



THE CITY OF WINNIPEG

BID OPPORTUNITY

BID OPPORTUNITY NO. 163-2007

SUPPLY AND DELIVERY OF A PHASE (1) FLASHOVER TRAINING SYSTEM

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PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

B1.1 SUPPLY AND DELIVERY OF A PHASE (1) FLASHOVER TRAINING SYSTEM

B2. SUBMISSION DEADLINE

- B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, March 14, 2007.
- B2.2 Bid Submissions determined by the Manager of Materials to have been received later than the Submission Deadline will not be accepted and will be returned upon request.
- B2.3 The Contract Administrator or the Manager of Materials may extend the Submission Deadline by issuing an addendum at any time prior to the time and date specified in B2.1.

B3. 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 notify the Contract Administrator of the error, discrepancy or omission, or request a clarification as to the meaning or intent of the provision at least five (5) Business Days prior to the Submission Deadline.
- B3.3 Responses to enquiries which, in the sole judgment of the Contract Administrator, require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator to all Bidders by issuing an addendum.
- B3.4 Responses to enquiries which, in the sole judgment of the Contract Administrator, do not require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator only to the Bidder who made the enquiry.
- B3.5 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 Branch internet site at <http://www.winnipeg.ca/matmgt>.
- B4.2.2 The Bidder is responsible for ensuring that he has received all addenda and is advised to check the Materials Management Branch internet site for addenda 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 shall base his Total Bid Price upon the specified item but may also indicate an alternative price based upon the approved alternative. Such alternatives will be evaluated in accordance with B13.
- 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.

B6. BID SUBMISSION

- B6.1 The Bid Submission consists of the following components:
- (a) Form A: Bid;
 - (b) Form B: Prices.

- B6.2 The Bidder should submit with their Bid Submission:
- (a) description of the site requirements for the system;
 - (b) any special footings or foundations that are required to accommodate the system.
- B6.3 All components of the Bid Submission 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.
- 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 Branch
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 If the Bid Submission is submitted by facsimile transmission, it shall be submitted to (204) 949-1178
- B6.6.1 The Bidder is advised that the City cannot take responsibility for the availability of the facsimile machine at any time.
- B6.7 Bid Submissions 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;
- (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 shall be printed below such signatures.

B7.4.2 All signatures shall be original.

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 Submission and the Contract, when awarded, shall be both joint and several.

B8. PRICES

B8.1 The Bidder shall state the lump sum price in Canadian funds for the Work on Form B: Prices.

B8.1.1 The price 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;**
- (e) travel costs, per diem and salary costs shall be included in the Lump Sum Price on Form B: Prices.**

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;
- (b) be responsible and not be suspended, debarred or in default of any obligation to the City;
- (c) be financially capable of carrying out the terms of the Contract;
- (d) have all the necessary experience, capital, organization, and equipment to perform the Work in strict accordance with the terms and provisions of the Contract;
- (e) have successfully carried out work, similar in nature, scope and value to the Work:
 - (i) within five (5) Business Days of a request by the Contract Administrator, provide a reference list with a minimum of ten (10) reference sites where the system proposed in this Bid Opportunity has been utilized for a minimum of five (5) years and over 500 training evolutions. The list shall contain the customer name, contact name, contact phone number, contact address, contact e-mail address (if available) and the year the system was first delivered to the customer.
 - (ii) within five (5) Business Days of a request by the Contract Administrator, provide a list with a minimum of ten (10) advanced certified instructors with a minimum of one hundred (100) training evolutions in suppliers system as the lead instructor. Include the instructor's name, rank, department and year when advanced certification was achieved, years in the fire service and any other

- pertinent information. The City shall be able to select the instructor(s) who will provide training to the Fire Paramedic/Service.
- (iii) The Certification of the instructor(s) shall be traceable back to the program Utilized by the Swedish Fire and Rescue College in Skovde, Sweden.
- (f) employ only Subcontractors who:
- (i) are responsible and not suspended, debarred or in default of any obligation to the City (a list of suspended or debarred individuals and companies is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at <http://www.winnipeg.ca/matmgt>); and
 - (ii) have successfully carried out work similar in nature, scope and value to the portion of the Work proposed to be subcontracted to them, and are fully capable of performing the Work required to be done in accordance with the terms of the Contract;
- (g) have a written workplace safety and health program in accordance with The Workplace Safety and Health Act (Manitoba);
- (h) within five (5) Business Days of a request by the Contract Administrator, provide a letter stating the ownership of the business, the number of years the company has been in the business of providing flashover training systems, and certification of authorization from the Swedish Fire Service Agency, to market the concept in North America.
- B9.2 The Bidder shall be prepared to submit, within three (3) Business Days of a request by the Contract Administrator, proof satisfactory to the Contract Administrator of the qualifications of the Bidder and of any proposed Subcontractor.
- B9.3 The Bidder shall provide, on the request of the Contract Administrator, full access to any of the Bidder's equipment and facilities to confirm, to the Contract Administrator's satisfaction, that the Bidder's equipment and facilities are adequate to perform the Work.

B10. OPENING OF BIDS AND RELEASE OF INFORMATION

- B10.1 Bid Submissions will not be opened publicly.
- B10.2 After the Submission Deadline, the names of the Bidders and their bid prices (evaluated, and pending review and verification of conformance with requirements) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at <http://www.winnipeg.ca/matmgt>.
- B10.3 After award of Contract, the name(s) of the successful Bidder(s) and the Contract Amount(s) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at <http://www.winnipeg.ca/matmgt>.
- B10.4 The Bidder is advised that any information contained in any Bid Submission may be released if required by City policy or procedures, by The Freedom of Information and Protection of Privacy Act (Manitoba), by other authorities having jurisdiction, or by law.

B11. IRREVOCABLE BID

- B11.1 The Bid(s) submitted by the Bidder shall be irrevocable for the time period specified in Paragraph 9 of Form A: Bid.
- B11.2 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.

B12. WITHDRAWAL OF BIDS

- B12.1 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.
- B12.1.1 Notwithstanding GC.7.05(2), 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.
- B12.1.2 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.
- B12.1.3 If a Bidder gives notice of withdrawal prior to the Submission Deadline, the Manager of Materials shall:
- (a) retain the Bid Submission until after the Submission Deadline has elapsed;
 - (b) open the Bid Submission to identify the contact person named in Paragraph 3 of Form A: Bid and the Bidder's authorized representatives named in Paragraph 10 of Form A: Bid; and
 - (c) if the notice has been given by any one of the persons specified in B12.1.3(b), declare the Bid withdrawn.
- B12.2 A Bidder who withdraws his Bid after the Submission Deadline but before his Bid has been released or has lapsed as provided for in B11.2 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.

B13. EVALUATION OF BIDS

- B13.1 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 B9 (pass/fail);
 - (c) Total Bid Price;
 - (d) economic analysis of any approved alternative pursuant to B5.
- B13.2 Further to B13.1(a), the Award Authority may reject a Bid as being non-responsive if the Bid Submission is incomplete, obscure or conditional, or contains additions, deletions, alterations or other irregularities. The Award Authority may reject all or any part of any Bid, or waive technical requirements if the interests of the City so require.
- B13.3 Further to B13.1(b), the Award Authority shall reject any Bid submitted by a Bidder who does not demonstrate, in his Bid Submission or in other information required to be submitted, that he is responsible and qualified.
- B13.4 Further to B13.1(c), the Total Bid Price shall be the lump sum price shown on Form B: Prices.
- B13.4.1 If there is any discrepancy between the lump sum price written in figures and the lump sum price written in words, the price written in words shall take precedence.
- B13.5 This Contract will be awarded as a whole.

B14. AWARD OF CONTRACT

- B14.1 The City will give notice of the award of the Contract or will give notice that no award will be made.

- B14.2 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.
- B14.2.1 Without limiting the generality of B14.2, 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.
- B14.3 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.
- B14.3.1 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.
- B14.4 Notwithstanding GC.3.01 and GC.3.02, the City will issue a Purchase Order to the successful Bidder in lieu of the execution of a Contract.
- B14.5 The Contract Documents, as defined in GC.1.01(7), 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

C1. GENERAL CONDITIONS

C1.1 The *General Conditions for the Supply and Delivery of Goods* (Form 21: 88 03) are applicable to the Work of the Contract.

C1.1.1 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 Branch internet site at <http://www.winnipeg.ca/matmgt>.

PART D - SUPPLEMENTAL CONDITIONS

GENERAL

D1. GENERAL CONDITIONS

- D1.1 In addition to the *General Conditions for the Supply and Delivery of Goods*, these Supplemental Conditions are applicable to the Work of the Contract.
- D1.2 The General Conditions are amended by striking out "The City of Winnipeg Act" wherever it appears in the General Conditions and substituting "The City of Winnipeg Charter".
- D1.3 The General Conditions are amended by striking out "Board of Commissioners" or "Commissioner" wherever it appears in the General Conditions and substituting the "Chief Administrative Officer".
- D1.4 The General Conditions are amended by striking out "Tender Package" wherever it appears in the General Conditions and substituting "Bid Opportunity".
- D1.5 The General Conditions are amended by striking out "Tender Submission" wherever it appears in the General Conditions and substituting "Bid Submission".
- D1.6 The General Conditions are amended by striking out "Bidding Instructions" wherever it appears in the General Conditions and substituting "Bidding Procedures".

D2. SCOPE OF WORK

- D2.1 The Work to be done under the Contract shall consist of supply and delivery of a phase (1) flashover training system.
- D2.2 The major components of the Work are as follows:
- (a) Supply and Delivery of complete container system;
 - (b) Training Course.

D3. DEFINITIONS

- D3.1 When used in this Bid Opportunity:
- (a) "**Business Day**" means any Calendar Day, other than a Saturday, Sunday, or a Statutory or Civic Holiday;
 - (b) "**Submission Deadline**" and "**Time and Date Set for the Final Receipt of Bids**" mean the time and date set out in the Bidding Procedures for final receipt of Bids;

D4. CONTRACT ADMINISTRATOR

- D4.1 The Contract Administrator is:
- Bill Clark
Academy Director
2nd Fl. 185 King Street
Winnipeg, Manitoba
R3B 1J1
- Telephone No. (204) 986-4083
Facsimile No. (204) 986-7920

D5. NOTICES

- D5.1 GC.7.05 is hereby amended to delete reference to "registered mail" and to replace same with "ordinary mail".
- D5.2 GC.7.05 is further amended hereby to include delivery by facsimile transmission (fax) as an acceptable means of delivering notices, consents, approvals, statements, authorizations, documents or other communications required or permitted to be given under this Contract. Deliveries by fax will be deemed to have been received on the day of delivery, if a business day, or if not a business day, on the business day next following the day of delivery.
- D5.3 Further to GC.7.05, all notices, consents, approvals, statements, authorizations, documents or other communications to the City, except as expressly otherwise required in D5.4, D5.5 or elsewhere in the Contract, shall be sent to the attention of the Contract Administrator at the address or facsimile number identified in D4.1.
- D5.4 All notices of appeal to the Chief Administrative Officer shall be sent to the following address or facsimile number:
The City of Winnipeg
Chief Administrative Officer Secretariat
Administration Building, 3rd Floor
510 Main Street
Winnipeg MB R3B 1B9
Facsimile No.: (204) 949-1174
- D5.5 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications required to be submitted or returned to the City Solicitor shall be sent to the following address or facsimile number:
The City of Winnipeg
Corporate Services Department
Legal Services Division
185 King Street, 3rd Floor
Winnipeg MB R3B 1J1
Facsimile No.: (204) 947-9155

SUBMISSIONS

D6. 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 Purchase Order 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 that the Contractor is in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act

(Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba.

- (ii) evidence that the qualifications of the bidder have been verified.
- (b) the Contractor has attended a meeting with the Contract Administrator, or the Contract Administrator has waived the requirement for a meeting.

WARRANTY

D8. WARRANTY

- D8.1 Further to GC.10.01, 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.
- D8.2 Notwithstanding GC.10.01, GC.10.02 and D8.1, if any law of Manitoba or of the jurisdiction in which the Work was manufactured requires, or if the manufacturer provides, a longer warranty period or a warranty which is more extensive in its nature, then the provisions of such law or manufacturer's warranty shall apply.

PART E - SPECIFICATIONS

GENERAL

E1. GENERAL

E1.1 These Specifications shall apply to the Work.

E2. GOODS

E2.1 The Contractor shall supply and deliver a phase 1 flashover training system in accordance with the requirements hereinafter specified.

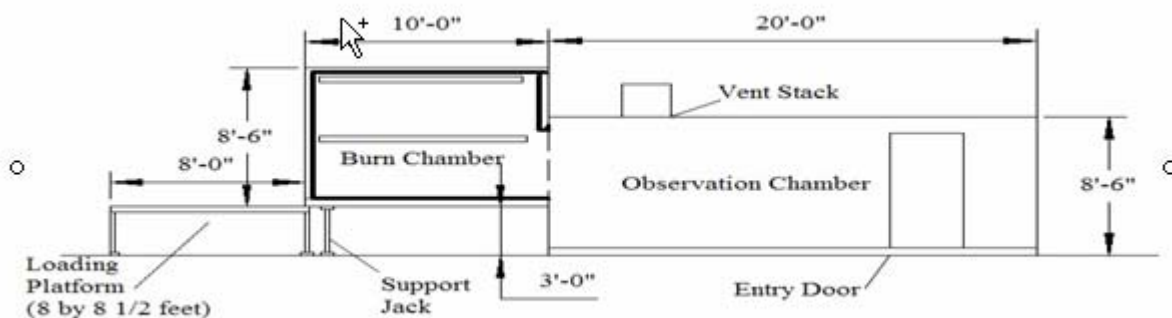
E2.2 Item No. 1 – Container System Specifications shall be as follows:

- (a) The Container System shall:
 - (i) meet or exceed N.F.P.A. 1001, 1403 and 1500 Standards;
 - (ii) container system shall be built to specifications of Swede Survival Systems;
 - (iii) container system shall meet the Swedish Rescue Services Agency specifications.
- (b) Physical Dimensions:
 - (i) Burn Container: 10' Long, 81/2' Wide, 111/2' High;
 - (ii) Observation Container: 20' Long, 81/2' Wide, 8 1/2' High;
 - (iii) Weight: Approximately 12000 pounds.
- (c) Construction and Included Items:
 - (i) Access Platform / Loading Dock (see drawing);
 - (ii) Partek High Performance Insulation In Burn & Observation Containers;
 - (iii) 14 Gauge Steel Exterior with 8 Gauge Sheet Metal Covering Insulation;
 - (iv) 5/8" Chain on Walls, Ceiling and Doors of Burn Container;
 - (v) Ventilation System;
 - (vi) Concrete Paving to Line Floor of Burn Container;
 - (vii) Pike Pole for Loading Particle Board;
 - (viii) Two (2) each.- Crib Fire Drums;
 - (ix) Side entry doors without locks;
 - (x) Access for Hose Line;
 - (xi) Jacks for additional Support of Burn Container;
 - (xii) Paint – Royal Blue or Red Oxide.
- (d) Set up will be the responsibility of the City of Winnipeg.

E2.3 Item No. 3 – Design Criteria of the Enclosure shall be as follows:

- (a) The training enclosure shall be made up of two compartments. The upper compartment is called the burn chamber and the lower compartment is called the observation chamber. Both chambers shall be fabricated from standard height land/sea shipping containers. These containers may be used, but shall not be older than five (5) years from the date or original manufacture.
- (b) The Burn Chamber shall meet the following criteria:
 - (i) The Burn Chamber shall be ten (10) feet long and eight (8) feet wide.
 - (ii) The entire interior surface of the container's walls and ceiling shall be lined with insulation materials capable of withstanding the repeated high temperature evolutions present inside of the chamber.
 - (iii) The two corners of the Burn Chamber farthest from the Observation Chamber shall be reinforced with extra insulation and protection as this is where the Class A materials crib will be situated on alternate training evolutions.

- (iv) The floor of the container shall have all combustible materials removed and replaced with a minimum eight (8) gauge steel plate surface and covered with concrete pavers.
 - (v) The Burn Chamber floor shall elevate three (3) feet above the Observation Chamber floor.
 - (vi) One end of the Burn Chamber shall open to allow the firefighters in the Observation Chamber to observe the fire behaviour, while remaining below the intense heat generated by the flashover effect in the Burn Chamber.
 - (vii) The opposite end of the container shall remain equipped with the standard double doors of a Land/Sea shipping container. These doors however will be insulated and have a method for securing Class A sheet material for the training evolutions.
 - (viii) A method of securing Class A sheet material to the walls and ceiling of the container shall be provided.
 - (ix) A set of two support legs underneath the Burn Chamber shall be provided. These legs shall be adjustable to accommodate site conditions.
- (c) The Observation Chamber shall meet the following criteria:
- (i) The Observation Chamber shall be twenty (20) feet long and eight (8) feet wide.
 - (ii) The forward portion of the Observation Chamber Walls and the Ceiling shall be lined with the same insulation method as the Burn Chamber. This insulation shall run at least seven feet in length and cover the walls at least four feet down from the ceiling.
 - (iii) A ventilation stack shall be provided in the roof of the Observation Chamber and be configured as to allow one of the instructors at the rear of the chamber to operate both one of the two doors and the ventilation stack opening simultaneously.
 - (iv) The floor of the container shall have all combustible materials removed and replaced with a minimum eight (8) gauge steel plate surface and be covered with concrete pavers.
 - (v) The Observation Chamber shall have two (2) three (3) foot by seven (7) foot outward opening doors located near the rear of the chamber. These doors shall open freely without any latching mechanism and be configured to return to the closed position automatically.
 - (vi) The rear wall of the Observation Container shall be the original double doors of the Land/Sea container. A cutout large enough to accommodate two 1 ½ inch charged hose lines shall be cut in one of the doors.



- (d) The Contractor shall provide additional equipment as listed below:
- (i) Two (2) Class A material Cribs of the correct volume and shape to meet with the suppliers standard operating procedures for proper loading of the system for safe and effective training.
 - (ii) One (1) eight (8) foot long by eight and one-half (8 ½) foot wide platform located behind the Burn Chamber to accommodate loading and clean out of the Burn Chamber between training evolutions. The legs of the platform shall be adjustable

in height from 2' 6" to 3' 6" in one inch increments to allow for adjustment to site conditions. The deck of the platform shall be sufficiently reinforced as to accommodate the live load of up to four firefighters in full PPE during loading and cleanup operations.

(e) Site Set-up of the System:

- (i) The Flashover Training System shall be designed so as to be set-up onsite by the City of Winnipeg in less than one hour by a crane or forklift operator and two assistants. The Bidder shall provide the City with a description of the site requirements for the system as a part of their Bid Submission. The system shall be able to be lifted into place with a 10,000 Lb crane or forklift. If any special footings or foundations are required to accommodate the system, the Bidder will provide this information as part of their Bid Submission.

E2.4 Item No. 4 – Features of the Training Curriculum:

- (a) The training curriculum shall consist of a two parts. The first part is a two day, onsite training course for up to six (6) of the Fire/Paramedic instructors. The second part is a complete documentation package on operation and maintenance of the Flashover Training System. **The training curriculum shall be traceable to the training program developed and refined over the past eighteen years by the Swedish Rescue Services College in Skovde, Sweden.**

(b) Training Course:

- (i) The training course shall be conducted over a two (2) day period. It will consist of two (2) eight (8) hour training days. There will be both a classroom and hands on portion to the class.
- (ii) The instructor who will deliver the training will have advanced certification from the supplier as to their ability to perform this training. The instructor shall have conducted a minimum of 100 training evolutions in the suppliers Flashover Training System. The certification of the instructor shall be traceable back to the program utilized by the Swedish Fire and Rescue College in Skovde, Sweden.
- (iii) The course shall have a four hour classroom portion covering theory of operation, recommended loading procedures, pre-evolution briefing materials, safety procedures and maintenance of the system.
- (iv) The remainder of the course shall consist of twelve (12) hours of hands-on operation and use of the Flashover Training System by the Fire /Paramedic instructors. Prior to use of the system for the first time the Contractor's personnel will perform a complete inspection of the training system to ensure that it has been properly installed per the Contractor's recommendations. During the hands-on training, each of the Contractor's student instructors will have an opportunity to conduct a complete training evolution from loading the materials; to inspecting the students prior to entry; to starting the fire; to controlling the fire growth and stages of evolution; to ending the session; to clean up and debriefing.
- (v) After completion of the training course the Contractor shall provide each of the Fire/Paramedic student instructors who participated in the complete two day course with certification as level 1 instructor. This is a lower level of certification than the advanced certification level achieved by the instructors who run the training program.
- (vi) The Fire/Paramedic Service will be responsible for providing the class materials to support the training course objectives. The Contractor will advise the Fire /Paramedic Service with a required materials list at least four (4) weeks prior to the date scheduled for the training course.

(c) Documentation Package:

- (i) The documentation package for the Flashover Training System shall include the necessary sets of the operations manual for the system. The package shall also include a copy of a PowerPoint based presentation for preparation of the trainees prior to entry into the Flashover Training System. The package shall include a set of Standard Operating Procedures and Guidelines.

- (ii) The Operations Manual shall include discussions of inspection of the Flashover Training System prior to an evolution; proper loading of the burn crib; proper loading of the walls and ceiling of the Burn Chamber with sheet material; safety inspections of all trainees and instructors prior to entry in to the training system; control of the fire growth and propagation during the evolution; clean up and overhaul of the system after a training evolution; and inspection of the system at the end of a training day.
 - (iii) The PowerPoint presentation for pre-briefing trainees prior to the evolution shall prepare the trainees to understand the training objectives of the evolution; the basic theory of Flashover causes and indicators; expectations of trainees while inside the training system; and safety warnings to avoid injury to personnel and equipment while inside the training system.
 - (iv) The Standard Operating Procedures for the Flashover Training System shall explain the Contractor's recommendations for types of materials to be used in the burn crib and as the sheet material in the walls and ceiling of the Burn Chamber; loading procedures for the burn crib by volume and weight of material; loading procedures for the sheet materials on the walls and ceiling of the Burn Chamber; minimum staffing and experience levels of instructor personnel to run a safe and effective evolution; safety guidelines for personnel in terms of PPE, hydration, physical health, level of experience, and others; and maintenance procedures for the training system.
- (d) Training Course shall include but not be limited to the following:
- (i) Ignition sources;
 - (ii) Fire behaviour;
 - (iii) Formation of fire gases;
 - (iv) Fire Control;
 - (v) Container Operations;
 - (vi) Hydration;
 - (vii) Heat Stress and Heat Stress Management;
 - (viii) SCBA & Safety Equipment;
 - (ix) Recognition of Pre-Flashover
 - (x) Smoke and Ventilation Exercises;
 - (xi) Nozzle Technique;
 - (xii) Container Management;
 - (xiii) Safety.

E3. DELIVERY

- E3.1 Goods shall be delivered within seventy (70) Business Days of the award of contract, f.o.b. destination, freight prepaid.
- E3.2 Goods shall be delivered between 8:30am and 3:30pm on Business Days.
- E3.3 Contractor shall off-load goods as directed at the delivery location.