



THE CITY OF WINNIPEG

BID OPPORTUNITY

BID OPPORTUNITY NO. 778-2008

**SUPPLY AND DELIVERY OF HYDRAULIC AND TELESCOPIC GRAVE SHORING
SYSTEMS**

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PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

B1.1 SUPPLY AND DELIVERY OF HYDRAULIC AND TELESCOPIC GRAVE SHORING SYSTEMS

B2. SUBMISSION DEADLINE

B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, October 31, 2008.

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. SITE INVESTIGATION

B3.1 Further to C3.1, the Bidder may make an appointment to view the Site by contacting the Contract Administrator.

B3.2 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 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.

B4.3 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.

B4.4 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.

B4.5 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.

B4.6 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.

B5. ADDENDA

B5.1 The Contract Administrator may, at any time prior to the Submission deadline, issue addenda correcting errors, discrepancies or omissions in the Bid Opportunity, or clarifying the meaning or intent of any provision therein.

B5.2 The Contract Administrator will issue each addendum at least two (2) Business Days prior to the Submission Deadline, or provide at least two (2) Business Days by extending the Submission Deadline.

- B5.2.1 Addenda will be available on the Bid Opportunities page at The City of Winnipeg, Corporate Finance, Materials Management Division internet site at <http://www.winnipeg.ca/matmgt>
- B5.2.2 The Bidder is responsible for ensuring that he has received all addenda and is advised to check the Materials Management Division internet site for addenda regularly and shortly before the Submission Deadline, as may be amended by addendum.
- B5.3 The Bidder shall acknowledge receipt of each addendum in Paragraph 8 of Form A: Bid. Failure to acknowledge receipt of an addendum may render a Bid non-responsive.
- B6. SUBSTITUTES**
- B6.1 The Work is based on the materials, equipment, methods and products specified in the Bid Opportunity.
- B6.2 Substitutions shall not be allowed unless application has been made to and prior approval has been granted by the Contract Administrator in writing.
- B6.3 Requests for approval of a substitute will not be considered unless received in writing by the Contract Administrator at least seven (7) Business Days prior to the Submission Deadline.
- B6.4 The Bidder shall ensure that any and all requests for approval of a substitute:
- (a) provide sufficient information and details to enable the Contract Administrator to determine the acceptability of the 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.
- B6.5 The Contract Administrator, after assessing the request for approval of a substitute, may in his sole discretion grant approval for the use of a substitute as an “approved equal” or as an “approved alternative”, or may refuse to grant approval of the substitute.
- B6.6 The Contract Administrator will provide a response in writing, at least two (2) Business Days prior to the Submission Deadline, only to the Bidder who requested approval of the substitute.
- B6.6.1 The Bidder requesting and obtaining the approval of a substitute shall be entirely responsible for disseminating information regarding the approval to any person or persons he wishes to inform.
- B6.7 If the Contract Administrator approves a substitute as an “approved equal”, any Bidder may use the approved equal in place of the specified item.
- B6.8 If the Contract Administrator approves a substitute as an “approved alternative”, any Bidder bidding that approved alternative 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.

B6.9 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.

B7. BID SUBMISSION

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

- (a) Form A: Bid;
- (b) Form B: Prices;
- (c) Provide evidence of the suppliers approved accredited training certification status;
- (d) A training method statement evidencing the training components, how the training will be undertaken and how the trainees will be tested for certification;
- (e) A shoring equipment maintenance method statement and information for users.

B7.2 Further to B7.1, the Bidder should include the written correspondence from the Contract Administrator approving a substitute in accordance with B6.

B7.3 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 in ink, to constitute a responsive Bid.

B7.4 The Bid Submission may be submitted by mail, courier or personal delivery, or by facsimile transmission.

B7.5 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

B7.5.1 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.

B7.6 Bidders are advised not to include any information/literature except as requested in accordance with B7.1.

B7.7 Bidders are advised that inclusion of terms and conditions inconsistent with the Bid Opportunity document, including the General Conditions, may result in the Bid being determined to be non-responsive.

B7.8 If the Bid Submission is submitted by facsimile transmission, it shall be submitted to (204) 949-1178.

B7.8.1 The Bidder is advised that the City cannot take responsibility for the availability of the facsimile machine at any time.

B7.9 Bids submitted by internet electronic mail (e-mail) will not be accepted.

B8. BID

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

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

- (a) if the Bidder is a sole proprietor carrying on business in his own name, his name shall be inserted;
 - (b) if the Bidder is a partnership, the full name of the partnership shall be inserted;
 - (c) if the Bidder is a corporation, the full name of the corporation shall be inserted;
 - (d) if the Bidder is carrying on business under a name other than his own, the business name and the name of every partner or corporation who is the owner of such business name shall be inserted.
- B8.2.1 If a Bid is submitted jointly by two or more persons, each and all such persons shall identify themselves in accordance with B8.2.
- B8.3 In Paragraph 3 of Form A: Bid, the Bidder shall identify a contact person who is authorized to represent the Bidder for purposes of the Bid.
- B8.4 Paragraph 10 of Form A: Bid shall be signed in accordance with the following requirements:
- (a) if the Bidder is a sole proprietor carrying on business in his own name, it shall be signed by the Bidder;
 - (b) if the Bidder is a partnership, it shall be signed by the partner or partners who have authority to sign for the partnership;
 - (c) if the Bidder is a corporation, it shall be signed by its duly authorized officer or officers;
 - (d) if the Bidder is carrying on business under a name other than his own, it shall be signed by the registered owner of the business name, or by the registered owner's authorized officials if the owner is a partnership or a corporation.
- B8.4.1 The name and official capacity of all individuals signing Form A: Bid should be printed below such signatures.
- B8.4.2 All signatures shall be original.
- B8.5 If a Bid is submitted jointly by two or more persons, the word "Bidder" shall mean each and all such persons, and the undertakings, covenants and obligations of such joint Bidders in the Bid and the Contract, when awarded, shall be both joint and several.

B9. PRICES

- B9.1 The Bidder shall state a price in Canadian funds for each item of the Work identified on Form B: Prices.
- B9.1.1 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.
- B9.2 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.
- B9.3 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.
- B9.4 Prices from Non-Resident Bidders are subject to a Non-Resident Withholding Tax pursuant to the Income Tax Act (Canada).

B10. QUALIFICATION

B10.1 The Bidder shall:

- (a) undertake to be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, 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.

B10.2 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 internet site at <http://www.winnipeg.ca/matmgt/debar.stm> .

B10.3 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).

B10.4 Further to B10.3 the Bidder shall:

- (a) be registered/certified to provide an accredited on-site training programme that includes:
 - (i) Safe installation of the shoring system,
 - (ii) Safe removal of the shoring system,
 - (iii) Safe operation and construction of the cage to meet the site dimensional needs,
 - (iv) Safe and respectful working practices that is fully cognisant of bereavement services recommendations and processes.
- (b) Certification for each trainee must be supplied to the City as proof of training attendance and full understanding of the equipment, on completion of the training programme.

B10.5 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.

B10.6 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.

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 internet site at <http://www.winnipeg.ca/matmgt>

B11.3 After award of Contract, the name(s) of the successful Bidder(s) and the Contract Amount(s) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Division internet site 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 (pass/fail);
- (b) qualifications of the Bidder and the Subcontractors, if any, pursuant to B10 (pass/fail);
- (c) Total Bid Price;
- (d) economic analysis of any approved alternative pursuant to B6;
- (e) costs to the City of administering multiple contracts.

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.

(a) The bidder shall within four (4) Business Days of a request by the Contract Administrator, provide information on how their system is interchangeable with the City's current practices/equipment and meets the requirements of the Bid Opportunity.

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, 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 and Delivery of Goods* (Revision 2008 05 26) are applicable to the Work of the Contract.
- C0.1.1 The *General Conditions for the Supply and Delivery of Goods* are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division internet site at 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 and Delivery 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 supply and delivery of hydraulic and telescopic grave shoring systems.

D2.2 Further to C7 if at any time during the twelve (12) month period following the award of the Contract, the City requires additional quantities of the Items, the City may request the Contractor to supply up to two-hundred percent (200%) additional quantities as Extra Work at the unit prices set out in the Contract. The Contractor may decline to supply the additional quantities without penalty.

D3. CONTRACT ADMINISTRATOR

D3.1 The Contract Administrator is:

Jane Saxby
Cemeteries Administrator
3001 Notre Dame Ave
Winnipeg, Manitoba
R3H 1B8

Telephone No.: (204) 986-4392

Facsimile No.: (204) 986-4298

D4. NOTICES

D4.1 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 address or facsimile number:

The City of Winnipeg
Chief Financial Officer
Administration Building, 3rd Floor
510 Main Street
Winnipeg MB R3B 1B9

Facsimile No.: (204) 949-1174

D5. INSPECTION

D5.1 Further to C9, inspection of the equipment shall be conducted as promptly as practicable. Thorough examination of the equipment and successful completion of a continuous full-performance test by the City shall be required as part of the inspection process. At its option, the City may discontinue the process upon finding a lack of conformance to the specifications. The deficiency shall then be rectified by the Contractor and the inspection process shall then commence anew.

D5.1.1 The cost of the initial inspection of the equipment shall be borne by the City. The cost of subsequent inspections required, attributable to deficiencies identified in the initial inspection, shall be the responsibility of the Contractor.

D5.1.2 The City may deduct the amount owing, related to subsequent inspections in accordance with D5.1.1, from any payment required to be made by the City to the Contractor.

- D5.2 Equipment that fails to successfully complete the inspection process shall be rejected by the City and shall be removed from City property by and at the expense of the Contractor, promptly after notification by the Contract Administrator or the equipment inspector.
- D5.3 Notwithstanding D5.1, where multiple quantities of like equipment are being supplied, the City reserves the right, at its discretion, to waive the requirement for a continuous full-performance test as part of the inspection process for the remaining pieces of equipment following a successful completion of the test by one or more pieces of equipment.

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.

SCHEDULE OF WORK

D7. COMMENCEMENT

- D7.1 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.
- D7.2 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 D6.
 - (b) the Contractor has attended a meeting with the Contract Administrator, or the Contract Administrator has waived the requirement for a meeting.

D8. DELIVERY

- D8.1 Goods shall be delivered within six (6) Calendar Week(s) of the placing of an order, f.o.b. destination, freight prepaid to:
Brookside Cemetery
3001 Notre Dame Ave
Winnipeg, MB
R3H 1B8
- D8.2 The Contractor shall confirm each delivery with the Contract Administrator or his/her designate, at least two (2) Business Days before delivery.
- D8.3 Goods shall be delivered between 8:30 a.m. and 4:30 p.m. on Business Days.
- D8.4 The Contractor shall off-load goods as directed at the delivery location.

D9. LIQUIDATED DAMAGES

- D9.1 If the Contractor fails to achieve delivery of the goods within the time specified in D8.1 Delivery the Contractor shall pay the City two hundred dollars (\$200.00) per week for each and every week until the goods have been delivered.

- D9.2 The amount specified for liquidated damages in D9.1 is based on a genuine pre-estimate of the City's damages in the event that the Contractor does not achieve Delivery by the day fixed herein for same.
- D9.3 The City may reduce any payment to the Contractor by the amount of any liquidated damages assessed.

MEASUREMENT AND PAYMENT

D10. PAYMENT

- D10.1 Further to C10, the City may at its option pay the Contractor by direct deposit to the Contractor's banking institution.

D11. PAYMENT SCHEDULE

- D11.1 Further to C10, payment shall be in Canadian funds net thirty (30) Calendar Days after receipt and approval of the Contractor's invoice.

WARRANTY

D12. WARRANTY

- D12.1 Notwithstanding C11, the warranty period for each piece of Equipment must be supplied with an 18 month warranty period. This shall begin on the date of successful completion of the inspection process or when the equipment has been successfully placed into operation. The warranty requirements shall be for, parts and labour inclusive, unlimited operating hours, on the complete supplied hydraulic or telescopic grave shoring systems and all associated components and attachments.
- D12.2 All aluminium extruded panels must be capable of sectional repair in the event of damage.
- D12.3 All incidental warranty related costs (including, but not limited to, Contractor's travel, mileage, deductibles, towing costs, etc.) in executing any part of the warranty shall be the sole responsibility of the Contractor.
- D12.1 Further to C11, if a defect or deficiency prevents the full and normal use or operation of the Work or any portion thereof, for purposes of calculating the warranty period, time shall be deemed to cease to elapse for the defective or deficient portion, and for any portion of the Work whose use or operation is prevented by such defect or deficiency, as of the date on which the defect or deficiency is observed or the use or operation is prevented and shall begin to run again when the defect or deficiency has been corrected or the Work may be used or operated to the satisfaction of the Contract Administrator.

PART E - SPECIFICATIONS

GENERAL

E1. APPLICABLE SPECIFICATIONS AND DRAWINGS

- 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 B6.

E2. GOODS

- E2.1 The Contractor shall supply a hydraulic and telescopic grave shoring system in accordance with the requirements hereinafter specified.

E2.2 Hydraulic Grave Shoring System.

- (a) The following is a specification for the primarily hydraulic grave shoring system (Trench cage system) specifically for use in the excavation of interment sites within the cemetery grounds. All components of the system must be designed to operate within the climatic conditions of the Canadian prairies +/- 40oc. All components must be capable of safe and efficient interchangeable use with the Teleshore Hydraulic Grave Shoring System.
- (i) The shoring system must comply with the standards and specifications for trench cage shoring systems as provided in the Manitoba Workplace Safety and Health Act and Part 26 (Excavations and Tunnels) of the Workplace Safety and Health Regulation M. R. 217/2006
 - (ii) The shoring system must be capable of being easily lowered (manually or by use of mechanical equipment) into the excavation as a complete unit.
 - (iii) The hydraulic excavation shoring panels must be independently tested and proven to have withstood 3.5 tonnes or equivalent distributed force, an authenticated test certificate, providing the method of testing and the outcomes are required to be submitted with the bid submission.
 - (iv) The hydraulic grave shoring must be manufactured from lightweight aluminium extruded profile and weigh not greater than 4.4lbs per 4" running foot, plus 25lbs additional constant hydraulic cylinder weight per set.
 - (v) The shoring panels must be capable of operating with a lightweight (not greater than 12lbs each) aluminium manual or hydraulic jacking system.
 - (vi) The manual/hydraulic cylinders must have a working range of 26"-42" and be interchangeable in use with the Teleshore hydraulic grave shoring systems.
 - (vii) The grave shoring system must be capable of working at a maximum pressure of 500psi.
 - (viii) The shoring panels must have installed easily detachable, calibrated lifting eyes.
 - (ix) The shoring panels must have PVC sleeved carrying handles.
 - (x) The shoring system must be designed to allow for the optional use of width adjusting head and foot end protection shoring panels that can be installed as a retrospective fitting device.
 - (xi) The shoring system must be flexibly designed to allow the option of securely attaching a lightweight (not greater than 66lbs in weight) lock down safety cover that will withstand 600lbs weight without failure.

E2.3 Telescopic Grave Shoring System.

- (a) The following is a specification for the telescopic grave shoring system specifically for use in the excavation of interment sites within the cemetery grounds. All components, excluding the telescopic excavation shoring panels, must be manufactured from suitable

material preferably steel. All components must be capable of safe and efficient interchangeable use with the Teleshore Telescopic Grave Shoring System.

- (i) The shoring system must comply with the standards and specifications for telescopic shoring systems as provided in the Manitoba Workplace Safety and Health Act and Part 26 (Excavations and Tunnels) of the Workplace Safety and Health Regulation M. R. 217/2006 and with the relevant CSA standards for the shoring of excavations.
- (ii) The shoring system must be capable of being safely handled and installed in the climatic conditions of the Canadian prairies +/- 40oc.
- (iii) The telescopic grave shoring panels must be capable of installation and retrieval from the surface of the excavation.
- (iv) The telescopic grave shoring panels must have fitted lifting eyes sleeved in PVC.
- (v) The telescopic excavation shoring panels must be independently tested and proven to have withstood 3.5 tonnes or equivalent distributed force, an authenticated test certificate, providing the method of testing and the outcomes are required to be submitted with the bid submission.
- (vi) The telescopic excavation shoring panels must be manufactured from lightweight aluminium using a mixture of 5000 and 6000 series type and fitted with 6mm plated steel points.
- (vii) The telescopic excavation shoring panels must able to be manufactured in varying lengths as ordered, up to and including 10.5 feet maximum.
- (viii) The ground support frame must be manufactured from suitable angle steel and must be fully width adjustable.
- (ix) The telescopic grave shoring system must have capability of giving protection on all 4 sides of the excavation.
- (x) The telescopic grave shoring system must be flexibly designed to allow the option of securely attaching a lightweight (not greater than 66lbs in weight) lock down safety cover that will withstand 600lbs weight without failure.
- (xi) All telescopic grave shoring panels must be fitted with a suitable transit lock.
- (xii) Any specialist tools specifically required for optimum use of the telescopic grave shoring system must be supplied as part of an order.

E2.4 Accessories and Sundry Grave Shoring System Products.

(a) Lock Down Safety Covers.

- (i) Must be lightweight, weighing not greater than 66lbs and be designed to be easily carried by hand.
- (ii) Must be fully connectable and lockable to the grave shoring system once in the ground.
- (iii) Must be supplied with all necessary fixtures and fittings.
- (iv) Must have certified evidence of strength testing for the lightweight cover that evidences the testing methods used and the outcomes.
- (v) Must be capable of withstanding 600lbs weight.
- (vi) Must have an easy inspection facility via four lockable inspection doors.
- (vii) Must be fully compatible and certified safe to use with the Teleshore grave shoring systems.
- (viii) Must be capable of withstanding extreme temperatures (-40/+40oc) without safety or other failure or deterioration.

(b) Hydraulic Hoses.

- (i) All hoses must be fitted with quick release couplings compatible with the Teleshore grave shoring systems
- (ii) Hoses must be colour coded to enable easy determination of length.
- (iii) Hoses must be available at varying lengths to suit client's requirements.
- (iv) Hoses must be capable of withstanding extreme temperatures (-40/+40oc).

- (v) Hoses must be capable of connecting to a junction "T" piece, with a fitted inline zero pressure valve.
 - (vi) Valves and fittings must be compatible with the Teleshore grave shoring systems.
- (c) Hydraulic Hand Pump.
- (i) Pumps must be single action hand pumps, fitted with a protected gauge easily readable, in psi pressure stages.
 - (ii) The pump must be fully compatible with the Teleshore grave shoring systems to allow interchangeable use.
 - (iii) The pump must be supplied with a single 2 metre feed hose.
 - (iv) The pump must be fitted with a stabilizing foot point.
 - (v) The pump must be lightweight weighing not greater than 20lbs and be designed to be easily carried safely by hand.
 - (vi) The pump must be supplied with a hydraulic fluid compatible with other grave shoring systems and capable of working under extreme temperatures (-40/+40oc).