meetings with the City Project Manager and City Technical Steering Committee members are required to review the evaluation of proposed options.
  - (h) Submission of a draft report with recommendations on how to proceed for every bridge.
  - (i) Submission of three (3) hard copies and a PDF of the final report.
- D5.2 The consultant shall submit a written Monthly Status Report to the City's project manager. The status reports shall include:
- (a) Progress on tasks since previous report;
  - (b) Planned accomplishments for the next period;
  - (c) Project schedule update;
  - (d) Project budget update;
  - (e) List concerns, potential problems, risks, etc., for the project.

## **SUBMISSIONS PRIOR TO START OF SERVICES**

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

D6.1 The Consultant 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 Consultant does not carry on business in Manitoba, in the jurisdiction where the Consultant does carry on business, throughout the term of the Contract, and shall provide the Project Manager with evidence thereof upon request.

### **D7. INSURANCE**

D7.1 The Consultant shall procure and maintain, at its own expense and cost, insurance policies with limits no less than those shown below.

D7.2 As a minimum, the Consultant shall, without limiting its obligations or liabilities under any other contract with the City, procure and maintain, at its own expense and cost, the following insurance policies:

- (a) Comprehensive or Commercial General Liability Insurance including:
  - (i) an inclusive limit of not less than \$2,000,000 for each occurrence or accident with a minimum \$2,000,000 Products and Completed Operations aggregate and \$5,000,000 general aggregate;
  - (ii) all sums which the Consultant shall become legally obligated to pay for damages because of bodily injury (including death at any time resulting therefrom) sustained by any person or persons or because of damage to or destruction of property caused by an occurrence or accident arising out of or related to the Services or any operations carried on in connection with this Contract;
  - (iii) coverage for Products/Completed Operations, Blanket Contractual, Consultant's Protective, Personal Injury, Contingent Employer's Liability, Broad Form Property Damage, Employees as Additional Insureds, and Non-Owned Automobile Liability;
  - (iv) a Cross Liability clause and/or Severability of Interest clause providing that the inclusion of more than one Insured shall not in any way affect the rights of any other Insured hereunder in respect to any claim, demand, suit or judgment made against any other Insured;
- (b) if applicable, Automobile Liability Insurance covering all motor vehicles, owned and operated and used or to be used by the Consultant directly or indirectly in the performance of the Service. 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) Professional Errors and Omissions Liability Insurance including:
  - (i) an amount not less than \$1,000,000 per claim and \$2,000,000 in the aggregate.

D7.2.1 The Consultant's Professional Errors and Omissions Liability Insurance shall remain in force for the duration of the Project and for twelve (12) months after total performance.

D7.3 The policies required in D7.2(a) shall provide that the City is named as an Additional Insured thereunder and that said policies are primary without any right of contribution from any insurance otherwise maintained by the City.

D7.4 The Consultant shall require each of its Subconsultants to provide comparable insurance to that set forth under D7.2(a) and D7.2(c).

D7.5 The Consultant shall provide the Project Manager with a certificate(s) of insurance for itself and for all of its Subconsultants, in a form satisfactory to the City Solicitor, at least two (2) Business Days prior to the commencement of any Services, but in no event later than the date specified



in C4.1 for the return of the executed Contract. Such certificates shall state the exact description of the Services and provide for written notice in accordance with D7.8.

- D7.6 The Consultant may take out such additional insurance as it may consider necessary and desirable. All such additional insurance shall be at no expense to the City.
- D7.7 All insurance, which the Consultant is required to obtain with respect to this Contract, shall be with insurance companies registered in and licensed to underwrite such insurance in the Province of Manitoba.
- D7.8 The Consultant shall not cancel, materially alter, or cause any policy to lapse without providing at least thirty (30) Calendar Days prior written notice to the City.

#### **D8. SAFE WORK PLAN**

- D8.1 The Consultant cannot commence any Services until a Project-specific Safe-Work Plan(s) is verified as in place for the high-risk activities he may engage in. The format is available at <http://www.winnipeg.ca/matmgt/Safety/default.stm>

### **SCHEDULE OF SERVICES**

#### **D9. COMMENCEMENT**

- D9.1 The Consultant shall not commence any Services until it is in receipt of a notice of award from the City authorizing the commencement of the Services.
- D9.2 The Consultant shall not commence any Services until:
- (a) the Project Manager has confirmed receipt and approval of:
    - (i) evidence of authority to carry on business specified in D5;
    - (ii) evidence of the insurance specified in D7;
    - (iii) Safe Work Plan specified in D8
  - (b) the Consultant has attended a meeting with the Project Manager, or the Project Manager has waived the requirement for a meeting.
- D9.3 The City intends to award this Contract by July 10, 2017.

#### **D10. CRITICAL STAGES**

- D10.1 The Consultant shall achieve critical stages of the Services for this Contract in accordance with the following requirements:
- (a) Completion of all field work at all bridge sites by October 1, 2017.
  - (b) Submission of draft report for City review by November 15, 2017;
  - (c) Submission of final design report by January 15, 2018.