Project:
ST. CLAIR CATHOLIC DISTRICT SCHOOL BOARD

ST. MICHAEL CATHOLIC SCHOOL, RIDGETOWN
PLAYGROUND ASPHALT REPLACEMENT

ROA Project contact:   Joseph Ouellette
                      joseph@roastudio.com

ARCHITECTURAL SPECIFICATIONS
ROA Project ID:   ROA 19-011
Client Project ID:   SCCDSB 640-CP1915

Closing Date:   April 25, 2019
Closing Time:   until 2:00:00 pm. Local Time
Closing Location:
ST. CLAIR CATHOLIC DISTRICT SCHOOL BOARD
CEC- Board Office
420 Creek Street,
Wallaceburg, ON N8A 4C4

Mandatory Site Visit:   April 11, 2019 at 1:00 pm.
Site Location:   25 Maple Street, Ridgetown, ON
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END OF SECTION
BID DUE DATE: April 25, 2019 until 2:00:00 p.m. local time

PROJECT NAME: St. Michael Catholic School, Ridgetown
Playground Asphalt Replacement

NOTE: This checklist is provided for the convenience of the Bidder to ensure that all required documents have been completed and enclosed in an envelope clearly marked as to the contents. Please check items required and return with your Bid

☐ Bid submitted in one envelope.

☐ Appendices A, B, C to Bid Form, submitted with Bid Form

☐ Bid Bond included

☐ correct Bid Form (as provided)

☐ properly signed and sealed (Corporate Seal or noted "I have the authority to Bid the Corporation")

☐ Workplace Safety and Insurance Board Certificate included

☐ Insurance certificate included

☐ list of sub-contractors filled in

☐ number of ADDENDA received indicated on Bid Form

________________________________________
Signed by Bidder
Part 1  General

1.1 INVITATION  

.1 Request for Bids:  

.1 Ensure offers are signed under seal, executed, and dated and are received at the Reception Desk of St. Clair Catholic District School Board CEC- Board office, 420 Creek Street, Wallaceburg, Ontario, until 2:00:00 pm local time, as determined on the Official Tender Clock at the Reception desk, on April 25, 2019.  

.2 A Bid that is time stamped 2:00:00 pm is acceptable; a Bid time stamped 2:00:01 pm is considered late and non-compliant and will be returned to Bidder unopened.  

.3 On the same day, immediately following the closing, the bids will be opened and read publicly at the above noted address.  

.4 Amendments to submitted offer will be permitted if received in writing prior to Bid closing and if endorsed by same party or parties who signed and sealed offer.

1.2 INTENT  

.1 Intent of this Bid call is to obtain an offer to perform Work to complete asphalt replacement at St. Michael Catholic School, 25 Maple Street, Ridgetown, ON for Stipulated Price contract, in accordance with Contract Documents.

.2 for Stipulated Price contract, in accordance with Contract Documents.

1.3 CONTRACT DOCUMENTS IDENTIFICATION  

.1 Contract Documents are identified as Project ID number 19-011 as prepared by the Consultant, ROA studio inc. located at 67 King Street West, Chatham, Ontario.

1.4 CONTRACT/REQUEST FOR BID DOCUMENTS

.1 The successful Bidder will be issued a CCDC2-08 by the St Clair Catholic District School Board

.2 Definitions:


.2 Bid Document: Contract Documents supplemented with Instructions to Bidders, and Bid Form.

.3 Bid, Offer, or Bidding: act of submitting an offer under seal.

.4 Bid Price: monetary sum identified in Bid Form as an offer to perform Work.
.3 Availability:

.1 Bid Documents may be obtained by General Contractors and Subtrade bidders in electronic format on:
   .1 St. Clair Catholic District School Baord website (www.st-clair.net)
   .2 and Biddingo.com
   .3 Lambton Area Builders Exchange
   .4 London and District Construction Association
   .5 Sarnia Construction Association
   .6 Windsor Construction association

.2 Bids will not be received from bidders who do not attend the mandatory Site Visit.

.3 Bid Documents are made available only for purpose of obtaining offers for this project. Their use does not confer license or grant for other purposes.

.4 Examination:

   .1 Bid Documents may be viewed in electronic format.

   .2 Bid Documents are on display at the offices of Windsor, London and Sarnia Construction Associations as well at the Lambton Area Builders Exchange.

   .3 Upon receipt of Bid Documents verify that documents are complete.

   .4 Immediately notify the Consultant upon finding discrepancies or omissions in Bid Documents.

.5 Queries/Addenda:

   .1 Direct questions to Tony Prizio, St. Clair Catholic District School Board by e-mail at tony.prizio@st-clair.net and Victoria Iaccino at victoria.iaccino@st-clair.net

   .2 Addenda may be issued during Bidding period. Addenda will become part of Contract Documents. Include costs in Bid Price.

   .3 Verbal answers are only binding when confirmed by written addenda.

   .4 Clarifications requested by Bidders must be in writing not less than 72 hours (3) days before date set for receipt of Bids. Reply will be in form of an addendum. Addendum will be made available no later than 48 hours via the same platforms bid Documents are posted.

.6 Product/System Options:

   .1 Where Bid Documents stipulate a particular product, substitutions will be considered by Consultant up to seven (7) days before receipt of Bids.

   .2 When request to substitute product is made, Consultant may approve substitution and will issue Addendum to known Bidders.

   .3 In submission of substitutions to products specified, Bidders are to include in their Bid, changes required in Work to accommodate such substitutions. Later claim by Bidder for addition to Contract Price a result of changes in Work necessitated by use of substitutions will not be considered.

1.5 SITE ASSESSMENT

1.1 Mandatory Site Examination and Bidders Briefing:

   .1 Mandatory Site Examination and Bidders briefing has been scheduled for April 11, 2019 at 1:00 pm. All interested parties will meet at the Main Office of St Michael's Catholic School, 25 Maple Street, Ridgetown, ON

   .2 General Contractor and major subtrade Bidders and suppliers are invited.
.3 Representatives of the Owner and the Consultant will be in attendance.
.4 Attendance is mandatory for General Contract Bidders. The Bidders’ List will be published in an Addendum after the Mandatory Site Examination and Bidders’ Briefing.

1.6 BID SUBMISSION

.1 Bid Ineligibility:
   .1 Bids that are unsigned, improperly signed or sealed, conditional, illegible, obscure, contain arithmetical errors, erasures, alterations, or irregularities of any kind, may be declared informal at Owner's discretion.
   .2 Bids with Bid Forms and enclosures which are improperly prepared may be declared informal at Owner's discretion.
   .3 Bids that fail to include security deposit, bonding or insurance requirements will be declared informal at Owner's discretion.

.2 Submissions:
   .1 Bidders are solely responsible for delivery of their Bids in manner and time prescribed.
   .2 Submit one copy of executed offer on Bid Forms provided, signed and with corporate seal together with required security in sealed opaque envelope, clearly identified with Bidder's name, project name and Owner's name on outside. Identify envelope as:
   
   BID FOR ST. CLAIR CATHOLIC DISTRICT SCHOOL BOARD
   ST. MICHAEL CATHOLIC SCHOOL, RIDGETOWN
   PLAYGROUND ASPHALT REPLACEMENT
   SCCDSB# 640-CP1915

   .3 Improperly completed information, irregularities in Bid Bond, Agreement to Bond, WSIB Certificate of Clearance and Evidence of Insurance, may be cause to declare Bid informal.

1.7 BID ENCLOSURES/REQUIREMENTS

.1 Bid Security
   .1 Bids are to be accompanied by security deposit as follows: Bid Bond in amount not less than 10 percent of Bid price.
   .2 Endorse Bid Bond in name of Owner as obligee, signed and sealed by principal (Contractor) and surety.
   .3 Security deposit will be returned after delivery to Owner of required Performance and Labour and Materials Payment Bond(s) by accepted Bidder.
   .4 If no contract is awarded, security deposits will be returned.

.2 Agreement to Bond:
   .1 Submit with Bid Form and Bid Bond, Agreement to Bond, stating that surety providing Bid Bond is willing to supply Performance and Labour and Materials Payment Bond specified.
   .2 Include cost of bonds in Bid Price.

.3 Performance Assurance:
1. Accepted Bidder must provide Performance and Labour and Materials Payment Bond as described in Supplementary Conditions.

2. Include cost of bonds in Bid Price.

4 Insurance:  
   .1 Provide signed evidence of insurance on standard form provided by insurance company stating intention to provide insurance to Bidder in accordance with insurance requirements of Contract Documents.

5 WSIB:  
   .1 Provide current WSIB Certificate of Clearance with Bid.

6 Bid Form Requirements:  
   .1 Bidder, in submitting an offer, accepts time period stated in Contract documents for performing Work.

7 Bid Signing:  
   .1 Bid Form to be signed under seal by Bidder.
   .2 Sole Proprietorship: signature of sole proprietor in presence of witness who shall also sign. Insert words "Sole Proprietor" under signature. Affix seal.
   .3 Partnership: signature of all partners in presence of witness who shall also sign. Insert word ‘Partner’ under each signature. Affix seal to each signature.
   .4 Limited Company: signature of duly authorized signing officer(s) in normal signatures. Insert officer's capacity in which signing officer acts, under each signature. Affix corporate seal. If Bid is signed by officials other than President and Secretary of company, or President-Secretary-Treasurer of company, copy of by-law resolution of Board of Directors authorizing them to do so must also be submitted with Bid in Bid envelope.
   .5 Incorporated Company: signature of duly authorized signing officer(s) in normal signatures. Insert officer's capacity in which signing officer acts, under each signature. Affix corporate seal. If Bid is signed by officials other than President and Secretary of company, or President-Secretary-Treasurer of company, copy of by-law resolution of Board of Directors authorizing them to do so must also be submitted with Bid in Bid envelope.
   .6 Joint Venture: each party of joint venture must execute Bid under respective seals in manner appropriate to such party as described above, similar to requirements of Partnership.

8 Appendices to Bid Form:  
   .1 Appendix A - Subcontractors: include names of Subcontractors and portions of Work Bidder will perform.
   .2 Appendix B - Contract Documents: complete listing as scheduled in Contract Documents.
   .3 Appendix C - Project Superintendent: List proposed project superintendent

1.8 PROJECT SCHEDULE

1. The Owner requires that the Work be completed as quickly and expeditiously as possible.

2. Work to be scheduled as follows:  
   .1 Work may begin starting June 28, 2019.
   .2 Construction may take place during regular business hours.

3. The Contractor must notify the St Clair Catholic District School Board and the School administration prior to starting work

4. Once work commences on a project, the Contractor shall actively pursue and complete all work, until project completion.
.5 Substantial Performance is required on or before August 23, 2019.

1.9 OFFER ACCEPTANCE/ REJECTION
.1 Duration of Offer:
.1 Bids to remain open to acceptance for sixty (60) days after closing date.
.2 Acceptance of Offer:
.1 Owner reserves right to accept or reject any or all offers.
.2 After acceptance by Owner, Consultant will issue to successful Bidder, written Bid acceptance.
.3 After Bid has been accepted, unsuccessful Bids will be returned to respective Bidders with submitted Bid securities and other requested enclosures.
.4 Offer acceptance / award may be subject to approval from the St. Clair Catholic District School Board’s Board of Trustees

1.10 INSURANCE
.1 Contractor must maintain, at the Contractor’s expense for the entire term of the Contract or as otherwise required, all insurance as set out below:
1. The successful Contractor shall provide the Board with proof of insurance for Comprehensive General Liability and Property Damage with a limit of not less than $5,000,000.00 (Five million dollars) inclusive prior to commencing work.
2. The successful Contractor shall provide the Board with proof of insurance for Motor Vehicle Public Liability and Property Insurance on all owned and rented equipment with a limit of not less than $5,000,000.00 (Five million dollars) inclusive prior to commencing work.
3. The Contractor agrees to indemnify, hold harmless, and defend the Board from and against any and all liability for loss, damage and expense, which the Board may suffer or for which the Board may be held liable by reason of injury (including death) or damage to any property arising out of negligence on the party of the proponent or any of its representatives or employees by way of ownership or operation of an automobile.
4. The successful Contractor shall provide the Board with a complete certified copy of all policies.
5. The successful Contractor must name the St. Clair Catholic District School Board and ROA Studio Inc. as additional insured on their insurance policies.

1.11 SAFE SCHOOL PROCEDURES
.1 Contractor’s staff is required to report to the main office of each school during regular school hours and notify the school office staff of the purpose of the visit. The Contractor is required to adhere to all school specific procedures if applicable.
.2 It is the responsibility of the Contractor’s staff to sign in and sign out of the Log Book, which is located in the main office area, while performing their duties.
.3 The following information must be recorded in a legible manner:
Date
Company Name
Employee Name
Employee Signature
Reason for Visit
Time Entering Building
Time Leaving Building

END OF SECTION
Name of Contractor……………………………………………………………………………………………………………………………………

To: St. Clair Catholic District School Board
420 Creek Street, Wallaceburg, Ontario.

We, the undersigned, having examined the Bid Documents for the above named project/contract, including Addendum Number(s)…………………, the agreement between the Owner and Contractor, the General Conditions of the Contract of the Canadian Standard Construction Document CCDC 2, 2008, Stipulated Price Contract, as amended for this contract; and visited and investigated the Place of Work, we agree to provide all material and perform all Work shown and described in these Documents for the

Total Stipulated Price of: $................................................................................................................................................................,..

Value Added Taxes (HST): $..............................................................................................................................................................

Total Price plus Value Added Taxes: $...........................................................................................................................................

We, the undersigned, understand and declare that:

1. If notified of award of Contract, We agree to perform the Work, beginning June 28, 2019 and attain Substantial Performance of the Work by August 23, 2019.
2. The undersign agree that this Bid is valid and irrevocable and subject to acceptance by the Owner for a period of Sixty (60) Days from date of Bid receipt, and that if notified of award of contract we will:
   1. Execute a Contract with Owner on the specified Form of Agreement
   2. Furnish to the Owner, in care of ROAstudio Inc, copies of insurance policies as required by the General Conditions of the Contract.
   3. Furnish to the Owner at time of signing Contract, Performance and Labour and Material Bonds issued by a Surety acceptable to the Owner, each in the amount of 50% of the contract Amount, to ensure the full and proper completion of the Contract.
   4. Furnish to the Owner evidence that all Workers’ Insurance Board dues, in accordance with the laws of the Province of Ontario, have been paid.
3. We have arrived at this Bid without collusion with any competitor.
4. We have attached to this Bid Form the Following Appendices:
   1. APPENDIX A – LIST OF SUBCONTRACTORS
   2. APPENDIX B – LIST OF BID DOCUMENTS
   3. APPENDIX C - BIDDER’S PROJECT SUPERINTENDENT
Project ID: ROA19-011

Project: St. Michael Catholic School, Ridgetown
Playground Asphalt Replacement

Signatures
Signed and submitted by:

(Company name)

(Name and title of authorized signing officer)

(Signature of authorized signing officer)

(Name of witness)

(Signature of witness)

(Name and title of authorized signing officer)

(Signature of authorized signing officer)

(Name of witness)

(Signature of witness)

Dated this __________________________ day of __________________________, 20__________

Note: affix corporate seal as required by Bid Documents

End of Document
Project: St. Michael Catholic School, Ridgetown.  
Playground Asphalt Replacement

Name of Contractor......................................................................................................................................................

The undersigned submits that in proposing the following Subcontractors he has consulted each and has ascertained to his complete satisfaction that those named are fully acquainted with the extent and nature of the Work and of the proposed construction schedule, and that they will execute the Work and conform to the requirements of the Contract Documents.

We, the undersigned, propose to use the following Subcontractors named below for the completion of the Contract:

<table>
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<tr>
<th>Section of Work</th>
<th>Name of Subcontractor</th>
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<tbody>
<tr>
<td>Asphalt</td>
<td>.................................................................</td>
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<tr>
<td>Concrete</td>
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<td>Fencing</td>
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End of Document
Project: St. Michael Catholic School, Ridgetown
Playground Asphalt Replacement

Name of Contractor………………………………………………………………………………………………………………………………………………

We, the undersigned, have based our Bid on the following Bid Documents.

Construction Drawings
As listed on the Drawings Cover Page, Drawing Directory

Specifications
As listed on in Section 01 00 10 – Table of Contents, Located at the beginning of the Project Manual

End of Document
Name of Contractor……………………………………………………………………………………………… …………………………. ……

NOTE: The Owner requires the General Contractor provide a full time site supervisor for the duration of the project. A minimum of 5 years supervisory experience is required. List proposed personnel and their experience in the table below. Supervisory experience with firms other than the Bidder is acceptable to include on the list. The General Contractor shall indicate the person chosen in writing to the Owner within 5 days of contract award.

<table>
<thead>
<tr>
<th>NAME</th>
<th>FIRM/POSITION</th>
<th>QUALIFICATIONS/EXPERIENCE</th>
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End of Document
The Standard Construction Document for Stipulated Price Contract, 2008 English version, consisting of the Agreement Between Owner and Contractor, Definitions, and General Conditions of the Stipulated Price Contract, Parts 1 to 12 inclusive, governing same is hereby made part of these Contract Documents, with the following amendments, additions and modifications for the above named Project. Where these amendments, additions, and modifications specifically reference a change to the Agreement, Definitions, or General Conditions, these amendments, additions and modifications shall govern.

1. ARTICLE A-5 PAYMENT:
   .1 Insert in Paragraph 5.1 “Ten Percent (10%)”
   .2 Insert in Paragraph 5.3 “Bank of Canada”

2. ARTICLE A-6 RECEIPT OF AND ADDRESSES FOR NOTICES IN WRITING
   .1 Delete Article A-6.1 and substitute new article 6.1:
   
   6.1 Notices in Writing between the parties or between them and the Consultant shall be considered to have been received by the addressee on the date of receipt if delivered by hand or by commercial courier or if sent during normal business hours by fax and addressed as set out below. Such Notices in Writing will be deemed to be received by the addressee on the next business day if sent by fax after normal business hours or if sent by overnight commercial courier. Such Notices in Writing will be deemed to be received by the addressee on the fifth Working Day following the date of mailing, if sent by pre-paid registered post, when addressed as set out below. An address for a party may be changed by Notice in Writing to the other party setting out the new address in accordance with this Article.

3. ARTICLE A-7 LANGUAGE OF THE CONTRACT
   .1 Refer to sentence 7.1, strike out “French”

4. DEFINITIONS
   .1 Add the following definition:

   27. **Submittals**
   Submittals are documents or items required by the Contract Documents to be provided by the Contractor, such as:
   - Shop Drawings, samples, models, mock-ups to indicate details or characteristics, before the portion of the Work that they represent can be incorporated into the Work; and
   - As-built drawings and manuals to provide instructions to the operation and maintenance of the Work.

5. PART 1 GENERAL PROVISIONS
   .1 Where a General Condition or paragraph of the General Conditions of the Stipulated Price Contract is deleted by these Supplementary Conditions, the numbering of the remaining General Conditions or paragraphs shall remain unchanged, and the numbering of the deleted item will be retained, unused.

6. GENERAL PROVISIONS
   .1 Where a General Condition or paragraph of the General Conditions of the Stipulated Price Contract is deleted by these Supplementary Conditions, the numbering of the remaining General Conditions or paragraphs shall remain unchanged, and the numbering of the deleted item will be retained, unused.
7. **GC 1.1 CONTRACT DOCUMENTS**
   .1 **Add** to the end of subparagraph 1.1.2.2
   
   Except where the Consultant shall be indemnified as a third party beneficiary as provided in subparagraphs 9.2.7.4, 9.5.3.4 and in 12.1.3.
   
   .2 **Add** new subparagraph 1.1.7.5:
   
   1.1.7.5 In case of discrepancies, noted materials and annotations shall take precedence over graphic indications in the Contract Documents.
   
   .3 **Delete** paragraph 1.1.8 and substitute new paragraph 1.1.8:
   
   1.1.8 The Owner shall provide the contractor digital copies (PDF format) of the Contract Documents and all administrative documents such as Change Orders, Change Directives, and Supplemental Instructions. All required hardcopies of the Contract Documents or part thereof including additional copies of administrative documents, shall be at the expense of the contractor.

8. **GC 2.2 ROLE OF THE CONSULTANT**
   .1 **Add** to the end of paragraph 2.2.9
   
   The Owner and the Contractor shall waive any claims against the Consultant arising out of the making of such interpretations and findings made in accordance with paragraphs 2.2.7., 2.2.8. and 2.2.9.
   
   .2 **Delete** paragraph 2.2.14 and substitute new paragraph 2.2.14:
   
   2.2.14 The Consultant will review and take appropriate action upon Shop Drawings, samples and other Contractor’s submittals which are provided in accordance with the Contract Documents.

9. **GC 2.4 DEFECTIVE WORK**
   .1 **Add** new subparagraph 2.4.1.1
   
   2.4.1.1 The Contractor shall rectify, in a manner acceptable to the Owner and the Consultant, all defective work and deficiencies throughout the Work, whether or not they are specifically identified by the Consultant.
   
   .2 **Add** new subparagraph 2.4.1.2
   
   2.4.1.2 The Contractor shall prioritize the correction of any defective work which, in the sole discretion of the Owner, adversely affects the day to day operation of the Owner.

10. **GC 3.1 CONTROL OF THE WORK**
    .1 **Add** new paragraph 3.1.3
    
    3.1.3 Prior to commencing individual procurement, fabrication and construction activities, the Contractor shall verify, at the Place of the Work, all relevant measurements and levels necessary for proper and complete fabrication, assembly and installation of the Work and shall further carefully compare such field measurements and conditions with the requirements of the Contract Documents. Where dimensions are not included or contradictions exist, or exact locations are not apparent, the Contractor shall immediately notify the Consultant in writing and obtain written instructions from the Consultant before proceeding with any part of the affected work.
11. GC 3.4 DOCUMENT REVIEW
   .1 Delete paragraph 3.4.1 and substitute new paragraph 3.4.1
      
      3.4.1 The Contractor shall review the Contract Documents and shall report promptly to the Consultant any error, inconsistency or omission the Contractor may discover. Such review by the Contractor shall comply with the standard of care described in paragraph 3.14.1 of the Contract. Except for its obligation to make such review and report the result, the Contractor does not assume any responsibility to the Owner or to the Consultant for the accuracy of the Contract Documents. The Contractor shall not be liable for damage or costs resulting from such errors, inconsistencies, or omissions in the Contract Documents, which the Contractor could not reasonably have discovered. If the Contractor does discover any error, inconsistency or omission in the Contract Documents, the Contractor shall not proceed with the work affected until the Contractor has received corrected or missing information from the Consultant.

12. GC 3.7 SUBCONTRACTORS AND SUPPLIERS
   .1 Add new paragraph 3.7.7
      
      3.7.7 After signing of the Contract, no deviation from the list of Subcontractors or Suppliers shall be made during the progress of the Work of the Contract without the Owner's written permission.

13. GC 3.8 LABOUR AND PRODUCTS
   .1 Add new paragraph 3.8.4
      
      3.8.4 The Contractor is responsible for the safe on-site storage of Products and their protection (including Products supplied by the Owner and other contractors to be installed under the Contract) in such ways as to avoid dangerous conditions or contamination to the Products or other persons or property and in locations at the Place of the Work to the satisfaction of the Owner and the Consultant. The Owner shall provide all relevant information on the Products to be supplied by the Owner.

14. GC 3.10 SHOP DRAWINGS
   .1 Add the words “AND OTHER SUBMITTALS” to the Title after SHOP DRAWINGS.
   .2 Add “and Submittals” after the words “Shop Drawings” in paragraphs 3.10.1, 3.10.2, 3.10.4, 3.10.7, 3.10.8, 3.10.8.2, 3.10.9, 3.10.10, 3.10.11, and 3.10.12.
   .3 Delete paragraph 3.10.3 and substitute new paragraph 3.10.3
      
      3.10.3 Prior to the first application for payment, the Contractor and the Consultant shall jointly prepare a schedule of the dates for submission and return of Shop Drawings and any Submittals.
   .4 Delete paragraph 3.10.12 and substitute new paragraph 3.10.12
      
      3.10.12 The Consultant will review and return Shop Drawings in accordance with the schedule agreed upon, or, in the absence of such schedule, within 10 working days or such longer period as may be reasonably required.
15. **PART 3 EXECUTION OF THE WORK**

   1. **Add** new General Condition 3.14 PERFORMANCE BY CONTRACTOR

   2. **Add** new paragraph 3.14.1

      3.14.1 In performing its services and obligations under the **Contract**, the **Contractor** shall exercise a standard of care, skill and diligence that would normally be provided by an experienced and prudent contractor supplying similar services for similar projects. The **Contractor** acknowledges and agrees that throughout the **Contract**, the **Contractor’s** obligations, duties and responsibilities shall be interpreted in accordance with this standard. The **Contractor** shall exercise the same standard of due care and diligence in respect of any Products, personnel, or procedures which it may recommend to the **Owner**.

   3. **Add** new paragraph 3.14.2

      3.14.2 The **Contractor** further represents, covenants and warrants to the **Owner** that:

         1. The personnel it assigns to the **Project** are appropriately experienced;

         2. It has a sufficient staff of qualified and competent personnel to replace its designated supervisor and project manager, subject to the **Owner’s** approval, in the event of death, incapacity, removal or resignation.

16. **GC 4.1 CASH ALLOWANCES**

   1. **Delete** paragraph 4.1.4 substitute new paragraph 4.1.4

      4.1.4 Where costs under a cash allowance exceed the amount of the allowance, unexpended amounts from other cash allowances shall be reallocated at the **Consultant’s** direction to cover the shortfall.

   2. **Delete** paragraph 4.1.5 substitute new paragraph 4.1.5:

      4.1.5. The net amount of any unexpended cash allowances, after providing for any reallocations as contemplated in paragraph 4.1.4, shall be deducted from the **Contract Price** by **Change Order**.

   3. **Delete** paragraph 4.1.7 and substitute new paragraph 4.1.7.

      4.1.7 At the commencement of the **Work**, the **Contractor** shall prepare for the review and acceptance of the **Owner** and the **Consultant**, a schedule indicating the times, within the construction schedule referred to in GC 3.5, that items called for under cash allowances and items that are specified to be **Owner** purchased and **Contractor** installed or hooked up are required at the site to avoid delaying the progress of the **Work**.

   4. **Add** new paragraph 4.1.8:

      4.1.8 The **Owner** reserves the right to call, or to have the **Contractor** call, for competitive bids for portions of the **Work**, to be paid for from cash allowances.
17. GC 6.2 CHANGE ORDER
   .1 Add new paragraph 6.2.3

   6.2.3 The value of changes to the Work shall be determined by one of the following agreed upon methods:
   .(A) Estimate and acceptance of itemized lump sum for additional Work with overhead and profit applied as a percentage as listed below:
       .1 10% overhead and 5% profit for net cost of Work done by Contractors own forces
       .2 5% overhead and 5% profit for net cost Work done by Subcontractors
       .3 0% overhead and profit on credits
   .(B) Unit prices as set out in the contract or subsequently agreed upon, with adjustments to the Contract Price based on net quantity difference from original quantity. Overhead and profit applied as a percentage as listed below:
       .1 10% overhead and 5% profit for net cost of Work done by Contractors own forces
       .2 5% overhead and 5% profit for net cost Work done by Subcontractors
       .3 0% overhead and profit on credits

18. GC 6.4 CONCEALED OR UNKNOWN CONDITIONS
   .1 Add new paragraph 6.4.5

   6.4.5 The Contractor confirms that, prior to bidding the Project, it carefully investigated the Place of the Work and applied to that investigation the degree of care and skill described in paragraph 3.14.1, given the amount of time provided between the issue of the bid documents and the actual closing of bids, the degree of access provided to the Contractor prior to submission of bid, and the sufficiency and completeness of the information provided by the Owner. The Contractor is not entitled to compensation or to an extension of the Contract Time for conditions which could reasonably have been ascertained by the Contractor by such careful investigation undertaken prior to the submission of the bid.

19. GC 6.5 DELAYS
   .1 Delete the period at the end of paragraph 6.5.1, and substitute the following words:

       “, but excluding any consequential, indirect or special damages.”

   .2 Add new subparagraph 6.5.6.

   6.5.6 If the Contractor is delayed in the performance of the Work by an act or omission of the Contractor or anyone employed or engaged by the Contractor directly or indirectly, or by any cause within the Contractor’s control, then the Contract Time shall be extended for such reasonable time as the Consultant may decide in consultation with the Contractor. The Owner shall be reimbursed by the Contractor for all reasonable costs incurred by the Owner as the result of such delay, including all services required by the Owner from the Consultant as a result of such delay by the Contractor and, in particular, the cost of the Consultant’s services during the period between the date of Substantial Performance of the Work stated in Article A-1 herein as the same may be extended through the provisions of these General Conditions and any later, actual date of Substantial Performance of the Work achieved by the Contractor.

20. GC 6.6 CLAIMS FOR A CHANGE IN CONTRACT PRICE
   .1 In paragraph 6.6.5, Add the words “as noted in paragraph 6.6.3” after the words “of the claim” and add the words “and the Consultant”, at the end of paragraph 6.6.5.
21. GC 8.2 NEGOTIATION, MEDIATION AND ARBITRATION

.1 Add new paragraph 8.2.9

8.2.9 Within five days of receipt of the notice of arbitration by the responding party under paragraph 8.2.6, the Owner and the Contractor shall give the Consultant a written notice containing:
   a) a copy of the notice of arbitration
   b) a copy of supplementary conditions 8.2.9 to 8.2.14 of this Contract, and;
   c) any claims or issues which the Contractor or the Owner, as the case may be, wishes to raise in relation to the Consultant arising out of the issues in dispute in the arbitration.

.2 Add new paragraph 8.2.10

8.2.10 The Owner and the Contractor agree that the Consultant may elect, within ten days of receipt of the notice under paragraph 8.2.9, to become a full party to the arbitration under paragraph 8.2.6 if the Consultant:
   a) has a vested or contingent financial interest in the outcome of the arbitration;
   b) gives the notice of election to the Owner and the Contractor before the arbitrator is appointed;
   c) agrees to be a party to the arbitration within the meaning of the rules referred to in paragraph 8.2.6, and;
   d) agrees to be bound by the arbitral award made in the arbitration.

.3 Add new paragraph 8.2.11

8.2.11 If an election is made under paragraph 8.2.10, the Consultant may participate in the appointment of the arbitrator and, notwithstanding the rules referred to in paragraph 8.2.6, the time period for reaching agreement on the appointment of the arbitrator shall begin to run from the date the respondent receives a copy of the notice of arbitration.

.4 Add new paragraph 8.2.12

8.2.12 The arbitrator in the arbitration in which the Consultant has elected under paragraph 8.2.10 to become a full party may:
   a) on application of the Owner or the Contractor, determine whether the Consultant has satisfied the requirements of paragraph 8.2.10, and;
   b) make any procedural order considered necessary to facilitate the addition of the Consultant as a party to the arbitration.

.5 Add new paragraph 8.2.13

8.2.13 The provisions of paragraph 8.2.9 shall apply mutatis mutandis to written notice to be given by the Consultant to any sub-consultant;

.6 Add new paragraph 8.2.14

8.2.14 In the event of notice of arbitration given by the Consultant to a sub-consultant, the sub-consultant is not entitled to any election with respect to the proceeding as outlined in 8.2.10, and is deemed to be bound by the arbitration proceeding.
22. **GC 9.1 PROTECTION OF WORK AND PROPERTY**
   .1 Delete subparagraph 9.1.1.1 and substitute new subparagraph 9.1.1.1
   
   9.1.1.1 Errors in the Contract Documents which the Contractor could not have discovered applying the standard of care described in paragraph 3.14.1;

   .2 Delete paragraph 9.1.2 and substitute new paragraph 9.1.2

   9.1.2 Before commencing any Work, the Contractor shall determine the locations of all underground utilities and structures indicated in the Contract Documents, or that are discoverable by applying to an inspection of the Place of the Work the degree of care and skill described in paragraph 3.14.1.

23. **GC 9.2 TOXIC AND HAZARDOUS SUBSTANCES**
   .1 Add to paragraph 9.2.6 after the word “responsible”, the following new words:

   or whether any toxic or hazardous substances or materials already at the Place of the Work (and which were then harmless or stored, contained or otherwise dealt with in accordance with legal and regulatory requirements) were dealt with by the Contractor or anyone for whom the Contractor is responsible in a manner which does not comply with legal and regulatory requirements, or which threatens human health and safety or the environment, or material damage to the property of the Owner or others,

   .2 Add “and the Consultant” after the word “Contractor” in subparagraph 9.2.7.4.

   .3 Add to paragraph 9.2.8 after the word “responsible”, the following new words:

   or that any toxic or hazardous substances or materials already at the Place of the Work (and which were then harmless or stored, contained or otherwise dealt with in accordance with legal and regulatory requirements) were dealt with by the Contractor or anyone for whom the Contractor is responsible in a manner which does not comply with legal and regulatory requirements, or which threatens human health and safety or the environment, or material damage to the property of the Owner or others,

24. **GC 9.5 MOULD**
   .1 Add “and the Consultant” after “Contractor” in subparagraph 9.5.3.4.

25. **GC 10.1 TAXES AND DUTIES**
   .1 Add new paragraph 10.1.3

   10.1.3 The Contractor’s overhead and profit shall not be included on extras or credits resulting from changes in taxes and duties.

26. **GC 10.2 LAWS, NOTICES, PERMITS, AND FEES**
   .1 Delete paragraph 10.2.2 and substitute new paragraph 10.2.2

   10.2.2 “The Owner shall obtain and pay for zoning revisions, permanent easements and rights of servitude. The Contractor shall be responsible for all permits, including the Building Permit, licenses, damage and other deposits, or certificates necessary for the performance of the Work which were in force at the date of bid closing.

   .2 Delete from the first line of paragraph 10.2.5 the word, “The” and substitute the words:

   “Subject to paragraph 3.14.1, the”. 
27. **11.2 CONTRACT SECURITY**

1. **Delete** paragraph 11.2.1 and substitute new paragraph 11.2.1

   11.2.1 The Contractor shall provide to the Owner the following Bonds:
   
   .1 A Performance Bond in the amount of Fifty percent (50%) of the total Contract amount covering the performance of the Contract, including the requirements of GC 12.3 WARRANTY
   
   .2 A Labour and Materials Bond in the amount of Fifty Percent (50%) of the Total Contract Amount.

   The Contractor shall deliver the original bonds to the Owner within ten (10) days of receipt by the Contractor of the Owner’s written acceptance of the Bid.

2. **Add** paragraph 11.2.3

   11.2.3 The premiums for such bonds shall be included in the Contract Price.

28. **GC 12.1 INDEMNIFICATION**

1. **Add** new subparagraph 12.1.1.3.

   12.1.1.3 The Contractor shall indemnify and hold harmless the Consultant, its agents and employees from and against claims, demands, losses, costs, damages, actions, suits, or proceedings by third parties that arise out of, or are attributable to, the Contractor’s performance of the Contract, provided such claims are attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property, and caused by negligent acts or omissions of the Contractor or anyone for whose acts the Contractor may be liable, and made in writing within a period of 6 years from the date of Substantial Performance of the Work as set out in the certificate of Substantial Performance of the Work, or within such shorter such period as may be prescribed by any limitation statute or the province or territory of the Place of Work.

29. **GC 12.3 WARRANTY**

1. **Delete** from the first line of paragraph 12.3.2 the word, “The” and **substitute** the words: “Subject to paragraph 3.14.1, the”.

END OF SECTION
SUBSTITUTION REQUEST FORM

☐ Contractor                                    Company______________________________

☐ Sub Trade

☐ Supplier | Manufacturer                        Date _______________________________

Bidder hereby requests acceptance of the following product or system as a substitution in accordance with provisions of Section 00 21 13 - Instructions to Bidders, and Section 00 90 00 “Substitution Procedures.”

1. SPECIFIED PRODUCT OR SYSTEM

Substitution request for: _______________________________________________________

Specification Section No.: ____________________ Article | Paragraph __________________

2. REASON FOR SUBSTITUTION REQUEST

PROPOSED PRODUCT

☐ Will reduce construction time          ☐ Will result in cost savings

☐ Requested Alternative                  ☐ Is for subcontractors convenience

☐ Other: _____________________________

3. PROPOSED SUBSTITUTION

Manufacturer: ____________________ Phone Number: _____________________________

Product Name: ____________________ Model | Series: ____________________________

Installer: _________________________ Phone Number: _____________________________

Warranty: _________________________ Additional Info: ____________________________

4. MANDATORY SUPPORTING DATA

☐ Drawings, specifications, product data, performance data, test data, and any other necessary information to facilitate review of the Substitution Request is attached

☐ Sample Attached
5. EFFECT OF SUBSTITUTION

Proposed substitution effects other work or trades:  ☐ No  ☐ Yes (if yes, explain)

________________________________________

Proposed substitution requires dimensional revisions or redesign of architectural, civil, structural, mechanical, electrical or other work:  ☐ No  ☐ Yes (if yes, explain)

________________________________________

6. STATEMENT OF CONFORMANCE OF REQUEST TO CONTRACT REQUIREMENTS

Submitting Contractor has investigated the proposed substitution and hereby represent that:

A. They have personally investigated the proposed substitution and believe that it is equal to or superior in all respects to specified product, except as stated above;

B. The proposed substitution is in compliance with applicable codes and ordinances;

C. The proposed substitution will provide same warranty as specified for specified product;

D. They will coordinate the incorporation of the proposed substitution into the Work, and will include modifications to the Work as required to fully integrate the substitution;

E. They waive all future claims for added cost or time to the Contract related to the substitution, or that become known after substitution is accepted.

F. The Architect’s approval, if granted, will be based upon data submitted with this request and opinion, knowledge, information, and belief of the Architect at the time decision is rendered and Addendum is issued; and that Architect’s approval therefore is interim in nature and subject to reevaluation and reconsideration as additional data, materials, workmanship, and coordination with other work are observed and reviewed.

Bidding Contractor: ________________________________  

(Name of Contractor)

Date: ________________________________  By: ________________________________
Part 1 General

1.1 WORK COVERED BY CONTRACT DOCUMENTS

.1 Work to complete site Upgrades including new asphalt playground and further identified as 
ROA studio Inc. Project ID 19-011.

1.2 CONTRACT METHOD

.1 Construct Work under single, stipulated price contract, CCDC2-2008

1.3 DOCUMENTS REQUIRED

.1 Maintain at job site, one copy each document as follows:

.1 Contract Drawings.
.2 Specifications.
.3 Addenda.
.4 Reviewed Shop Drawings.
.5 List of Outstanding Shop Drawings.
.6 Change Orders.
.7 Other Modifications to Contract.
.8 Field Test Reports.
.9 Copy of Approved Work Schedule.
.10 Health and Safety Plan and Other Safety Related Documents.
.11 Other documents as specified

1.4 PERMITS

.1 The Contractor shall apply and pay for all permits, including the Building Permit, licenses, 
damage and other deposits, or certificates necessary for the performance of the Work 
which were in force at the date of bid closing.

1.5 CONTRACTOR USE OF PREMISES

.1 Limit access of construction personnel to areas of Work. Ensure construction personnel 
do not use occupied areas of the existing building as access to the work areas, except 
where prearranged with Owner.
.2 Prohibit use of washroom and services in building by construction personnel, except 
where prearranged with Owner.
.3 Smoking is prohibited everywhere on the property.
.4 Secure work area by methods compatible with the total security established for the 
building.
.5 Contractor’s forces, tradesmen, workers, suppliers of subcontractors employed directly or 
indirectly by the Contractor will be allowed to park their vehicles in designated areas.
.6 Obtain and pay for use of additional storage or work areas needed for operations under 
this Contract.
1.7 EXISTING SERVICES

.1 Ensure that existing services are not damaged during demolition and construction. Immediately cut off and cap concealed services uncovered during work by qualified mechanical and electrical workers.

.2 Relocate mechanical and electrical services exposed during alteration work.

.3 Should existing services be accidentally uncovered and disrupted, notify Owner and make complete restoration immediately, and provide adequate protection to avoid further disruption until alternative means of providing permanent continuation of the services can be made.

.1 Rectification for work specified in the above shall be made by the Contractor at no additional cost to the Owner, if such work could have been foreseen and which has been caused by lack of proper care and protection.

.2 If accidental disruption is made and could not have been foreseen, the Contractor shall advise Consultant and Owner of the commencement, duration and termination dates of this work; keep a record of work hours, number of workers, tools, equipment rentals, quantities of material used, mileage, etc. to present with claim.

.4 Unless otherwise specified, restore services on which work is performed to original condition.

1.8 SAFETY AND SECURITY DURING CONSTRUCTION IN NEAR EXISTING BUILDINGS

.1 Building Exits: All exits, including stairways and exterior doors to the outside, serving the existing building shall be maintained.

.2 Fire Department Access: Construction activities shall not obstruct the access roadways designated for fire department equipment.

1.9 PROJECT MEETINGS

.1 Attend project meetings.

.2 Representatives of Contractor, Subcontractor and suppliers attending meetings will be qualified and authorized to act on behalf of party each represents.

.3 Consultant will distribute written notice of meetings, prepare agenda, record minutes and distribute copies of minutes.

1.10 HEALTH & SAFETY

.1 The Owner is firmly committed to Corporate Health & Safety.

.2 The Contractor shall have Corporate Health and Safety Policies and Procedures as required in the Occupational Health and Safety Act and Regulations for Construction Projects, R.S.O. 1980.

.3 To provide a safe and healthy work environment the Contractor warrants and confirms:
that it has a written Health and Safety policy in place in accordance with the Occupational Health and Safety Act, R.S.O. 1990;
that the appropriate instruction and training has been provided to the employees in accordance with the Occupational Health and Safety Act, R.S.O. 1990 and
that the works shall be undertaken in strict accordance with all applicable provisions of the Occupational Health and Safety Act.

Note: In cases of discrepancy in document content, the Policy or Procedure providing the highest level of Health and Safety shall govern.

The Bidder's documentation and commitment to Health & Safety will be a requirement of this contract.

Submit copies of incident and accident reports.

1.11 FILING OF NOTICE

.1 File Notice of Project with Ontario Ministry of Labour prior to beginning of Work.

1.12 REGULATORY REQUIREMENTS

.1 References and Codes

.1 Perform Work in accordance with the Ontario Building Code (OBC) including amendments up to tender closing date and other codes of provincial or local application provided that in case of conflict or discrepancy, more stringent requirements apply.

.2 Meet or exceed requirements of:

.1 Contract documents.

.2 Specified standards, codes and referenced documents.

1.13 INSPECTION

.1 Allow Owner and Consultant access to Work. If part of Work is in preparation at locations other than Place of Work, allow access to such Work whenever it is in progress.

.2 If Contractor covers or permits to be covered Work that has been designated for special tests, inspections or approvals before such is made, uncover such Work, have inspections or tests satisfactorily completed and make good such Work.

.3 Consultant will order part of Work to be examined if Work is suspected to be not in accordance with Contract Documents. If, upon examination such work is found not in accordance with Contract Documents, correct such Work and pay cost of examination and correction. If such Work is found in accordance with Contract Documents, Owner shall pay cost of examination and replacement.

1.14 REJECTED WORK

.1 Remove defective Work, whether result of poor workmanship, use of defective products or damage and whether incorporated in Work or not, which has been rejected by Consultant as failing to conform to Contract Documents. Replace or re-execute in accordance with Contract Documents.

.2 Make good other Contractor's work damaged by such removals or replacements promptly.

.3 If in opinion of Consultant it is not expedient to correct defective Work or Work not performed in accordance with Contract Documents, Owner will deduct from Contract
Price difference in value between Work performed and that called for by Contract Documents, amount of which will be determined by Consultant.

1.15 PROJECT CLEANLINESS

.1 Maintain Work in tidy condition, free from accumulation of waste products and debris.
.2 Remove waste materials from site at daily regularly scheduled times. Do not burn waste materials on site.
.3 Make arrangements with and obtain permits from authorities having jurisdiction for disposal of waste and debris.
.5 Provide on-site containers for collection of waste materials and debris.
.6 Provide and use marked separate bins for recycling.
.7 Dispose of waste materials and debris off site.
.8 Protect existing materials and equipment from damage during construction. Provide polyethylene cover over any furniture and equipment remaining in work area in order to minimize damage from construction dirt and debris.
.9 Clean interior areas prior to start of finishing work, and maintain areas free of dust and other contaminants during finishing operations.
.10 Store volatile waste in covered metal containers, and remove from premises at end of each working day.
.11 Provide adequate ventilation during use of volatile or noxious substances. Use of building ventilation systems is not permitted for this purpose.
.12 Use only cleaning materials recommended by manufacturer of surface to be cleaned, and as recommended by cleaning material manufacturer.
.13 Schedule cleaning operations so that resulting dust, debris and other contaminants will not fall on wet, newly painted surfaces nor contaminate building systems.

Part 2 Products

2.1 NOT USED

.1 Not used.

Part 3 Execution

3.1 NOT USED

.1 Not used.
Part 1

General

.1 Include in Contract Price specified cash allowances.

.2 Cash allowances, unless otherwise specified, cover net cost to Contractor of services, products, construction machinery and equipment, freight, handling, unloading, storage installation and other authorized expenses incurred in performing Work.

.3 Contract Price, and not cash allowance, includes Contractor's overhead and profit in connection with such cash allowance.

.4 Contract Price, and not cash allowance, includes HST payable in connection with such cash allowance.

.5 Contract Price will be adjusted by written order to provide for excess or deficit to each cash allowance.

.6 If overhead and profit to the Contract are determined by means not identified in the Contract Documents, edit the following paragraph to suit conditions accordingly.

.7 Where costs under a cash allowance exceed amount of allowance, Contractor will be compensated for excess incurred and substantiated plus allowance for overhead and profit as set out in Contract Documents.

.8 Include progress payments on accounts of work authorized under cash allowances in Consultant's monthly certificate for payment.

.8 Authorization to Disburse Allowances: Expenditures from Allowances included in the contract must be authorized in writing by the Consultant, the Owner and the Contractor and issued as a Cash Allowance Disbursement Authorization (CADA).

.9 Include the following cash allowances in the Stipulated Price.

.1 Cash Allowance: Ten Thousand Dollars ($10,000.00) to cover the following items from which the Consultant shall direct payment for services, labour, and material.

.1 Provisional Cash Allowance

.2 Owner's Provisional Allowance

.2 Testing Allowance: For various Testing, Seven Thousand Five Hundred Dollars ($7,500.00).

PART 2 – PRODUCTS – Not Used

PART 3 – EXECUTION – Not used

End Of Section
Part 1  General

1.1  SECTION INCLUDES
.1  Contract modification procedures.

1.2  VARIATIONS
.1  Once a Proposed Change has been issued by the Consultant, it shall be the 
responsibility of the Contractor to ensure that no work is carried out that may increase the 
cost of the variation contemplated until a decision on the acceptance or rejection of the 
Proposed Change is made, and a Change Order has been issued.
.2  The Consultant will assess the cost of each change before issuing a Change Order.
Assist the Consultant with this task by quoting all variations in a complete manner listing:
 quantity of each material,  
 unit cost of each material,  
 man hours involved,  
 cost per hour,  
 Subcontractor quotations,  
 impact on Project schedule and completion, and  
 overhead and profit fees.
.3  The Consultant may require further quotations in order to show a breakdown of costs.
.4  The Owner and the Consultant will not be responsible for delays to the Work resulting 
from late, incomplete or inadequately broken down valuations submitted by the 
Contractor.
.5  Minor variations may be made in the project from time to time as approved by the 
Consultant. Such alterations or adjustments shall not constitute a change in cost unless 
a Proposed Change is made at the time. No extra will be contemplated except where a 
clear indication is made that extra payment is claimed, in which case a Change Order will 
be issued by the Consultant. Unless this procedure is followed, no claims for additional 
amounts will be allowed.
.6  Changes in the Work will be subject to the allowable mark-up as follows:
.1  The value of changes in the Work shall be determined by one of the following 
methods as agreed to by the Contractor and the Owner:
 .1  estimate and acceptance in a lump sum, substantiated by an itemized 
Cost Breakdown satisfactory to the Owner with overhead and profit 
applied at the percentages listed below.
.2  The itemized “Cost Breakdown” shall include all net costs to the 
Contractor excluding his overhead and profit. “Overhead and Profit” 
shall be calculated at the rates listed below. “Overhead” shall include the 
following costs to the Contractor:
.1  The Contractor’s head office and site office expenses, including 
stationery, postage and other office supplies.
.2  The salaries of superintendents, engineers, timekeepers, 
accountants, clerks, watchmen, and similar personnel employed 
directly on the Work. Wages on workers and foreman and the 
assessments thereon for Worker’s Compensation, 
Unemployment Insurance, vacation with pay, and Canada 
Pension payments, etc., are part of the actual cost.
.3  Use of temporary offices, sheds, etc., including cost of 
television, light, power, water and heat used therein.
.4  Transportation and overnight room expenses for out of town 
labour, if local labour is not available.
.5  Insurance and bond premiums.
.6  Licenses and permits, except when these are special for a 
particular item of work.
.7 Printing charges for Proposed Changes, Change Orders and Drawings for Contractor and Subcontractors use in the work. (Consultant will provide one copy of change notice documentation and in the event of re-issue of full size drawings will provide one copy of drawings.)

.3 On work done by the General Contractor’s own forces, a maximum of 5% overhead plus 5% profit shall be the percentage Fee applied to the net cost.

.4 On work done by Subcontractors, the General Contractor shall charge a maximum of 5% as the percentage Fee applied to the net cost.

.5 No mark-ups on credits, for overhead and profit, will be permitted.

.6 Subcontractors - on work done by the Subcontractor’s own forces, a maximum of 5% overhead plus 5% profit shall be the percentage Fee applied to the net cost.

PART 2 – PRODUCTS – Not Used
PART 3 – EXECUTION – Not used

END OF SECTION
Part 1

General

1.1 REFERENCES

.1 Owner/Contractor Agreement; CCDC2-2008, as Amended.

1.2 APPLICATIONS FOR PROGRESS PAYMENT

.1 Make applications for payment on account monthly as Work progresses.
.2 Date applications for payment last day of agreed monthly payment period and ensure amount claimed is for value, proportionate to amount of Contract, of Work performed and Products delivered to Place of Work at that date.
.3 Submit to Consultant, at least 14 days before first application for payment. Schedule of values for parts of Work, aggregating total amount of Contract Price, to facilitate evaluation of applications for payment.

1.3 SCHEDULE OF VALUES

.1 Provide schedule of values supported by evidence as Consultant may reasonably direct and when accepted by Consultant, be used as basis for applications for payment.
.2 Include statement based on schedule of values with each application for payment.
.3 Support claims for products delivered to Place of Work but not yet incorporated into Work by such evidence as Consultant may reasonably require to establish value and delivery of products.
.4 Schedule of Values to include a value of Two Thousand Dollars ($2,000.00) for project close-out documents (as-builts and maintenance manuals). Payments for close-out documents will be released after documents are submitted and approved by the consultants.

1.4 PROGRESS PAYMENT

.1 Consultant will issue to Owner, no later than 10 days after receipt of an application for payment, certificate for payment in amount applied for or in such other amount as Consultant determines to be due.

1.5 SUBSTANTIAL PERFORMANCE OF WORK

.1 Apply for a review by Consultant to establish Substantial Performance of Work when Work is substantially performed if permitted by lien legislation applicable to Place of Work.
.2 No later than 10 days after receipt of list and application, Consultant will review Work to verify validity of application, and no later than 7 days after completing review, will notify Contractor if Work or designated portion of Work is substantially performed.
.3 Consultant will state date of Substantial Performance of Work in certificate.
.4 Immediately following issuance of certificate of Substantial Performance of Work, in consultation with Consultant, establish reasonable date for finishing Work.

1.6 PAYMENT OF HOLDBACK UPON SUBSTANTIAL PERFORMANCE OF WORK

.1 After issuance of certificate of Substantial Performance of Work:
   .1 Submit application for payment of holdback amount.
   .2 Submit sworn statement that accounts for labour, subcontracts, products, construction machinery and equipment, and other indebtedness which may have been incurred in Substantial Performance of Work and for which Owner might in be held responsible have been paid in full, except for amounts properly retained as holdback or as identified amount in dispute.
.2 After receipt of application for payment and sworn statement, Consultant will issue certificate for payment of holdback amount.
.3 Amount authorized by certificate for payment of holdback amount is due and payable on
day following expiration of holdback period stipulated in lien legislation applicable to Place
of Work. Owner may retain out of holdback amount sums required by law to satisfy liens
against Work.

1.7 FINAL PAYMENT

.1 Submit application for final payment when Work is completed.
.2 Consultant will, no later than 10 days after receipt of application for final payment, review
Work to verify validity of application. Consultant will give notification that application is
valid or give reasons why it is not valid, no later than 7 days after reviewing Work.
.3 Consultant will issue final certificate for payment when application for final payment is
found valid.

PART 2 – PRODUCTS – Not Used
PART 3 – EXECUTION – Not used

End Of Section
Part 1 General

1.1 ADMINISTRATIVE
.1 Security and control of Project is the responsibility of the Contractor.
.2 Contractor responsible as to which trade provides required materials or articles and work.
.3 Contractor responsible for the coordination of all building components, materials and systems and the work of all subcontractors. The contractor will provide field drawings to coordinate the various parts of the work prior to commencement of work.

1.2 PRODUCT DELIVERY, STORAGE AND HANDLING
.1 Schedule delivery of products, and provide delivery access and unloading areas.
.2 Provide areas for storage of products and construction equipment to meet specified requirements, and to ensure a minimum of interference with progress of the Work and relocations.
.3 All material, equipment and fixtures to be delivered, stored and handled as per manufacturer's written instructions.

1.3 JOB CONDITIONS
.1 Ensure that conditions within the building are maintained. Ensure that protection of adjacent property and the Work is adequately provided for and maintained to meet specified requirements.

1.4 COORDINATION
.1 Review Contract Documents and advise the Consultant of possible conflicts between parts of the Work before preparation of shop drawings, ordering of products or commencement of affected Work.
.2 Coordinate all Work in each area and Work on which subsequent Work depends to facilitate mutual progress, and to prevent conflict between parts of the Work.
.3 Ensure that each Section, before commencing its Work, knows requirements for subsequent Work and that each Section is assisted in the execution of its preparatory Work by Sections whose Work depends upon it.
.4 Ensure that setting drawings, templates, and all other information necessary for the location and installation of materials, holes, sleeves, inserts, anchors, accessories, fastenings, connections, and access panels are provided by each Section whose Work requires cooperative location and installation by other Sections, and that such information is communicated to the applicable installer.

PART 2 – PRODUCTS – Not Used

PART 3 – EXECUTION – Not Used

End Of Section
Part 1 General

1.1 ADMINISTRATIVE
   .1 Schedule project meetings throughout the progress of the work, every other week.
   .2 Provide physical space and make arrangements for meetings.
   .3 Attend meetings.
   .4 Representative of Contractor, Subcontractor and suppliers attending meetings will be qualified and authorized to act on behalf of party each represents.
   .5 Consultant will distribute written notice of meetings, prepare agenda, record minutes and distribute copies of minutes.

1.2 PRECONSTRUCTION MEETING
   .1 Within 15 days after award of Contract, request a meeting of parties in contract to discuss and resolve administrative procedures and responsibilities.
   .2 Client Representatives, Consultant, Contractor, Major Subcontractors and site supervisor shall be in attendance.
   .3 Establish time and location of meeting and notify parties concerned.
   .4 Consultant to provide agenda.
   .5 Contractor to have available prior to meeting, construction schedule, Schedule of Values and all contract security.

1.3 PROGRESS MEETINGS
   .1 During course of Work schedule and attend progress meetings.
   .2 Contractor, major Subcontractors involved in Work, Consultant and Owner are to be in attendance.
   .3 Contractor to have available prior to meeting, construction schedule and schedule of Values.

PART 2 – PRODUCTS – Not Used
PART 3 – EXECUTION – Not used

End Of Section
Part 1 General

1.1 DEFINITIONS

.1 Activity: elements of Work performed during the course of Project. Activity has expected duration, and expected cost and expected resource requirements. Activities can be subdivided into tasks.

.2 Bar Chart (GANTT Chart): graphic display of schedule-related information. In typical bar chart, activities or other Project elements are listed down left side of chart, dates are shown across top, and activity durations are shown as date-placed horizontal bars. Generally Bar Chart should be derived from commercially available computerized project management system.

.3 Baseline: original approved plan (for project, work package, or activity), plus or minus approved scope changes.

.4 Construction Work Week: Monday to Friday, inclusive, will provide five day work week and define schedule calendar working days as part of Bar (GANTT) Chart submission.

.5 Duration: number of work periods (not including holidays or other nonworking periods) required to complete activity or other project element. Usually expressed as workdays or workweeks.

.6 Master Plan: summary-level schedule that identifies major activities and key milestones.

.7 Milestone: significant event in project, usually completion of major deliverable.

.8 Project Schedule: planned dates for performing activities and the planned dates for meeting milestones. Dynamic, detailed record of tasks or activities that must be accomplished to satisfy Project objectives. Monitoring and control process involves using Project Schedule in executing and controlling activities and is used as basis for decision making throughout project life cycle.

1.2 REQUIREMENTS

.1 Ensure Master Plan and Detail Schedules are practical and remain within specified Contract duration.

.2 Plan to complete Work in accordance with prescribed milestones and time frame.

.3 Limit activity durations to maximum of approximately 10 working days, to allow for progress reporting.

.4 Ensure that it is understood that Award of Contract or time of beginning, rate of progress, and Substantial Performance as defined times of completion are of essence of this contract.

1.3 ACTION AND INFORMATION SUBMITTALS

.1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.

.2 Submit Project Schedule to Consultant within 5 working days of receipt of acceptance of award of Contract.

1.4 PROJECT MILESTONES

.1 Provide Project milestones from interim targets for Project Schedule. Include the following Milestones:

.1 Construction Start: June 28, 2019

.2 Substantial Performance: August 23, 2019
1.5 PROJECT SCHEDULE
   .1 Develop detail Project Schedule
   .2 Ensure detail Project Schedule includes a minimum milestone and activity types as follows:
      .1 Award
      .2 Shop Drawing Submission, Samples
      .3 Permits
      .4 Mobilizations
      .5 Demolition
      .6 New Asphalt
      .7 Close-out Documentation Submission
      .8 Substantial Performance

1.6 PROJECT SCHEDULE REPORTING
   .1 Update Project Schedule on bi-weekly basis reflecting activity changes and completions, as well as activities in progress.
   .2 Discuss Project Schedule at regular site meetings, identifying activities that are behind schedule and provide measures to regain slippage. Activities considered behind schedule are those with projected start or completion dates later than current approved dates shown on baseline schedule
   .3 Weather related delays with their remedial measures will be discussed and negotiated.

PART 2 – PRODUCTS – Not Used
PART 3 – EXECUTION – Not used

End Of Section
Part 1  General

1.1  ADMINISTRATIVE

.1 Submit to Consultant submittals listed for review. Submit promptly and in orderly sequence to not cause delay in Work. Failure to submit in ample time is not considered sufficient reason for extension of Contract Time and no claim for extension by reason of such default will be allowed.

.2 Do not proceed with Work affected by submittal until review is complete.

.3 Present shop drawings, product data, samples and mock-ups in imperial units.

.4 Review submittals prior to submission to Consultant. This review represents that necessary requirements have been determined and verified, or will be, and that each submittal has been checked and co-ordinated with requirements of Work and Contract Documents. Submittals not stamped, signed, dated and identified as to specific project will be returned without being examined and considered rejected.

.5 Notify Consultant, in writing at time of submission, identifying deviations from requirements of Contract Documents stating reasons for deviations.

.6 Verify field measurements and affected adjacent Work are co-ordinated.

.7 Contractor's responsibility for errors and omissions in submission is not relieved by Consultant's review of submittals.

.8 Contractor's responsibility for deviations in submission from requirements of Contract Documents is not relieved by Consultant review.

.9 Keep one reviewed copy of each submission on site.

1.2  SHOP DRAWINGS AND PRODUCT DATA

.1 The term "shop drawings" means drawings, diagrams, illustrations, schedules, performance charts, brochures and other data which are to be provided by Contractor to illustrate details of a portion of Work.

.2 Submit drawings stamped and signed by professional engineer registered or licensed in Province of Ontario Canada.

.3 Indicate materials, methods of construction and attachment or anchorage, erection diagrams, connections, explanatory notes and other information necessary for completion of Work. Where articles or equipment attach or connect to other articles or equipment, indicate that such items have been co-ordinated, regardless of Section under which adjacent items will be supplied and installed. Indicate cross references to design drawings and specifications.

.4 Allow 7 days for Consultant's review of each submission.

.5 Adjustments made on shop drawings by Consultant are not intended to change Contract Price. If adjustments affect value of Work, state such in writing to Consultant prior to proceeding with Work.

.6 Make changes in shop drawings as Consultant may require, consistent with Contract Documents. When resubmitting, notify Consultant in writing of revisions other than those requested.

.7 Accompany submissions with transmittal letter, containing:

.1 Date.

.2 Project title and number.

.3 Contractor's name and address.

.4 Identification and quantity of each shop drawing, product data and sample.

.5 Other pertinent data.
Submissions include:

1. Date and revision dates.
2. Project title and number.
3. Name and address of:
   1. Subcontractor.
   2. Supplier.
   3. Manufacturer.
4. Contractor's stamp, signed by Contractor's authorized representative certifying approval of submissions, verification of field measurements and compliance with Contract Documents.
5. Details of appropriate portions of Work as applicable:
   1. Fabrication.
   2. Layout, showing dimensions, including identified field dimensions, and clearances.
   3. Setting or erection details.
   5. Performance characteristics.
   7. Operating weight.
   8. Wiring diagrams.
10. Relationship to adjacent work.

After Consultant's review, distribute copies.
10. Submit 6 prints or 1 electronic copy of shop drawings for each requirement requested in specification Sections and as Consultant may reasonably request.
11. Submit 6 prints or 1 electronic copies of product data sheets or brochures for requirements requested in specification Sections and as requested by Consultant where shop drawings will not be prepared due to standardized manufacture of product.
12. Submit 6 copies or 1 electronic copy of test reports for requirements requested in specification Sections and as requested by Consultant.
   1. Report signed by authorized official of testing laboratory that material, product or system identical to material, product or system to be provided has been tested in accord with specified requirements.
   2. Testing must have been within 3 years of date of contract award for project.
13. Submit 6 copies or 1 electronic copy of certificates for requirements requested in specification Sections and as requested by Consultant.
   1. Statements printed on manufacturer's letterhead and signed by responsible officials of manufacturer of product, system or material attesting that product, system or material meets specification requirements.
   2. Certificates must be dated after award of project contract complete with project name.
14. Submit 6 copies or 1 electronic copy of manufacturer's instructions for requirements requested in specification Sections and as requested by Consultant.
   1. Pre-printed material describing installation of product, system or material, including special notices and Material Safety Data Sheets concerning impedances, hazards and safety precautions.
15. Submit 6 copies or 1 electronic copy of Manufacturer's Field Reports for requirements requested in specification Sections and as requested by Consultant.
16. Documentation of the testing and verification actions taken by manufacturer's representative to confirm compliance with manufacturer's standards or instructions.
17. Submit 1 Hard copy and 1 digital copy (PDF Format) of Operation and Maintenance Data for requirements requested in specification Sections and as requested by Consultant.
18. Delete information not applicable to project.
19. Supplement standard information to provide details applicable to project.
If upon review by Consultant, no errors or omissions are discovered or if only minor corrections are made, copies will be returned and fabrication and installation of Work may proceed. If shop drawings are rejected, noted copy will be returned and resubmission of corrected shop drawings, through same procedure indicated above, must be performed before fabrication and installation of Work may proceed.

1.3 SAMPLES

.1 Submit for review samples in duplicate as requested in respective specification Sections. Label samples with origin and intended use.

.2 Deliver samples prepaid to Consultant's business address.

.3 Notify Consultant in writing, at time of submission of deviations in samples from requirements of Contract Documents.

.4 Where colour, pattern or texture is criterion, submit full range of samples.

.5 Make changes in samples which Consultant may require, consistent with Contract Documents.

.6 Reviewed and accepted samples will become standard of workmanship and material against which installed Work will be verified.

PART 2 – PRODUCTS – Not Used
PART 3 – EXECUTION – Not used

End Of Section
Part 1 General

1.1 SECTION INCLUDES

.1 Health and safety considerations required to ensure that the Contractor shows due diligence towards health and safety on construction sites.

1.2 REFERENCES

.1 Canada Labour Code, Part 2, Canada Occupational Safety and Health Regulations
.2 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
.1 Material Safety Data Sheets (MSDS).
.2 Occupational Health and Safety Act, S.N.S. 1996.
.3 Province of Ontario

1.3 HEALTH & SAFETY

.1 The Owner is firmly committed to Corporate Health & Safety.
.2 The Contractor shall have Corporate Health and Safety Policies and Procedures as required in the Occupational Health and Safety Act and Regulations for Construction Projects, R.S.O. 1980.
.3 To provide a safe and healthy work environment the Contractor warrants and confirms:
.1 that it has a written Health and Safety policy in place in accordance with the Occupational Health and Safety Act, R.S.O. 1990;
.2 that the appropriate instruction and training has been provided to the employees in accordance with the Occupational Health and Safety Act, R.S.O. 1990 and
.3 that the works shall be undertaken in strict accordance with all applicable provisions of the Occupational Health and Safety Act.

Note: In cases of discrepancy in document content, the Policy or Procedure providing the highest level of Health and Safety shall govern.

.4 The Bidder's documentation and commitment to Health & Safety will be a requirement of this contract.
.4 Submit copies of incident and accident reports.

1.4 FILING OF NOTICE

.1 File Notice of Project with Ontario Ministry of Labour prior to beginning of Work.

1.5 REGULATORY REQUIREMENTS

.1 Do Work in accordance with Section 01 41 00 - Regulatory Requirements.

1.6 RESPONSIBILITY

.1 Be responsible for health and safety of persons on site, safety of property on site and for protection of persons adjacent to site and environment to extent that they may be affected by conduct of Work.
.2 Comply with and enforce compliance by employees with safety requirements of Contract Documents, applicable federal, provincial, territorial and local statutes, regulations, and ordinances.

1.7 COMPLIANCE REQUIREMENTS

.1 Comply with Ontario Health and Safety Act, R.S.O.
.2 Comply with Canada Labour Code, Canada Occupational Safety and Health Regulations.
1.8 **UNFORSEEN HAZARDS**
.1 When unforeseen or peculiar safety-related factor, hazard, or condition occur during performance of Work, follow procedures in place for Employee's Right to Refuse Work in accordance with Acts and Regulations of Province of Ontario having jurisdiction and advise Consultant verbally and in writing.

1.9 **POSTING OF DOCUMENTS**
.1 Ensure applicable items, articles, notices and orders are posted in conspicuous location on site in accordance with Acts and Regulations of Province of Ontario having jurisdiction.

1.10 **CORRECTION OF NON-COMPLIANCE**
.1 Immediately address health and safety non-compliance issues identified by authority having jurisdiction or by Consultant.
.2

1.11 **BLASTING**
.1 Blasting or other use of explosives is not permitted.

1.12 **POWDER ACTUATED DEVICES**
.1 Powder actuated devices are not permitted.

1.13 **WORK STOPPAGE**
.1 Give precedence to safety and health of public and site personnel and protection of environment over cost and schedule considerations for Work.

**PART 2 – PRODUCTS** – Not Used
**PART 3 – EXECUTION** – Not used

End Of Section
Part 1  General

1.1  FIRES
   .1 Fires and burning of rubbish on site not permitted.

1.2  DRAINAGE
   .1 Provide temporary drainage and pumping required to keep excavations and site free from water.
   .2 Ensure pumped water into waterways, sewer or drainage systems is free of suspended materials.
   .3 Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with local authority requirements.

1.3  SITE CLEARING AND PLANT PROTECTION
   .1 Protect trees and plants on site and adjacent properties as indicated.
   .2 Protect roots of designated trees to dripline during excavation and site grading to prevent disturbance or damage.
   .3 Avoid unnecessary traffic, dumping and storage of materials over root zones.

1.4  POLLUTION CONTROL
   .1 Maintain temporary erosion and pollution control features installed under this Contract.
   .2 Control emissions from equipment and plant in accordance with local authorities' emission requirements.
   .3 Cover or wet down dry materials and rubbish to prevent blowing dust and debris. Provide dust control for temporary roads.

1.5  NOTIFICATION
   .1 Consultant will notify Contractor in writing of observed noncompliance with Federal, Provincial or Municipal environmental laws or regulations, permits, and other elements of Contractor's Environmental Protection plan.
   .2 Contractor: after receipt of such notice, inform Consultant of proposed corrective action and take such action for approval by Consultant.
       .1 Take action only after receipt of written approval by Consultant.
   .3 Consultant will issue stop order of work until satisfactory corrective action has been taken.
   .4 No time extensions granted or equitable adjustments allowed to Contractor for such suspensions.

Part 2  Products  -  Not Used

Part 3  Execution

3.1  CLEANING
   .1 Ensure public waterways, storm and sanitary sewers remain free of waste and volatile materials disposal.
   .2 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
       .1 Leave Work area clean at end of each day.
   .3 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.
   .4 Waste Management: separate waste materials for reuse or recycling.
       .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility

End Of Section
Part 1  

General

1.1 REFERENCES AND CODES

.1 Perform Work in accordance with the Ontario Building Code (OBC) including amendments up to tender closing date and other codes of provincial or local application provided that in case of conflict or discrepancy, more stringent requirements apply.

.2 Meet or exceed requirements of:

.1 Contract documents.

.2 Specified standards, codes and referenced documents.

1.2 HAZARDOUS MATERIAL DISCOVERY

.1 Asbestos: demolition of spray or trowel-applied asbestos is hazardous to health. Stop work immediately when material resembling spray or trowel-applied asbestos is encountered during demolition work. Notify Consultant.

.2 Mould: stop work immediately when material resembling mould is encountered during demolition work. Notify Consultant.

PART 2 – PRODUCTS – Not Used
PART 3 – EXECUTION – Not used

End Of Section
Part 1 General

1.1 INSPECTION
   .1 Allow Owner and Consultant access to Work.
   .2 If Contractor covers or permits to be covered Work that has been designated for special tests, inspections or approvals before such is made, uncover such Work, have inspections or tests satisfactorily completed and make good such Work.
   .3 Give timely notice requesting inspection if Work is designated for special tests, inspections or approvals by consultants or law of Place of Work.
   .4 Consultant will order part of Work to be examined if Work is suspected to be not in accordance with Contract Documents. If, upon examination such work is found not in accordance with Contract Documents, correct such Work and pay cost of examination and correction. If such Work is found in accordance with Contract Documents, Owner shall pay cost of examination and replacement.

1.2 REJECTED WORK
   .1 Remove defective Work, whether result of poor workmanship, use of defective products or damage and whether incorporated in Work or not, which has been rejected by Consultant as failing to conform to Contract Documents. Replace or re-execute in accordance with Contract Documents.
   .2 If in opinion of Consultant it is not expedient to correct defective Work or Work not performed in accordance with Contract Documents, Owner will deduct from Contract Price difference in value between Work performed and that called for by Contract Documents, amount of which will be determined by Consultant.

1.3 TESTING & REPORTS
   .1 Submit electronic copies of inspection and testing reports to Consultant.
   .2 Furnish test results and mix designs as requested.

1.4 MOCK-UPS
   .1 Prepare mock-ups for Work specifically requested in specifications. Include for Work of Sections required to provide mock-ups.
   .2 Prepare mock-ups for Consultants review with reasonable promptness and in orderly sequence, to not cause delays in Work.
   .3 Failure to prepare mock-ups in ample time is not considered sufficient reason for extension of Contract time and no claim for extension by reason of such default will be considered.
   .4 Mock-ups may remain as part of the work.

PART 2 – PRODUCTS – Not Used
PART 3 – EXECUTION – Not used

End Of Section
Part 1  General

1.1 INSTALLATION AND REMOVAL
   .1 Provide temporary utilities controls in order to execute work expeditiously.
   .2 Remove from site all such work after use.

1.2 DEWATERING
   .1 Provide temporary drainage and pumping facilities to keep excavations and site free from
      standing water.

1.3 WATER SUPPLY
   .1 Arrange, provide and pay for continuous supply of potable water for construction use.

1.4 TEMPORARY COMMUNICATION FACILITIES
   .1 Provide and pay for telephone, data and all necessary communication devices for own
      use.

1.5 FIRE PROTECTION
   .1 Burning rubbish and construction waste materials is not permitted on site.

PART 2 – PRODUCTS – Not Used
PART 3 – EXECUTION – Not used

End Of Section
Part 1 General

1.1 REFERENCES
   .1 Canadian Standards Association (CSA International)
   .2 CAN/CSA-Z321-96(R2006), Signs and Symbols for the Occupational Environment.

1.2 INSTALLATION AND REMOVAL
   .1 Provide construction facilities in order to execute work expeditiously.
   .2 Remove from site all such work after use.

1.3 SCAFFOLDING
   .1 Scaffolding in accordance with CAN/CSA-S269.2.
   .2 Provide and maintain scaffolding, ramps, ladders, swing staging, platforms.

1.4 SITE STORAGE/LOADING
   .1 Confine work and operations of employees by Contract Documents. Do not unreasonably encumber premises with products.
   .2 Do not load or permit to load any part of Work with weight or force that will endanger Work.

1.5 CONSTRUCTION PARKING
   .1 Parking will be permitted on site in designated areas only.
   .2 Provide and maintain adequate access to project site.

1.6 EQUIPMENT, TOOL AND MATERIALS STORAGE
   .1 Provide and maintain, in clean and orderly condition, lockable weatherproof sheds for storage of tools, equipment and materials.
   .2 Locate materials not required to be stored in weatherproof sheds on site in manner to cause least interference with work activities.

1.7 SANITARY FACILITIES
   .1 Provide sanitary facilities for work force in accordance with governing regulations and ordinances.
   .2 Post notices and take precautions as required by local health authorities. Keep area and premises in sanitary condition.

1.8 CLEAN-UP
   .1 Remove construction debris, waste materials, packaging material from work site daily.
   .2 Clean dirt or mud tracked onto paved or surfaced roadways.

PART 2 – PRODUCTS – Not Used
PART 3 – EXECUTION – Not used

End Of Section
Part 1  General

1.1 INSTALLATION AND REMOVAL
   .1 Provide temporary controls in order to execute Work expeditiously.
   .2 Remove from site all such work after use.

1.2 SITE FENCING | PROTECTION
   .1 Erect temporary site enclosure using new 6'-0" (1.8 m) high portable construction fence.
      Provide minimum one lockable truck gate. Maintain fence in good repair.
   .2 Provide barriers around trees and plants designated to remain. Protect from damage by
      equipment and construction procedures.

1.3 GUARD RAILS AND BARRICADES
   .1 Provide secure, rigid guard rails and barricades around deep excavations, open shafts,
      open stair wells, open edges of floors and roofs.
   .2 Provide as required by governing authorities.

1.4 ACCESS TO SITE
   .1 Provide and maintain access roads and sidewalk crossings, as may be required for
      access to Work.

1.5 FIRE ROUTES
   .1 Maintain access to property including overhead clearances for use by emergency
      response vehicles.

1.6 PROTECTION FOR OFF-SITE AND PUBLIC PROPERTY
   .1 Protect surrounding private and public property from damage during performance of
      Work.
   .2 Be responsible for damage incurred.
   .3 DO NOT park or drive on the church parking lot adjacent to the school yard.

1.7 PROTECTION OF BUILDING FINISHES
   .1 Provide protection for finished areas of building and equipment during performance of
      Work.
   .2 Provide necessary screens, covers, and hoardings.
   .3 Be responsible for damage incurred due to lack of or improper protection.

PART 2 – PRODUCTS – Not Used
PART 3 – EXECUTION – Not used

End Of Section
Part 1 General

1.1 REFERENCES
.1 Within text of each specifications section, reference may be made to reference standards.
.2 Conform to these reference standards, in whole or in part as specifically requested in specifications.
.3 If there is question as to whether products or systems are in conformance with applicable standards, Consultant reserves right to have such products or systems tested to prove or disprove conformance.
.4 Cost for such testing will be borne by Owner in event of conformance with Contract Documents or by Contractor in event of non-conformance.

1.2 QUALITY
.1 Products, materials, equipment and articles incorporated in Work shall be new, not damaged or defective, and of best quality for purpose intended. If requested, furnish evidence as to type, source and quality of products provided.
.2 Procurement policy is to acquire, in cost effective manner, items containing highest percentage of recycled and recovered materials practicable consistent with maintaining satisfactory levels of competition. Make reasonable efforts to use recycled and recovered materials and in otherwise utilizing recycled and recovered materials in execution of work.
.3 Defective products, whenever identified prior to completion of Work, will be rejected, regardless of previous inspections. Inspection does not relieve responsibility, but is precaution against oversight or error. Remove and replace defective products at own expense and be responsible for delays and expenses caused by rejection.
.4 Should disputes arise as to quality or fitness of products, decision rests strictly with Consultant based upon requirements of Contract Documents.
.5 Unless otherwise indicated in specifications, maintain uniformity of manufacture for any particular or like item throughout building.
.6 Permanent labels, trademarks and nameplates on products are not acceptable in prominent locations, except where required for operating instructions, or when located in mechanical or electrical rooms.

1.3 AVAILABILITY
.1 Immediately upon signing Contract, review product delivery requirements and anticipate foreseeable supply delays for items. If delays in supply of products are foreseeable, notify Consultant of such, in order that substitutions or other remedial action may be authorized in ample time to prevent delay in performance of Work.
.2 In event of failure to notify Consultant at commencement of Work and should it subsequently appear that Work may be delayed for such reason, Consultant reserves right to substitute more readily available products of similar character, at no increase in Contract Price or Contract Time.

1.4 STORAGE, HANDLING AND PROTECTION
.1 Handle and store products in manner to prevent damage, adulteration, deterioration and soiling and in accordance with manufacturer’s instructions when applicable.
.2 Store packaged or bundled products in original and undamaged condition with manufacturer’s seal and labels intact. Do not remove from packaging or bundling until required in Work.
.3 Store products subject to damage from weather in weatherproof enclosures.
.4 Store and mix paints in heated and ventilated room. Remove oily rags and other combustible debris from site daily. Take every precaution necessary to prevent spontaneous combustion.
.5 Remove and replace damaged products at own expense and to satisfaction of Consultant.

.6 Touch-up damaged factory finished surfaces to Consultant’s satisfaction. Use touch-up materials to match original. Do not paint over name plates.

1.5 TRANSPORTATION

.1 Pay costs of transportation of products required in performance of Work.

1.6 MANUFACTURER’S INSTRUCTIONS

.1 Unless otherwise indicated in specifications, install or erect products in accordance with manufacturer's instructions. Do not rely on labels or enclosures provided with products. Obtain written instructions directly from manufacturers.

.2 Notify Consultant in writing, of conflicts between specifications and manufacturer's instructions, so that Consultant will establish course of action.

.3 Improper installation or erection of products, due to failure in complying with these requirements, authorizes Consultant to require removal and re-installation at no increase in Contract Price or Contract Time.

1.7 QUALITY OF WORK

.1 Ensure Quality of Work is of highest standard, executed by workers experienced and skilled in respective duties for which they are employed. Immediately notify Consultant if required Work is such as to make it impractical to produce required results.

.2 Do not employ anyone unskilled in their required duties. Consultant reserves right to require dismissal from site, workers deemed incompetent or careless.

.3 Decisions as to standard or fitness of Quality of Work in cases of dispute rest solely with Consultant, whose decision is final.

1.8 CO-ORDINATION

.1 Ensure co-operation of workers in laying out Work. Maintain efficient and continuous supervision.

.2 Be responsible for coordination and placement of openings, sleeves and accessories.

1.9 CONCEALMENT

.1 In finished areas conceal pipes, ducts and wiring in floors, walls and ceilings, except where indicated otherwise.

.2 Before installation inform Consultant if there is interference. Install as directed by Consultant.

1.10 REMEDIAL WORK

.1 Perform remedial work required to repair or replace parts or portions of Work identified as defective or unacceptable. Co-ordinate adjacent affected Work as required.

.2 Perform remedial work by specialists familiar with materials affected. Perform in a manner to neither damage nor put at risk any portion of Work.

1.11 LOCATION OF FIXTURES

.1 Consider location of fixtures, outlets, and mechanical and electrical items indicated as approximate.

.2 Inform Consultant of conflicting installation. Install as directed.

1.12 FASTENINGS

.1 Provide metal fastenings and accessories in same texture, colour and finish as adjacent materials, unless indicated otherwise.

.2 Prevent electrolytic action between dissimilar metals and materials.
.3 Use non-corrosive hot dip galvanized steel fasteners and anchors for securing exterior work, unless stainless steel or other material is specifically requested in affected specification Section.

.4 Space anchors within individual load limit or shear capacity and ensure they provide positive permanent anchorage. Wood, or any other organic material plugs are not acceptable.

.5 Keep exposed fastenings to a minimum, space evenly and install neatly.

.6 Fastenings which cause spalling or cracking of material to which anchorage is made are not acceptable.

1.13 FASTENINGS - EQUIPMENT

.1 Use fastenings of standard commercial sizes and patterns with material and finish suitable for service.

.2 Use heavy hexagon heads, semi-finished unless otherwise specified. Use No. 304 stainless steel for exterior areas.

.3 Bolts may not project more than one diameter beyond nuts.

.4 Use plain type washers on equipment, sheet metal and soft gasket lock type washers where vibrations occur. Use resilient washers with stainless steel.

1.14 PROTECTION OF WORK IN PROGRESS

.1 Prevent overloading of parts of building. Do not cut, drill or sleeve load bearing structural member, unless specifically indicated without written approval of Consultant.

1.15 EXISTING UTILITIES

.1 When breaking into or connecting to existing services or utilities, execute Work at times directed by local governing authorities, with minimum of disturbance to Work.

.2 Protect, relocate or maintain existing active services. When services are encountered, cap off in manner approved by authority having jurisdiction. Record location of capped service.

PART 2 – PRODUCTS – Not Used
PART 3 – EXECUTION – Not used

End Of Section
Part 1  General

1.1  SURVEY REFERENCE POINTS

.1 Existing base horizontal and vertical control points are designated on drawings.
.2 Locate, confirm and protect control points prior to starting site work. Preserve permanent reference points during construction.
.3 Report to consultant when reference point is lost or destroyed, or requires relocation because of necessary changes in grades or locations.
.4 Require surveyor to replace control points in accordance with original survey control.

1.2  SURVEY REQUIREMENTS

.1 Establish permanent bench marks on site, referenced to established bench marks by survey control points. Record locations, with horizontal and vertical data in Project Record Documents.
.2 Establish lines and levels, locate and lay out, by instrumentation.
.3 Stake for grading, and fill placement.
.4 Establish pipe invert elevations.
.5 Stake batter boards
.6 Establish foundations, column locations and floor elevations.
.7 Establish lines and levels for mechanical and electrical work.

1.3  EXISTING SERVICES

.1 Before commencing work, establish location and extent of service lines in area of Work.
.2 Remove abandoned service lines within 6 feet of structures. Cap or otherwise seal lines at cut-off points.

1.4  LOCATION OF EQUIPMENT AND FIXTURES

.1 Location of equipment, fixtures and outlets indicated or specified are to be considered as approximate.
.2 Locate equipment, fixtures and distribution systems to provide minimum interference and maximum usable space and in accordance with manufacturer's recommendations for safety, access and maintenance.
.3 Submit field drawings to indicate relative position of various services and equipment.

1.5  RECORDS

.1 Maintain a complete, accurate log of control and survey work as it progresses.
.2 Record locations of maintained, re-routed and abandoned service lines.

1.6  SUBSURFACE CONDITIONS

.1 Promptly notify Consultant in writing if subsurface conditions at Place of Work differ materially from those indicated in Geotechnical Report

After prompt investigation, should Consultant determine that conditions do differ materially, instructions will be issued for changes in Work accordingly.

PART 2 – PRODUCTS  – Not Used
PART 3 – EXECUTION  – Not used

End of Section
Part 1  General

1.1  SUBMITTALS
   .1 Submittals: in accordance with Section 01 33 00 - Submittal Procedures.
   .2 Submit written request in advance of cutting or alteration which affects:
      .1 Structural integrity of elements of project.
      .2 Integrity of weather-exposed or moisture-resistant elements.
      .3 Efficiency, maintenance, or safety of operational elements.
      .4 Visual qualities of sight-exposed elements.
      .5 Work of Owner or separate contractor.
   .3 Include in request:
      .1 Identification of project.
      .2 Location and description of affected Work.
      .3 Statement on necessity for cutting or alteration.
      .4 Description of proposed Work, and products to be used.
      .5 Alternatives to cutting and patching.
      .6 Effect on Work of Owner or separate contractor.
      .7 Written permission of affected separate contractor.
      .8 Date and time work will be executed.

1.2  MATERIALS
   .1 Required for original installation.
   .2 Change in Materials: Submit request for substitution in accordance with Section 01 33 00 - Submittal Procedures.

1.3  PREPARATION
   .1 Inspect existing conditions, including elements subject to damage or movement during cutting and patching.
   .2 After uncovering, inspect conditions affecting performance of Work.
   .3 Beginning of cutting or patching means acceptance of existing conditions.
   .4 Provide supports to assure structural integrity of surroundings; provide devices and methods to protect other portions of project from damage.
   .5 Provide protection from elements for areas which are to be exposed by uncovering work; maintain excavations free of water.

1.4  EXECUTION
   .1 Execute cutting, fitting, and patching to complete Work.
   .2 Fit several parts together, to integrate with other Work.
   .3 Uncover Work to install ill-timed Work.
   .4 Remove and replace defective and non-conforming Work.
   .5 Provide openings in non-structural elements of Work for penetrations of mechanical and electrical Work.
   .6 Execute Work by methods to avoid damage to other Work, and which will provide proper surfaces to receive patching and finishing.
   .7 Employ original installer to perform cutting and patching for weather-exposed and moisture-resistant elements, and sight-exposed surfaces.
   .8 Cut rigid materials using masonry saw or core drill. Pneumatic or impact tools not allowed on masonry work without prior approval.
   .9 Restore work with new products in accordance with requirements of Contract Documents.
   .10 Fit Work airtight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
   .11 At penetration of fire rated wall, ceiling, or floor construction, completely seal voids with firestopping material, full thickness of the construction element.
.12 Refinish surfaces to match adjacent finishes: Refinish continuous surfaces to nearest intersection. Refinish assemblies by refinishing entire unit.

.13 Conceal pipes, ducts and wiring in floor, wall and ceiling construction of finished areas except where indicated otherwise.

PART 2 – PRODUCTS – Not Used
PART 3 – EXECUTION – Not used

End Of Section
Part 1   General

1.1 PROJECT CLEANLINESS

.1 Maintain Work in tidy condition, free from accumulation of waste products and debris.
.2 Remove waste materials from site at regularly scheduled times. Do not burn waste materials on site.
.3 Clear snow and ice from access to building, remove from site.
.4 Make arrangements with and obtain permits from authorities having jurisdiction for disposal of waste and debris.
.5 Provide on-site containers for collection of waste materials and debris.
.6 Provide and use marked separate bins for recycling.
.7 Dispose of waste materials and debris off site.
.8 Store volatile waste in covered metal containers, and remove from premises at end of each working day.
.9 Use only cleaning materials recommended by manufacturer of surface to be cleaned, and as recommended by cleaning material manufacturer.
.10 Schedule cleaning operations so that resulting dust, debris and other contaminants will not fall on wet, newly painted surfaces nor contaminate building systems.

1.2 FINAL CLEANING

.1 Refer to CCDC 2, GC 3.14.
.2 When Work is Substantially Performed remove surplus products, tools, construction machinery and equipment not required for performance of remaining Work.
.3 Remove waste products and debris other than that caused by others, and leave Work clean and suitable for occupancy.
.4 Prior to final review remove surplus products, tools, construction machinery and equipment.
.5 Remove waste materials from site at regularly scheduled times. Do not burn waste materials on site.
.6 Make arrangements with and obtain permits from authorities having jurisdiction for disposal of waste and debris.
.7 Remove stains, spots, marks and dirt from decorative work, electrical and mechanical fixtures, furniture fitments, walls.
.8 Clean lighting reflectors, lenses, and other lighting surfaces.
.9 Inspect finishes, fitments and equipment and ensure specified workmanship and operation.
.10 Broom clean and wash exterior walks, steps and surfaces; rake clean other surfaces of grounds.
.11 Remove dirt and other disfiguration from exterior surfaces.
.12 Sweep and wash clean paved areas.
.13 Clean equipment and fixtures to sanitary condition; clean or replace filters of mechanical equipment.
.14 Remove snow and ice from access to building.

1.3 WASTE MANAGEMENT AND DISPOSAL

.1 Separate waste materials for reuse or recycling.

PART 2 – PRODUCTS – Not Used
PART 3 – EXECUTION – Not used

End Of Section
Part 1  General

1.1  ADMINISTRATIVE PROCEDURES
   .1  Acceptance of Work Procedures:
      .1  Contractor's Inspection: conduct inspection of Work, identify deficiencies and
defects, and repair as required to conform to Contract documents.
      .2  Notify Consultant in writing of satisfactory completion of Contractors inspection
and submit verification that corrections have been made.
      .3  Request Consultants inspections
      .4  Consultants and Contractor to inspect Work and identify defects and deficiencies.
          Contractor to correct Work as directed.
   .2  Completion Tasks: submit written certificates and tasks have been performed as follows:
      .1  Work completed and inspected in compliance with Contract Documents.
      .2  Defects / deficiencies have been corrected and completed
      .3  Equipment and systems: Tested and balanced and fully operational as per
          Mechanical and electrical specifications.
      .4  Operations of systems demonstrated to Owner's personnel.

1.2  CLOSEOUT PROCEDURES
   .1  The Consultant will not commence deficiency review until the General Contractor's own
itemized deficiencies have been completed. The Consultant will make one inspection for
deficiencies review and one final review at completion of all items. Each additional Site
review will be made at a cost of $1,200.00 per visit to be paid by the General Contractor.
   .2  Contractor to accompany Consultant on deficiency inspection.
   .3  Contractor to correct items of work listed on deficiency list in an efficient manner to allow
owner areas to be turned over to Owner in a timely manner.
   .4  Notify in writing to Consultant when all corrective work is completed.

1.3  ACTION AND INFORMATIONAL SUBMITTALS
   .1  Two weeks prior to Substantial Performance of the Work, submit to the Consultant one
(1) hard copy and one (1) digital copy of final operating and maintenance manuals in
English, and hard copy of Record Drawings.
   .2  Provide spare parts, maintenance materials and special tools of same quality and
manufacture as products provided in Work.

1.4  FORMAT
   .1  Organize data as instructional manual.
   .2  Binders: vinyl, hard covered, 3 'D' ring, loose leaf, to suit 8 ½' x 11’ size paper, with spine
and face pockets.
   .3  Cover: identify each binder with type or printed title 'Project Record Documents'; list title
of project and identify subject matter of contents.
   .4  Arrange content by systems, under Section numbers and sequence of Table of Contents.
   .5  Provide tabbed fly leaf for each separate product and system, with typed description of
product and major component parts of equipment.
   .6  Text: manufacturer's printed data, or typewritten data.
   .7  Drawings: provide with reinforced punched binder tab, bind in with text; fold larger
drawings to size of text pages.

1.5  CONTENTS - PROJECT RECORD DOCUMENTS
   .1  Table of Contents for Each Volume: provide title of project;
      .1  Date of submission; names.
      .2  Addresses, and telephone numbers of Consultant and Contractor with name of
responsible parties.
1.6 AS -BUILT DOCUMENTS AND SAMPLES

Maintain, at site one record copy of:

2. Specifications.
3. Addenda.
4. Change Orders and other modifications to Contract.
5. Reviewed shop drawings, product data, and samples.
6. Field test records.
7. Inspection certificates.
8. Manufacturer's certificates.

Store record documents and samples in field office apart from documents used for construction.

Maintain record documents in clean, dry and legible condition. Do not use record documents for construction purposes.

Keep record documents and samples available for inspection by Consultant.

1.7 RECORDING INFORMATION ON PROJECT RECORD DOCUMENTS

Record information on set of opaque drawings.

Use felt tip or ball point pens to record information, maintaining separate colours for each major system.

Record information concurrently with construction progress. Do not conceal Work until required information is recorded.

Contract Drawings and shop drawings: mark each item to record actual construction, including:

1. Field changes of dimension and detail.
2. Changes made by change orders.
3. Details not on original Contract Drawings.
4. References to related shop drawings and modifications.

Other Documents: maintain manufacturer's certifications, inspection certifications, field test records, required by individual specifications sections.

Provide digital photos, if requested, for site records.

Prior to Substantial Performance deliver Record Documents to Consultant for preparation of digital As Built Drawings. Consultant will transfer notations from opaque drawings to digital format.

1.8 MATERIALS AND FINISHES

Building products, applied materials, and finishes: include product data, with catalogue number, size, composition, and colour and texture designations.

Instructions for cleaning agents and methods, precautions against detrimental agents and methods, and recommended schedule for cleaning and maintenance.
.3 Moisture-protection and weather-exposed products: include manufacturer's recommendations for cleaning agents and methods, precautions against detrimental agents and methods, and recommended schedule for cleaning and maintenance.

.4 Additional requirements: as specified in individual specifications sections.

1.9 MAINTENANCE MATERIALS

.1 Spare Parts, Extra Stock Materials and Special Tools:
   .1 Provide, in quantities specified in individual specification sections.
   .2 Provide items of same manufacture and quality as items in Work.
   .3 Deliver to site; place and store.
   .4 Receive and catalogue items.
   .5 Include inventory listings in Maintenance Manual.

.10 DELIVERY, STORAGE AND HANDLING

.1 Store spare parts, maintenance materials, and special tools in manner to prevent damage or deterioration.
.2 Store in original and undamaged condition with manufacturer's seal and labels intact.
.3 Store components subject to damage from weather in weatherproof enclosures.
.4 Store paints and freezable materials in a heated and ventilated room.

1.11 WARRANTIES AND BONDS

.1 Assemble warranty and bond information in binder, submit upon acceptance of work and organize binder as follows:
   .1 Separate each warranty or bond with index tab sheets keyed to Table of Contents listing.
   .2 List subcontractor, supplier, and manufacturer, with name, address, and telephone number of responsible principal.
   .3 Obtain warranties and bonds, executed in duplicate by subcontractors, suppliers, and manufacturers, within ten days after completion of applicable item of work.
   .4 Verify that documents are in proper form, contain full information, and are notarized.
   .5 Co-execute submittals when required.
   .6 Retain warranties and bonds until time specified for submittal.

.2 Leave date of beginning of time of warranty until Date of Substantial Performance is determined.
.3 Respond in timely manner to oral or written notification of required construction warranty repair work.

PART 2 – PRODUCTS – Not Used
PART 3 – EXECUTION – Not used

End Of Section
Part 1  General

1.1  REFERENCES
   .1 Canadian Standards Association (CSA International)

1.2  SITE CONDITIONS
   .1 Take precautions to protect the environment.
      .1 Do not proceed until written instructions have been received from Consultant.
   .2 Notify Owner and Consultant in writing, minimum 6 days before disrupting building access or services.

Part 2  Products - Not Used

Part 3  Execution

3.1  EXAMINATION
   .1 Inspect site with Consultant and verify extent and location of items designated for removal, disposal, alternative disposal, recycling, salvage and items to remain.
   .2 Locate and protect utilities. Preserve active utilities traversing site in operating condition.
   .3 Notify and obtain approval of utility companies before starting demolition.
   .4 Disconnect, cap, plug or divert, as required, existing public utilities within the property where they interfere with the execution of the work, in conformity with the requirements of the authorities having jurisdiction. Mark the location of these and previously capped or plugged services on the site and indicate location (horizontal and vertical) on the record drawings. Support, shore up and maintain pipes and conduits encountered.
      .1 Immediately notify Consultant and utility company concerned in case of damage to any utility or service, designated to remain in place.
      .2 Immediately notify the Consultant should uncharted utility or service be encountered, and await instruction in writing regarding remedial action.

3.2  PREPARATION
   .1 Temporary Erosion and Sedimentation Control:
      .1 Provide temporary erosion and sedimentation control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.
      .2 Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal after completion of demolition work.
   .2 Protection of In-Place Conditions:
      .1 Prevent movement, settlement, or damage to adjacent structures, utilities, and landscaping features to remain in place. Provide bracing and shoring required.
      .2 Keep noise, dust, and inconvenience to occupants to minimum.
      .3 Protect building systems, services and equipment.
      .4 Provide temporary dust screens, covers, railings, supports and other protection as required.
      .5 Do Work in accordance with Section 01 35 29 - Health and Safety Requirements.
.3 Demolition/Removal:
  .1 Remove items as indicated.
  .2 Removal of Pavements, Curbs and Gutters:
    .1 Square up adjacent surfaces to remain in place by saw cutting or other method approved by Consultant.
    .2 Protect adjacent joints and load transfer devices.
    .3 Protect underlying and adjacent granular materials designated to remain.

3.3 CLEANING
  .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
  .1 Leave Work area clean at end of each day.
  .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.
  .3 Refer to demolition drawings and specifications for items to be salvaged for reuse.
  .4 Waste Management: separate waste materials for reuse or recycling.
    .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

End Of Section
PART 1 - GENERAL

1.1 Protection
   .1 Prevent damage to existing site features which are to be retained such as fencing, bench marks, trees, landscaping, pavement, utility lines. Make good any damage.

1.2 Site Conditions
   .1 Known underground and surface utility lines and buried objects are indicated on site plan and/or survey plan (approximate only). Contractor shall confirm locations and nature of all existing site services prior to commencement of work.

PART 2 - PRODUCTS- Not Used

PART 3 - EXECUTION

3.1 Preparation
   .1 Inspect site and verify with Consultant items designated to remain, prior to commencement of work.
   .2 Locate and protect utility lines. Preserve in operating condition active utilities traversing site.

3.2 Clearing and Grubbing
   .1 Grub out stumps, roots, rubbish and other non-perishable material over 2” (50 mm) to minimum depth of 2’-0” (600 mm) below indicated finish grade from cleared areas. Remove embedded rocks less than 1 cubic yard (0.25 cubic m) encountered during clearing operations.
   .2 Clear site free of trees, scrub plants, debris, rocks and stumps unless noted to be retained, prior to stripping operation.
   .3 Dispose of cleared and grubbed material by hauling away from site. Pay all fees associated with excess soil material.
   .4 Dispose of all excess materials legally. Pay all fees associated with entry and disposal at landfill site, as necessary.

End Of Section
Part 1  General

1.1  RELATED WORK
   .1  Clearing & Grubbing: Section 31 11 00
   .2  Hydroseeding: Section 32 91 19

1.2  QUALITY ASSURANCE
   .1  Test Reports: certified test reports showing compliance with specified
       performance characteristics and physical properties.
   .2  Certificates: product certificates signed by manufacturer certifying materials
       comply with specified performance characteristics and criteria and physical
       requirements.

1.3  QUALITY CONTROL
   .1  Contractor is responsible for soil analysis and requirements for amendments to
       supply topsoil as specified.
   .2  Soil testing by recognized testing facility for PH, P and K, and organic matter.

1.4  WASTE MANAGEMENT AND DISPOSAL
   .1  Separate waste materials for reuse and recycling.
   .2  Divert unused soil from landfill.
   .3  Do not dispose of unused soil amendments into sewer systems, into lakes,
       streams, onto ground or in locations where it will pose health or environmental
       hazard.

Part 2  Products

2.1  TOPSOIL
   .1  Topsoil for seeded areas: mixture of mineral particulates, micro organisms and
       organic matter which provides suitable medium for supporting intended plant
       growth.
       .1  Soil texture based on The Canadian System of Soil Classification, to
           consist of 20% to 70% sand, minimum 7% clay, and contain 2 to 10 %
           organic matter by weight.
       .2  Contain no toxic elements or growth inhibiting materials.
       .3  Free from:
           .1  Debris and stones over 50 mm diameter.
           .2  Course vegetative material, 10 mm diameter and 100 mm length,
               occupying more than 2% of soil volume.
       .4  Consistence: friable when moist.

2.2  SOIL AMENDMENTS
   .1  Fertilizer
   .1  Fertility: major soil nutrients present in following amounts:
   .2  Nitrogen (N): 20 to 40 micrograms of available N per gram of topsoil.
   .3  Phosphorus (P): 40 to 50 micrograms of phosphate per gram of topsoil.
   .4  Potassium (K): 75 to 110 micrograms of potassium per gram of topsoil.
   .5  Calcium, magnesium, sulfur and micro-nutrients present in balanced
       ratios to support germination and/or establishment of intended
       vegetation.
   .6  Ph value: 6.5 to 8.0.
.2 Peatmoss:
   .1 Derived from partially decomposed species of Sphagnum Mosses.
   .2 Elastic and homogeneous, brown in colour.
   .3 Free of wood and deleterious material which could prohibit growth.
   .4 Shredded particle minimum size: 5 mm.

.3 Sand: washed coarse silica sand, medium to course textured.

.4 Limestone:
   .1 Ground agricultural limestone.
   .2 Gradation requirements: percentage passing by weight, 90% passing 1.0 mm sieve, 50% passing 0.125 mm sieve.

.5 Fertilizer: industry accepted standard medium containing nitrogen, phosphorous, potassium and other micro-nutrients suitable to specific plant species or application or defined by soil test.

Part 3 Execution

3.1 STRIPPING OF TOPSOIL
   .1 Do not handle topsoil while in wet or frozen condition or in any manner in which soil structure is adversely affected.
   .2 Commence topsoil stripping of areas as indicated after area has been cleared of brush weeds and grasses and removed from site.
   .3 Strip topsoil to depths as indicated. Avoid mixing topsoil with subsoil where textural quality will be moved outside acceptable range of intended application.
   .4 Stockpile in locations as directed by Owner’s Representative. Stockpile height not to exceed 2 m.
   .5 Disposal of unused topsoil.
   .6 Protect stockpiles from contamination and compaction.

3.2 PREPARATION OF EXISTING GRADE
   .1 Verify that grades are correct. If discrepancies occur, notify Owner’s Representative and do not commence work until instructed by Owner’s Representative.
   .2 Grade soil, eliminating uneven areas and low spots, ensuring positive drainage.
   .3 Remove debris, roots, branches, stones in excess of 50 mm diameter and other deleterious materials. Remove soil contaminated with calcium chloride, toxic materials and petroleum products. Remove debris which protrudes more than 75 mm above surface. Dispose of removed material off site.
   .4 Course cultivate entire area which is to receive topsoil to minimum depth of 100 mm. Cross cultivate those areas where equipment used for hauling and spreading has compacted soil.

3.3 PLACING AND SPREADING OF TOPSOIL/PLANTING SOIL
   .1 Place topsoil after Owner’s Representative has accepted subgrade.
   .2 Spread topsoil in uniform layers not exceeding 150 mm, over unfrozen subgrade free of standing water.
   .3 For sodded areas keep topsoil 50/100 mm below finished grade.
   .4 Spread topsoil as indicated to following minimum depths after settlement and 80% compaction:
      .1 150 mm for seeded areas.
      .2 135 mm for sodded areas.
      .3 300 mm for flower beds.
      .4 500 mm for shrub beds.
   .5 Manually spread topsoil/planting soil around trees, shrubs and obstacles.
3.4 **FINISH GRADING**

.1 Grade to eliminate rough spots and low areas and ensure positive drainage. Prepare loose friable bed by means of cultivation and subsequent raking.

.2 Consolidate topsoil to required bulk density using equipment approved by Owner’s Representative. Leave surfaces smooth, uniform and firm against deep footprinting.

3.5 **ACCEPTANCE**

.1 Owner’s Representative will inspect and test topsoil in place and determine acceptance of material, depth of topsoil and finish grading. Approval of topsoil material subject to soil testing and analysis.

3.6 **RESTORATION OF STOCKPILE SITES**

.1 Restore stockpile sites acceptable to Owner’s Representative.

3.7 **SURPLUS MATERIAL**

.1 Dispose of materials not required where directed by Owner’s Representative.

3.8 **CLEANING**

.1 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

*End Of Section*
Part 1  General

1.1  ACTION AND INFORMATIONAL SUBMITTALS
   .1  Submit in accordance with Section 01 33 00 - Submittal Procedures.
   .2  Product Data:
      .1  Submit manufacturer’s instructions, printed product literature and data sheets for
          concrete mixes, fences, posts and gates and include product characteristics,
          performance criteria, physical size, finish and limitations.

1.2  DELIVERY, STORAGE AND HANDLING
   .1  Deliver, store and handle materials in accordance with Section 01 61 00 - Common
       Product Requirements with manufacturer’s written instructions.
   .2  Delivery and Acceptance Requirements: deliver materials to site in original factory
       packaging, labelled with manufacturer’s name and address.
   .3  Storage and Handling Requirements:
      .1  Store materials in accordance with manufacturer’s recommendations.
      .2  Store and protect fence and gate materials from damage.
      .3  Replace defective or damaged materials with new.
   .4  Packaging Waste Management: remove for reuse of pallets, crates, padding, packaging
       materials.

Part 2  Products

2.1  WIRE FENCE
   .1  Fabric: Type 1 Class A, Zinc-coated fabric after weaving shall be 1.2 oz, woven in a 2”
       mesh. Top and bottom salvage to have knuckled finish.
   .2  Line Posts: 2 ½” outside diameter, standard butt-weld Schedule 40 pipe, galvanized, 33”
       longer than fabric.
   .3  Terminal Posts: 3 ½ diameter, standard butt-weld Schedule 40 pipe, galvanized, 3’-6”
       longer than fabric height.
   .4  Concrete footings: 10” diameter by 4’-0” deep 20 MPa.
   .5  Line Post Tops: galvanized pressed steel, maleable iron or cast. Top to accommodate 3
       ¼” (42.9 mm) outer diameter top rail in horizontal position.
   .6  Top Rail: 1 11/16” outer dimension galvanized pipe, plan ends, random lengths, standard
       butt-weld Schedule 40 pipe.
   .7  Fittings: hot dipped galvanized pressed steel, aluminum or non-metallic mouldings of
       sufficient strength to ensure the integrity of the fence.
   .8  Tension wire: number 6 gauge, single strand vinyl coated (colour to match mesh) wire
       shall be stretch taut along the bottom of the fabric and fastened at 1’-6” intervals.
   .9  Hinges, latches etc. as required for gate installation. Gate to be self closing.
   10  Gates and Gate frames: to ASTM A53, galvanized steel pipe, Pipe size to be 1 11/16” in
       diameter, powder-coated finish.
      .1  Fasten fence fabric to gate with Knuckle top.
      .2  Furnish gates with galvanized maleable iron hinges, latch and latch catch with
          provision for padlock which can be attached and operated from either side of
          installed gate. Gates to be self closing.
1.1 Fittings and hardware: cast aluminum alloy, galvanized steel or malleable or ductile cast iron. Post caps to provide waterproof fit, to fasten securely over posts and to carry top rail. Overhang tops to provide waterproof fit, to hold top rails and an inward projection to hold barbed wire overhang. Provide projection with clips or recesses to hold 3 strands of barbed wire spaced 100 mm apart. Projection of approximately 300 mm long to project from fence at 45° above horizontal. Turnbuckles to be drop forged.

1.2 Organic zinc rich coating: to CGSB 1-GP-181M.

1.2 FINISHES

.1 All components to be galvanized steel finish

Part 3 Execution

3.1 GRADING

.1 Remove debris and correct ground undulations along fence line to obtain smooth uniform gradient between posts. Provide clearance between bottom of fence and ground surface neither less than 1 ¼” (30 mm) nor more than 2” (50 mm).

3.2 ERECTION OF FENCE

.1 Erect fence along lines as indicated.
.2 Excavate post holes 4’-0” (1200 mm) depth x 10” (254 mm) diameter by methods approved by Consultant.
.3 Space line posts 10’-0” (3 m) apart, measured parallel to ground surface.
.4 Space straining posts at equal intervals not exceeding 50’-0” (15 m) if distance between end or corner posts on straight continuous lengths of fence over reasonably smooth grade is greater than 50’-0” (15 m).
.5 Install additional straining posts at sharp changes in grade and where directed by Consultant.
.6 Install corner post where change in alignment exceeds 10 degrees.
.7 Install end posts at end of fence and at buildings. Install gate posts on both sides of gate openings.
.8 Place concrete in post holes then embed posts into concrete to minimum 4-0’ (1200 mm) depth. Extend concrete 2” (50 mm) above ground level and slope to drain away from posts. Brace to hold posts in plumb position and true to alignment and elevation until concrete has set.
.9 Do not install fence fabric until concrete has cured a minimum of 5 days.
.10 Install brace between end and gate posts and nearest line post, placed in centre of panel and parallel to ground surface. Install braces on both sides of corner and straining posts in similar manner.
.11 Install top rail between posts and fasten securely to terminal posts and secure waterproof caps and overhang tops.
.12 Install bottom tension wire, stretch tightly and fasten securely to end, corner, gate and straining posts with turnbuckles and tension bar bands.
.13 Lay out fence fabric. Stretch tightly to tension recommended by manufacturer and fasten to end, corner, gate and straining posts with tension bar secured to post with tension bar bands spaced at 300 mm intervals.
.14 Secure fabric to top rails, line posts and bottom tension wire with tie wires at 18” (450 mm) intervals. Give tie wires minimum two twists.
.15 All bolted connections to be sized so that when tightened, the bolt does not protrude beyond the nut by more than two threads.

3.3 INSTALLATION OF GATES
.1 Install gates in locations as indicated.
.2 Level contours between gate posts and set gate bottom approximately 1 ½" (40 mm) above ground surface.
.3 Install gate stops where indicated.
.4 All bolted connections to be sized so that when tightened, the bolt does not protrude beyond the nut by more than two threads.

3.4 CLEANING

.1 Clean and trim areas disturbed by operations. Dispose of surplus material.

END OF SECTION
Part 1  General

1.1 RELATED SECTIONS
Topsoil Placement, Fine Grading, Seeding

1.2 SUBMITTALS
.1 Submit Submittals in accordance with Section 01 33 00 - Submittal Procedures
.2 Product Data.
   .1 Provide product data for:
      .1 Seed.
      .2 Mulch.
      .3 Tackifier.
      .4 Fertilizer

1.3 QUALITY ASSURANCE
.1 Certificates: product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.
.2 Pre-Installation Meetings: conduct pre-installation meeting to verify project requirements, installation instructions and warranty requirements.

1.4 SCHEDULING
.1 Schedule hydraulic seeding to coincide with preparation of soil surface.

1.5 WASTE MANAGEMENT AND DISPOSAL
.1 Divert unused fertilizer from landfill to official hazardous material collections site as approved by the Ministry of the Environment or governing body. Do not dispose of unused fertilizer into sewer systems, into lakes, streams or in locations where it will pose health or environmental hazard.

1.6 WARRANTY
.1 All areas hydroseeded under this contract shall have a warranty period of one (1) year from the date of acceptance and shall cover any defects in materials and workmanship or damages caused by the elements of weather. All defects shall be repaired to the satisfaction of the Consultant at no cost to the Owner.

Part 2  Products

2.1 MATERIALS
.1 Seed: "Canada pedigreed grade" in accordance with Government of Canada Seeds Act and local regulations
   .1 Grass mixture composition:
      .1 50 % Creeping Red Fescue
      .2 20 % Red Top.
      .3 15% Canada Blue Grass
      .4 15 % Kentucky Blue Grass
   .2 Mulch: specially manufactured for use in hydraulic seeding equipment, non-toxic, water activated, green colouring, free of germination and growth inhibiting factors with following properties:
      .1 Type I mulch:
         .1 Made from wood cellulose fibre.
         .2 Organic matter content: 95% plus or minus 0.5%.
.3 Value of pH: 6.0.
.4 Potential water absorption: 900%.
.2 Type II mulch: straw.
.3 Use either Type I or Type II mulch.
.3 Tackifier: water dilutable, liquid dispersion or water soluble vegetable carbohydrate powder.
.4 Water: free of impurities that would inhibit germination and growth.
.5 Fertilizer:
   .1 To Canada "Fertilizers Act" and "Fertilizers Regulations".
   .2 Complete synthetic, slow release with 35% of nitrogen content in water insoluble form.
.6 Imported Topsoil: friable, neither heavy clay or of very light sandy nature, containing a minimum of 4% organic matter for clay loams and 2% for sandy loams to a maximum of 20% volume. Free from subsoil, roots, grass, weeds, toxic materials, stones, foreign objects and with an acidity range, PH of 5.5 to 7.5. Topsoil containing crabgrass, couphgrass or noxious weeds is not acceptable.

Part 3 Execution

3.1 WORKMANSHIP
.1 Do not spray onto structures, signs, guide rails, fences, plant material, utilities and other than surfaces intended.
.2 Clean-up immediately, any material sprayed where not intended, to satisfaction of Consultant.
.3 Do not perform work under adverse field conditions such as wind speeds over 10 km/h, frozen ground or ground covered with snow, ice or standing water. Protect seeded areas from trespass until plants are established.

3.2 PREPARATION OF SURFACES AND PLACEMENT OF TOPSOIL
.1 Fine grade subgrade to eliminate uneven areas, low spots and ensure positive drainage. Remove debris, roots, branches, stones in excess of 2" (50 mm) diameter and deleterious materials. Obtain review prior to placing topsoil.
.2 Spread topsoil evenly over area to be seeded to minimum thickness of 4" (100 mm).
.3 Fine grade entire topsoil to eliminate uneven areas and low spots. Ensure positive drainage and provide a uniform, smooth finish.
.2 Roll topsoil with 110 lb (50 kg) roller, minimum 36" (900 mm) wide to compact and retain surface.
.2 Cultivate area to be seeded to depth of 1" (25 mm).
.3 Ensure areas to be seeded are moist to depth of 6" (150mm) before seeding.

3.3 FERTILIZING PROGRAM
.1 Fertilize prior to fine grading, equally distributed.

3.4 PREPARATION OF SLURRY
.1 Measure quantities of materials by weight or weight-calibrated volume measurement satisfactory to Consultant. Supply equipment required for this work.
.2 Charge required water into seeder. Add material into hydraulic seeder under agitation. Pulverize mulch and charge slowly into seeder.
.3 After all materials are in the seeder and well mixed, charge tackifier into seeder and mix thoroughly to complete slurry.
3.5 SLURRY APPLICATION

.1 Hydraulic seeding equipment:
   .1 Slurry tank.
   .2 Agitation system for slurry to be capable of operating during charging of tank and during seeding, consisting of recirculation of slurry and/or mechanical agitation method.
   .3 Capable of seeding by 165’ (50 m) hand operated hoses and appropriate nozzles.
   .4 Tank volume to be certified by certifying authority and identified by authorities "Volume Certification Plate".

.2 Slurry mixture applied per hectare.
   .1 Seed: Grass mixture 330 lb (150 kg).
   .2 Mulch: Type I or II 2755 lb (1250 kg).
   .3 Tackifier: 44 lb (20 kg).
   .4 Water: Minimum 6600 imp. gal. (30,000 L).
   .5 Fertilizer: 1323 lb (600 kg), ratio 5:20:10

.3 Apply slurry uniformly, at optimum angle of application for adherence to surfaces and germination of seed.
   .1 Using correct nozzle for application.
   .2 Using hoses for surfaces difficult to reach and to control application.

.4 Blend application 12” (300 mm) into adjacent grass areas to form uniform surfaces.

.5 Re-apply where application is not uniform.

.6 Remove slurry from items and areas not designated to be sprayed.

.7 Protect seeded areas from trespass satisfactory to Consultant

.8 Remove protection devices as directed by Consultant.

3.6 MAINTENANCE DURING ESTABLISHMENT PERIOD

.1 Perform following operations from time of seed application until acceptance by Consultant.

.2 Grass Mixture:
   .1 Repair and reseed dead or bare spots to allow establishment of seed prior to acceptance.
   .2 Mow grass to 2” (50 mm) whenever it reaches height of 2 3/4” (70 mm). Remove clippings which will smother grass.
   .3 Fertilize seeded areas 10 weeks after germination provided plants have mature true leaves. Spread half of required amount of fertilizer in one direction and remainder at right angles; water in well. Date and time of fertilization must be approved by Owner prior to execution.
   .4 Control weeds by mechanical or chemical means utilizing acceptable integrated pest management practices. If chemical means are to be utilized, the date and time of weed control must be approved by Owner prior to execution.
   .5 Contractor to water seeded area to maintain optimum soil moisture level for germination and continued growth of grass for a minimum of 10 weeks after time of seeding. Control watering to prevent washouts.

3.7 ACCEPTANCE

.1 Seeded areas will be accepted by Consultant provided that:
   .1 Plants are uniformly established. Seeded areas are free of rutted, eroded, bare or dead spots.
   .2 Areas have been mown at least twice.
   .3 Areas have been fertilized.

.2 Areas seeded in fall will achieve final acceptance in following spring, one month after start of growing season provided acceptance conditions are fulfilled.
3.8 MAINTENANCE DURING WARRANTY PERIOD
   .1 Perform following operations from time of acceptance until end of warranty period:
      .1 Repair and reseed dead or bare spots to satisfaction of Consultant.
      .2 Fertilize seeded areas in accordance with fertilizing program. Spread half of required amount of fertilizer in one direction and remainder at right angles and water in well.

3.9 CLEANING
   .1 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

End Of Section
# St. Michael Catholic School

**Purpose of Submission:**

**Client:** ST. CLAIR CATHOLIC DISTRICT SCHOOL BOARD  
420 CREEK ST. WALLACEBURG, ON. N8A 4C4

**Project ID:** ROA19-011  
**Drawing Designation:** DRAWING LIST

**General Information Drawing List:**

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<td>SITE PLAN</td>
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**Civil Drawing List:**

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**Architectural Drawing List:**

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</tbody>
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**ST. MICHAEL CATHOLIC SCHOOL**

**Project:** PLAYGROUND ASPHALT REPLACEMENT  
25 MAPLE ST. RIDGETOWN, ONTARIO  
**Client#:** SCCDSB 640-CP1915