

# THE CITY OF WINNIPEG

# **BID OPPORTUNITY**

**BID OPPORTUNITY NO. 470-2007** 

CITY OF WINNIPEG NEW TREE NURSERY – SUPPLY AND CONSTRUCTION OF FOUR BUILDINGS

# TABLE OF CONTENTS

### PART A - BID SUBMISSION

Form A: Bid Form B: Prices Form G1: Bid Bond and Agreement to Bond Form G2: Irrevocable Standby Letter of Credit and Undertaking	1 4 5 7
PART B - BIDDING PROCEDURES	
<ul> <li>B1. Contract Title</li> <li>B2. Submission Deadline</li> <li>B3. Site Investigation</li> <li>B4. Enquiries</li> <li>B5. Addenda</li> <li>B6. Substitutes</li> <li>B7. Bid Components</li> <li>B8. Bid</li> <li>B9. Prices</li> <li>B10. Qualification</li> <li>B11. Bid Security</li> <li>B12. Opening of Bids and Release of Information</li> <li>B13. Irrevocable Bid</li> <li>B14. Withdrawal of Bids</li> <li>B15. Evaluation of Bids</li> <li>B16. Award of Contract</li> </ul>	1 1 1 2 2 3 4 4 4 5 6 6 6 7 7
PART C - GENERAL CONDITIONS	
C0. General Conditions	1
PART D - SUPPLEMENTAL CONDITIONS	
General D1. General Conditions D2. Scope of Work D3. Contract Administrator D4. Contractor's Supervisor D5. Notices D6. Furnishing of Documents	1 1 1 1 2
Submissions D7. Authority to Carry on Business D8. Insurance D9. Performance Security D10. Detailed Prices	2 2 3 3
Schedule of Work D11. Commencement D12. Critical Stages D13. Substantial Performance D14. Total Performance D15. Liquidated Damages	3 4 4 4 4
Control of Work D16. Job Meetings D17. Prime Contractor – The Workplace Safety and Health Act (Manitoba)	5 5
Measurement and Payment D18. Payment	5
Form H1: Performance Bond Form H2: Irrevocable Standby Letter of Credit	6 8

Form	I: Detailed Price	s	10
PART E	- SPECIFICATIO	NS	
E2. E3. E4. E5. E6. E7. E8. E9.	Applicable Spec Soils Investigation Permits Site Access Co-ordination with Limit of Work Demolition Borrow Pit Flood Protection	ith Others	1 2 2 3 3 3 3 4
Secti	on No.	– Title	
0220	0	– Earthwork	
0236	2	- Drilled Pile Foundations	
0330	0	<ul> <li>Cast in Place Concrete</li> </ul>	
0550	0	<ul> <li>Structural Steel &amp; Metal Fabrications</li> </ul>	
0610	0	- Rough Carpentry	
0620	0	- Finish Carpentry	
0641	0	<ul> <li>Cabinetwork 7 Countertops</li> </ul>	
0719	0	– Air Vapour Barriers	
0720	0	- Insulation	
0745	0	– Metal Roof Systems	
0746	5	<ul> <li>Single Skin Metal Cladding</li> </ul>	
0760	0	<ul> <li>Flashing and Sheet Metal</li> </ul>	
0761	0	<ul> <li>Pre-finished Metal Soffit System &amp; Exterior Cladding</li> </ul>	
0763	1	<ul> <li>Gutters and Downspouts</li> </ul>	
0790	0	- Sealants	
0810	0	<ul> <li>Hollow Steel Doors &amp; Frames</li> </ul>	
0863		<ul> <li>Insulated Steel Sectional Overhead Doors</li> </ul>	
0865	0	- PVC Framed Windows	
0871	0	– Finish Hardware	
0925	0	<ul> <li>Gypsum Drywall, batt Insulation, and Air Vapour Barier</li> </ul>	
0956	0	<ul> <li>Vinyl composition Inlaid Sheet Flooring</li> </ul>	
0990	0	- Painting	
0995	0	<ul> <li>Fibreglass REinforced Plastic (F.R.P.) Panels</li> </ul>	
1080	0	<ul> <li>Washroom Accessories &amp; Manufactured Specialties</li> </ul>	
1500	0	<ul> <li>Mechanical Plumbing &amp; Domestic Water Systems</li> </ul>	
1600	0	- Electrical Specification	
1650	0	<ul> <li>Security System Specification</li> </ul>	

## PART B - BIDDING PROCEDURES

#### B1. CONTRACT TITLE

B1.1 CITY OF WINNIPEG NEW TREE NURSERY – SUPPLY AND CONSTRUCTION OF FOUR BUILDINGS

#### B2. SUBMISSION DEADLINE

- B2.1 The Submission Deadline is 12:00 noon Winnipeg time, July 17, 2007.
- 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 Contract Administrator or an authorized representative will be available at the Site from 10:00 a.m. to 11:00 a.m. on July 5, 2007 to answer bidder's questions.
- B3.2 The Bidder is advised that the City of Winnipeg has allowed a Provincial private Contractor access along the east frontage, southward to West Dyke, located immediately south of the City site. This access will terminate on July 31, 2007, upon which time the Province will remove all temporary fencing and restore the site to preconstruction condition.
- B3.3 The Bidders should attend the July 5, 2007 meeting in order to review the location of the proposed building, view the excavated soil test pits, determine the extent of work, and condition of the access route.
- B3.4 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 notify the Contract Administrator of the error, discrepancy or omission, or request a clarification as to the meaning or intent of the provision at least five (5) Business Days prior to the Submission Deadline.
- B4.3 Responses to enquiries which, in the sole judgment of the Contract Administrator, require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator to all Bidders by issuing an addendum.
- B4.4 Responses to enquiries which, in the sole judgment of the Contract Administrator, do not require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator only to the Bidder who made the enquiry.
- B4.5 The Bidder shall not be entitled to rely on any response or interpretation received pursuant to B4 unless that response or interpretation is provided by the Contract Administrator in writing.

#### 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 Branch 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 Branch 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 10 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 Plant, Materials and methods 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 five (5) 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 Plant, Material or method as either an approved equal in accordance with B6 or alternative;
  - (b) identify any and all changes required in the applicable Work, and all changes to any other Work, which would become necessary to accommodate the substitute;
  - (c) identify any anticipated cost or time savings that may be associated with the substitute;
  - (d) certify that, in the case of a request for approval as an approved equal in accordance with B6, 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 proposed Work schedule and the dates specified in the Supplemental Conditions for Substantial Performance and Total Performance;
  - (e) certify that, in the case of a request for approval as an approved alternative, the substitute will adequately perform the functions called for by the general design, be similar in substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the proposed Work schedule and the dates specified in the Supplemental Conditions for Substantial Performance and Total Performance.
- 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 in accordance with B6" 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 B15.
- B6.9 No later claim by the Contractor for an addition to the Total Bid Price because of any other changes in the Work necessitated by the use of an approved equal or an approved alternative will be considered.

#### B7. BID COMPONENTS

- B7.1 The Bid shall consist of the following components:
  - (a) Form A: Bid;
  - (b) Form B: Prices;
  - (c) Form G1: Bid Bond and Agreement to Bond, or Form G2: Irrevocable Standby Letter of Credit and Undertaking, or a certified cheque or draft;
- 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, to constitute a responsive Bid.
- B7.4 The Bid shall be submitted enclosed and sealed in an envelope clearly marked with the Bid Opportunity number and the Bidder's name and address.
- B7.4.1 Samples or other components of the Bid 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.
- B7.5 Bidders are advised not to include any information/literature except as requested in accordance with B7.1.
- B7.6 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.
- B7.7 Bids submitted by facsimile transmission (fax) or internet electronic mail (e-mail) will not be accepted.
- B7.8 Bids shall be submitted to:

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

#### 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 12 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.
- B8.4.1 The name and official capacity of all individuals signing Form A: Bid shall be printed below such signatures.
- B8.4.2 All signatures should be witnessed, except where a corporate seal has been affixed.
- 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 the lump sum price in Canadian funds for the Work on Form B: Prices.

#### 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; 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 Branch internet site at <u>http://www.winnipeg.ca/matmgt</u>).
- 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);
  - (d) have a qualified and experienceSite foreman onSite all times, who has a full scale set of drawings, and specification.
- B10.4 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.
- B10.5 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.

#### B11. BID SECURITY

- B11.1 The Bidder shall provide bid security in the form of:
  - (a) a bid bond, in the amount of at least ten percent (10%) of the Total Bid Price, and agreement to bond of a company registered to conduct the business of a surety in Manitoba, in the form included in the Bid Submission (Form G1: Bid Bond and Agreement to Bond); or
  - (b) an irrevocable standby letter of credit, in the amount of at least ten percent (10%) of the Total Bid Price, and undertaking issued by a bank or other financial institution registered to conduct business in Manitoba and drawn on a branch located in Winnipeg, in the form included in the Bid Submission (Form G2: Irrevocable Standby Letter of Credit and Undertaking); or
  - (c) a certified cheque or draft payable to "The City of Winnipeg", in the amount of at least fifty percent (50%) of the Total Bid Price, drawn on a bank or other financial institution registered to conduct business in Manitoba.
- B11.1.1 All signatures on bid securities shall be original, and shall be witnessed or sealed as required.
- B11.2 The bid security of the successful Bidder and the next two lowest evaluated responsive and responsible Bidders will be released by the City when a Contract for the Work has been duly executed by the successful Bidder and the performance security furnished as provided herein. The bid securities of all other Bidders will be released when a Contract is awarded.
- B11.2.1 Where the bid security provided by the successful Bidder is in the form of a certified cheque or draft pursuant to B11.1(c), it will be deposited and retained by the City as the performance security and no further submission is required.
- B11.2.2 The City will not pay any interest on certified cheques or drafts furnished as bid security or subsequently retained as performance security.
- B11.3 The bid securities of all Bidders will be released by the City as soon as practicable following notification by the Contract Administrator to the Bidders that no award of Contract will be made pursuant to the Bid Opportunity.

#### B12. OPENING OF BIDS AND RELEASE OF INFORMATION

- B12.1 Bids will be opened publicly, after the Submission Deadline has elapsed, in the office of the Corporate Finance Department, Materials Management Branch, or in such other office as may be designated by the Manager of Materials.
- B12.1.1 Bidders or their representatives may attend.
- B12.1.2 Bids determined by the Manager of Materials, or his designate, to not include the bid security specified in B11 will not be read out.
- B12.2 Following the submission deadline, the names of the Bidders and their Total Bid Prices (unevaluated, and pending review and verification of conformance with requirements) will be available on the 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.
- B12.3 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.
- B12.4 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.

#### B13. IRREVOCABLE BID

- B13.1 The Bid(s) submitted by the Bidder shall be irrevocable for the time period specified in Paragraph 11 of Form A: Bid.
- B13.2 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 until a Contract for the Work has been duly executed and the performance security furnished as herein provided, but any Bid shall be deemed to have lapsed unless accepted within the time period specified in Paragraph 11 of Form A: Bid.

#### B14. WITHDRAWAL OF BIDS

- B14.1 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.
- B14.1.1 Notwithstanding C23.3, 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.
- B14.1.2 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 12 of Form A: Bid, and only such person, has authority to give notice of withdrawal.
- B14.1.3 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 12 of Form A: Bid; and
  - (c) if the notice has been given by any one of the persons specified in B14.1.3(b), declare the Bid withdrawn.
- B14.2 A Bidder who withdraws his Bid after the Submission Deadline but before his Bid has been released or has lapsed as provided for in B13.2 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, including the right to retain the Bidder's bid security.

#### B15. EVALUATION OF BIDS

- B15.1 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.
- B15.2 Further to B15.1(a), the Award Authority may reject a Bid as being non-responsive if the Bid is incomplete, obscure or conditional, or contains additions, deletions, alterations or other irregularities. The Award Authority may reject all or any part of any Bid, or waive technical requirements or minor informalities or irregularities, if the interests of the City so require.
- B15.3 Further to B15.1(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.
- B15.4 Further to B15.1(c), the Total Bid Price shall be the lump sum price shown on Form B: Prices.
- B15.4.1 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.

#### B16. AWARD OF CONTRACT

- B16.1 The City will give notice of the award of the Contract or will give notice that no award will be made.
- B16.2 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.
- B16.2.1 Without limiting the generality of B16.2, 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.
- B16.3 Subject to B16.2, 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.
- B16.3.1 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.

# **PART C - GENERAL CONDITIONS**

#### C0. GENERAL CONDITIONS

- C0.1 The *General Conditions for Construction* (Revision 2006 12 15) are applicable to the Work of the Contract.
- C0.1.1 The General Conditions for Construction are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at http://www.winnipeg.ca/matmgt.
- 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 Construction*.

# PART D - SUPPLEMENTAL CONDITIONS

#### GENERAL

#### D1. GENERAL CONDITIONS

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

#### D2. SCOPE OF WORK

- D2.1 The Work to be done under the Contract shall consist of the construction of four buildings for the new City of Winnipeg tree nursery, including all Siteworks around the buildings.
- D2.2 The major components of the Work are as follows:
  - (a) Construction of an all year round office building, including a water cistern and sewage holding tank system, c/w electrical and MTS service.
  - (b) Construction of a cold storage building
  - (c) Construction of a Fuel storage building
  - (d) Construction of a Herbicide and Pesticide building
  - (e) Rough grading Work around all buildings'
  - (f) Supply and installation of an electrified parking rail fence

#### D3. CONTRACT ADMINISTRATOR

D3.1 The Contract Administrator is Ken Rech Landscape Architects Inc, represented by:

Ken Rech Landscape Architect 1480 Wellington Crescent, Winnipeg, Manitoba, R3N 0B3 Telephone No. (204) 489-6616

Facsimile No. (204) 489-6852

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

#### D4. CONTRACTOR'S SUPERVISOR

D4.1 At the pre-construction meeting, the Contractor shall identify his designated supervisor and any additional personnel representing the Contractor and their respective roles and responsibilities for the Work.

#### D5. NOTICES

- D5.1 Except as provided for in C23.2.2, all notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the Contractor shall be sent to the address or facsimile number identified by the Contractor in Paragraph 2 of Form A: Bid.
- D5.2 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the City, except as expressly otherwise required in D5.3, D5.4 or elsewhere in the Contract, shall be sent to the attention of the Contract Administrator at the address or facsimile number identified in D3.1.
- D5.3 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 Attn: Chief Administrative Officer Administration Building, 3rd Floor 510 Main Street Winnipeg MB R3B 1B9 Facsimile No.: (204) 949-1174

D5.4 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 Attn: City Solicitor 185 King Street, 3rd Floor Winnipeg MB R3B 1J1

Facsimile No.: (204) 947-9155

#### D6. FURNISHING OF DOCUMENTS

D6.1 Upon award of the Contract, the Contractor will be provided with five (5) complete sets of the Bid Opportunity. If the Contractor requires additional sets of the Bid Opportunity, they will be supplied to him at cost.

#### 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.

#### D8. INSURANCE

- D8.1 The Contractor shall provide and maintain the following insurance coverage:
  - (a) commercial general liability insurance, in the amount of at least two million dollars
     (\$2,000,000.00) inclusive, with The City of Winnipeg added as an additional insured, with a
     cross-liability clause, such liability policy to also contain contractual liability, unlicensed
     motor vehicle liability, non-owned automobile liability and products and completed
     operations, to remain in place at all times during the performance of the Work and
     throughout the warranty period;
  - (b) automobile liability insurance for owned automobiles used for or in connection with the Work in the amount of at least two million dollars (\$2,000,000.00) at all times during the performance of the Work and until the date of Total Performance;
  - (c) all risks course of construction insurance in the amount of one hundred percent (100%) of the total Contract Price, written in the name of the Contractor and The City of Winnipeg, at all times during the performance of the Work and until the date of Total Performance.
- D8.2 Deductibles shall be borne by the Contractor.
- D8.3 The Contractor shall provide the City Solicitor with a certificate(s) of insurance, in a form satisfactory to the City Solicitor, at least two (2) Business Days prior to the commencement of

any Work but in no event later than the date specified in C4.1 for the return of the executed Contract.

D8.4 The Contractor shall not cancel, materially alter, or cause each policy to lapse without providing at least fifteen (15) Calendar Days prior written notice to the Contract Administrator.

#### D9. PERFORMANCE SECURITY

- D9.1 The Contractor shall provide and maintain performance security until the expiration of the warranty period in the form of:
  - (a) a performance bond of a company registered to conduct the business of a surety in Manitoba, in the form attached to these Supplemental Conditions (Form H1: Performance Bond), in the amount of fifty percent (50%) of the Contract Price; or
  - (b) an irrevocable standby letter of credit issued by a bank or other financial institution registered to conduct business in Manitoba and drawn on a branch located in Winnipeg, in the form attached to these Supplemental Conditions (Form H2: Irrevocable Standby Letter of Credit), in the amount of fifty percent (50%) of the Contract Price; or
  - (c) a certified cheque or draft payable to "The City of Winnipeg", drawn on a bank or other financial institution registered to conduct business in Manitoba, in the amount of fifty percent (50%) of the Contract Price.
- D9.1.1 Where the performance security is in the form of a certified cheque or draft, it will be deposited by the City. The City will not pay any interest on certified cheques or drafts furnished as performance security.
- D9.2 If the bid security provided in his Bid was not a certified cheque or draft pursuant to B11.1(c), the Contractor shall provide the City Solicitor with the required performance security within seven (7) Calendar Days of notification of the award of the Contract by way of letter of intent and prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.

#### D10. DETAILED PRICES

- D10.1 The Contractor shall provide the Contract Administrator with a detailed price breakdown (Form I: Detailed Prices) at least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.
- D10.2 The Contractor shall state a price for each item or sub-item of the Work identified on Form I: Detailed Prices. The detailed prices must be consistent with the price(s) provided in the Contractor's Bid.

#### SCHEDULE OF WORK

#### D11. COMMENCEMENT

- D11.1 The Contractor shall not commence any Work until he is in receipt of a letter of intent from the Award Authority authorizing the commencement of the Work.
- D11.2 The Contractor shall not commence any Work on the Site until:
  - (a) the Contract Administrator has confirmed receipt and approval of:
    - (i) evidence of authority to carry on business specified in D7;
    - (ii) evidence of the workers compensation coverage specified in C6.15;
    - (iii) evidence of the insurance specified in D8;
    - (iv) the performance security specified in D9;
    - (v) the detailed prices specified in D10

- (b) the Contractor has attended a pre-construction meeting with the Contract Administrator, or the Contract Administrator has waived the requirement for a pre-construction meeting.
- (c) The Contractor has obtained all necessary permits.
- D11.3 The City intends to award this Contract by August 1,2007
- D11.3.1 If the actual date of award is later than the intended date, the dates specified for Critical Stages, Substantial Performance, and Total Performance will be adjusted by the difference between the aforementioned intended and actual dates.

#### D12. CRITICAL STAGES

- D12.3 The Contractor shall achieve critical stages of the Work in accordance with the following requirements:
  - (a) The contractor must have all rough grading work complete by September 15, 2007 in order to allow the City's other Contractor to build the roadway and paving which abuts to the building Work Site.

#### D13. SUBSTANTIAL PERFORMANCE

- D13.1 The Contractor shall achieve Substantial Performance by October 31, 2007.
- D13.2 When the Contractor considers the Work to be substantially performed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Contract Administrator for purposes of verifying Substantial Performance. Any defects or deficiencies in the Work noted during that inspection shall be remedied by the Contractor at the earliest possible instance and the Contract Administrator notified so that the Work can be re-inspected.
- D13.3 The date on which the Work has been certified by the Contract Administrator as being substantially performed to the requirements of the Contract through the issue of a certificate of Substantial Performance is the date on which Substantial Performance has been achieved.

#### D14. TOTAL PERFORMANCE

- D14.1 The Contractor shall achieve Total Performance by November 30, 2007.
- D14.2 When the Contractor or the Contract Administrator considers the Work to be totally performed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Contract Administrator for purposes of verifying Total Performance. Any defects or deficiencies in the Work noted during that inspection shall be remedied by the Contractor at the earliest possible instance and the Contract Administrator notified so that the Work can be re-inspected.
- D14.3 The date on which the Work has been certified by the Contract Administrator as being totally performed to the requirements of the Contract through the issue of a certificate of Total Performance is the date on which Total Performance has been achieved.

#### D15. LIQUIDATED DAMAGES

- D15.1 If the Contractor fails to achieve critical stages, Substantial Performance or Total Performance in accordance with the Contract by the days fixed herein for same, the Contractor shall pay the City the following amounts per Working Day for each and every Working Day following the days fixed herein for same during which such failure continues:
  - (a) Rough grading, September 15, 2007 Three Hundred dollars (\$300.00);
  - (b) Substantial Performance Two Hundred dollars (\$200.00);
  - (c) Total Performance Seven Hundred dollars (\$700.00).

- D15.2 The amounts specified for liquidated damages in D15.1 are based on a genuine pre-estimate of the City's losses in the event that the Contractor does not achieve critical stages, Substantial Performance or Total Performance by the days fixed herein for same.
- D15.3 The City may reduce any payment to the Contractor by the amount of any liquidated damages assessed.

#### CONTROL OF WORK

#### D16. JOB MEETINGS

- D16.1 Regular weekly job meetings will be held at the Site. These meetings shall be attended by a minimum of one representative of the Contract Administrator, one representative of the City and one representative of the Contractor. Each representative shall be a responsible person capable of expressing the position of the Contract Administrator, the City and the Contractor respectively on any matter discussed at the meeting including the Work schedule and the need to make any revisions to the Work schedule. The progress of the Work will be reviewed at each of these meetings.
- D16.2 The Contract Administrator reserves the right to cancel any job meeting or call additional job meetings whenever he deems it necessary.

#### D17. PRIME CONTRACTOR – THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA)

D17.1 Further to C6.24, the Contractor shall be the Prime Contractor and shall serve as, and have the duties of the Prime Contractor in accordance with The Workplace Safety and Health Act (Manitoba).

#### MEASUREMENT AND PAYMENT

#### D18. PAYMENT

D18.1 Further to C12, effective January 1, 2007 the City may at its option pay the Contractor by direct deposit to the Contractor's banking institution.

#### FORM H1: PERFORMANCE BOND

(See D9)

#### KNOW ALL MEN BY THESE PRESENTS THAT

(hereinafter called the "Principal"), and

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

dollars (\$ . )

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

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

\_\_\_\_\_ day of \_\_\_\_\_ , 20\_\_\_\_ , for:

BID OPPORTUNITY NO. 470-2007

CITY OF WINNIPEG NEW TREE NURSERY – SUPPLY AND CONSTRUCTION OF FOUR BUILDINGS

which is by reference made part hereof and is hereinafter referred to as the "Contract".

NOW THEREFORE the condition of the above obligation is such that if the Principal shall:

- (a) carry out and perform the Contract and every part thereof in the manner and within the times set forth in the Contract and in accordance with the terms and conditions specified in the Contract;
- (b) perform the Work in a good, proper, workmanlike manner;
- (c) make all the payments whether to the Obligee or to others as therein provided;
- (d) in every other respect comply with the conditions and perform the covenants contained in the Contract; and
- (e) indemnify and save harmless the Obligee against and from all loss, costs, damages, claims, and demands of every description as set forth in the Contract, and from all penalties, assessments, claims, actions for loss, damages or compensation whether arising under "The Workers Compensation Act", or any other Act or otherwise arising out of or in any way connected with the performance or non-performance of the Contract or any part thereof during the term of the Contract and the warranty period provided for therein;

THEN THIS OBLIGATION SHALL BE VOID, but otherwise shall remain in full force and effect. The Surety shall not, however, be liable for a greater sum than the sum specified above.

AND IT IS HEREBY DECLARED AND AGREED that the Surety shall be liable as Principal, and that nothing of any kind or matter whatsoever that will not discharge the Principal shall operate as a discharge or release of liability of the Surety, any law or usage relating to the liability of Sureties to the contrary notwithstanding.

IN WITNESS WHEREOF the Principal and Surety have signed and sealed this bond the

\_\_\_\_\_ day of \_\_\_\_\_\_ , 20\_\_\_\_ .

# SIGNED AND SEALED in the presence of:

(Witness)

(Name of Principal)	
Per:	(Seal)
Per:	
(Name of Surety)	
Ву:	(Seal)
(Attorney-in-Fact)	( = 0 0)

#### FORM H2: IRREVOCABLE STANDBY LETTER OF CREDIT (PERFORMANCE SECURITY) (See D9)

(Date)

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

#### RE: PERFORMANCE SECURITY - BID OPPORTUNITY NO. 470-2007

CITY OF WINNIPEG NEW TREE NURSERY – SUPPLY AND CONSTRUCTION OF FOUR BUILDINGS

Pursuant to the request of and for the account of our customer,

(Name of Contractor)

(Address of Contractor)

WE HEREBY ESTABLISH in your favour our irrevocable Standby Letter of Credit for a sum not exceeding in the aggregate

Canadian dollars.

This Standby Letter of Credit may be drawn on by you at any time and from time to time upon written demand for payment made upon us by you. It is understood that we are obligated under this Standby Letter of Credit for the payment of monies only and we hereby agree that we shall honour your demand for payment without inquiring whether you have a right as between yourself and our customer to make such demand and without recognizing any claim of our customer or objection by the customer to payment by us.

The amount of this Standby Letter of Credit may be reduced from time to time only by amounts drawn upon it by you or by formal notice in writing given to us by you if you desire such reduction or are willing that it be made.

Partial drawings are permitted.

We engage with you that all demands for payment made within the terms and currency of this Standby Letter of Credit will be duly honoured if presented to us at:

(Address)

and we confirm and hereby undertake to ensure that all demands for payment will be duly honoured by us.

All demands for payment shall specifically state that they are drawn under this Standby Letter of Credit.

Subject to the condition hereinafter set forth, this Standby Letter of Credit will expire on

(Date)

It is a condition of this Standby Letter of Credit that it shall be deemed to be automatically extended from year to year without amendment from the present or any future expiry date, unless at least 30 days prior to the present or any future expiry date, we notify you in writing that we elect not to consider this Standby Letter of Credit to be renewable for any additional period.

This Standby Letter of Credit may not be revoked or amended without your prior written approval.

This credit is subject to the Uniform Customs and Practice for Documentary Credit (1993 Revision), International Chamber of Commerce Publication Number 500.

(Name of bank or financial institution)

Per:

(Authorized Signing Officer)

Per:

(Authorized Signing Officer)

#### FORM I: DETAILED PRICES (See D10)

#### CITY OF WINNIPEG NEW TREE NURSERY – SUPPLY AND CONSTRUCTION OF FOUR BUILDINGS

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
1.	All Permit costs including Building Permit, Electrical cash allowance, Telephone cash allowance, alarm system cash allowance	E3	L.S.	1		
2.	Demolition, rough grading, and all exterior Site Work	E7	L.S.	1		
3.	Office Building including water cistern and sewage holding tank		L.S.	1		
4.	Fuel Storage Building		L.S.	1		
5.	Cold Storage Building		L.S.	1		
6.	Herbicide and Pesticide Storage Building		L.S.	1		
7.	Electrical service to future vehicle gate		L.S.	1		
8.	Electrified Wood Parking Fence		L.S.	1		

# PART E - SPECIFICATIONS

#### GENERAL

#### E1. APPLICABLE SPECIFICATIONS AND DRAWINGS

- E1.1 These Specifications shall apply to the Work.
- E1.2 *The City of Winnipeg Standard Construction Specifications* in its entirety, whether or not specifically listed on Form B: Prices, shall apply to the Work.
- E1.2.1 *The City of Winnipeg Standard Construction Specifications* is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet at http://www.winnipeg.ca/matmgt.
- E1.2.2 The version in effect three (3) Business Days before the Submission Deadline shall apply.
- E1.2.3 Further to C2.4(d), Specifications included in the Bid Opportunity shall govern over *The City of Winnipeg Standard Construction Specifications*.
- E1.3 The following are applicable to the Work:

Specification No.	Specification Title
	Table of Contents
CW3170-R3	Earthwork and Grading

#### Drawing No. Drawing Name/Title

Site Plans

- A 1.0 Office Staff Building Building Plan Elevations, Section/Detail
- A 2.0 Office Staff Building Section, Details, Schedules
- A 3.0 Cold Storage Building Building Plan, Elevations, Section/Detail
- A 4.0 Fuel Storage Building Building Plan, Elevations, Section/Detail
- A 5.0 Herbicide & Pesticide Building Building Plan, Elevations, Section/Detail
- E1 Office Staff Electrical Plan
- E2 Cold Storage Electrical Plan

#### E2. SOILS INVESTIGATION REPORT

- E2.1 Further to C3.1, there is no soil investigation report, however 6 shallow test pits were excavated by two building locations and the following documents the findings:
  - (a) Office Building:
    - (i) Test pit excavated at northeast corner of the building Site to a 350 mm depth, and contained a consistent mix of gravel and clay, indicating the Site has been previously disturbed.
    - (ii) Test pit excavated at southwest corner of the building Site to a 350 mm depth, and contained a consistent mix of gravel and clay, indicating the Site has been previously disturbed.
    - (iii) The office building Site is located in an artificially raised area and is considered to be an old farm homestead Site.
  - (b) Cold Storage Building:
    - (i) Test pit excavated at southeast corner of the building Site to a 300 mm depth, and contained a 175 mm depth of topsoil over a clay subbase.
    - (ii) Test pit excavated at southwest corner of the building Site to a 300 mm depth, and contained a 175 mm depth of topsoil over a clay subbase.

- (iii) Test pit excavated at northwest corner of the building Site to a 250 mm depth, and contained a 125 mm depth of topsoil over a clay subbase.
- (iv) Test pit excavated at northeast corner of the building Site to a 550 mm depth, and contained a 400 mm depth of topsoil over a clay subbase.
- E2.2 All topsoil located below building Sites or roadway paving is to be removed and stockpile on Site, in a location as field determined by the Contract Administrator.
- E2.3 All test pits were left open for the Bidders to review.

#### E3. PERMITS

- E3.1 The Contractor is responsible to apply and pay for all permits. The Contract Administrator has applied for the Building Permit only with the City of Winnipeg, and when it is ready the Contractor shall pick it up and pay for the permit.
- E3.2 The Contractor shall carry a two thousand dollar (\$2,000.00) cash allowance for Manitoba Hydro Servicing of this Site in their lump sum bid.
- E3.3 The Contractor shall carry a nine thousand dollar (\$9,000.00) cash allowance for MTS/ALLSTREAM Servicing of this Site in their lump sum bid. The service will be installed underground to this Site.
- E3.4 The Contractor shall only invoice the City for the actual cost of the Manitoba Hydro and MTS/ALLSTREAM charges. Contractor mark-ups shall be included in the lump Total Bid Price for this project.
- E3.5 The Bidder shall include all Work shown on the drawings and outlined in the specification in their Total Bid Price, unless the Work is clearly shown to be not included in the contract

#### E4. SITE ACCESS

- E4.1 The Site is located on Pembina Highway (PTH 75 South) approximately .35 kilometres south of Perreault Avenue, on the west side of Pembina Highway, immediately north of the west floodway dyke. The Contractor shall access the Site by the existing road approach located approximately in the middle of the Site connecting to Highway 75 South. The Contractor will be responsible for making any improvements to this access road required to keep it passable during the Work period.
- E4.2 The City has permitted the Province of Manitoba to allow their dyke building Contractor access through the City Site along the east property line until July 31, 2007, upon which time the Province will have the temporary fence removed and any Site damage restored to prior construction condition.
- E4.3 The Contractor is made aware they must keep all equipment and materials clear of the CNR right of way, and must not stockpile materials that will block the visibility of trains. The CNR crossing is not to compromised in any way, and any damage to this crossing must be reported to the CNR and the Contract Administrator immediately.
- E4.4 The Contractor is made aware the road approach may be removed for a short period of time to be reconstructed by others. The Contractor will have to use the north road approach at the extreme northeast corner of the Site to access the Work area while the centre roadway is being reconstructed. The reconstruction of this road is expected to take approximately one week.

#### E5. CO-ORDINATION WITH OTHERS

E5.1 The Contractor is made aware the City will be issuing a minimum of three (3) other separate Contracts for Work on this Site, and some of this Work will be located immediately around the Contractor's Work area and some of the Work will overlap into the Contractor's Work area, le. Gravel paving around Cold Storage Building. The three other Contracts are as indicated below:

- (i) Roadwork and Drainage Contract: construction of all new granular roadways and drainage ditches. This Contract will involve the removal of the existing road approach for a short period of time, as well as placing gravel paving around the Cold Storage Building.
- (ii) Site Fencing Contract: this Work should not affect the Contractor by co-ordination is required to ensure the underground electrical service for the electric vehicle gate is installed in the proper location.
- (iii) Irrigation Contract: this Work is not expected to affect the Contractor's Work.
- E5.2 The Contractor is expected to co-ordinate and co-operate with all other of the City's Contractors and shall co-ordinate all Work through the Contract Administrator.
- E5.3 The Contractor may not be able to install the wood parking rail fence until the finish grade is installed by the road building Contractor. The road building Contractor will be instructed to establish this grade level and install his gravel and clay materials, as a priority.

#### E6. LIMIT OF WORK

- E6.1 The limits of Work shown on the drawing define the Work area for all Work to be included in this contract.
- E6.2 Installing the electrical service for the electric entrance vehicle gate, as well as the parking fence and electrical service is also included in this Contract.

#### E7. DEMOLITION

- E7.1 All demolition Work shall be legally disposed of off Site.
- E7.2 In general terms demolition involves the removal of minor concrete pieces, three (3) trees and two (2) large shrub/tree, as well as some minor small piles of tree branch trimmings which were illegally dumped on this Site.

#### E8. BORROW PIT

- E8.1 The Contract Administrator will locate an area at the northeast corner of the Site, northeast of the proposed building Site, where the Contractor can excavate a borrow pit to gain access to clay fill to be used for rough grading around the new buildings.
- E8.2 The Contractor must strip and stockpile all the existing topsoil in an area to be determined on Site by the Contract Administrator, prior to excavating the borrow pit. The width, length and depth of the borrow pit, as well as the side slopes is to be approved by the Contract Administrator prior to stripping any topsoil.
- E8.3 Upon completion the borrow pit access route, surrounding sides, and topsoil stockpile must be graded smooth to remove any sharp grade changes. The Contractor may be required to topsoil and seed the access route at the Contract Administrator's discretion.

#### E9. FLOOD PROTECTION LEVEL

- E9.1 These buildings are being built in the Floodway and Floodway Fringe area as governed by Manitoba Regulation 266/91 and the City of Winnipeg Charter.
- E9.2 The office building main floor elevations and surrounding grades must meet the minimum elevations required to meet the Flood Protection Level of 232.77 metres. The drawing new grade elevations have all been set to meet the requirements of the City of Winnipeg Charter, Designated Floodway Fringe Area Regulations. The Contactor must ensure all design grade elevations shown on the drawings are met, as all the design grades shown are the minimum elevations permitted.

#### E10. CW 3170-R3 EARTHWORK AND GRADING

- E10.1 This City of Winnipeg specification section shall be utilized for backfilling clay material around the building foundations and outside of the granular building foundation bases.
- E10.2 All costs for this Work is to be included in the Total Bid Price and no separate payment will be made for this Work. Item 13, Basis of Payment in that specification shall be deleted.
- SECTION NO. TITLE
- 02200 EARTHWORK
- 02362 DRILLED PILE FOUNDATIONS
- 03300 CAST IN PLACE CONCRETE
- 05500 STRUCTURAL STEEL & METAL FABRICATIONS
- 06100 ROUGH CARPENTRY
- 06200 FINISH CARPENTRY
- 06410 CABINETWORK 7 COUNTERTOPS
- 07190 AIR VAPOUR BARRIERS
- 07200 INSULATION
- 07450 METAL ROOF SYSTEMS
- 07465 SINGLE SKIN METAL CLADDING
- 07600 FLASHING AND SHEET METAL
- 07610 PRE-FINISHED METAL SOFFIT SYSTEM & EXTERIOR CLADDING
- 07631 GUTTERS AND DOWNSPOUTS
- 07900 SEALANTS

08100	- HOLLOW STEEL DOORS & FRAMES
08630	- INSULATED STEEL SECTIONAL OVERHEAD DOORS
08650	– PVC FRAMED WINDOWS
08710	– FINISH HARDWARE
09250	– GYPSUM DRYWALL, BATT INSULATION, AND AIR VAPOUR BARIER
09560	- VINYL COMPOSITION INLAID SHEET FLOORING
09900	– PAINTING
09950	– FIBREGLASS REINFORCED PLASTIC (F.R.P.) PANELS
10800	– WASHROOM ACCESSORIES & MANUFACTURED SPECIALTIES
15000	– MECHANICAL PLUMBING & DOMESTIC WATER SYSTEMS
15000 16000	- MECHANICAL PLUMBING & DOMESTIC WATER SYSTEMS