



**THE CITY OF WINNIPEG**

# **BID OPPORTUNITY**

**BID OPPORTUNITY NO. 625-2011**

**THE SUPPLY AND DELIVERY OF PEDESTRIAN PUSHBUTTONS FOR TRAFFIC  
SIGNALIZED INTERSECTIONS**

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## **PART B - BIDDING PROCEDURES**

### **B1. CONTRACT TITLE**

B1.1 THE SUPPLY AND DELIVERY OF PEDESTRIAN PUSHBUTTONS FOR TRAFFIC SIGNALIZED INTERSECTIONS

### **B2. SUBMISSION DEADLINE**

B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, August 9, 2011.

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

B2.3 The Contract Administrator or the Manager of Materials may extend the Submission Deadline by issuing an addendum at any time prior to the time and date specified in B2.1.

### **B3. ENQUIRIES**

B3.1 All enquiries shall be directed to the Contract Administrator identified in D4.1.

B3.2 If the Bidder finds errors, discrepancies or omissions in the Bid Opportunity, or is unsure of the meaning or intent of any provision therein, the Bidder shall promptly notify the Contract Administrator of the error, discrepancy or omission at least five (5) Business Days prior to the Submission Deadline.

B3.3 If the Bidder is unsure of the meaning or intent of any provision therein, the Bidder should request clarification as to the meaning or intent prior to the Submission Deadline.

B3.4 Responses to enquiries which, in the sole judgment of the Contract Administrator, require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator to all Bidders by issuing an addendum.

B3.5 Responses to enquiries which, in the sole judgment of the Contract Administrator, do not require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator only to the Bidder who made the enquiry.

B3.6 The Bidder shall not be entitled to rely on any response or interpretation received pursuant to B3 unless that response or interpretation is provided by the Contract Administrator in writing.

### **B4. ADDENDA**

B4.1 The Contract Administrator may, at any time prior to the Submission deadline, issue addenda correcting errors, discrepancies or omissions in the Bid Opportunity, or clarifying the meaning or intent of any provision therein.

B4.2 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.

B4.2.1 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>

B4.2.2 The Bidder is responsible for ensuring that he 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.

B4.3 The Bidder shall acknowledge receipt of each addendum in Paragraph 8 of Form A: Bid. Failure to acknowledge receipt of an addendum may render a Bid non-responsive.

## **B5. SUBSTITUTES**

- B5.1 The Work is based on the materials, equipment, methods and products specified in the Bid Opportunity.
- B5.2 Substitutions shall not be allowed unless application has been made to and prior approval has been granted by the Contract Administrator in writing.
- B5.3 Requests for approval of a substitute will not be considered unless received in writing by the Contract Administrator at least seven (7) Business Days prior to the Submission Deadline.
- B5.4 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 material, equipment, method or product as either an approved equal or alternative;
  - (b) identify any and all changes required in the applicable Work, and all changes to any other Work, which would become necessary to accommodate the substitute;
  - (c) identify any anticipated cost or time savings that may be associated with the substitute;
  - (d) certify that, in the case of a request for approval as an approved equal, the substitute will fully perform the functions called for by the general design, be of equal or superior substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the Contract;
  - (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 Contract.
- B5.5 The Contract Administrator, after assessing the request for approval of a substitute, may in his sole discretion grant approval for the use of a substitute as an “approved equal” or as an “approved alternative”, or may refuse to grant approval of the substitute.
- B5.6 The Contract Administrator will provide a response in writing, at least two (2) Business Days prior to the Submission Deadline, only to the Bidder who requested approval of the substitute.
- B5.6.1 The Bidder requesting and obtaining the approval of a substitute shall be entirely responsible for disseminating information regarding the approval to any person or persons he wishes to inform.
- B5.7 If the Contract Administrator approves a substitute as an “approved equal”, any Bidder may use the approved equal in place of the specified item.
- B5.8 If the Contract Administrator approves a substitute as an “approved alternative”, any Bidder bidding that approved alternative may base his Total Bid Price upon the specified item but may also indicate an alternative price based upon the approved alternative. Such alternatives will be evaluated in accordance with B14.
- B5.9 No later claim by the Contractor for an addition to the price(s) because of any other changes in the Work necessitated by the use of an approved equal or an approved alternative will be considered.
- B5.10 Notwithstanding B5.2 to B5.9, and in accordance with B6.7, deviations inconsistent with the Bid Opportunity document shall be evaluated in accordance with B14.1(a).

## **B6. BID SUBMISSION**

- B6.1 The Bid shall consist of the following components:

- (a) Form A: Bid;
  - (b) Form B: Prices.
- B6.2 Further to B6.1, the Bidder should include the written correspondence from the Contract Administrator approving a substitute in accordance with B5.
- B6.3 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, to constitute a responsive Bid.
- B6.4 The Bid Submission may be submitted by mail, courier or personal delivery, or by facsimile transmission.
- B6.5 If the Bid Submission is submitted by mail, courier or personal delivery, it shall be enclosed and sealed in an envelope clearly marked with the Bid Opportunity number and the Bidder's name and address, and shall be submitted to:
- The City of Winnipeg  
Corporate Finance Department  
Materials Management Division  
185 King Street, Main Floor  
Winnipeg MB R3B 1J1
- B6.5.1 Samples or other components of the Bid Submission which cannot reasonably be enclosed in the envelope may be packaged separately, but shall be clearly marked with the Bid Opportunity number, the Bidder's name and address, and an indication that the contents are part of the Bidder's Bid Submission.
- B6.6 Bidders are advised not to include any information/literature except as requested in accordance with B6.1.
- B6.7 Bidders are advised that inclusion of terms and conditions inconsistent with the Bid Opportunity document, including the General Conditions, will be evaluated in accordance with B14.1(a).
- B6.8 If the Bid Submission is submitted by facsimile transmission, it shall be submitted to (204) 949-1178.
- B6.8.1 The Bidder is advised that the City cannot take responsibility for the availability of the facsimile machine at any time.
- B6.9 Bids submitted by internet electronic mail (e-mail) will not be accepted.
- B7. BID**
- B7.1 The Bidder shall complete Form A: Bid, making all required entries.
- B7.2 Paragraph 2 of Form A: Bid shall be completed in accordance with the following requirements:
- (a) if the Bidder is a sole proprietor carrying on business in his own name, his name shall be inserted;
  - (b) if the Bidder is a partnership, the full name of the partnership shall be inserted;
  - (c) if the Bidder is a corporation, the full name of the corporation shall be inserted;
  - (d) if the Bidder is carrying on business under a name other than his own, the business name and the name of every partner or corporation who is the owner of such business name shall be inserted.
- B7.2.1 If a Bid is submitted jointly by two or more persons, each and all such persons shall identify themselves in accordance with B7.2.
- B7.3 In Paragraph 3 of Form A: Bid, the Bidder shall identify a contact person who is authorized to represent the Bidder for purposes of the Bid.

- B7.4 Paragraph 10 of Form A: Bid shall be signed in accordance with the following requirements:
- (a) if the Bidder is a sole proprietor carrying on business in his own name, it shall be signed by the Bidder;
  - (b) if the Bidder is a partnership, it shall be signed by the partner or partners who have authority to sign for the partnership;
  - (c) if the Bidder is a corporation, it shall be signed by its duly authorized officer or officers and the corporate seal, if the corporation has one, should be affixed;
  - (d) if the Bidder is carrying on business under a name other than his own, it shall be signed by the registered owner of the business name, or by the registered owner's authorized officials if the owner is a partnership or a corporation.

B7.4.1 The name and official capacity of all individuals signing Form A: Bid should be printed below such signatures.

B7.5 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.

## **B8. PRICES**

B8.1 The Bidder shall state a price in Canadian funds for each item of the Work identified on Form B: Prices.

B8.1.1 Prices on Form B: Prices shall include:

- (a) duty;
- (b) freight and cartage;
- (c) Provincial and Federal taxes [except the Goods and Services Tax (GST) and Manitoba Retail Sales Tax (MRST, also known as PST), which shall be extra where applicable] and all charges governmental or otherwise paid;
- (d) profit and all compensation which shall be due to the Contractor for the Work and all risks and contingencies connected therewith.

B8.2 The quantities listed on Form B: Prices are to be considered approximate only. The City will use said quantities for the purpose of comparing Bids.

B8.3 The quantities for which payment will be made to the Contractor are to be determined by the Work actually performed and completed by the Contractor, to be measured as specified in the applicable Specifications.

## **B9. QUALIFICATION**

B9.1 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, or if the Bidder does not carry on business in Manitoba, in the jurisdiction where the Bidder does carry on business; 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.

B9.2 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 <http://www.winnipeg.ca/matmgt/debar.stm>

- B9.3 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).
- B9.4 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.
- B9.5 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.

#### **B10. REPRESENTATIVE SAMPLE**

- B10.1 The Bidder shall submit, within ten (10) Business Days of a request by the Contract Administrator, a sample for detailed inspection and approval.
- B10.1.1 Unsolicited samples will be returned at Bidders expense.
- B10.2 Should the Bidder not submit sample(s) that meet the approval of the Contract Administrator, the bid may be determined to be non-responsive.
- B10.3 The sample(s) if required shall be fully assembled when sent to the Contract Administrator.
- B10.4 The Bidder shall be responsible for all freight costs associated with the delivery and return of sample(s).

#### **B11. OPENING OF BIDS AND RELEASE OF INFORMATION**

- B11.1 Bids will not be opened publicly.
- B11.2 Following the Submission Deadline, the names of the Bidders and their bid prices (unevaluated, and pending review and verification of conformance with requirements or evaluated prices) 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>
- B11.3 After award of Contract, the name(s) of the successful Bidder(s) and the Contract amount(s) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt>
- B11.4 The Bidder is advised that any information contained in any Bid may be released if required by City policy or procedures, by The Freedom of Information and Protection of Privacy Act (Manitoba), by other authorities having jurisdiction, or by law.

#### **B12. IRREVOCABLE BID**

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

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

### **B13. WITHDRAWAL OF BIDS**

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

B13.1.1 Notwithstanding C21, the time and date of receipt of any notice withdrawing a Bid shall be the time and date of receipt as determined by the Manager of Materials.

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

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

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

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

### **B14. EVALUATION OF BIDS**

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

- (a) compliance by the Bidder with the requirements of the Bid Opportunity, or acceptable deviation therefrom (pass/fail);
- (b) qualifications of the Bidder and the Subcontractors, if any, pursuant to B9 (pass/fail);
- (c) Total Bid Price;
- (d) economic analysis of any approved alternative pursuant to B5.

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

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

B14.4 Further to B14.1(c), the Total Bid Price shall be the sum of the quantities multiplied by the unit prices for each item shown on Form B: Prices.

B14.5 This Contract will be awarded as a whole.

### **B15. AWARD OF CONTRACT**

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



- B15.2 The City will have no obligation to award a Contract to a Bidder, even though one or all of the Bidders are determined to be responsible and qualified, and the Bids are determined to be responsive.
- B15.2.1 Without limiting the generality of B15.2, the City will have no obligation to award a Contract where:
- (a) the prices exceed the available City funds for the Work;
  - (b) the prices are materially in excess of the prices received for similar work in the past;
  - (c) the prices are materially in excess of the City's cost to perform the Work, or a significant portion thereof, with its own forces;
  - (d) only one Bid is received; or
  - (e) in the judgment of the Award Authority, the interests of the City would best be served by not awarding a Contract.
- B15.3 Where an award of Contract is made by the City, the award shall be made to the responsible and qualified Bidder submitting the lowest evaluated responsive Bid, in accordance with B14.
- B15.3.1 Following the award of contract, a Bidder will be provided with information related to the evaluation of his Bid upon written request to the Contract Administrator.
- B15.4 Notwithstanding C4 and Paragraph 6 of Form A:Bid, the City will issue a purchase order to the successful Bidder in lieu of the execution of a Contract.
- B15.5 The Contract Documents, as defined in C1.1(n)(ii), 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 the Supply of Goods* (Revision 2008 05 26) are applicable to the Work of the Contract.
- C0.1.1 The *General Conditions for the Supply of Goods* 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 Bid Opportunity to a section, clause or subclause with the prefix “**C**” designates a section, clause or subclause in the *General Conditions for Supply of Goods*.

## **PART D - SUPPLEMENTAL CONDITIONS**

### **GENERAL**

#### **D1. GENERAL CONDITIONS**

D1.1 In addition to the *General Conditions for the Supply of Goods*, 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 supply and delivery of pedestrian pushbuttons for traffic signalized intersections for the period from September 1, 2011 until August 31, 2012, with the option of three (3) mutually agreed upon one (1) year extensions.

D2.1.1 The City may negotiate the extension option with the Contractor within sixty (60) Calendar Days prior to the expiry date of the Contract. The City shall incur no liability to the Contractor as a result of such negotiations.

D2.1.2 Changes resulting from such negotiations shall become effective on September 1st of the respective year. Changes to the Contract shall not be implemented by the Contractor without written approval by the Contract Administrator.

D2.2 The Work shall be done on an "as required" basis during the term of the Contract.

D2.2.1 The type and quantity of Work to be performed under this Contract shall be as authorized from time to time by the Contract Administrator and/or Users.

D2.2.2 Notwithstanding C7, the City shall have no obligation under the Contract to purchase any quantity of any item in excess of its actual operational requirements.

#### **D3. DEFINITIONS**

D3.1 When used in this Bid Opportunity:

(a) "ADA Compliant" means the device performs in compliance with standards defined by the Americans with Disabilities Act.

#### **D4. CONTRACT ADMINISTRATOR**

D4.1 The Contract Administrator is:

Jonathan Foord, EIT  
Signals Asset Engineer  
821 Elgin Avenue  
Winnipeg, MB R3E 3R1  
Telephone No.: (204) 986-6619

#### **D5. NOTICES**

D5.1 Notwithstanding C21.3, all notices of appeal to the Chief Administrative Officer shall be sent to the attention of the Chief Financial Officer at the following facsimile number:

The City of Winnipeg  
Chief Financial Officer  
Facsimile No.: (204) 949-1174

## **D6. RETURNED GOODS**

- D6.1 Further to C.7 and C.11, The Contract Administrator or his/her designate shall inform the Contractor of the item(s) being returned and the reason for the return. The Contractor shall provide the Contract Administrator with Return Material Authorization (RMA) including shipping instructions, within five (5) Calendar Days of the request.
- D6.2 The Contractor shall be responsible for all transportation charges on returned goods and further to C.8 the goods will be held at the Contractor's risk pending instruction.
- D6.3 Further to E2.7.1(above) the RMA shall include the following information, as a minimum:
- (a) Company name, if different than Contractor, and ship to addresses;
  - (b) Written authorization for the return and for a collect shipment;
  - (c) Preference of carrier / shipping method, a contact person with either a local Winnipeg telephone number or a toll-free telephone number;
  - (d) A contact person, responsible for the returned goods, with a toll-free telephone number.
- D6.4 The Contract Administrator shall provide, as a minimum:
- (a) The City department returning the goods, including an address and contact information for pick up;
  - (b) The City account number; if applicable;
  - (c) The City of Winnipeg's Department and address;
  - (d) Two (2) copies of the written authorization / RMA, one (1) copy on the outside and (1) one within the package;
  - (e) Total number of packages, weight and dimensions.

## **SUBMISSIONS**

### **D7. AUTHORITY TO CARRY ON BUSINESS**

- D7.1 The Contractor shall be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, or if the Contractor does not carry on business in Manitoba, in the jurisdiction where the Contractor does carry on business, throughout the term of the Contract, and shall provide the Contract Administrator with evidence thereof upon request.

## **SCHEDULE OF WORK**

### **D8. COMMENCEMENT**

- D8.1 The Contractor shall not commence any Work until he is in receipt of a notice of award from the City authorizing the commencement of the Work.
- D8.2 The Contractor shall not commence any Work until:
- (a) the Contract Administrator has confirmed receipt and approval of:
    - (i) evidence of authority to carry on business specified in D7;
  - (b) the Contractor has supplied any requested samples to the Contract Administrator and the Contractor Administrator has provided written approval for the requested samples.
  - (c) A purchase order has been received from the City of Winnipeg Public Works Stores personnel noting quantity of material required.

## **D9. DELIVERY**

D9.1 Goods shall be delivered on an "as required" basis during the term of the Contract, f.o.b. destination, freight prepaid, to:

Public Works Stores  
1277 Pacific Avenue  
Winnipeg, MB

D9.1.1 Minimum individual order quantities are expected to be greater than thirty (30) units per order.

D9.1.2 Goods shall be delivered within thirty (30) Calendar Days of the placing of an order, unless otherwise allowed by the User at the time of ordering.

D9.2 Goods shall be delivered between 8:30 a.m. and 2:30 p.m. on Business Days.

D9.3 The Contractor shall off-load goods as directed at the delivery location.

## **D10. ORDERS**

D10.1 The Contractor shall provide a local Winnipeg telephone number or a toll-free telephone number at which orders for delivery may be placed.

## **D11. RECORDS**

D11.1 The Contractor shall keep detailed records of the goods supplied under the Contract.

D11.2 The Contractor shall record, as a minimum, for each item listed on Form B: Prices:

- (a) user name(s) and addresses;
- (b) order date(s);
- (c) delivery date(s); and
- (d) description and quantity of goods supplied.

D11.3 The Contractor shall provide the Contract Administrator with a copy of the records for each quarter year within fifteen (15) Calendar Days of the end of that quarter.

## **MEASUREMENT AND PAYMENT**

### **D12. INVOICES**

D12.1 Further to C10, the Contractor shall submit an invoice for each order delivered 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  
Email: [CityWpgAP@winnipeg.ca](mailto:CityWpgAP@winnipeg.ca)

D12.2 Invoices must clearly indicate, as a minimum:

- (a) the City's purchase order number;
- (b) date of delivery;
- (c) delivery address;
- (d) type and quantity of goods delivered;
- (e) the amount payable with GST and MRST shown as separate amounts; and

(f) the Contractor's GST registration number.

D12.3 The City will bear no responsibility for delays in approval of invoices which are improperly submitted.

D12.4 Bids Submissions must be submitted to the address in B6.5

**D13. PAYMENT**

D13.1 Further to C10, payment shall be in Canadian funds net thirty (30) Calendar Days after receipt and approval of the Contractor's invoice.

D13.2 Further to C10, the City may at its option pay the Contractor by direct deposit to the Contractor's banking institution.

**WARRANTY**

**D14. WARRANTY**

D14.1 Notwithstanding C11, the warranty period for each item of Work supplied shall begin on the date of successful delivery (received and approved by the Contract Administrator) and expires three (3) years thereafter unless extended pursuant to C11.3, in which case it shall expire when provided for thereunder.

## PART E - SPECIFICATIONS

### GENERAL

#### E1. APPLICABLE SPECIFICATIONS

- E1.1 These Specifications shall apply to the Work.
- E1.2 Bidders are reminded that requests for approval of substitutes as an approved equal or an approved alternative shall be made in accordance with B5.

#### E2. GOODS

- E2.1 The Contractor shall supply and deliver traffic signal pedestrian pushbuttons in accordance with the requirements hereinafter specified.

- E2.1.1 Unless specified otherwise, all pushbuttons supplied must be ADA Compliant.

- E2.2 Physical Description:

- E2.2.1 External appearance of pushbutton housing shall be smooth and solid with no voids (other than those specified) or openings that would compromise pushbutton operation.
- (a) Colouring: pushbutton body powder coated aluminum bright yellow;
  - (b) Pushbutton face (actuating surface) polished 303 or 316 stainless steel metal (shiny);
  - (c) Pushbutton body shape shall be rectangular and shall have minimum dimensions of 2.8 (+½, -0) inches wide and 4.5 (+½, -0) inches high.
    - (i) Circular or oval pushbutton body styles are not acceptable.
- E2.2.2 Pushbutton body shall be capable of being vertically mounted directly to an octagonal shaped steel pole using two ¼ inch diameter mounting screws: one centered above and one centered below pushbutton face without hindering the visibility of the LED visible indication, or the audible sound transmission. A four bolt pattern using four ¼ inch diameter mounting screws may be used if expressed approval is given by the Contract Administrator prior to the bid closing. See B5 for information about Substitutes.
- E2.2.3 The pushbutton and gasket material shall be directly mountable to the City of Winnipeg traffic signal poles (secured with self tapping screws), without the use of items such as a housing box or additional mounting brackets. The supply of self tapping mounting screws is not to be included in this Bid Opportunity.
- (a) Surface area around the pushbutton mounting holes shall provide a clearance radius of ½" for the use of a nut driver to install the mounting screws.
- E2.3 Pushbutton Actuating Surface:
- E2.3.1 The pushbutton actuating surface shall be a minimum 2 (+½, -0) inches in diameter.
- E2.3.2 A raised arrow shape on button face shall be used to indicate direction of travel.
- (a) Arrow length (tip of arrow head to end of arrow shaft) shall not be less than 80% of actuating surface diameter;
  - (b) Arrow head shape shall taper to a point centered on one end of shaft;
  - (c) Arrow head height and arrow head length shall each be a minimum 40% of arrow shaft length;
  - (d) Arrow shaft width must be 10% (+ 5%, -0%) of tip to end of shaft length;
  - (e) Tactile arrow feature must be raised above actuating surface by a minimum 1/8 inch, maximum 3/16 inch;
  - (f) When the pushbutton housing is mounted vertically on pole face, the tip of arrow head shall be pointing to one side (left side or right side);

- (i) Rotation of the arrow on the pushbutton body (to allow arrow head to point in the other direction) shall only be possible by the installer using a form of mechanical interlock;
  - (ii) A single pushbutton model shall be provided for use regardless of the required directionality (Individual left and right models are not acceptable, nor flipping the entire pushbutton assembly 180 degrees due to the position of a visible indicator).
- (g) The arrow and actuating surface (button) shall be formed or machined from a single piece of stainless steel.

E2.3.3 The pushbutton shall operate properly in any mounted position.

E2.3.4 A non-adhesive compressible gasket material (minimum of 3/16 inch thick) shall be provided that will environmentally seal the entire rear perimeter of the switch body to the pushbutton mounting surface. The only voids permitted in the gasket material shall be for the switch mechanism, and/or wiring, and to facilitate the installation of mounting hardware.

E2.3.5 Any part of the pushbutton assembly that extends beyond the rear mounting surface, including the switch body and any terminations on the rear of the pushbutton assembly, shall fit within a 1¼ inch hole centred and drilled through an octagonal face of a standard City of Winnipeg galvanized steel traffic signal pole.

E2.3.6 All electronic circuitry required for each pushbutton (except the insulated copper wiring pigtail leads) shall be fully contained and environmentally sealed within the pushbutton housing.

#### E2.4 Electrical Operational Characteristics

- (a) When mounted in-field, the pushbutton must be guaranteed to operate properly in an outdoor environment for a minimum 3 year period without operational problems or structural failure of housing.
  - (i) The pushbutton must survive acts of vandalism and abuse from items such as hockey sticks and baseball bats without failure.
- (b) The pushbutton design shall not require an external interface circuit;
- (c) The pushbutton shall be configured as a two-terminal, single pole single throw, normally open (SPST, NO), momentary contact, non-latching switch design;
- (d) The pushbutton off-to-on state actuating force shall be greater than 0.5 pounds force / 2.2 Newtons and less than 3 pounds force / 13 Newtons.;
- (e) Each valid pushbutton actuation ((i.e. meeting sufficient actuating force described in E2.4(d)) shall generate an 'equivalent-to-contact-closure' for at least 17 milliseconds;
- (f) The pushbutton shall be capable of switching up to 24 volts, AC or DC at up to 500 milliamperes;
- (g) A visible indication of a contact closure shall be generated for each valid pushbutton actuation above. The visible indication shall be positioned directly above the button face and flush mounted to surface of pushbutton body. The characteristics of the visible indication shall consist of:
  - (i) A red momentary flash LED;
  - (ii) Minimum brightness - 3300 millicandelas;
  - (iii) Minimum 160 degree viewing angle.
- (h) A brief audible indication of a contact closure shall be generated for each valid pushbutton actuation with separate and unique sound frequencies for the press and release).
  - (i) The sound port / cavity created for the sound generating device shall cause the audible tone to be channelled towards the ground. The sound cavity and port must be constructed to facilitate drainage of moisture behind the pushbutton body and protect the sound generating device from intentional acts of vandalism;



- (ii) The position of the sound port / cavity shall not provide an opportunity for moisture to infiltrate into the pole from behind the mounted pushbutton;
- (i) The pushbutton must not cause or create interference with other actuating devices connected to same electrical circuit;
- (j) The pushbutton must not generate false calls when the pushbutton body is securely mounted directly on the surface of pole;
  - (i) Pushbutton shall not generate a valid contact closure when the backside of pushbutton (side without the button face) is compressed and the actuating surface has not been depressed.
- (k) Pushbutton shall operate in temperatures between -40 degrees Celsius and + 50 degrees Celsius.

**E2.5 Pushbutton Electrical Termination:**

- (a) The electrical termination consisting of insulated and stranded copper wire pigtail leads shall be environmentally and electrically sealed to the rear of pushbutton mechanism / housing:
  - (i) Each wiring pigtail lead shall be a minimum of 24 inches long and consist of a minimum 18 gauge multi-stranded (flexible) insulated copper wires. Insulation rating shall be a minimum 300 V at -35 degrees Celsius temperature rating;
  - (ii) Each of the individual pigtail leads shall remain attached to the switch when a dead load of 5 pounds (2300 grams) is applied to an unmounted pushbutton hanging from only one of the pigtail leads.

**E2.6 Pushbutton Identification:**

- (a) A permanently visible marking shall be placed on the rear of the pushbutton to identify the manufacturer, model number, and the date of warranty expiration (which shall be consistent with the warranty period specified in D14).

**E2.7 Returned Goods:**

- E2.7.1 Further to C.7 and C.11, The Contract Administrator or his/her designate shall inform the Contractor of the item(s) being returned and the reason for the return. The Contractor shall provide the Contract Administrator with Return Material Authorization (RMA) including shipping instructions within five (5) Calendar Days of the request.
- E2.7.2 The Contractor shall be responsible for all transportation charges on returned goods and further to C.8 the goods will be held at the Contractor's risk pending instruction.
- E2.7.3 Further to E2.7.1(above) the RMA shall include the following information, as a minimum:
  - (a) Company name, if different than Contractor, and ship to addresses;
  - (b) Written authorization for the return and for a collect shipment;
  - (c) Preference of carrier / shipping method, and the name of a contact person with either a local Winnipeg telephone number or a toll-free telephone number;
  - (d) The name of a contact person responsible for the returned goods, with a toll-free telephone number.
- E2.7.4 The Contract Administrator shall provide, as a minimum:
  - (a) The City department returning the goods, including an address and contact information for pick up;
  - (b) The City account number if applicable;
  - (c) Two (2) copies of the written authorization / RMA, one (1) copy on the outside and (1) one within the package;
  - (d) Total number of packages, weight and dimensions.

- E2.7.5 Within twenty (20) calendar days of the carrier's pickup of the RMA item, the repaired or replacement item(s) shall be returned to the address provided by the Contract Administrator.
- (a) Should the quantity of items requiring replacement or repair exceed ten (10) items, or exceed ten (10) percent of an individual order quantity, the replaced or repaired items shall be received by the Contract Administrator within five (5) business days.