



SUBMISSION DEADLINE: 4:00 P.M. WINNIPEG TIME, JANUARY 12, 2004

If your company name and address are not correctly shown below, please enter or correct it before submitting your Bid.

Company Name _____

Address _____

**BUYER: Coleen Groening/sm
TELEPHONE NO. (204) 986-2491**

TEMPORARY SALT STORAGE FACILITY – 590 ST. ANNE’S ROAD

— Please quote lump sum price: \$ _____ (GST extra) —

Site Meeting: See Clause 4.3 of the Specifications.

This Request for Quotation includes Drawing Sheets: A1 – Floor Plans and Building Elevations
A2 – Overhead Door Details and Fabric Partition Details
S1 – Structural Plans and Details
E1 / M1 – Electrical and Mechanical Plans and Specifications

THE BID SUBMISSION MUST INCLUDE THIS PAGE (COMPLETED AND SIGNED)

TERMS AND CONDITIONS ATTACHED APPLY EXCEPT AS SUPERSEDED ABOVE OR BY SPECIFICATIONS (IF ANY) ATTACHED.

Early payment discount: _____ % _____ days
(See 1.5 of the Terms and Conditions attached.)

RETURN TO:

**THE CITY OF WINNIPEG 626-2003
CORPORATE FINANCE DEPARTMENT
MATERIALS MANAGEMENT DIVISION
185 KING ST MAIN FLOOR
WINNIPEG MB R3B 1J1**

Contact Person: (print) _____

Telephone Number: _____

Facsimile Number: _____

The Bidder hereby offers to perform the Work in accordance with the Contract for the price(s), in Canadian funds, set out in this Bid.

The Bidder agrees that the Request for Quotation in its entirety shall be deemed to be incorporated in and to form a part of this offer notwithstanding that not all parts thereof are necessarily attached to or accompany this Bid.

The Bidder certifies that the following addenda have been received and agrees that they shall be deemed to form a part of the Contract.

No. 1 No. 2 No. 3 No. 4

This offer shall be open for acceptance, binding and irrevocable for a period of thirty (30) days following the Submission Deadline.

Signature: _____

TERMS AND CONDITIONS – CONSTRUCTION

1. BIDDING PROCEDURES

- 1.1 The Bid must be submitted on the forms provided, with all required entries made clearly in ink.
- 1.2 If the Bidder finds discrepancies or omissions in the Request for Quotation or any part thereof, or is unsure of the meaning or intent thereof, he shall notify the Buyer. The Buyer will, if he deems it necessary, issue addenda to all Bidders. The Bidder is advised to direct all enquiries or comments to the Buyer at least five (5) business days prior to the Submission Deadline to allow time for the preparation and distribution of necessary addenda.
- 1.3 The Bidder is responsible for investigating the site, the nature of the Work to be done and all local conditions that might affect his Bid or his performance of the Work, and shall assume all risk for conditions existing or arising in the course of the Work which have been or could have been determined through such investigation.
- 1.4 The Contract is based on the design, methods and materials specified and any proposed substitutes must be clearly identified in the Bid. Where the phrases "or equal" or "or alternative" occur in the Request for Quotation, the Bidder is advised to submit descriptive matter in sufficient detail to permit a judgment as to the merits of any "equal" or "alternative" offered.
- 1.5 The Bidder may, but is not required to, offer a prompt payment discount. If prompt payment discounts are offered, they will be considered in determining the lowest evaluated responsive Bid.
- 1.6 The Bid must be submitted enclosed and sealed in an envelope clearly marked with the RFQ Number and the Bidder's name and address. Each envelope must contain only the Bid for one Request for Quotation.
- 1.7 The Bid must be submitted to the Materials Management Division at the address specified no later than the Submission Deadline specified. Bids received after the Submission Deadline will not be considered.
- 1.8 The Bid may be withdrawn without penalty at any time prior to the Submission Deadline.
- 1.9 The Bid shall be open for acceptance, binding and irrevocable for the period of time specified on the cover page. A Bidder who withdraws his Bid after the Submission Deadline but before his Bid has been released or has lapsed shall be liable for such damages as are imposed upon the Bidder by law and subject to such sanctions as the City considers appropriate in the circumstances.
- 1.10 The City 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 City may reject all or any part of any Bid or waive technical requirements if the interests of the City so require. The City may 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. A responsible and qualified Bidder is one that meets the qualifications specified and is not suspended, debarred or in default under any contract with the City.
- 1.11 Where the Contract is proposed in separate sections or with alternatives, the City shall have the right to award any section separately or to choose any alternative which is in its best interests.
- 1.12 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. 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.
- 1.13 The Buyer will give notice of the award of the Contract by issuing a Purchase Order to the successful Bidder, or will give notice that no award will be made.
- 1.14 The Request for Quotation, including but not limited to the specifications, drawings and addenda, and the Contractor's Bid 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.
- 1.15 The name of the successful Bidder and the Contract amount will be made available, upon request, to Bidders only after award of Contract.

2. SCOPE OF WORK

- 2.1 The Work to be done under this Contract shall consist of the supply of labour and materials in accordance with applicable specifications, drawings and addenda.
- 2.2 The Contractor shall provide and pay for all labour, materials, equipment, tools, temporary works, utilities, licenses and fees necessary to complete the Work. Any work not explicit in the specifications, drawings and addenda, which is reasonably implied, necessary and usually included for such work, shall be deemed to be included in the Work.

3. MATERIALS & WORKMANSHIP

- 3.1 Materials and workmanship shall be fit for the purpose intended and shall equal or exceed the quality specified.
- 3.2 All materials to be incorporated in the Work shall be new.
- 3.3 The Contractor shall be responsible for the storage, transportation and handling of materials until the Work is accepted by the City.

4. ASSIGNMENT

- 4.1 The Contractor shall not assign the Contract or any payment thereunder without the prior written approval of the City.

5. SUBCONTRACTING

- 5.1 If the Contractor subcontracts any portion of the Work, he shall:
 - a) employ only Subcontractors who have successfully carried out work similar in nature, scope and value to the portion of the Work proposed to be subcontracted to them, or who are fully capable of performing the Work required to be done in accordance with the terms of the Contract;
 - b) enter into contracts or written agreements with his Subcontractors to require them to perform their work in complete conformance with and subject to the terms and conditions of the Contract; and
 - c) be as fully responsible to the City for acts and omissions of his Subcontractors and of persons directly or indirectly employed by them as for acts and omissions of persons directly employed by him.

6. INDEMNITY

- 6.1 The Contractor shall save harmless and indemnify the City against all costs, damages or expenses arising from actions, claims, demands and proceedings, by whomsoever brought, made or taken as a result of acts or omissions of the Contractor, his subcontractors, employees or agents in the performance or purported performance of the Work, and more particularly from:
 - a) accidental injury to or death of any person whether retained by or in the employ of the Contractor or not, arising directly or indirectly by reason of the performance of the Work, or by reason of any trespass on or damage to property;
 - b) damage to any property owned in whole or in part by the City, or which the City by duty or custom is obliged, directly or indirectly, in any way or to any degree, to construct, repair or maintain;
 - c) damage to, or trespass or encroachment upon, property owned by persons other than the City;
 - d) failure to pay and obtain a discharge of a notice of claim for lien served upon the City in accordance with the requirements of The Builders' Liens Act;
 - e) failure to pay a workers compensation assessment, or federal or provincial taxes;
 - f) unauthorized use of any design, device, material or process covered by letters patent, copyright, trademark or trade name in connection with the Work;
 - g) inaccuracies in any information provided to the City by the Contractor.
- 6.2 The City has the right, acting reasonably and upon notice to the Contractor, to settle any such action, proceeding, claim or demand and charge the Contractor with the amount so paid or to be paid in effecting a settlement.
- 6.3 The Contractor shall pay to the City the value of all legal fees and disbursements required to settle any such claim or to defend the City against any such claim, action, proceeding, claim or demand notwithstanding that the settlement or defence of the said action, proceeding, claim or demand was undertaken on behalf of the City by a salaried employee of the City.
- 6.4 If the Contractor fails to make any payment required to be made to the City hereunder, the City shall be entitled to deduct the amount of such payment from any payment required to be made by the City to the Contractor under the Contract or take whatever other remedies against the Contractor that the City may have at law.

7. EVENTS OF DEFAULT

- 7.1 An event of default will be deemed to have occurred if the Contractor:
 - a) abandons the Work; or
 - b) is adjudged bankrupt or files for bankruptcy, becomes insolvent, makes a general assignment for the benefit of his creditors, or has a receiver or liquidator appointed in respect of his assets; or
 - c) in the judgment of the City, is not performing or has not been performing the Work, or any part thereof, in a sound and workmanlike manner and in all respects in strict conformity with the Contract; or
 - d) in the judgment of the City, is not progressing continuously with the Work or any part thereof, and in such a manner as to ensure the completion of the Work or any part thereof, in accordance with the work schedule; or
 - e) fails to take down, rebuild, repair, alter or amend any defective or deficient Work, or to remove any defective or deficient material; or
 - f) fails to remedy defects or deficiencies during the warranty period in the manner and within the time periods specified by the City; or
 - g) fails to make prompt payment to his subcontractors, his employees or on account of the purchase or rental of equipment or materials; or
 - h) fails to promptly secure a discharge of a lien or trust claim served upon the City pursuant to The Builders' Liens Act; or
 - i) fails to comply with any laws, by-laws or statutory regulations; or
 - j) fails to provide competent supervision for the Work; or
 - k) fails to submit any schedules, documents or information required by the Contract; or
 - l) refuses or neglects to comply with an order given by the City;
 - m) commits any other breach of the Contract.
- 7.2 Any provision of the Contract may be waived only by express waiver in writing by the City. No express waiver of any provision shall imply the waiver of any other provision.
- 7.3 If an event of default has occurred, the City may do any one or more of the following:
 - a) withhold or retain the whole or part of any payment;
 - b) take the whole of the Work, or any part or parts thereof out of the hands of the Contractor;
 - c) demand payment for any amount owed to the City.
- 7.4 The duties and obligations imposed upon the Contractor by the Contract and the rights and remedies available to the City hereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed upon the Contractor or available to the City at law.

8. PRICES AND PAYMENT

- 8.1 Prices bid shall be gross prices including all applicable duty, freight, cartage, Provincial and Federal Taxes [except Goods and Services Tax (GST), which shall be extra where applicable] and all charges governmental or otherwise paid, and including profit and all compensation which shall be due to the Contractor.
- 8.2 If the Contractor charges GST, he must show his registration number and the amount of GST separately on the invoice.
- 8.3 Where The Builders' Liens Act is applicable to the Contract, payments will be subject to such holdbacks as are required to be made thereunder. Interest on holdback amounts will be credited, and holdback amounts will be released, in accordance with said Act.
- 8.4 Payment will be in Canadian funds net thirty (30) days from receipt of acceptable goods, or receipt and approval of the Contractor's invoice, whichever is later.

FORM H1: PERFORMANCE BOND

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:

RFQ NO. 626-2003

TEMPORARY SALT STORAGE FACILITY – 590 ST. ANNE’S ROAD

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)
)
) By: _____ (Seal)
) (Attorney-in-Fact)

**FORM H2: IRREVOCABLE STANDBY LETTER OF CREDIT
(PERFORMANCE SECURITY)**

(Date)

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

RE: PERFORMANCE SECURITY - **RFQ NO. 626-2003**

TEMPORARY SALT STORAGE FACILITY – 590 ST. ANNE’S ROAD

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)

SPECIFICATIONS

1. GENERAL

1.1 These Specifications shall be applicable to the Work and shall take precedence over the Terms and Conditions.

2. DEFINITIONS

2.1 When used in this Request for Quotation:

- (a) "**Business Day**" means any Calendar Day, other than a Saturday, Sunday, or a Statutory or Civic Holiday;
- (b) "**Buyer**" means the person authorized to represent the City in respect of the Request for Quotation;
- (c) "**Calendar Day**" means the period from one midnight to the following midnight;
- (d) "**Contract**" means the combined documents consisting of the Request for Quotation package and any documents and drawings referred to and incorporated therein together with any submissions required to be made by the Contractor after award, and all amendments to the foregoing;
- (e) "**Contract Administrator**" means the person authorized to represent the City in respect of the Contract and is the Buyer unless otherwise specified hereinafter;
- (f) "**Contractor**" means the person undertaking the performance of the Work under the terms of the Contract;
- (g) "**Site**" means the lands and other places on, under, in or through which the Work is to be performed;
- (h) "**Substantial Performance**" shall have the meaning attributed to it in The Builders' Liens Act (Manitoba), or any successor legislation thereto;
- (i) "**Total Performance**" means that the entire Work, except those items arising from the provisions of any warranty, have been performed in accordance with the Contract;
- (j) "**Work**" means the carrying out and the doing of all things, whether of a temporary or permanent nature, that are to be done by the Contractor pursuant to the Contract and, without limiting the generality of the foregoing, includes the furnishing of all equipment, facilities, material, labour and services necessary for or incidental to the fulfilment of the requirements of the Contract;
- (k) "**Working Day**" means any Calendar Day, other than a Saturday, Sunday or a Statutory or Civic Holiday, on which the Contract Administrator determines atmospheric and Site conditions are such that the Contractor is able to work at least seven (7) hours.

2.2 Further to 2.1(e), the Contract Administrator is:

Randy Harwood
Project Officer
Planning, Property and Development Department
3rd Floor – 65 Garry Street
Phone: 986-2561
Fax: 947-2284

3. WORK

3.1 The Contractor shall construct a Salt Storage Facility within an existing warehouse at 590 St. Anne's Road in accordance with the requirements attached.

4. SITE INVESTIGATION

4.1 Further to 1.3 of the Terms and Conditions, this Bidder is responsible for investigating the Site, the nature of the Work to be done and all local conditions that might affect his Bid or his performance of the Work, including:

- (a) the location of any utility which can be determined from the records or other information available at the offices of any public authority or person, including a municipal corporation and any board or commission thereof, having jurisdiction or control over the utility;
- (b) the nature of the surface and subsurface conditions at the Site;

- (c) the location, nature, quality or quantity of the materials to be removed or to be employed in the performance of the Work;
- (d) the nature, quality or quantity of the equipment needed to perform the Work;
- (e) all matters concerning access to the Site, power supplies, location of existing services, utilities or materials necessary for the completion of the Work; and
- (f) all other matters which could in any way affect the performance of the Work;

and shall assume all risk for conditions existing or arising in the course of the Work which have been or could have been determined through such investigation.

4.2 The Bidder shall not rely upon information furnished by the City or any of its servants or agents other than information furnished in writing for or in connection with the Bid or the Contract by the Buyer or the Contract Administrator.

4.3 Further to 1.3 of the Terms and Conditions, the Bidder may make an appointment to view the Site by contacting Mark Kuznak at 986-5394.

5. SCHEDULE OF WORK

5.1 The Contractor shall achieve Total Performance within forty (40) Calendar Days of the award of Contract.

5.2 Work shall be performed between 8:30 a.m. and 4:30 p.m. on Business Days.

6. ADDENDA

6.1 The Buyer may, at any time prior to the Submission Deadline, issue addenda correcting errors, discrepancies or omissions in the Request for Quotation, or clarifying the meaning or intent of any provision therein.

6.2 The Buyer will issue each addendum to all Bidders by:

- (a) publication at the Materials Management Division's Bid Opportunities internet website at <http://www.winnipeg.ca/matmgt/bidopp.asp>.

6.3 The Bidder is responsible for ensuring that he/she has received all addenda and shall acknowledge receipt of each addendum on the Request for Quotation cover page. Failure to acknowledge receipt of an addendum may render a Bid non-responsive.

6.3.1 The Bidder is advised to check the Materials Management Division's Bid Opportunities internet website for addenda shortly before submitting his/her Bid.

7. BID SUBMISSION

7.1 The Bid Submission consists of the following components:

- (a) Request for Quotation cover page completed and signed;

7.2 Bids may be submitted by:

- (a) mail, courier or personal delivery to the address shown on the Request for Quotation cover page; or
- (b) facsimile transmission (fax) to (204) 949-1178.

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

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

8. PRICES

8.1 The Bidder shall state the lump sum price in Canadian funds for the Work on the RFQ Cover Page.

9. INVOICES

- 9.1 The Contractor shall submit invoices to the location designated on the Purchase Order.
- 9.2 Invoices must clearly indicate, as a minimum:
- (a) the City's Purchase Order (PO) number;
 - (b) date(s) of Work;
 - (c) Site(s) or address(s) of Work;
 - (d) description, quantity and unit price(s) of Work performed;
 - (e) total amount payable with GST and PST, where applicable, shown as separate amounts; and
 - (f) where applicable, the Contractor's GST registration number.
- 9.3 The City will bear no responsibility for delays in approval of invoices that are improperly submitted.

10. WARRANTY

- 10.1 The Contractor warrants that the Work will be free of any and all defects or deficiencies for a period of one (1) year from the date of Total Performance.
- 10.2 Upon notification by the Contract Administrator, the Contractor shall, at his/her sole cost and expense, remedy any defect or deficiency identified by the Contract Administrator during the warranty period and any damage that may arise or result from the defect or deficiency or as a result of the correction of same.
- 10.3 Notwithstanding 10.1 and 10.2 above, if any statute in force in the Province of Manitoba or in the jurisdiction where materials were manufactured requires, or if the manufacturer provides, a longer warranty period or a warranty that is more extensive in its nature, then the provisions of such statute or manufacturer's warranty shall apply.

11. INSURANCE

- 11.1 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) all inclusive, with The City of Winnipeg being added as an additional insured, with a cross-liability clause, such liability policy to also contain a contractual liability, an unlicensed motor vehicle liability and a products and completed operations endorsement to remain in place at all times during the performance of the Work and throughout the warranty period;
 - (b) automobile liability insurance for owned and non-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.
- 11.2 Deductibles shall be borne by the Contractor.
- 11.3 The Contractor shall provide the Contract Administrator with a certified true copy or a certificate of insurance of each policy at least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than seven (7) Calendar Days from notification of the award of Contract.
- 11.4 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.

12. WORKERS COMPENSATION

- 12.1 The Contractor shall be registered with the Workers Compensation Board of Manitoba, shall provide and maintain Workers Compensation coverage throughout the term of the Contract, and shall provide the Contract Administrator with evidence thereof upon request.

13. PERFORMANCE SECURITY

- 13.1 If the Contract Price exceeds twenty-five thousand dollars (\$25,000.00), 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 (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 Manitoba, in the form attached (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.
- 13.2 The Contractor shall provide the Contract Administrator with the required Performance Security at least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than seven (7) Calendar Days from notification of the award of Contract.
- 13.3 The City will not pay any interest on certified cheques furnished as a Performance Security.

14. EVALUATION CRITERIA

- 14.1 Award of this Contract will be based on the following evaluation criteria:
- (a) conformance of the Bid with the requirements of the RFQ pass/fail;
 - (b) qualifications of the Bidder pursuant to 1.10 of the Terms and Conditions pass/fail;
 - (c) total contract price 100%.
- 14.2 Further to 14.1(a), the Bidder shall, within two (2) Business Days of a request by the Buyer, provide representative samples of the materials proposed to be used in the Work.
- 14.3 Further to 14.1(b), the Bidder shall:
- (a) submit, within two (2) Business Days of a request by the Buyer, proof satisfactory to the Buyer of the qualifications of the Bidder and of any proposed subcontractor;
 - (b) provide, on the request of the Buyer, full access to any of the Bidder's equipment and facilities to confirm, to the Buyer's satisfaction, that the Bidder's equipment and facilities are adequate to perform the Work.
- 14.4 Further to 14.1(c), total contract price will be evaluated considering early payment discounts if offered.

SELECTIVE DEMOLITION

Part 1 GENERAL

1.1 REQUIREMENTS INCLUDED

- .1 Alteration project procedures.
- .2 Removal of designated building equipment and fixtures.
- .3 Removal of designated construction.
- .4 Identification of utilities.
- .5 Refer to items as indicated on drawings.

1.2 ALTERATION PROJECT PROCEDURES

- .1 Materials: As specified on drawings; match existing products and Work for patching and extending Work.
- .2 Employ skilled and experienced installer to perform alteration Work.
- .3 Close openings in exterior surfaces to protect existing Work from weather and extremes of temperature and humidity.
- .4 Remove, cut, and patch Work in a manner to minimize damage and to provide means of restoring products and finishes to original or specified condition.
- .5 Where new Work abuts or aligns with existing, provide a smooth and even transition. Patch Work to match existing adjacent Work in texture and appearance.
- .6 When finished surfaces are cut so that a smooth transition with new Work is not possible, terminate existing surface along a straight line at a natural line of division.
- .7 Patch or replace portions of existing surfaces which are damaged, lifted, discoloured, or showing other imperfections.

1.3 PROJECT CONDITIONS

- .1 Conduct demolition to minimize interference with adjacent building areas.
- .2 Cease operations immediately if structure appears to be in danger and notify Contract Administrator. Do not resume operations until directed.

Part 2 PRODUCTS

Not Used

Part 3 EXECUTION

3.1 PREPARATION

- .1 Provide, erect, and maintain temporary insulated partitions at locations indicated.
- .2 Erect and maintain weatherproof closures for exterior openings.
- .3 Protect existing materials which are not to be demolished.
- .4 Prevent movement of structure; provide bracing and shoring.
- .5 Notify affected utility companies before starting Work and comply with their requirements.
- .6 Mark location and termination of utilities.

SELECTIVE DEMOLITION

3.2 DEMOLITION

- .1 Demolish in an orderly and careful manner. Protect existing supporting structural members.
- .2 Remove demolished materials from site except where specifically noted otherwise. Do not burn or bury materials on site.
- .3 Remove materials as Work progresses. Upon completion of Work, leave areas in clean condition.
- .4 Remove temporary Work.

PORTLAND CEMENT CONCRETE PAVING

Part 1 GENERAL**1.1 SECTION INCLUDES**

- .1 Concrete apron at overhead door.
- .2 Aggregate base course.

1.2 RELATED SECTIONS

- .1 Section 07900 – Joint Sealers: Sealant for joints.

1.3 REFERENCES

- .1 ACI 304 – Guide for Measuring, Mixing, Transporting and Placing Concrete.
- .2 ASTM A497 – Steel Welded Wire Reinforcement, Deformed for Concrete.
- .3 ASTM A615/A615M – Deformed and Plain Billet-Steel Bars for Concrete Reinforcement.
- .4 ASTM C33 – Concrete Aggregates.
- .5 ASTM C94/C94M – Ready Mix Concrete.
- .6 ASTM C150 – Portland Cement
- .7 ASTM C260 – Air-Entraining Admixtures for Concrete.
- .8 ASTM D1751 – Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Nonextruding and Resilient Bituminous Types).

1.4 QUALITY ASSURANCE

- .1 Obtain cementitious materials from same source throughout.

1.5 ENVIRONMENTAL REQUIREMENTS

- .1 Do not place concrete when base surface temperature is less than 4 degrees C, or surface is wet or frozen.

Part 2 PRODUCTS**2.1 FORM MATERIALS**

- .1 Wood form material, profiled to suit conditions.

2.2 REINFORCEMENT

- .1 Reinforcing Steel and Wire Fabric: Type specified in Section 03200.

2.3 CONCRETE MATERIALS

- .1 Concrete Materials: As specified in Section 03300.
- .2 Fine and Coarse Mix Aggregates: ASTM C33.
- .3 Water: Potable, not detrimental to concrete.
- .4 Air Entrainment: ASTM C260.

2.4 CONCRETE MIX – BY PRESCRIPTIVE CRITERIA

- .1 Provide concrete to the following mix design: Section 03300.

PORTLAND CEMENT CONCRETE PAVING

- .2 Use accelerating admixtures in cold weather only when approved by Contract Administrator. Use of admixtures will not relax cold weather placement requirements.
- .3 Use calcium chloride only when approved by Contract Administrator.
- .4 Use set retarding admixtures during hot weather only when approved by Contract Administrator.

Part 3 EXECUTION**3.1 SUBBASE**

- .1 As per drawings.

3.2 PREPARATION

- .1 Moisten base to minimize absorption of water from fresh concrete.
- .2 Notify Contract Administrator minimum 24 hours prior to commencement of concreting operations.

3.3 FORMING

- .1 Place and secure forms to correct location, dimension, profile, and gradient.
- .2 Assemble formwork to permit easy stripping and dismantling without damaging concrete.
- .3 Place joint filler vertical in position, in straight lines. Secure to formwork during concrete placement.

3.4 REINFORCEMENT

- .1 Place reinforcement as indicated on drawings.
- .2 Interrupt reinforcement at joints.
- .3 Place dowels and reinforcement to achieve pavement and curb alignment as detailed.

3.5 PLACING CONCRETE

- .1 Place concrete in accordance with ACI 301 as specified in Section 03300.

3.6 JOINTS

- .1 Place joint filler between paving components and building or other appurtenances. Recess top of filler 6mm (1/4 inch) for all construction joints.

3.7 FINISHING

- .1 Paving: Light broom.

3.8 JOINT SEALING

- .1 Separate pavement from vertical surfaces with 11 ½ inch thick joint filler.
- .2 Place joint filler in pavement pattern placement sequence. Set top to required elevations. Secure to resist movement by wet concrete.

3.9 PROTECTION

- .1 Immediately after placement, protect pavement from premature drying, excessive hot or cold temperatures, and mechanical injury.

PORTLAND CEMENT CONCRETE PAVING

- .2 Do not permit pedestrian / vehicular traffic over pavement for 7 days minimum after finishing. Until 75 percent design strength of concrete has been achieved.

CONCRETE REINFORCEMENT

Part 1 GENERAL

1.1 WORK INCLUDED

- .1 Supply and install all reinforcing steel as shown on the drawings for curbs, slabs, structural and on grade, entry platforms and ramps.
- .2 Chairs, hangers, ties, spacers.

1.2 REFERENCE STANDARDS

- .1 CSA A23 Standards for concrete and reinforced concrete.
- .2 CSA W186 Welding of Reinforcing.

1.3 SHOP DRAWINGS

- .1 Submit shop drawings.

Part 2 PRODUCTS

2.1 MATERIALS

- .1 Reinforcing bars, deformed billet steel intermediate grade to CSA G30.
- .2 Bar supports, spacers, steel adequate for strength and rigidity.
- .3 Reinforcing shall be factory epoxy coated where indicated on the drawings.

Part 3 EXECUTION

3.1 PLACING REINFORCEMENT

- .1 The bars shall be placed in the exact position and with the spacing shown or required and shall be securely fastened in place at intersections to prevent displacement during the placing of concrete. The bars shall be fastened with annealed wire or other approved devices. Bar supports and spaces shall be set at approved intervals in all beams and slabs to keep the reinforcement in the required position.
- .2 All steel reinforcement shall be delivered free from rust other than that which may have accumulated during transit to the Work. Bars having a rust, scale, or other material that may reduce the bond shall be thoroughly cleaned before placing concrete. After delivery at the Work, bars shall be stored on racks and protected from the weather.
- .3 Steel reinforcement bars shall be cut and bent cold in the shop and delivered at the Work Site ready for placing in position.
- .4 Complete detailed placing drawings and schedules shall be submitted by the Contractor to the Contract Administrator for approval. No material shall be ordered until the Contract Administrator has approved said drawings and schedules.

CAST-IN-PLACE CONCRETE

Part 1 GENERAL**1.1 WORK INCLUDED**

- .1 Concrete Work including, curbs, slabs and ramps.
- .2 Formwork, void forms.
- .3 Accessories - control joints, inserts.
- .4 Coordinate and cooperate with other trades. Install imbedded items, sleeves, anchors, miscellaneous metal.

1.2 RELATED WORK (specified elsewhere)

- .1 Concrete Reinforcement Section 03200

1.3 REFERENCE STANDARDS

- .1 CSA A23 Standards for Concrete-Reinforced Concrete.

1.4 WARRANTY

- .1 All concrete floors shall be warranted against dusting, disintegration or any other defects coming within the Contractor's control for a period of 12 months after final acceptance.

Part 2 PRODUCTS**2.1 MATERIALS**

- .1 Cement: to CSA A5 - Use sulphate resistant cement (Type V) in beams below grade.
- .2 Water and aggregates: to CSA A23.

2.2 CONCRETE MIX

- .1 Except where drawings show other strengths, concrete mix shall be designed to produce 30MPa compressive strength at 28 days.
- .2 Slump: 100mm for curbs and slabs unless otherwise shown on drawings.
- .3 Admixtures to be approved by Contract Administrator. Use of calcium chloride not permitted.
- .4 Exterior concrete shall have 5 – 7% air content.

Part 3 EXECUTION**3.1 CONCRETE**

- .1 Contractor shall provide a minimum of 24 hours (Working Day) notice to Contract Administrator prior to any concrete placement to allow for inspection and concrete test arrangements.
- .2 Existing exposed reinforcing shall be sandblasted to a grey metal blast, and coated with one heavy coat of two component epoxy paint such as Dural 304.
- .3 Before placing concrete, all equipment for transporting the concrete shall be cleaned of hardened concrete and foreign materials. All debris and ice shall be removed from the places to be occupied by the concrete. All forms shall be soaked with water, except in freezing weather. Chemicals shall not be used to remove ice from the hardened concrete or the forms.

CAST-IN-PLACE CONCRETE

- .4 Concrete shall be handled from the mixer to the place of final deposit as rapidly as practicable, by methods which will prevent the separation or loss of the ingredients. Concrete shall be deposited in the forms, as nearly as practicable, in its final position to avoid rehandling or flowing. Under no circumstances shall concrete that has partially hardened be deposited in the forms.
- .5 When concreting is once started, it shall be carried on as a continuous operation until the placing of the section is completed.
- .6 Concrete shall be thoroughly compacted by puddling with suitable tools, during placing operations. It shall be thoroughly worked around the reinforcement, imbedded fixtures, and into the corners of the forms.
- .7 Concrete in walls and tie beams shall be compacted by internal and external mechanical vibrations. Concrete slabs and beams shall be compacted by internal vibrations. Internal vibrators shall operate at a speed of not less than 5,000 vibrations per minute and shall be applied at the point of deposit and in the area of freshly placed concrete.
- .8 Concrete in columns shall be placed through galvanized iron chutes. Chutes shall be of such length and so placed that the concrete does not have a free fall or more than 1500mm. Concrete shall not be raised at a rate of more than 1000mm per hour.
- .9 Pouring concrete during rain will not be permitted. The concrete surfaces shall be protected from rain until the initial set occurs. No concrete to be placed over frozen ground or fill.
- .10 All exposed concrete surfaces shall be covered and protected for proper concrete curing. Slabs shall be well watered and covered with burlap or polyethylene for a minimum of five (5) days.
- .11 As soon as forms are stripped, all exposed concrete surfaces shall be carefully inspected, mortar projections removed and projecting forming devices removed at least 15mm below surface and patched. Honeycomb areas shall be chipped out to sound concrete, area thoroughly wetted and patched with a mortar. The patch should be kept wet for five (5) days to reduce shrinkage. If honeycombing is excessive, the Contract Administrator may reject the member in question and it shall be replaced by the Contractor.

3.2 COLD WEATHER PROTECTION

- .1 The concrete shall reach the forms at a temperature of not less than 20°C and not more than 38°C. Effective means shall be provided for maintaining the temperature of the concrete at all surfaces at not less than 20°C for three (3) days or not less than 10°C for five (5) days after placing.
- .2 Concrete shall be kept above freezing for seven (7) days and shall be kept from alternate freezing and thawing for at least fourteen (14) days after placement.
- .3 At the end of the specified protection period, the temperature of the concrete shall be reduced gradually at a rate not exceeding 10°C per day until the outside air temperature has been reached.
- .4 The Contractor must keep a record of the temperatures inside the enclosure and the outside air temperature. The record shall include the temperatures at several critical points in the enclosure.
- .5 CSA combustion type heaters may be used but shall be so constructed and so placed that their combustion gases will not come in contact with surfaces of the concrete. Adequate fire extinguisher and constant attendance shall be maintained to ensure a safe and continuous heating operation. Heaters must be so placed as to prevent local overheating. No direct fired heating units will be accepted. Before any concrete is placed, the enclosure shall be heated for at least twenty four (24) hours and all surfaces coming in contact with the concrete must be at least 5°C.

CAST-IN-PLACE CONCRETE**3.3 CONCRETE FINISHING**

- .1 Unless otherwise shown, all concrete surfaces shall receive an ordinary finish. Normally, after forms are removed, concrete fins and projections are to be removed, all form ties filled and all defects repaired.

3.3 CONTROL JOINTS

- .1 Provide full depth by 13mm wide impregnated fiberboard control joint in floor slabs where indicated on drawings. The material to be kept 13mm below finish floor. Seal top of control joint with Seal-Z caulking or approved equal.
- .2 Provide sawcuts twenty percent (20%) of floor slab thickness where shown on drawings.

3.4 FIELD QUALITY CONTROL

- .1 A set of field specimens shall be prepared for approximately each day's run of concrete, or more often if required by the Contract Administrator. Generally the number of sets or cylinders required shall be as follows:

<u>Size of Pour</u>	<u>Minimum of Tests</u>
76m ³ or less	1 set per 38m ³
76 to 760m ³	1 set per 153m ³

A set shall consist of four specimens from the same batch of concrete as it goes into the Work. Two of the specimens shall be tested at seven (7) days and the remaining two at twenty eight (28) days. The specimens shall be cylinders 150mm in diameter and 300mm in length.

The concrete test specimens shall be transported by the General Contractor, at his own expense, not earlier than twenty four (24) hours or later than four (4) days after they are made to the National Testing Laboratories, Winnipeg. The cost of laboratory tests shall be paid by the City.

- .2 The following strengths shall be met:
- .1 The average of all tests representing each class of concrete shall exceed the specified strength.
- .2 No three consecutive tests shall fall below the specified strength.
- .3 No strength test shall fall below eighty percent (80%) of the specified strength.
- .3 If the concrete tests fail to meet the strength requirements, the Contract Administrator may:
- .1 Change the basic concrete mix for the remainder of the Work.
- .2 Require additional curing for the portions under strength.
- .3 Have cores drilled and test the cores.
- .4 Have the concrete under strength removed.

MASONRY

Part 1 GENERAL**1.1 WORK INCLUDED**

- .1 All masonry Work shown on the drawings specified herein and required for a complete job including items listed herein.
- .2 All masonry, reinforcing and concrete fill in block walls as called for on drawings.
- .3 Supply and setting of wall ties, masonry reinforcement, bolts, anchors and sleeves in masonry where shown.
- .4 Supply and anchoring of wood blocking in masonry walls where shown.
- .5 Installation of all flashing shown or required.
- .6 Installation of all metal door frames in masonry walls.
- .7 Installation of all duct and chase openings in masonry Work.
- .8 Raking or tooling of joints.
- .9 Cleaning of masonry Work upon completion.
- .10 Building in items supplied by other trades.
- .11 Control joints as indicated on drawings.
- .12 Cut and patch existing brick masonry for all new openings as required.

1.2 RELATED WORK (specified elsewhere)

- .1 Supply of Concrete Reinforcing Section 03200

1.3 HANDLING AND STORAGE

1. Stock bricks and blocks on platforms, cover or store in an approved manner that will protect brick or block from contact with soil, and/or weather. Thaw frozen materials prior to use. Drain wet materials twelve (12) hours before use. Maintain materials in original cartons until used.

Part 2 PRODUCTS**2.1 MATERIALS**

- .1 Concrete block shall be standard weight and shall conform to latest revision of ASTM C-90 specification for Concrete Masonry Units as shown on the drawings, to metric dimensions.
- .2 Wall reinforcement - Dur-o-Wall, Wal-lock or approved equal, (galvanized) where indicated or noted on the drawings. Every third course and course above all openings.
- .3 Wall ties - as per building code.
- .4 Portland Cement - normal Portland Cement to CSA A5.
- .5 Masonry Cement - CSA A8.
- .6 Lime - Fine putty or hydrated lime for masonry to CSA A82.43.

MASONRY

- .7 Sand - Clean, sharp, coarse, free from clay and foreign materials. pass No. 10 mesh sieve.
- .8 Water - clean, free from acid, alkali, oil and organic materials.
- .9 Waterproofing additives for lime masonry mortars shall be:
 - a) Hydrated Plus - A.C. Horn
 - b) Sterad #300 - Sternson
 - c) Omicron - Master Builders
 - d) Hydroxide Power - Sonneborne Ltd.
- .10 Cement-Lime Mortar - Shall be one part Portland Cement, one part lime putty, and six parts sand by volume.
- .11 Masonry Cement Mortar - Shall be one part masonry cement and three parts sand by volume.

2.2 MIXING MORTARS

- .1 Use method of measuring materials on job so that specified proportions of mortar materials can be controlled, accurately maintained during Work progress.
- .2 Unless otherwise specified, proportions by volume.
- .3 Add water to hydrated lime at least twenty four (24) hours before mixing it with other materials.
- .4 Prepare mortars in which Portland and other quick setting cements are used in batches of volume that will be used before initial set takes place, in no case longer than forty five (45) minutes before delivery to masons' mortar boards at points of use. Retempering is not permitted.
- .5 Except as otherwise approved for small batches do mixing in mechanically operated batch mixers of drum type in which water can be accurately, uniformly controlled. Allow at least five (5) minutes mixing time, two (2) minutes for mixing dry materials, three (3) minutes for continuing mixing after water has been added. Do not permit volume of mixed material per batch to exceed manufacturer's rated capacity of mixer drum in cubic feet of mixed material. Empty drum completely before placing succeeding batch therein.
- .6 Where hydrated lime is used for mortars requiring lime content, contractor may use dry mix method of first converting hydrated lime into putty.
- .7 Where hand mixing is permitted, use tight mortar mixing box. Where dry mix method is used, rake, turn over materials indicates that cementitious materials have been distributed thoroughly throughout mass after which gradually add water until thoroughly mixed mortar of required plasticity is obtained.
- .8 Keep mixers, wheelbarrows clean. Do not deposit mortar upon or permit contact with ground.
- .9 Prepare pointing mortar with as dry consistency as will produce mortar sufficiently plastic to be worked into joints.
- .10 Mix waterproofing agents, additives specified to meet requirements and in accordance with manufacturer's literature.
- .11 Mortar shall be natural colour.

MASONRY

Part 3 EXECUTION**3.1 WORKMANSHIP**

- .1 First class workmanship only. Particular care shall be exercised in lay-up to prevent spills, splashes and excess mortar drippings. Clean up immediately any splotches or stains. Protect adjacent completed Work.
- .2 Keep brick and block damp when laid, shove block brick place in full mortar bed. Fill completely horizontal and vertical joints with mortar when and as laid.
- .3 Grout solid around all steel beams, columns, lintels, anchors and inserts.
- .4 Lay true to line horizontally and vertically.

3.2 LAYING CONCRETE MASONRY UNITS

- .1 Lay concrete masonry units with webs and face shell in mortar bedding in rectangular bond, properly jointed with connecting Work. Make all joints uniform, approximately 10mm wide square raked. Bond blockwork to backing with metal ties.
- .2 Where one wall of masonry intersects or abuts and serves as lateral support for another wall of masonry, the two walls shall be bonded:
 - .3 by laying in true bond, fifty percent (50%) of the units of each wall at the intersection when the walls are built up together; or
 - .4 by causing the first wall laid up to be regularly toothed or blocked at the intersection with offsets not less than 100mm and by laying in corrosion-resistant metal ties at a maximum spacing of 100mm when the second wall is laid up.
- .5 Provide special lintel blocks for cast-in-place lintels, filled solid with concrete and reinforced with steel rods as called for on drawings.
- .6 Where concrete block walls are to remain exposed, blocks shall be laid true to line, horizontally and vertically, joints covered. No chipped or broken block will be allowed on these walls.
- .7 Where wood joist, steel joist or concrete slabs bear on concrete block walls, fill cores of last row of blocks to provide solid bearing or provide solid lintel blocks for last course.
- .8 Steel beams resting on masonry walls shall have a minimum bearing of 200mm unless otherwise noted. Bearing shall be solid block laid in cement mortar for a length equal to twice the width of the bearing and for a depth equal to the width of the bearing.
- .9 Unless shown or called for otherwise, all concrete block shall be laid in running bond and in strict accordance with the local codes.
- .10 All exposed concrete block which requires cutting shall be done with a Carborundum blade saw. No broken or chipped blocks will be allowed.

3.3 PRECAUTIONS AND PROTECTION

- .1 Do not lay masonry in freezing weather unless suitable means are provided to heat materials, protect Work from cold and frost, ensure that mortar will harden without freezing. Any Work found to be damaged by frost must be taken down and rebuilt to the Engineer's direction.
- .2 Protect facing materials against staining and keep top of wall covered with non-staining waterproof coverings when Work is not in progress. When Work is resumed, top surface of Work shall be cleaned of all loose mortar, and in drying weather, thoroughly wet down.

MASONRY

- .3 No material shall be stacked on any part of structure in such quantities to set up a strain beyond safe limits, and particular care shall be taken not to load any green or unsupported structure that has not aged or become set to the point of full strength.
- .4 Masonry shall be protected against freezing for at least forty eight (48) hours after being laid. Unless adequate precaution against freezing is taken, no masonry shall be laid when the temperature is below zero degrees C., on a rising temperature or below four degrees C. on a falling temperature. No construction shall be built on frozen soil or masonry.
- .5 Masonry walls in locations where they may be exposed to high winds during construction shall not be built higher than ten times their thickness unless adequately braced.

3.4 POINTING AND CLEANING

- .1 On completion, point up all exposed masonry, fill all holes and joints, remove loose mortar, cut out defective joints, and repoint wherever necessary. Masonry surfaces to be exposed, either painted or unpainted, shall be thoroughly cleaned. Use a detergent and water solution to clean all exterior brickwork. Leave surfaces free from mortar and other stains at completion of Work.

JOINT SEALERS

Part 1 GENERAL

1.1 WORK INCLUDED

- .1 Caulking of overhead doorframes and construction joints.
- .2 Caulking of construction joints.

1.2 RELATED WORK

- .1 Portland Cement Concrete Paving

Section 02751

Part 2 PRODUCTS

2.1 PRODUCTS

- .1 Primer and recommended by sealant manufacturer.
- .2 Joint fillers compatible with primers and sealants as recommended by sealant manufacturer.
- .3 Sealants: to CGS 19-GP-5.

Part 3 EXECUTION

3.1 PREPARATION

- .1 Clean and prepare surfaces to sealant manufacturer's instructions.
- .2 Examine joint sizes and correct to achieve depth ratio for 1/2 of joint width with minimum width and depth of 6mm, maximum width 25mm.
- .3 Install joint filler to achieve correct joint depth.
- .4 Prime sides of joints to manufacturer's instructions immediately prior to caulking.

3.2 APPLICATION

- .1 Apply sealants, primers, joint fillers to manufacturer's instructions.
- .2 Apply sealant to joints between overhead door frames and adjacent building components.

MINOR ELECTRICAL DEMOLITION FOR REMODELING

Part 1 GENERAL**1.1 SECTION INCLUDES**

.1 Electrical demolition.

1.2 RELATED SECTIONS

.1 Section 01960 – Minor Demolition for Remodeling.

Part 2 PRODUCTS**2.1 MATERIALS AND EQUIPMENT**

.1 Materials and equipment for patching and extending Work: As specified in individual sections and drawings.

Part 3 EXECUTION**3.1 EXAMINATION**

.1 Verify field measurements and circuiting arrangements are as shown on Drawings.

.2 Verify that abandoned wiring and equipment serve only abandoned facilities.

.3 Demolition Drawings are based on casual field observations. Report discrepancies to Contract Administrator before disturbing existing installation.

.4 Beginning of demolition means installer accepts existing conditions.

3.2 PREPARATION

.1 Disconnect electrical systems in walls, floors, and ceilings scheduled for removal.

.2 Coordinate utility service outages with utility company.

.3 Provide temporary wiring and connections to maintain existing systems in service during construction. When Work must be performed on energized equipment or circuits, use personnel experienced in such operations.

.4 Existing Electrical Service: Maintain existing system in service until new system is complete and ready for service. Disable system only to make switch overs and connections.

.5 Existing Fire Alarm System: Maintain existing system in service until new system is accepted. Disable system only to make switch overs and connections.

3.3 DEMOLITION AND EXTENSION OF EXISTING ELECTRICAL WORK

.1 Remove, relocate, and extend existing installations to accommodate new construction.

.2 Remove abandoned wiring to source of supply.

.3 Remove exposed abandoned conduit, including abandoned conduit above accessible ceiling finishes. Cut conduit flush with walls and floors, and patch surfaces.

.4 Disconnect abandoned outlets and remove devices. Remove abandoned outlets if conduit servicing them is abandoned and removed. Provide blank cover for abandoned outlets which are not removed.

.5 Repair adjacent construction and finishes damaged during demolition and extension Work.

.6 Maintain access to existing electrical installations which remain active. Modify installation or provide access panel as appropriate.

MINOR ELECTRICAL DEMOLITION FOR REMODELING

.7 Extend existing installations using materials and methods compatible with existing electrical installations.

3.4 CLEANING AND REPAIR

.1 Clean and repair existing materials and equipment which remain or are to be reused.