CCĐC 2

Stipulated Price Contract

2020

Downtown Arts Centre, 16 Elizabeth Walk, Elliot Lake, ON

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CANADIAN CONSTRUCTION DOCUMENTS COMMITTEE

CCDC 2 STIPULATED PRICE CONTRACT

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AGREEMENT BETWEEN OWNER AND CONTRACTOR

For use when a stipulated price is the basis of payment.

This Agreement made on by and between the parties

10 day of January in the year 2023

City of Elliot Lake

hereinafter called the "Owner"

and

Quinan Construction Limited

hereinafter called the "Contractor"

The Owner and the Contractor agree as follows:

ARTICLE A-1 THE WORK

The Contractor shall:

1.1 perform the Work required by the Contract Documents for (insert below the description or title of the Work)

Downtown Arts Centre

located at (insert below the Place of the Work)

16 Elizabeth Walk, Elliot Lake, ON

for which the Agreement has been signed by the parties, and for which (insert below the name of the Consultant)

MET Energy Systems

is acting as and is hereinafter called the "Consultant" and

- 1.2 do and fulfill everything indicated by the Contract Documents, and
- 1.3 commence the Work by the 6 day of February in the year 2023 and, subject to adjustment in Contract Time as provided for in the Contract Documents, attain Ready-for-Takeover, by the 11 day of August in the year 2023.

ARTICLE A-2 AGREEMENTS AND AMENDMENTS

- 2.1 The Contract supersedes all prior negotiations, representations or agreements, either written or oral, relating in any manner to the Work, including the bid documents that are not expressly listed in Article A-3 of the Agreement CONTRACT DOCUMENTS.
- 2.2 The Contract may be amended only as provided in the Contract Documents.

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ARTICLE A-3 CONTRACT DOCUMENTS

- The following are the Contract Documents referred to in Article A-1 of the Agreement THE WORK:
 - Agreement between Owner and Contractor
 - Definitions
 - **General Conditions**

Downtown Arts Centre - Architectural Design Drawings (Attached)

Downtown Arts Centre - Structural Design Drawings (Attached)

Downtown Arts Centre - Mechanical Design Drawings (Attached)

Downtown Arts Centre - Plumbing Design Drawings (Attached)

Downtown Arts Centre - Electrical Design Drawings (Attached)

Downtown Arts Centre - Tender Specifications (Attached)

Downtown Arts Centre - Addendum #1 (Attached)

Downtown Arts Centre - Addendum #2 (Attached)

Downtown Arts Centre - Letter of Recommendation

Downtown Arts Centre - Quinan Construction Limited Tender Bid (Attached)

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finsert here, attaching additional pages if required, a list identifying all other Contract Documents e.g. supplementary conditions; Division 01 of the Specifications - GENERAL REQUIREMENTS, Project information that the Contractor may rely upon; technical Specifications, giving a list of contents with section numbers and titles, number of pages and date; material finishing schedules; Drawings, giving drawing number, title, date, revision date or mark; addenda, giving title, number, date; time schedule)

ARTICLE A-4 CONTRACT PRICE

4.1 The Contract Price, which excludes Value Added Taxes, is:

One Million Three Hundred Twenty Thousand Dollars

/100 dollars \$ 1,320,000,00

4.2 Value Added Taxes (of 13 %) payable by the Owner to the Contractor are:

One Hundred Seventy One Thousand Six Hundred Dollars

/100 dollars \$ 171,600.00

4.3 Total amount payable by the Owner to the Contractor for the Work is:

One Million Four Hundred Ninety One Thousand Six Hundred Dollars

/100 dollars \$ 1,491,600.00

- 4.4 These amounts shall be subject to adjustments as provided in the Contract Documents.
- 4.5 All amounts are in Canadian funds.

ARTICLE A-5 PAYMENT

- 5.1 Subject to the provisions of the *Contract Documents* and *Payment Legislation*, and in accordance with legislation and statutory regulations respecting holdback percentages, the *Owner* shall:
 - .1 make progress payments to the Contractor on account of the Contract Price when due in the amount certified by the Consultant unless otherwise prescribed by Payment Legislation together with such Value Added Taxes as may be applicable to such payments,
 - .2 upon Substantial Performance of the Work, pay to the Contractor the unpaid balance of the holdback amount when due together with such Value Added Taxes as may be applicable to such payment, and
 - .3 upon the issuance of the final certificate for payment, pay to the *Contractor* the unpaid balance of the *Contract Price* when due together with such *Value Added Taxes* as may be applicable to such payment.

5.2 Interest

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- .1 Should either party fail to make payments as they become due under the terms of the Contract or in an award by adjudication, arbitration or court, interest at the following rates on such unpaid amounts shall also become due and payable until payment:
 - (1) 2% per annum above the prime rate for the first 60 days.
 - (2) 4% per annum above the prime rate after the first 60 days.

Such interest shall be compounded on a monthly basis. The prime rate shall be the rate of interest quoted by (Insert name of chartered lending institution whose prime rate is to be used)

Royal Bank Of Canada

for prime business loans as it may change from time to time.

.2 Interest shall apply at the rate and in the manner prescribed by paragraph 5.2.1 of this Article on the settlement amount of any claim in dispute that is resolved either pursuant to Part 8 of the General Conditions – DISPUTE RESOLUTION or otherwise, from the date the amount would have been due and payable under the *Contract*, had it not been in dispute, until the date it is paid.

ARTICLE A-6 RECEIPT OF AND ADDRESSES FOR NOTICES IN WRITING

- 6.1 Notices in Writing will be addressed to the recipient at the address set out below.
- 6.2 The delivery of a *Notice in Writing* will be by hand, by courier, by prepaid first class mail, or by other form of electronic communication during the transmission of which no indication of failure of receipt is communicated to the sender.
- 6.3 A Notice in Writing delivered by one party in accordance with this Contract will be deemed to have been received by the other party on the date of delivery if delivered by hand or courier, or if sent by mail it will be deemed to have been received five calendar days after the date on which it was mailed, provided that if either such day is not a Working Day, then the Notice in Writing will be deemed to have been received on the Working Day next following such day.
- 6.4 A *Notice in Writing* sent by any form of electronic communication will be deemed to have been received on the date of its transmission provided that if such day is not a *Working Day* or if it is received after the end of normal business hours on the date of its transmission at the place of receipt, then it will be deemed to have been received at the opening of business at the place of receipt on the first *Working Day* next following the transmission thereof.
- 6.5 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.

Article.

Owner

City of Elliot Lake

name of Owner*

45 Hillside Dr. North, Elliot Lake, ON

address

bgoulding@city.elliotlake.on.ca email address

Contractor

Quinan Construction Limited

name of Contractor*

55 Progress Drive, Unit 1, Orillia, ON

address

mike.unwin@quinan.ca

Consultant

MET Energy Systems

name of Consultant*

477 Queen Street East Suite 304, Sault Ste. Marie, ON

address

tsjanzen@meteng.on.ca

ARTICLE A-7 LANGUAGE OF THE CONTRACT

- 7.1 When the Contract Documents are prepared in both the English and French languages, it is agreed that in the event of any apparent discrepancy between the English and French versions, the English / French # language shall prevail.

 # Complete this statement by striking out inapplicable term.
- 7.2 This Agreement is drawn in English at the request of the parties hereto. La présente convention est rédigée en anglais à la demande des parties.

ARTICLE A-8 SUCCESSION

8.1 The Contract shall enure to the benefit of and be binding upon the parties hereto, their respective heirs, legal representatives, successors, and assigns.

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^{*} If it is intended that a specific individual must receive the notice, that individual's name shall be indicated.

In witness whereof the parties hereto have executed this Agreement by the hands of their duly authorized representatives.

SIGNED AND DELIVERED in the presence of:

WITNESS	OWNER
	City of Elliot Lake
	name of Owner
signature	signature
name of person signing	name and title of person signing
WITNESS	CONTRACTOR
WEETELSS	Quinan Construction Limited
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	name of Contractor
Olyan Small	Michael Clean
signature signature	signature June
6 00 5000	MICHAEL UNWIN - PRESIDENT name and title of person signing
name of person signing	NIICHAEL LANWIN - PRESIDENT name and title of person signing

- N.B. Where legal jurisdiction, local practice or Owner or Contractor requirement calls for:
  - (a) proof of authority to execute this document, attach such proof of authority in the form of a certified copy of a resolution naming the representative(s) authorized to sign the Agreement for and on behalf of the corporation or partnership; or
  - (b) the affixing of a corporate seal, this Agreement should be properly sealed.

#### **DEFINITIONS**

The following Definitions shall apply to all Contract Documents.

#### Change Directive

A Change Directive is a written instruction prepared by the Consultant and signed by the Owner directing the Contractor to proceed with a change in the Work within the general scope of the Contract Documents prior to the Owner and the Contractor agreeing upon adjustments in the Contract Price and the Contract Time.

#### **Change Order**

A Change Order is a written amendment to the Contract prepared by the Consultant and signed by the Owner and the Contractor stating their agreement upon:

- a change in the Work;
- the method of adjustment or the amount of the adjustment in the Contract Price, if any; and
- the extent of the adjustment in the Contract Time, if any.

#### **Construction Equipment**

Construction Equipment means all machinery and equipment, either operated or not operated, that is required for preparing, fabricating, conveying, erecting, or otherwise performing the Work but is not incorporated into the Work.

#### Consultant

The Consultant is the person or entity engaged by the Owner and identified as such in the Agreement. The Consultant is the Architect, the Engineer or entity licensed to practise in the province or territory of the Place of the Work.

#### Contract

The Contract is the undertaking by the parties to perform their respective duties, responsibilities and obligations as prescribed in the Contract Documents and represents the entire agreement between the parties.

#### **Contract Documents**

The Contract Documents consist of those documents listed in Article A-3 of the Agreement – CONTRACT DOCUMENTS and amendments agreed upon between the parties.

#### **Contract Price**

The Contract Price is the amount stipulated in Article A-4 of the Agreement - CONTRACT PRICE.

#### Contract Time

The Contract Time is the time from commencement of the Work to the date of Ready-for-Takeover as stipulated in paragraph 1.3 of Article A-1 of the Agreement – THE WORK.

#### Contractor

The Contractor is the person or entity identified as such in the Agreement.

#### **Drawings**

The *Drawings* are the graphic and pictorial portions of the *Contract Documents*, wherever located and whenever issued, showing the design, location and dimensions of the *Work*, generally including plans, elevations, sections, details, and diagrams.

# Notice in Writing

A *Notice in Writing*, where identified in the *Contract Documents*, is a written communication between the parties or between them and the *Consultant* that is transmitted in accordance with the provisions of Article A-6 of the Agreement – RECEIPT OF AND ADDRESSES FOR NOTICES IN WRITING.

#### Owner

The Owner is the person or entity identified as such in the Agreement.

#### Other Contractor

Other Contractor means a contractor, other than the Contractor or a Subcontractor, engaged by the Owner for the Project.

#### Payment Legislation

Payment Legislation means such legislation in effect at the Place of the Work which governs payment under construction contracts.

#### Place of the Work

The Place of the Work is the designated site or location of the Work identified in the Contract Documents.

#### **Product**

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Product or Products means material, machinery, equipment, and fixtures forming part of the Work, but does not include Construction Equipment.

#### **Project**

The *Project* means the total construction contemplated of which the *Work* may be the whole or a part.

#### Ready-for-Takeover

Ready-for-Takeover shall have been attained when the conditions set out in paragraph 12.1,1 of GC 12.1 - READY-FOR-TAKEOVER have been met, as verified by the Consultant pursuant to paragraph 12.1.4.2 of GC 12.1 - READY-FOR-TAKEOVER.

#### Shop Drawings

Shop Drawings are drawings, diagrams, illustrations, schedules, performance charts, brochures, Product data, and other data which the Contractor provides to illustrate details of portions of the Work.

#### Specifications

The Specifications are that portion of the Contract Documents, wherever located and whenever issued, consisting of the written requirements and standards for Products, systems, workmanship, quality, and the services necessary for the performance of the Work.

#### Subcontractor

A Subcontractor is a person or entity having a direct contract with the Contractor to perform a part or parts of the Work at the Place of the Work.

#### Substantial Performance of the Work

Substantial Performance of the Work is as defined in the lien legislation applicable to the Place of the Work.

#### Supplemental Instruction

A Supplemental Instruction is an instruction, not involving adjustment in the Contract Price or Contract Time, in the form of Specifications, Drawings, schedules, samples, models, or written instructions, consistent with the intent of the Contract Documents. It is to be issued by the Consultant to supplement the Contract Documents as required for the performance of the Work.

#### Supplier

A Supplier is a person or entity having a direct contract with the Contractor to supply Products.

#### **Temporary Work**

Temporary Work means temporary supports, structures, facilities, services, and other temporary items, excluding Construction Equipment, required for the execution of the Work but not incorporated into the Work.

# Value Added Taxes

Value Added Taxes means such sum as shall be levied upon the Contract Price by the Federal or any Provincial or Territorial Government and is computed as a percentage of the Contract Price and includes the Goods and Services Tax, the Ouebec Sales Tax, the Harmonized Sales Tax, and any similar tax, the collection and payment of which have been imposed on the Contractor by tax legislation.

#### Work

The Work means the total construction and related services required by the Contract Documents.

#### **Working Day**

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Working Day means a day other than a Saturday, Sunday, statutory holiday, or statutory vacation day that is observed by the construction industry in the area of the Place of the Work.

#### **GENERAL CONDITIONS**

#### PART 1 GENERAL PROVISIONS

#### GC 1.1 CONTRACT DOCUMENTS

- 1.1.1 The intent of the Contract Documents is to include the labour, Products and services necessary for the performance of the Work by the Contractor in accordance with these documents. It is not intended, however, that the Contractor shall supply products or perform work not consistent with, not covered by, or not properly inferable from the Contract Documents.
- 1.1.2 The Contract Documents are complementary, and what is required by one shall be as binding as if required by all. Performance by the Contractor shall be required only to the extent consistent with the Contract Documents.
- 1.1.3 The Contractor shall review the Contract Documents for the purpose of facilitating co-ordination and execution of the Work by the Contractor.
- 1.1.4 The Contractor is not responsible for errors, omissions or inconsistencies in the Contract Documents. If there are perceived errors, omissions or inconsistencies discovered by or made known to the Contractor, the Contractor shall promptly report to the Consultant and shall not proceed with the work affected until the Contractor has received corrected or additional information from the Consultant.
- 1.1.5 If there is a conflict within the Contract Documents:
  - .1 the order of priority of documents, from highest to lowest, shall be
    - the Agreement between Owner and Contractor,
    - the Definitions.
    - Supplementary Conditions,
    - the General Conditions,
    - Division 01 of the Specifications,
    - technical Specifications,
    - material and finishing schedules,
    - the Drawings.
  - .2 Drawings of larger scale shall govern over those of smaller scale of the same date.
  - .3 dimensions shown on *Drawings* shall govern over dimensions scaled from *Drawings*.
  - .4 amended or later dated documents shall govern over earlier documents of the same type.
  - .5 noted materials and annotations shall govern over graphic indications.
- 1.1.6 Nothing contained in the Contract Documents shall create any contractual relationship between:
  - .1 the Owner and a Subcontractor, a Supplier, or their agent, employee, or other person performing any portion of the Work.
  - .2 the Consultant and the Contractor, a Subcontractor, a Supplier, or their agent, employee, or other person performing any portion of the Work.
- 1.1.7 Words and abbreviations which have well known technical or trade meanings are used in the *Contract Documents* in accordance with such recognized meanings.
- 1.1.8 References in the Contract Documents to the singular shall be considered to include the plural as the context requires.
- 1.1.9 Neither the organization of the *Specifications* nor the arrangement of *Drawings* shall control the *Contractor* in dividing the work among *Subcontractors* and *Suppliers*.
- 1.1.10 Specifications, Drawings, models, and copies thereof furnished by the Consultant are and shall remain the Consultant's property, with the exception of the signed Contract sets, which shall belong to each party to the Contract. All Specifications, Drawings and models furnished by the Consultant are to be used only with respect to the Work and are not to be used on other work. These Specifications, Drawings and models are not to be copied or altered in any manner without the written authorization of the Consultant.
- 1.1.11 Physical models furnished by the Contractor at the Owner's expense are the property of the Owner.

# GC 1.2 LAW OF THE CONTRACT

1.2.1 The law of the *Place of the Work* shall govern the interpretation of the *Contract*.

# GC 1.3 RIGHTS AND REMEDIES

1.3.1 Except as expressly provided in the *Contract Documents*, the duties and obligations imposed by the *Contract Documents* and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights, and remedies otherwise imposed or available by law.

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1.3.2 No action or failure to act by the *Owner*, the *Consultant* or the *Contractor* shall constitute a waiver of any right or duty afforded any of them under the *Contract*, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach thereunder, except as may be specifically agreed in writing.

#### **GC 1.4 ASSIGNMENT**

1.4.1 Neither party to the *Contract* shall assign the *Contract* or a portion thereof without the written consent of the other, which consent shall not be unreasonably withheld.

#### PART 2 ADMINISTRATION OF THE CONTRACT

#### GC 2.1 AUTHORITY OF THE CONSULTANT

- 2.1.1 The Consultant will have authority to act on behalf of the Owner only to the extent provided in the Contract Documents, unless otherwise modified by written agreement as provided in paragraph 2.1.2.
- 2.1.2 The duties, responsibilities and limitations of authority of the *Consultant* as set forth in the *Contract Documents* shall be modified or extended only with the written consent of the *Owner*, the *Consultant* and the *Contractor*.

#### GC 2.2 ROLE OF THE CONSULTANT

- 2.2.1 The Consultant will provide administration of the Contract as described in the Contract Documents.
- 2.2.2 The Consultant will visit the Place of the Work at intervals appropriate to the progress of construction to become familiar with the progress and quality of the work and to determine if the Work is proceeding in general conformity with the Contract Documents.
- 2.2.3 If the Owner and the Consultant agree, the Consultant will provide at the Place of the Work, one or more project representatives to assist in carrying out the Consultant's responsibilities. The duties, responsibilities and limitations of authority of such project representatives shall be as set forth in writing to the Contractor.
- 2.2.4 Based on the *Consultant*'s observations and evaluation of the *Contractor*'s applications for payment, the *Consultant* will determine the amounts owing to the *Contractor* under the *Contract* and will issue certificates for payment as provided in Article A-5 of the Agreement PAYMENT, GC 5.3 PAYMENT and GC 5.5 FINAL PAYMENT.
- 2.2.5 The Consultant will not be responsible for and will not have control, charge or supervision of construction means, methods, techniques, sequences, or procedures, or for safety precautions and programs required in connection with the Work in accordance with the applicable construction safety legislation, other regulations or general construction practice. The Consultant will not be responsible for the Contractor's failure to perform the Work in accordance with the Contract Documents.
- 2.2.6 Except with respect to GC 5.1 FINANCING INFORMATION REQUIRED OF THE OWNER, the *Consultant* will be, in the first instance, the interpreter of the requirements of the *Contract Documents*.
- 2.2.7 Matters in question relating to the performance of the *Work* or the interpretation of the *Contract Documents* shall be initially referred in writing to the *Consultant* by the party raising the question for interpretations and findings and copied to the other party.
- 2.2.8 Interpretations and findings of the *Consultant* shall be consistent with the intent of the *Contract Documents*. In making such interpretations and findings the *Consultant* will not show partiality to either the *Owner* or the *Contractor*.
- 2.2.9 The Consultant's interpretations and findings will be given in writing to the parties within a reasonable time.
- 2.2.10 With respect to claims for a change in *Contract Price*, the *Consultant* will make findings as set out in GC 6.6 CLAIMS FOR A CHANGE IN CONTRACT PRICE.
- 2.2.11 The Consultant will have authority to reject work which in the Consultant's opinion does not conform to the requirements of the Contract Documents. Whenever the Consultant considers it necessary or advisable, the Consultant will have authority to require inspection or testing of work, whether or not such work is fabricated, installed or completed. However, neither the authority of the Consultant to act nor any decision either to exercise or not to exercise such authority shall give rise to any duty or responsibility of the Consultant to the Contractor, Subcontractors, Suppliers, or their agents, employees, or other persons performing any of the Work.
- 2.2.12 During the progress of the *Work* the *Consultant* will furnish *Supplemental Instructions* to the *Contractor* with reasonable promptness or in accordance with a schedule for such instructions agreed to by the *Consultant* and the *Contractor*.
- 2.2.13 The Consultant will review and take appropriate action upon Shop Drawings, samples and other submittals by the Contractor, in accordance with the Contract Documents.

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- 2.2.14 The Consultant will prepare Change Orders and Change Directives as provided in GC 6.2 CHANGE ORDER and GC 6.3 CHANGE DIRECTIVE.
- 2.2.15 The Consultant will conduct reviews of the Work to determine the date of Substantial Performance of the Work and verify that Ready-for-Takeover has been attained.
- 2.2.16 All certificates issued by the *Consultant* will be to the best of the *Consultant*'s knowledge, information and belief. By issuing any certificate, the *Consultant* does not guarantee the *Work* is correct or complete.
- 2.2.17 The Consultant will receive and review written warranties and related documents required by the Contract and provided by the Contractor and will forward such warranties and documents to the Owner for the Owner's acceptance.
- 2...2.18 If the Consultant's engagement is terminated, the Owner shall immediately engage a Consultant against whom the Contractor makes no reasonable objection and whose duties and responsibilities under the Contract Documents will be that of the former Consultant.

#### GC 2.3 REVIEW AND INSPECTION OF THE WORK

- 2.3.1 The Owner and the Consultant shall have access to the Work at all times. The Contractor shall provide sufficient, safe and proper facilities at all times for the review of the Work by the Consultant and the inspection of the Work by authorized agencies. If parts of the Work are in preparation at locations other than the Place of the Work, the Owner and the Consultant shall be given access to such work whenever it is in progress.
- 2.3.2 If work is designated for tests, inspections or approvals in the Contract Documents, by the Consultant's instructions, or by the laws or ordinances of the Place of the Work, the Contractor shall give the Consultant reasonable notification of when the work will be ready for review and inspection. The Contractor shall arrange for and shall give the Consultant reasonable notification of the date and time of inspections by other authorities.
- 2.3.3 The Contractor shall furnish promptly to the Consultant two copies of certificates and inspection reports relating to the Work.
- 2.3.4 If the *Contractor* covers, or permits to be covered, work that has been designated for special tests, inspections or approvals before such special tests, inspections or approvals are made, given or completed, the *Contractor* shall, if so directed, uncover such work, have the inspections or tests satisfactorily completed, and make good covering work at the *Contractor*'s expense.
- 2.3.5 The Consultant may order any portion or portions of the Work to be examined to confirm that such work is in accordance with the requirements of the Contract Documents. If the work is not in accordance with the requirements of the Contract Documents, the Contractor shall correct the work and pay the cost of examination and correction. If the work is in accordance with the requirements of the Contract Documents, the Owner shall pay the cost of examination and restoration.
- 2.3.6 The Contractor shall pay the cost of making any test or inspection, including the cost of samples required for such test or inspection, if such test or inspection is designated in the Contract Documents to be performed by the Contractor or is required by the laws or ordinances applicable to the Place of the Work.
- 2.3.7 The Contractor shall pay the cost of samples required for any test or inspection to be performed by others if such test or inspection is designated in the Contract Documents.

# GC 2.4 DEFECTIVE WORK

- 2.4.1 The Contractor shall promptly correct defective work that has been rejected by the Consultant as failing to conform to the Contract Documents whether or not the defective work was incorporated in the Work or the defect is the result of poor workmanship, use of defective products or damage through carelessness or other act or omission of the Contractor.
- 2.4.2 The Contractor shall make good promptly Other Contractors' work destroyed or damaged by such corrections at the Contractor's expense.
- 2.4.3 If in the opinion of the *Consultant* it is not expedient to correct defective work or work not performed as provided in the *Contract Documents*, the *Owner* may deduct from the amount otherwise due to the *Contractor* the difference in value between the work as performed and that called for by the *Contract Documents*. If the *Owner* and the *Contractor* do not agree on the difference in value, they shall refer the matter to the *Consultant* for a finding.

# PART 3 EXECUTION OF THE WORK

# GC 3.1 CONTROL OF THE WORK

3.1.1 The Contractor shall have total control of the Work and shall effectively direct and supervise the Work so as to ensure conformity with the Contract Documents.

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3.1.2 The Contractor shall be solely responsible for construction means, methods, techniques, sequences, and procedures and for coordinating the various parts of the Work under the Contract.

#### GC 3.2 CONSTRUCTION BY THE OWNER OR OTHER CONTRACTORS

- 3.2.1 The Owner reserves the right to award separate contracts in connection with other parts of the Project to Other Contractors and to perform work with own forces.
- 3.2.2 When separate contracts are awarded for other parts of the *Project*, or when work is performed by the *Owner*'s own forces, the *Owner* shall:
  - .1 provide for the co-ordination of the activities and work of Other Contractors and the Owner's own forces with the Work of the Contract:
  - .2 enter into separate contracts with Other Contractors under conditions of contract which are compatible with the conditions of the Contract:
  - .3 ensure that insurance coverage is provided to the same requirements as are called for in GC 11.1 INSURANCE and coordinate such insurance with the insurance coverage of the Contractor as it affects the Work; and
  - .4 take all reasonable precautions to avoid labour disputes or other disputes on the Project arising from the work of Other Contractors or the Owner's own forces.
- 3.2.3 When separate contracts are awarded for other parts of the *Project*, or when work is performed by the *Owner*'s own forces, the *Contractor* shall:
  - .1 afford the Owner and Other Contractors reasonable opportunity to store their products and execute their work;
  - .2 co-ordinate and schedule the Work with the work of Other Contractors or the Owner's own forces that are identified in the Contract Documents;
  - .3 participate with Other Contractors and the Owner in reviewing their construction schedules when directed to do so; and
  - .4 report promptly to the Consultant in writing any apparent deficiencies in the work of Other Contractors or of the Owner's own forces, where such work affects the proper execution of any portion of the Work, prior to proceeding with that portion of the Work.
- 3.2.4 Where a change in the *Work* is required as a result of the co-ordination and integration of the work of *Other Contractors* or *Owner*'s own forces with the *Work*, the changes shall be authorized and valued as provided in GC 6.1 OWNER'S RIGHT TO MAKE CHANGES, GC 6.2 CHANGE ORDER and GC 6.3 CHANGE DIRECTIVE.
- 3.2.5 Disputes and other matters in question between the Contractor and Other Contractors shall be dealt with as provided in Part 8 of the General Conditions DISPUTE RESOLUTION provided the Other Contractors have reciprocal obligations. The Contractor shall be deemed to have consented to arbitration of any dispute with any Other Contractor whose contract with the Owner contains a similar agreement to arbitrate. In the absence of Other Contractors having reciprocal obligations, disputes and other matters in question initiated by the Contractor against Other Contractors will be considered disputes and other matters in question between the Contractor and the Owner.
- 3.2.6 Should the Owner, the Consultant, Other Contractors, or anyone employed by them directly or indirectly be responsible for ill-timed work necessitating cutting or remedial work to be performed, the cost of such cutting or remedial work shall be valued as provided in GC 6.1 OWNER'S RIGHT TO MAKE CHANGES, GC 6.2 CHANGE ORDER and GC 6.3 CHANGE DIRECTIVE.

#### **GC 3.3 TEMPORARY WORK**

- 3.3.1 The Contractor shall have the sole responsibility for the design, erection, operation, maintenance, and removal of Temporary Work unless otherwise specified in the Contract Documents.
- 3.3.2 The Contractor shall engage and pay for registered professional engineering personnel skilled in the appropriate disciplines to perform those functions referred to in paragraph 3.3.1 where required by law or by the Contract Documents and in all cases where such Temporary Work is of such a nature that professional engineering skill is required to produce safe and satisfactory results.
- 3.3.3 Notwithstanding the provisions of GC 3.1 CONTROL OF THE WORK, paragraphs 3.3.1 and 3.3.2 or provisions to the contrary elsewhere in the Contract Documents where such Contract Documents include designs for Temporary Work or specify a method of construction in whole or in part, such designs or methods of construction shall be considered to be part of the design of the Work and the Contractor shall not be held responsible for that part of the design or the specified method of construction. The Contractor shall, however, be responsible for the execution of such design or specified method of construction in the same manner as for the execution of the Work.

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#### GC 3.4 CONSTRUCTION SCHEDULE

- 3.4.1 The Contractor shall:
  - prepare and submit to the Owner and the Consultant prior to the first application for payment, a construction schedule that indicates the timing of the major activities of the Work and provides sufficient detail of the critical events and their interrelationship to demonstrate the Work will be performed in conformity with the Contract Time;
  - monitor the progress of the Work relative to the construction schedule and update the schedule on a monthly basis or as stipulated by the Contract Documents; and
  - advise the Consultant of any revisions required to the schedule as the result of extensions of the Contract Time as provided in Part 6 of the General Conditions - CHANGES IN THE WORK.

#### **GC 3.5 SUPERVISION**

- 3.5.1 The Contractor shall provide all necessary supervision and appoint a competent representative who shall be in attendance at the Place of the Work while the Work is being performed. The appointed representative shall not be changed except for valid reason.
- 3.5.2 The appointed representative shall represent the Contractor at the Place of the Work. Information and instructions provided by the Consultant to the Contractor's appointed representative shall be deemed to have been received by the Contractor, except with respect to Article A-6 of the Agreement - RECEIPT OF AND ADDRESSES FOR NOTICES IN WRITING.

#### GC 3.6 SUBCONTRACTORS AND SUPPLIERS

- 3.6.1 The Contractor shall preserve and protect the rights of the parties under the Contract with respect to work to be performed under subcontract, and shall:
  - enter into contracts or written agreements with Subcontractors and Suppliers to require them to perform their work as provided in the Contract Documents:
  - incorporate the applicable terms and conditions of the Contract Documents into all contracts or written agreements with Subcontractors and Suppliers; and
  - .3 be as fully responsible to the Owner for acts and omissions of Subcontractors, Suppliers and any persons directly or indirectly employed by them as for acts and omissions of persons directly employed by the Contractor.
- 3.6.2 The Contractor shall indicate in writing, if requested by the Owner, those Subcontractors or Suppliers whose bids have been received by the Contractor which the Contractor would be prepared to accept for the performance of a portion of the Work. Should the Owner not object before signing the Contract, the Contractor shall employ those Subcontractors or Suppliers so identified by the Contractor in writing for the performance of that portion of the Work to which their bid applies.
- 3.6.3 The Owner may, for reasonable cause, at any time before the Owner has signed the Contract, object to the use of a proposed Subcontractor or Supplier and require the Contractor to employ one of the other subcontract bidders.
- 3.6.4 If the Owner requires the Contractor to change a proposed Subcontractor or Supplier, the Contract Price and Contract Time shall be adjusted by the difference occasioned by such required change.
- 3.6.5 The Contractor shall not be required to employ as a Subcontractor or Supplier, a person or firm to which the Contractor may reasonably object.
- 3.6.6 The Owner, through the Consultant, may provide to a Subcontractor or Supplier information as to the percentage of the Subcontractor's or Supplier's work which has been certified for payment.

#### GC 3.7 LABOUR AND PRODUCTS

- 3.7.1 The Contractor shall maintain good order and discipline among the Contractor's employees engaged on the Work and employ only workers that are skilled in the tasks assigned.
- 3.7.2 The Contractor shall provide and pay for labour, Products, tools, Construction Equipment, water, heat, light, power, transportation, and other facilities and services necessary for the performance of the Work in accordance with the Contract.
- Unless otherwise specified in the Contract Documents, Products provided shall be new. Products which are not specified shall 3.7.3 be of a quality consistent with those specified and their use acceptable to the Consultant.

# GC 3.8 SHOP DRAWINGS

- 3.8.1 The Contractor shall provide Shop Drawings as required in the Contract Documents.
- 3.8.2 The Contractor shall provide Shop Drawings to the Consultant to review in accordance with an agreed schedule, or in the absence of an agreed schedule, in orderly sequence and sufficiently in advance so as to cause no delay in the Work or in the work of Other Contractors or the Owner's own forces.

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- 3.8.3 The Contractor shall review all Shop Drawings before providing them to the Consultant. The Contractor represents by this review that:
  - .1 the Contractor has determined and verified all applicable field measurements, field construction conditions, Product requirements, catalogue numbers and similar data, or will do so, and
  - .2 the Contractor has checked and co-ordinated each Shop Drawing with the requirements of the Work and of the Contract Documents.
- 3.8.4 The Consultant's review is for conformity to the design concept and for general arrangement only.
- 3.8.5 At the time of providing Shop Drawings, the Contractor shall expressly advise the Consultant in writing of any deviations in a Shop Drawing from the requirements of the Contract Documents. The Consultant shall indicate the acceptance or rejection of such deviation expressly in writing.
- 3.8.6 The Consultant's review shall not relieve the Contractor of responsibility for errors or omissions in the Shop Drawings or for meeting all requirements of the Contract Documents.
- 3.8.7 The Consultant will review and return Shop Drawings in accordance with the schedule agreed upon, or, in the absence of such schedule, with reasonable promptness so as to cause no delay in the performance of the Work.

#### PART 4 ALLOWANCES

#### GC 4.1 CASH ALLOWANCES

- 4.1.1 The Contract Price includes the cash allowances, if any, stated in the Contract Documents. The scope of the Work or costs included in such cash allowances shall be as described in the Contract Documents.
- 4.1.2 The Contract Price, and not the cash allowances, includes the Contractor's overhead and profit in connection with such cash allowances.
- 4.1.3 Expenditures under cash allowances shall be authorized by the Owner through the Consultant.
- 4.1.4 Where the actual cost of the *Work* under any cash allowance exceeds the amount of the allowance, any unexpended amounts from other cash allowances shall be reallocated, at the *Consultant's* direction, to cover the shortfall, and, in that case, there shall be no additional amount added to the *Contract Price* for overhead and profit. Only where the actual cost of the *Work* under all cash allowances exceeds the total amount of all cash allowances shall the *Contractor* be compensated for the excess incurred and substantiated, plus an amount for overhead and profit on the excess only, as set out in the *Contract Documents*.
- 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* without any adjustment for the *Contractor's* overhead and profit on such amount.
- 4.1.6 The value of the Work performed under a cash allowance is eligible to be included in progress payments.
- 4.1.7 The Contractor and the Consultant shall jointly prepare a schedule that shows when the items called for under cash allowances must be ordered to avoid delaying the progress of the Work.

### **GC 4.2 CONTINGENCY ALLOWANCE**

- 4.2.1 The Contract Price includes the contingency allowance, if any, stated in the Contract Documents.
- 4.2.2 The contingency allowance includes the Contractor's overhead and profit in connection with such contingency allowance.
- 4.2.3 Expenditures under the contingency allowance shall be authorized and valued as provided in GC 6.1 OWNER'S RIGHT TO MAKE CHANGES, GC 6.2 CHANGE ORDER and GC 6.3 CHANGE DIRECTIVE.
- 4.2.4 The Contract Price shall be adjusted by Change Order to provide for any difference between the expenditures authorized under paragraph 4.2.3 and the contingency allowance.

# PART 5 PAYMENT

# GC 5.1 FINANCING INFORMATION REQUIRED OF THE OWNER

- 5.1.1 The Owner shall, at the request of the Contractor, before signing the Contract, and promptly from time to time thereafter, furnish to the Contractor reasonable evidence that financial arrangements have been made to fulfill the Owner's obligations under the Contract.
- 5.1.2 The Owner's shall give the Contractor Notice in Writing of any material change in the Owner's financial arrangements to fulfil the Owner's obligations under the Contract during the performance of the Contract.

the Owner's obligations under the Contract during the performance of the Contract.

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#### GC 5.2 APPLICATIONS FOR PAYMENT

- 5.2.1 Applications for payment on account as provided in Article A-5 of the Agreement PAYMENT shall be submitted monthly to the *Owner* and the *Consultant* simultaneously as the *Work* progresses.
- 5.2.2 Applications for payment shall be dated the last day of each payment period, which is the last day of the month or an alternative day of the month agreed in writing by the parties.
- 5.2.3 The amount claimed shall be for the value, proportionate to the amount of the *Contract*, of *Work* performed and *Products* delivered to the *Place of the Work* as of the last day of the payment period.
- 5.2.4 The Contractor shall submit to the Consultant, at least 15 calendar days before the first application for payment, a schedule of values for the parts of the Work, aggregating the total amount of the Contract Price, so as to facilitate evaluation of applications for payment.
- 5.2.5 The schedule of values shall be made out in such form as specified in the *Contract* and supported by such evidence as the *Consultant* may reasonably require.
- 5.2.6 Applications for payment shall be based on the schedule of values accepted by the *Consultant* and shall comply with the provisions of *Payment Legislation*.
- 5.2.7 Each application for payment shall include evidence of compliance with workers' compensation legislation at the *Place of the Work* and after the first payment, a declaration by the *Contractor* as to the distribution made of the amounts previously received using document CCDC 9A 'Statutory Declaration'.
- 5.2.8 Applications for payment for *Products* delivered to the *Place of the Work* but not yet incorporated into the *Work* shall be supported by such evidence as the *Consultant* may reasonably require to establish the value and delivery of the *Products*.

#### GC 5.3 PAYMENT

- 5.3.1 After receipt by the *Consultant* and the *Owner* of an application for payment submitted by the *Contractor* in accordance with GC 5.2 APPLICATIONS FOR PAYMENT:
  - .1 The Consultant will issue to the Owner and copy to the Contractor, no later than 10 calendar days after the receipt of the application for payment, a certificate for payment in the amount applied for, or in such other amount as the Consultant determines to be properly due. If the Consultant certifies a different amount, or rejects the application or part thereof, the Owner shall promptly issue a written notice to the Contractor giving reasons for the revision or rejection, such written notice to be in compliance with Payment Legislation.
  - .2 The Owner shall make payment to the Contractor on account as provided in Article A-5 of the Agreement PAYMENT on or before 28 calendar days after the receipt by the Owner and the Consultant of the application for payment, and in any event, in compliance with Payment Legislation.

# GC 5.4 SUBSTANTIAL PERFORMANCE OF THE WORK AND PAYMENT OF HOLDBACK

- 5.4.1 The Consultant will review the Work to certify or verify the validity of the application for Substantial Performance of the Work and will promptly, and in any event, no later than 20 calendar days after receipt of the Contractors application:
  - .1 advise the *Contractor* in writing that the *Work* or the designated portion of the *Work* is not substantially performed and give reasons why, or
  - .2 state the date of Substantial Performance of the Work or a designated portion of the Work in a certificate and issue a copy of that certificate to each of the Owner and the Contractor.
- 5.4.2 Where the holdback amount required by the applicable lien legislation has not been placed in a separate lien holdback account, the *Owner* shall, no later than 10 calendar days prior to the expiry of the holdback period stipulated in the lien legislation applicable to the *Place of the Work*, place the holdback amount in a bank account in the joint names of the *Owner* and the *Contractor*.
- 5.4.3 Subject to the requirements of any *Payment Legislation*, all holdback amount prescribed by the applicable lien legislation for the *Work* shall become due and payable to the *Contractor* no later than 10 *Working Days* following the expiration of the holdback period stipulated in the lien legislation applicable to the *Place of the Work*.
- 5.4.4 The Contractor shall submit an application for payment of the lien holdback amount in accordance with GC 5.3 PAYMENT.
- 5.4.5 Where legislation permits progressive release of the holdback for a portion of the *Work* and the *Consultant* has certified or verified that the part of the *Work* has been performed prior to *Substantial Performance of the Work*, the *Owner* hereby agrees to release, and shall release, such portion to the *Contractor* in accordance with such legislation.

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5.4.6 Notwithstanding any progressive release of the holdback, the Contractor shall ensure that such parts of the Work are protected pending the issuance of a final certificate for payment and be responsible for the correction of defects or work not performed regardless of whether or not such was apparent when the holdback was released.

#### **GC 5.5 FINAL PAYMENT**

- 5.5.1 When the Contractor considers that the Work is completed, the Contractor shall submit an application for final payment.
- The Consultant will, no later than 10 calendar days after the receipt of an application from the Contractor for final payment, 5.5.2 review the Work to verify the validity of the application and when the Consultant finds the Contractor's application for final payment valid, the Consultant will promptly issue a final certificate for payment to the Owner, with a copy to the Contractor.
- 5.5.3 If the Consultant rejects the application or part thereof, the Owner will promptly issue a written notice to the Contractor giving reasons for the revision or rejection, such written notice to be in compliance with *Payment Legislation*.
- Subject to the provision of paragraph 10.4.1 of GC 10.4 WORKERS' COMPENSATION, and any legislation applicable to 5.5.4 the Place of the Work, the Owner shall, no later than 5 calendar days after the issuance of a final certificate for payment, pay the Contractor as provided in Article A-5 of the Agreement - PAYMENT and in any event, in compliance with Payment Legislation.

#### GC 5.6 DEFERRED WORK

5.6.1 If because of climatic or other conditions reasonably beyond the control of the Contractor, or if the Owner and the Contractor agree that, there are items of work that must be deferred, payment in full for that portion of the Work which has been performed as certified by the Consultant shall not be withheld or delayed by the Owner on account thereof, but the Owner may withhold, until the remaining portion of the Work is finished, only such an amount that the Consultant determines is sufficient and reasonable to cover the cost of performing such deferred Work.

#### GC 5.7 NON-CONFORMING WORK

No payment by the Owner under the Contract nor partial or entire use or occupancy of the Work by the Owner shall constitute an acceptance of any portion of the Work or Products which are not in accordance with the requirements of the Contract Documents.

#### PART 6 CHANGES IN THE WORK

#### GC 6.1 OWNER'S RIGHT TO MAKE CHANGES

- 6.1.1 The Owner, through the Consultant, without invalidating the Contract, may make:
  - changes in the Work consisting of additions, deletions or other revisions to the Work by Change Order or Change Directive,
  - changes to the Contract Time for the Work, or any part thereof, by Change Order.
- 6.1.2 The Contractor shall not perform a change in the Work without a Change Order or a Change Directive.

#### GC 6.2 CHANGE ORDER

- 6.2.1 When a change in the Work is proposed or required, the Consultant will provide the Contractor with a written description of the proposed change in the Work. The Contractor shall promptly present to the Consultant, in a form that can be reasonably evaluated, a method of adjustment or an amount of adjustment for the Contract Price, if any, and the adjustment in the Contract Time, if any, for the proposed change in the Work.
- 6.2.2 When the Owner and the Contractor agree to the adjustments in the Contract Price and Contract Time or to the method to be used to determine the adjustments, such agreement shall be effective immediately and shall be recorded in a Change Order. The value of the work performed as the result of a Change Order shall be included in the applications for progress payment.

# GC 6.3 CHANGE DIRECTIVE

- 6.3.1 If the Owner requires the Contractor to proceed with a change in the Work prior to the Owner and the Contractor agreeing upon the corresponding adjustment in Contract Price and Contract Time, the Owner, through the Consultant, shall issue a Change Directive.
- 6.3.2 A Change Directive shall only be used to direct a change in the Work which is within the general scope of the Contract Documents.
- 6.3.3 A Change Directive shall not be used to direct a change in the Contract Time only.

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- 6.3.4 Upon receipt of a Change Directive, the Contractor shall proceed promptly with the change in the Work.
- 6.3.5 For the purpose of valuing Change Directives, changes in the Work that are not substitutions or otherwise related to each other shall not be grouped together in the same Change Directive.
- 6.3.6 The adjustment in the Contract Price for a change carried out by way of a Change Directive shall be determined on the basis of the cost of the Contractor's actual expenditures and savings attributable to the Change Directive, valued in accordance with paragraph 6.3.7 and as follows:
  - If the change results in a net increase in the Contractor's cost, the Contract Price shall be increased by the amount of the net increase in the Contractor's cost, plus the Contractor's percentage fee on such net increase.
  - If the change results in a net decrease in the Contractor's cost, the Contract Price shall be decreased by the amount of the net decrease in the *Contractor*'s cost, without adjustment for the *Contractor*'s percentage fee.
  - .3 The Contractor's fee shall be as specified in the Contract Documents or as otherwise agreed by the parties.
- 6.3.7 The cost of performing the work attributable to the Change Directive shall be limited to the actual cost of the following in as much as it contributes directly to the implementation of the Change Directive:

#### Labour

- .1 rates that are listed in the schedule or as agreed by the Owner and the Contractor including wages, benefits, compensation, contributions, assessments, or taxes incurred for such items as employment insurance, provincial or territorial health insurance, workers' compensation, and Canada or Quebec Pension Plan for:
  - (1) trade labour in the direct employ of the Contractor;
  - (2) the Contractor's personnel when stationed at the field office;
  - (3) the Contractor's personnel engaged at shops or on the road, in expediting the production or transportation of materials or equipment; and
  - (4) the Contractor's office personnel engaged in a technical capacity, or other personnel identified in Article A-3 of the Agreement – CONTRACT DOCUMENTS for the time spent in the performance of the Work;

#### Products, Construction Equipment and Temporary Work

- .2 cost of all *Products* including cost of transportation thereof;
- in the absence of agreed rates, cost less salvage value of Construction Equipment, Temporary Work and tools, exclusive of hand tools under \$1,000 owned by the Contractor;
- rental cost of Construction Equipment, Temporary Work and tools, exclusive of hand tools under \$1,000;
- .5 cost of all equipment and services required for the Contractor's field office;

# Subcontract

.6 subcontract amounts of Subcontractor with pricing mechanism approved by the Owner;

- .7 travel and subsistence expenses of the *Contractor*'s personnel described in paragraph 6.3.7.1;
- deposits lost provided that they are not caused by negligent acts or omissions of the Contractor;
- .9 cost of quality assurance such as independent inspection and testing services;
- .10 charges levied by authorities having jurisdiction at the Place of the Work;
- .11 royalties, patent license fees, and damages for infringement of patents and cost of defending suits therefor subject always to the Contractor's obligations to indemnify the Owner as provided in paragraph 10.3.1 of GC 10.3 - PATENT FEES;
- .12 premium for all contract securities and insurance for which the Contractor is required, by the Contract Documents, to provide, maintain and pay in relation to the performance of the Work;
- .13 losses and expenses sustained by the Contractor for matters which are the subject of insurance under the policies prescribed in GC 11.1 - INSURANCE when such losses and expenses are not recoverable because the amounts are in excess of collectible amounts or within the deductible amounts;
- .14 taxes and duties, other than Value Added Taxes, income, capital, or property taxes, relating to the Work for which the Contractor is liable;
- .15 charges for voice and data communications, courier services, expressage, transmittal and reproduction of documents, and petty cash items;
- .16 cost for removal and disposal of waste products and debris;
- .17 legal costs, incurred by the Contractor, in relation to the performance of the Work provided that they are not:
  - (1) relating to a dispute between the Owner and the Contractor unless such costs are part of a settlement or awarded by arbitration or court,
  - (2) the result of the negligent acts or omissions of the Contractor, or
  - (3) the result of a breach of this Contract by the Contractor;
- .18 cost of auditing when requested by the Owner; and
- .19 cost of Project specific information technology in accordance with the method determined by the parties.

- 6.3.8 Notwithstanding any other provisions contained in the General Conditions of the Contract, it is the intention of the parties that the cost of any item under any cost element referred to in paragraph 6.3.7 shall cover and include any and all costs or liabilities attributable to the Change Directive other than those which are the result of or occasioned by any failure on the part of the Contractor to exercise reasonable care and diligence in the Contractor's attention to the Work. Any cost due to failure on the part of the Contractor to exercise reasonable care and diligence in the Contractor's performance of the Work attributable to the Change Directive shall be borne by the Contractor.
- 6.3.9 The Contractor shall keep full and detailed accounts and records necessary for the documentation of the cost of performing the Work attributable to the Change Directive and shall provide the Consultant with copies thereof.
- 6.3.10 For the purpose of valuing *Change Directives*, the *Owner* shall be afforded reasonable access to all of the *Contractor*'s pertinent documents related to the cost of performing the *Work* attributable to the *Change Directive*.
- 6.3.11 Pending determination of the final amount of a *Change Directive*, the undisputed value of the *Work* performed as the result of a *Change Directive* is eligible to be included in progress payments.
- 6.3.12 If the Owner and the Contractor do not agree on the proposed adjustment in the Contract Time attributable to the change in the Work, or the method of determining it, the adjustment shall be referred to the Consultant for a finding.
- 6.3.13 When the Owner and the Contractor reach agreement on the adjustment to the Contract Price and to the Contract Time, this agreement shall be recorded in a Change Order.

#### GC 6.4 CONCEALED OR UNKNOWN CONDITIONS

- 6.4.1 If the Owner or the Contractor discover conditions at the Place of the Work which are:
  - .1 subsurface or otherwise concealed physical conditions which existed before the commencement of the Work and differ materially from those indicated in the Contract Documents; or
  - 2 physical conditions, other than conditions due to weather, that are of a nature which differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents,
  - then the observing party shall give *Notice in Writing* to the other party of such conditions before they are disturbed and in no event later than 5 *Working Days* after first observance of the conditions.
- 6.4.2 The Consultant will promptly investigate such conditions and make a finding. If the finding is that the conditions differ materially and this would cause an increase of decrease in the Contractor's cost or time to perform the Work, the Owner, through the Consultant, shall issue appropriate instructions for a change in the Work as provided in GC 6.2 CHANGE ORDER or GC 6.3 CHANGE DIRECTIVE.
- 6.4.3 If the Consultant finds that the conditions at the Place of the Work are not materially different or that no change in the Contract Price or the Contract Time is justified, the Consultant will promptly inform the Owner and the Contractor in writing.
- 6.4.4 If such concealed or unknown conditions relate to toxic and hazardous substances and materials, artifacts and fossils, or mould, the parties will be governed by the provisions of GC 9.2 TOXIC AND HAZARDOUS SUBSTANCES, GC 9.3 ARTIFACTS AND FOSSILS and GC 9.5 MOULD.

# GC 6.5 DELAYS

- 6.5.1 If the Contractor is delayed in the performance of the Work by the Owner, the Consultant, or anyone employed or engaged by them directly or indirectly, contrary to the provisions of the Contract Documents, then the Contract Time shall be extended for such reasonable time as the Consultant may recommend in consultation with the Contractor. The Contractor shall be reimbursed by the Owner for reasonable costs incurred by the Contractor as the result of such delay.
- 6.5.2 If the Contractor is delayed in the performance of the Work by a stop work order issued by a court or other public authority and providing that such order was not issued as the result of an act or fault of the Contractor or any person employed or engaged by the Contractor directly or indirectly, resulting in the failure of the Contractor to attain Ready-for-Takeover by the date stipulated in Article A-1 of the Agreement THE WORK, then the Contract Time shall be extended for such reasonable time as the Consultant may recommend in consultation with the Contractor. The Contractor shall be reimbursed by the Owner for reasonable costs incurred by the Contractor as the result of such delay.
- 6.5.3 If the *Contractor* is delayed in the performance of the *Work* by:
  - .1 labour disputes, strikes, lock-outs (including lock-outs decreed or recommended for its members by a recognized contractors' association, of which the *Contractor* is a member or to which the *Contractor* is otherwise bound),
  - .2 fire, unusual delay by common carriers or unavoidable casualties,
  - .3 abnormally adverse weather conditions, or

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- any cause beyond the Contractor's control other than one resulting from a default or breach of Contract by the Contractor, then the Contract Time shall be extended for such reasonable time as the Consultant may recommend in consultation with the Contractor. The extension of time shall not be less than the time lost as the result of the event causing the delay, unless the Contractor agrees to a shorter extension. The Contractor shall not be entitled to payment for costs incurred by such delays unless such delays result from actions by the Owner, the Consultant or anyone employed or engaged by them directly or indirectly.
- No extension shall be made for delay unless Notice in Writing of the cause of delay is given to the Consultant not later than 10 6.5.4 Working Days after the commencement of the delay. In the case of a continuing cause of delay only one Notice in Writing shall be necessary.
- 6.5.5 If no schedule is made under paragraph 2.2.12 of GC 2.2 - ROLE OF THE CONSULTANT, then no request for extension shall be made because of failure of the Consultant to furnish instructions until 10 Working Days after demand for such instructions has been made.

#### GC 6.6 CLAIMS FOR A CHANGE IN CONTRACT PRICE

- 6.6.1 If the Contractor intends to make a claim for an increase to the Contract Price, or if the Owner intends to make a claim against the Contractor for a credit to the Contract Price, the party that intends to make the claim shall give timely Notice in Writing of intent to claim to the other party and to the Consultant.
- 6.6.2 Upon commencement of the event or series of events giving rise to a claim, the party intending to make the claim shall:
  - take all reasonable measures to mitigate any loss or expense which may be incurred as a result of such event or series of
  - .2 keep such records as may be necessary to support the claim.
- 6.6.3 The party making the claim shall submit within a reasonable time to the Consultant a detailed account of the amount claimed and the grounds upon which the claim is based and the Consultant will make a finding upon such claim.
- 6.6.4 Where the event or series of events giving rise to the claim has a continuing effect, the detailed account submitted under paragraph 6.6.3 shall be considered to be an interim account and the party making the claim shall, at such intervals as the Consultant may reasonably require, submit further interim accounts giving the accumulated amount of the claim and any further grounds upon which it is based. The party making the claim shall submit a final account after the end of the effects resulting from the event or series of events.
- 6.6.5 The Consultant's findings, with respect to a claim made by either party, will be given by Notice in Writing to both parties within 30 Working Days after receipt of the claim by the Consultant, or within such other time period as may be agreed by the parties.
- 6.6.6 If such finding is not acceptable to either party, the claim shall be settled in accordance with Part 8 of the General Conditions - DISPUTE RESOLUTION.

# **PART 7 DEFAULT NOTICE**

# GC 7.1 OWNER'S RIGHT TO PERFORM THE WORK, TERMINATE THE CONTRACTOR'S RIGHT TO CONTINUE WITH THE WORK OR TERMINATE THE CONTRACT

- 7.1.1 If the Contractor is adjudged bankrupt, or makes a general assignment for the benefit of creditors because of the Contractor's insolvency, or if a receiver is appointed because of the Contractor's insolvency, the Owner may, without prejudice to any other right or remedy the Owner may have, terminate the Contractor's right to continue with the Work, by giving the Contractor or receiver or trustee in bankruptcy Notice in Writing to that effect.
- 7.1.2 If the Contractor neglects to perform the Work properly or otherwise fails to comply with the requirements of the Contract to a substantial degree and if the Consultant has given a written statement to the Owner and Contractor which provides the detail of such neglect to perform the Work properly or such failure to comply with the requirements of the Contract to a substantial degree, the Owner may, without prejudice to any other right or remedy the Owner may have, give the Contractor Notice in Writing, containing particulars of the default including references to applicable provisions of the Contract, that the Contractor is in default of the Contractor's contractual obligations and instruct the Contractor to correct the default in the 5 Working Days immediately following the receipt of such Notice in Writing.
- 7.1.3 If the default cannot be corrected in the 5 Working Days specified or in such other time period as may be subsequently agreed in writing by the parties, the Contractor shall be in compliance with the Owner's instructions if the Contractor:
  - commences the correction of the default within the specified time,
  - provides the Owner with an acceptable schedule for such correction, and
  - corrects the default in accordance with the Contract terms and with such schedule.

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- 7.1.4 If the Contractor fails to correct the default in the time specified or in such other time period as may be subsequently agreed in writing by the parties, without prejudice to any other right or remedy the Owner may have, the Owner may by giving Notice in Writing:
  - .1 correct such default and deduct the cost thereof from any payment then or thereafter due the *Contractor* for the *Work* provided the *Consultant* has certified such cost to the *Owner* and the *Contractor*, or
  - .2 terminate the Contractor's right to continue with the Work in whole or in part or terminate the Contract.
- 7.1.5 If the Owner terminates the Contractor's right to continue with the Work as provided in paragraphs 7.1.1 and 7.1.4, the Owner shall be entitled to:
  - 11 take possession of the Work and Products at the Place of the Work; subject to the rights of third parties, utilize the Construction Equipment at the Place of the Work; finish the Work by whatever method the Owner may consider expedient, but without undue delay or expense,
  - .2 withhold further payment to the Contractor until a final certificate for payment is issued,
  - .3 charge the Contractor the amount by which the full cost of finishing the Work as certified by the Consultant, including compensation to the Consultant for the Consultant's additional services and a reasonable allowance as determined by the Consultant to cover the cost of corrections to work performed by the Contractor that may be required under GC 12.3 WARRANTY, exceeds the unpaid balance of the Contract Price; however, if such cost of finishing the Work is less than the unpaid balance of the Contract Price, the Owner shall pay the Contractor the difference, and
  - .4 on expiry of the warranty period, charge the Contractor the amount by which the cost of corrections to the Contractor's work under GC 12.3 WARRANTY exceeds the allowance provided for such corrections, or if the cost of such corrections is less than the allowance, pay the Contractor the difference.
- 7.1.6 The Contractor's obligation under the Contract as to quality, correction and warranty of the work performed by the Contractor up to the time of termination shall continue in force after such termination of the Contract.

# GC 7.2 CONTRACTOR'S RIGHT TO SUSPEND THE WORK OR TERMINATE THE CONTRACT

- 7.2.1 If the Owner is adjudged bankrupt, or makes a general assignment for the benefit of creditors because of the Owner's insolvency, or if a receiver is appointed because of the Owner's insolvency, the Contractor may, without prejudice to any other right or remedy the Contractor may have, terminate the Contract by giving the Owner or receiver or trustee in bankruptcy Notice in Writing to that effect.
- 7.2.2 If the Work is suspended or otherwise delayed for a period of 20 Working Days or more under an order of a court or other public authority and providing that such order was not issued as the result of an act or fault of the Contractor or of anyone directly or indirectly employed or engaged by the Contractor, the Contractor may, without prejudice to any other right or remedy the Contractor may have, terminate the Contract by giving the Owner Notice in Writing to that effect.
- 7.2.3 The Contractor may give Notice in Writing to the Owner, with a copy to the Consultant, that the Owner is in default of the Owner's contractual obligations if:
  - .1 the Owner fails to furnish, when so requested by the Contractor, reasonable evidence that financial arrangements have been made to fulfill the Owner's obligations under the Contract,
  - .2 the Consultant fails to issue a certificate as provided in Part 5 of the General Conditions PAYMENT,
  - .3 the Owner fails to pay the Contractor when due the amounts certified by the Consultant or awarded by adjudication, arbitration or court, or
  - .4 the Owner fails to comply with the requirements of the Contract to a substantial degree and the Consultant, except for GC 5.1 FINANCING INFORMATION REQUIRED OF THE OWNER, gives a written statement to the Owner and the Contract to that provides detail of such failure to comply with the requirements of the Contract to a substantial degree.
- 7.2.4 The Contractor's Notice in Writing to the Owner provided under paragraph 7.2.3 shall advise that if the default is not corrected within 5 Working Days following the receipt of the Notice in Writing, the Contractor may, without prejudice to any other right or remedy the Contractor may have, suspend the Work or terminate the Contract.
- 7.2.5 If the Contractor terminates the Contract by giving a Notice in Writing to the Owner under the conditions set out above, the Contractor shall be entitled to be paid for all work performed including reasonable profit, for loss sustained upon Products and Construction Equipment, and such other damages as the Contractor may have sustained as a result of the termination of the Contract.

#### PART 8 DISPUTE RESOLUTION

#### GC 8.1 AUTHORITY OF THE CONSULTANT

8.1.1 Differences between the parties to the *Contract* as to the interpretation, application or administration of the *Contract* or any failure to agree where agreement between the parties is called for, herein collectively called disputes, which are not resolved

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- in the first instance by findings of the *Consultant* as provided in GC 2.2 ROLE OF THE CONSULTANT, shall be settled in accordance with the requirements of Part 8 of the General Conditions DISPUTE RESOLUTION.
- 8.1.2 If a dispute arises under the *Contract* in respect of a matter in which the *Consultant* has no authority under the *Contract* to make a finding, the procedures set out in paragraph 8.1.3 and paragraphs 8.3.3 to 8.3.8 of GC 8.3 NEGOTIATION, MEDIATION AND ARBITRATION, and in GC 8.4 RETENTION OF RIGHTS apply to that dispute with the necessary changes to detail as may be required.
- 8.1.3 If a dispute is not resolved promptly, the *Consultant* will give such instructions as in the *Consultant*'s opinion are necessary for the proper performance of the *Work* and to prevent delays pending settlement of the dispute. The parties shall act immediately according to such instructions, it being understood that by so doing neither party will jeopardize any claim the party may have. If it is subsequently determined that such instructions were in error or at variance with the *Contract Documents*, the *Owner* shall pay the *Contractor* costs incurred by the *Contractor* in carrying out such instructions which the *Contractor* was required to do beyond what the *Contract Documents* correctly understood and interpreted would have required, including costs resulting from interruption of the *Work*.

#### GC 8.2 ADJUDICATION

8.2.1 Nothing in this *Contract* shall be deemed to affect the rights of the parties to resolve any dispute by adjudication as may be prescribed by applicable legislation.

#### GC 8.3 NEGOTIATION, MEDIATION AND ARBITRATION

- 8.3.1 In accordance with the rules for mediation as provided in CCDC 40 'Rules for Mediation and Arbitration of Construction Industry Disputes' in effect at the time of bid closing, the parties shall appoint a Project Mediator
  - .1 within 20 Working Days after the Contract was awarded, or
  - 2 if the parties neglected to make an appointment within the 20 Working Days, within 10 Working Days after either party by Notice in Writing requests that the Project Mediator be appointed.
- 8.3.2 A party shall be conclusively deemed to have accepted a finding of the Consultant under GC 2.2 ROLE OF THE CONSULTANT and to have expressly waived and released the other party from any claims in respect of the particular matter dealt with in that finding unless, within 15 Working Days after receipt of that finding, the party sends a Notice in Writing of dispute to the other party and to the Consultant, which contains the particulars of the matter in dispute and the relevant provisions of the Contract Documenis. The responding party shall send a Notice in Writing of reply to the dispute within 10 Working Days after receipt of such Notice in Writing setting out particulars of this response and any relevant provisions of the Contract Documents.
- 8.3.3 The parties shall make all reasonable efforts to resolve their dispute by amicable negotiations and agree to provide, without prejudice, frank, candid, and timely disclosure of relevant facts, information and documents to facilitate these negotiations.
- 8.3.4 After a period of 10 *Working Days* following receipt of a responding party's *Notice in Writing* of reply under paragraph 8.3.2, the parties shall request the Project Mediator to assist the parties to reach agreement on any unresolved dispute. The mediated negotiations shall be conducted in accordance with the rules for mediation as provided in CCDC 40 in effect at the time of bid closing.
- 8.3.5 If the dispute has not been resolved at the mediation or within such further period as is agreed by the parties, the Project Mediator will terminate the mediated negotiations by giving *Notice in Writing* to the *Owner*, the *Contractor* and the *Consultant*.
- 8.3.6 By giving a *Notice in Writing* to the other party and the *Consultant*, not later than 10 *Working Days* after the date of termination of the mediated negotiations under paragraph 8.3.5, either party may refer the dispute to be finally resolved by arbitration under the rules of arbitration as provided in CCDC 40 in effect at the time of bid closing. The arbitration shall be conducted in the jurisdiction of the *Place of the Work*.
- 8.3.7 On expiration of the 10 *Working Days*, the arbitration agreement under paragraph 8.3.6 is not binding on the parties and, if a *Notice in Writing* is not given under paragraph 8.3.6 within the required time, the parties may refer the unresolved dispute to the courts or to any other form of dispute resolution, including arbitration, which they have agreed to use.
- 8.3.8 If neither party, by *Notice in Writing*, given within 10 *Working Days* of the date of *Notice in Writing* requesting arbitration in paragraph 8.3.6, requires that a dispute be arbitrated immediately, all disputes referred to arbitration as provided in paragraph 8.3.6 shall be:
  - .1 held in abeyance until:
    - (1) Ready-for-Takeover,
    - (2) the Contract has been terminated, or
    - (3) the *Contractor* has abandoned the *Work*, whichever is earlier; and

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.2 consolidated into a single arbitration under the rules governing the arbitration under paragraph 8.3.6.

#### **GC 8.4 RETENTION OF RIGHTS**

- 8.4.1 It is agreed that no act by either party shall be construed as a renunciation or waiver of any rights or recourses, provided the party has given the *Notice in Writing* required under Part 8 of the General Conditions DISPUTE RESOLUTION and has carried out the instructions as provided in paragraph 8.1.3 of GC 8.1 AUTHORITY OF THE CONSULTANT.
- 8.4.2 Nothing in Part 8 of the General Conditions DISPUTE RESOLUTION shall be construed in any way to limit a party from asserting any statutory right to a lien under applicable lien legislation of the jurisdiction of the *Place of the Work* and the assertion of such right by initiating judicial proceedings is not to be construed as a waiver of any right that party may have under paragraph 8.3.6 of GC 8.3 NEGOTIATION, MEDIATION AND ARBITRATION to proceed by way of arbitration to adjudicate the merits of the claim upon which such a lien is based.

#### PART 9 PROTECTION OF PERSONS AND PROPERTY

# GC 9.1 PROTECTION OF WORK AND PROPERTY

- 9.1.1 The Contractor shall protect the Work, the Owner's property and property adjacent to the Place of the Work from damage which may arise as the result of the Contractor's operations under the Contract, and shall be responsible for such damage, except damage which occurs as the result of:
  - 1 errors or omissions in the Contract Documents; or
  - .2 acts or omissions by the Owner, the Consultant, Other Contractors, or their agents and employees.
- 9.1.2 Before commencing any work, the *Contractor* shall determine the location of all underground utilities and structures indicated in the *Contract Documents* or that are reasonably apparent in an inspection of the *Place of the Work*.
- 9.1.3 Should the *Contractor* in the performance of the *Contract* damage the *Work*, the *Owner*'s property or property adjacent to the *Place of the Work*, the *Contractor* shall be responsible for making good such damage at the *Contractor*'s expense.
- 9.1.4 Should damage occur to the *Work* or the *Owner*'s property for which the *Contractor* is not responsible, as provided in paragraph 9.1.1, the *Contractor* shall make good such damage to the *Work* and, if the *Owner* so directs, to the *Owner*'s property. The *Contract Price* and *Contract Time* shall be adjusted as provided in GC 6.1 OWNER'S RIGHT TO MAKE CHANGES, GC 6.2 CHANGE ORDER and GC 6.3 CHANGE DIRECTIVE.

#### GC 9.2 TOXIC AND HAZARDOUS SUBSTANCES

- 9.2.1 For the purposes of applicable legislation related to toxic and hazardous substances, the *Owner* shall be deemed to have control and management of the *Place of the Work* with respect to existing conditions.
- 9.2.2 Prior to the *Contractor* commencing the *Work*, the *Owner* shall,
  - 1 take all reasonable steps to determine whether any toxic or hazardous substances are present at the Place of the Work, and
  - .2 provide the Consultant and the Contractor with a written list of any such substances that are known to exist and their locations.
- 9.2.3 The *Owner* shall take all reasonable steps to ensure that no person's exposure to any toxic or hazardous substance exceeds the time weighted levels prescribed by applicable legislation at the *Place of the Work* and that no property is damaged or destroyed as a result of exposure to, or the presence of, toxic or hazardous substances which were at the *Place of the Work* prior to the *Contractor* commencing the *Work*.
- 9.2.4 Unless the *Contract* expressly provides otherwise, the *Owner* shall be responsible for taking all necessary steps, in accordance with applicable legislation in force at the *Place of the Work*, to dispose of, store or otherwise render harmless any toxic or hazardous substance which was present at the *Place of the Work* prior to the *Contractor* commencing the *Work*.

#### 9.2.5 If the Contractor

- .1 encounters toxic or hazardous substances at the Place of the Work, or
- .2 has reasonable grounds to believe that toxic or hazardous substances are present at the *Place of the Work*, which were not brought to the *Place of the Work* by the *Contractor* or anyone for whom the *Contractor* is responsible and which were not disclosed by the *Owner* or which were disclosed but have not been dealt with as required under paragraph 9.2.4, the *Contractor* shall
- .3 take all reasonable steps, including stopping the *Work*, to ensure that no person's exposure to any toxic or hazardous substance exceeds any applicable time weighted levels prescribed by applicable legislation at the *Place of the Work*, and
- 4 immediately report the circumstances to the Consultant and the Owner in writing.

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- 9.2.6 If the Owner and the Contractor do not agree on the existence, significance of, or whether the toxic or hazardous substances were brought onto the Place of the Work by the Contractor or anyone for whom the Contractor is responsible, the Owner shall retain and pay for an independent qualified expert to investigate and determine such matters. The expert's report shall be delivered to the Owner and the Contractor.
- 9.2.7 If the Owner and the Contractor agree or if the expert referred to in paragraph 9.2.6 determines that the toxic or hazardous substances were not brought onto the place of the Work by the Contractor or anyone for whom the Contractor is responsible, the Owner shall promptly at the Owner's own expense:
  - .1 take all steps as required under paragraph 9.2.4;
  - .2 reimburse the Contractor for the costs of all steps taken pursuant to paragraph 9.2.5;
  - .3 extend the Contract Time for such reasonable time as the Consultant may recommend in consultation with the Contractor and the expert referred to in 9.2.6 and reimburse the Contractor for reasonable costs incurred as a result of the delay; and
  - .4 indemnify the *Contractor* as required by GC 13.1 INDEMNIFICATION.
- 9.2.8 If the *Owner* and the *Contractor* agree or if the expert referred to in paragraph 9.2.6 determines that the toxic or hazardous substances were brought onto the place of the *Work* by the *Contractor* or anyone for whom the *Contractor* is responsible, the *Contractor* shall promptly at the *Contractor*'s own expense:
  - .1 take all necessary steps, in accordance with applicable legislation in force at the Place of the Work, to safely remove and dispose the toxic or hazardous substances;
  - .2 make good any damage to the *Work*, the *Owner*'s property or property adjacent to the place of the *Work* as provided in paragraph 9.1.3 of GC 9.1 PROTECTION OF WORK AND PROPERTY;
  - .3 reimburse the Owner for reasonable costs incurred under paragraph 9.2.6; and
  - .4 indemnify the Owner as required by GC 13.1 INDEMNIFICATION.
- 9.2.9 If either party does not accept the expert's findings under paragraph 9.2.6, the disagreement shall be settled in accordance with Part 8 of the General Conditions DISPUTE RESOLUTION. If such disagreement is not resolved promptly, the parties shall act immediately in accordance with the expert's determination and take the steps required by paragraph 9.2.7 or 9.2.8 it being understood that by so doing, neither party will jeopardize any claim that party may have to be reimbursed as provided by GC 9.2 TOXIC AND HAZARDOUS SUBSTANCES.

#### GC 9.3 ARTIFACTS AND FOSSILS

- 9.3.1 Fossils, coins, articles of value or antiquity, structures and other remains or things of scientific or historic interest discovered at the *Place or Work* shall, as between the *Owner* and the *Contractor*, be deemed to be the absolute property of the *Owner*.
- 9.3.2 The *Contractor* shall take all reasonable precautions to prevent removal or damage to discoveries as identified in paragraph 9.3.1, and shall advise the *Consultant* upon discovery of such items.
- 9.3.3 The Consultant will investigate the impact on the Work of the discoveries identified in paragraph 9.3.1. If conditions are found that would cause an increase or decrease in the Contractor's cost or time to perform the Work, the Owner, through the Consultant, shall issue appropriate instructions for a change in the Work as provided in GC 6.2 CHANGE ORDER or GC 6.3 CHANGE DIRECTIVE.

#### **GC 9.4 CONSTRUCTION SAFETY**

- 9.4.1 The *Contractor* shall be responsible for establishing, initiating, maintaining, and supervising all health and safety precautions and programs in connection with the performance of the *Work* in accordance with the applicable health and safety legislation.
- 9.4.2 The Owner and the Contractor shall comply with all health and safety precautions and programs established at the Place of the Work.
- 9.4.3 The Owner and the Contractor shall comply with the rules, regulations and practices required by the applicable health and safety legislation.
- 9.4.4 The Owner shall cause the Consultant, Other Contractors and the Owner's own forces to comply with all health and safety precautions and programs established by the Contractor at the Place of the Work.
- 9.4.5 Nothing in this Contract shall affect the determination of liability under the applicable health and safety legislation.

#### GC 9.5 MOULD

- 9.5.1 If the Contractor or the Owner observes or reasonably suspects the presence of mould at the Place of the Work, the remediation of which is not expressly part of the Work,
  - .1 the observing party shall promptly report the circumstances to the other party in writing,
  - .2 the Contractor shall promptly take all reasonable steps, including stopping the Work if necessary, to ensure that no person suffers injury, sickness or death and that no property is damaged as a result of exposure to or the presence of the mould, and

suffers injury, sickness or death and that no property is damaged as a result of exposure to or the presence of the mould, and CCDC 2 – 2020

- .3 if the Owner and the Contractor do not agree on the existence, significance or cause of the mould or as to what steps need be taken to deal with it, the Owner shall retain and pay for an independent qualified expert to investigate and determine such matters. The expert's report shall be delivered to the Owner and the Contractor.
- 9.5.2 If the *Owner* and the *Contractor* agree, or if the expert referred to in paragraph 9.5.1.3 determines that the presence of mould was caused by the *Contractor*'s operations under the *Contractor*, the *Contractor* shall promptly, at the *Contractor*'s own expense:
  - .1 take all reasonable and necessary steps to safely remediate or dispose of the mould,
  - .2 make good any damage to the *Work*, the *Owner*'s property or property adjacent to the *Place of the Work* as provided in paragraph 9.1.3 of GC 9.1 PROTECTION OF WORK AND PROPERTY,
  - .3 reimburse the Owner for reasonable costs incurred under paragraph 9.5.1.3, and
  - 4 indemnify the Owner as required by GC 13.1 INDEMNIFICATION.
- 9.5.3 If the *Owner* and the *Contractor* agree, or if the expert referred to in paragraph 9.5.1.3 determines that the presence of mould was not caused by the *Contractor*'s operations under the *Contract*, the *Owner* shall promptly, at the *Owner*'s own expense:
  - .1 take all reasonable and necessary steps to safely remediate or dispose of the mould,
  - .2 reimburse the *Contractor* for the cost of taking the steps under paragraph 9.5.1.2 and making good any damage to the *Work* as provided in paragraph 9.1.4 of GC 9.1 PROTECTION OF WORK AND PROPERTY,
  - .3 extend the Contract Time for such reasonable time as the Consultant may recommend in consultation with the Contractor and the expert referred to in paragraph 9.5.1.3 and reimburse the Contractor for reasonable costs incurred as a result of the delay, and
  - .4 indemnify the Contractor as required by GC 13.1 INDEMNIFICATION.
- 9.5.4 If either party does not accept the expert's finding under paragraph 9.5.1.3, the disagreement shall be settled in accordance with Part 8 of the General Conditions DISPUTE RESOLUTION. If such disagreement is not resolved promptly, the parties shall act immediately in accordance with the expert's determination and take the steps required by paragraphs 9.5.2 or 9.5.3, it being understood that by so doing neither party will jeopardize any claim the party may have to be reimbursed as provided by GC 9.5 MOULD.

#### PART 10 GOVERNING REGULATIONS

#### GC 10.1 TAXES AND DUTIES

- 10.1.1 The Contract Price shall include all taxes and customs duties in effect at the time of the bid closing except for Value Added Taxes payable by the Owner to the Contractor as stipulated in Article A-4 of the Agreement CONTRACT PRICE.
- 10.1.2 Any increase or decrease in costs to the Contractor due to changes in taxes and duties after the time of the bid closing shall increase or decrease the Contract Price accordingly.

#### GC 10.2 LAWS, NOTICES, PERMITS, AND FEES

- 10.2.1 The laws of the *Place of the Work* shall govern the *Work*.
- 10.2.2 The Owner shall obtain and pay for development approvals, building permit, permanent easements, rights of servitude, and all other necessary approvals and permits, except for the permits and fees referred to in paragraph 10.2.3 or for which the Contract Documents specify as the responsibility of the Contractor.
- 10.2.3 The Contractor shall be responsible for the procurement of permits, licences, inspections, and certificates, which are necessary for the performance of the Work and customarily obtained by contractors in the jurisdiction of the Place of the Work after the issuance of the building permit. The Contract Price includes the cost of these permits, licences, inspections, and certificates, and their procurement.
- 10.2.4 The *Contractor* shall give the required notices and comply with the laws, ordinances, rules, regulations, or codes which are or become in force during the performance of the *Work* and which relate to the *Work*, to the preservation of the public health, and to construction safety.
- 10.2.5 The Contractor shall not be responsible for verifying that the Contract Documents are in compliance with the applicable laws, ordinances, rules, regulations, or codes relating to the Work. If the Contract Documents are at variance therewith, or if, subsequent to the time of bid closing, changes are made to the applicable laws, ordinances, rules, regulations, or codes which require modification to the Contract Documents, the Contractor shall advise the Consultant in writing requesting direction immediately upon such variance or change becoming known. The Consultant will issue the changes required to the Contract Documents as provided in GC 6.1 OWNER'S RIGHT TO MAKE CHANGES, GC 6.2 CHANGE ORDER and GC 6.3 CHANGE DIRECTIVE.

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- 10.2.6 If the Contractor fails to advise the Consultant in writing; fails to obtain direction as required in paragraph 10.2.5; and performs work knowing it to be contrary to any laws, ordinances, rules, regulations, or codes; the Contractor shall be responsible for and shall correct the violations thereof; and shall bear the costs, expenses and damages attributable to the failure to comply with the provisions of such laws, ordinances, rules, regulations, or codes.
- 10.2.7 If, subsequent to the time of bid closing, changes are made to applicable laws, ordinances, rules, regulations, or codes of authorities having jurisdiction which affect the cost of the Work, either party may submit a claim in accordance with the requirements of GC 6.6 CLAIMS FOR A CHANGE IN CONTRACT PRICE.

#### GC 10.3 PATENT FEES

- 10.3.1 The Contractor shall pay the royalties and patent licence fees required for the performance of the Contract. The Contractor shall hold the Owner harmless from and against claims, demands, losses, costs, damages, actions, suits, or proceedings arising out of the Contractor's performance of the Contract which are attributable to an infringement or an alleged infringement of a patent of invention by the Contractor or anyone for whose acts the Contractor may be liable.
- 10.3.2 The Owner shall hold the Contractor harmless against claims, demands, losses, costs, damages, actions, suits, or proceedings arising out of the Contractor's performance of the Contract which are attributable to an infringement or an alleged infringement of a patent of invention in executing anything for the purpose of the Contract, the physical model, plan or design of which was supplied to the Contractor as part of the Contract.

#### GC 10.4 WORKERS' COMPENSATION

10.4.1 Prior to commencing the *Work*, and again with the *Contractor*'s applications for payment, the *Contractor* shall provide evidence of compliance with workers' compensation legislation at the *Place of the Work*.

#### **PART 11 INSURANCE**

#### **GC 11.1 INSURANCE**

- 11.1.1 Without restricting the generality of GC 13.1 INDEMNIFICATION, the *Contractor* shall provide, maintain and pay for the following insurance coverages, the requirements of which are specified in CCDC 41 'CCDC Insurance Requirements' in effect at the time of bid closing except as hereinafter provided:
  - .1 General liability insurance in the name of the Contractor and include, or in the case of a single, blanket policy, be endorsed to name, the Owner and the Consultant as insureds but only with respect to liability, other than legal liability arising out of their sole negligence, arising out of the operations of the Contractor with regard to the Work. General liability insurance shall be maintained from the date of commencement of the Work until one year from the date of Ready-for-Takeover. Liability coverage shall be provided for completed operations hazards from the date of Ready-for-Takeover on an ongoing basis for a period of 6 years following Ready-for-Takeover.
  - .2 Automobile Liability Insurance from the date of commencement of the Work until one year after the date of Ready-for-Takeover.
  - .3 Unmanned aerial vehicle aircraft, manned aircraft or watercraft Liability Insurance when owned or non-owned manned or unmanned aircraft or watercraft are used directly or indirectly in the performance of the *Work*.
  - .4 "Broad form" property insurance in the joint names of the Contractor, the Owner and the Consultant. The policy shall include as insureds all Subcontractors. The "Broad form" property insurance shall be provided from the date of commencement of the Work until the earliest of:
    - (1) 10 calendar days after the date of Ready-for-Takeover;
    - (2) on the commencement of use or occupancy of any part or section of the *Work* unless such use or occupancy is for construction purposes, habitational, office, banking, convenience store under 465 square metres in area, or parking purposes, or for the installation, testing and commissioning of equipment forming part of the *Work*; and
    - (3) when left unattended for more than 30 consecutive calendar days or when construction activity has ceased for more than 30 consecutive calendar days.
  - .5 Boiler and machinery insurance in the joint names of the Contractor, the Owner and the Consultant. The policy shall include as insureds all Subcontractors. The coverage shall be maintained continuously from commencement of use or operation of the boiler and machinery objects insured by the policy and until 10 calendar days after the date of Ready-for-Takeover.
  - .6 The "Broad form" property and boiler and machinery policies shall provide that, in the case of a loss or damage, payment shall be made to the Owner and the Contractor as their respective interests may appear. In the event of loss or damage:
    - (1) the Contractor shall act on behalf of the Owner for the purpose of adjusting the amount of such loss or damage payment with the insurers. When the extent of the loss or damage is determined, the Contractor shall proceed to restore the Work. Loss or damage shall not affect the rights and obligations of either party under the Contract except

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- that the Contractor shall be entitled to such reasonable extension of Contract Time relative to the extent of the loss or damage as the Consultant may recommend in consultation with the Contractor;
- (2) the Contractor shall be entitled to receive from the Owner, in addition to the amount due under the Contract, the amount which the Owner's interest in restoration of the Work has been appraised, such amount to be paid as the restoration of the Work proceeds in accordance with the progress payment provisions. In addition the Contractor shall be entitled to receive from the payments made by the insurer the amount of the Contractor's interest in the restoration of the Work; and
- (3) to the Work arising from the work of the Owner, the Owner's own forces or Other Contractors, the Owner shall, in accordance with the Owner's obligations under the provisions relating to construction by the Owner or Other Contractors, pay the Contractor the cost of restoring the Work as the restoration of the Work proceeds and as in accordance with the progress payment provisions.
- .7 Contractors' Equipment Insurance from the date of commencement of the Work until one year after the date of Ready-for-Takeover.
- .8 Contractors' Pollution Liability Insurance from the date of commencement of the Work until one year after the date of Ready-for-Takeover.
- 11.1.2 Prior to commencement of the *Work* and upon the placement, renewal, amendment, or extension of all or any part of the insurance, the *Contractor* shall promptly provide the *Owner* with confirmation of coverage and, if required, a certified true copy of the policies certified by an authorized representative of the insurer together with copies of any amending endorsements applicable to the *Work*.
- 11.1.3 The parties shall pay their share of the deductible amounts in direct proportion to their responsibility in regards to any loss for which the above policies are required to pay, except where such amounts may be excluded by the terms of the *Contract*.
- 11.1.4 If the Contractor fails to provide or maintain insurance as required by the Contract Documents, then the Owner shall have the right to provide and maintain such insurance and give evidence to the Contractor and the Consultant. The Contractor shall pay the cost thereof to the Owner on demand or the Owner may deduct the cost from the amount which is due or may become due to the Contractor.
- 11.1.5 All required insurance policies shall be with insurers licensed to underwrite insurance in the jurisdiction of the Place of the Work.
- 11.1.6 If a revised version of CCDC 41 is published, which specifies reduced insurance requirements, the parties shall address such reduction, prior to the *Contractor*'s insurance policy becoming due for renewal, and record any agreement in a *Change Order*.
- 11.1.7 If a revised version of CCDC 41 is published, which specifies increased insurance requirements, the *Owner* may request the increased coverage from the *Contractor* by way of a *Change Order*.
- 11.1.8 A Change Directive shall not be used to direct a change in the insurance requirements in response to the revision of CCDC 41.

#### **PART 12 OWNER TAKEOVER**

#### GC 12.1 READY-FOR-TAKEOVER

- 12.1.1 The prerequisites to attaining Ready-for-Takeover of the Work are limited to the following:
  - .1 The Consultant has certified or verified the Substantial Performance of the Work.
  - .2 Evidence of compliance with the requirements for occupancy or occupancy permit as prescribed by the authorities having jurisdiction.
  - .3 Final cleaning and waste removal at the time of applying for Ready-for-Takeover, as required by the Contract Documents.
  - .4 The delivery to the *Owner* of such operations and maintenance documents reasonably necessary for immediate operation and maintenance, as required by the *Contract Documents*.
  - .5 Make available a copy of the as-built drawings completed to date on site.
  - .6 Startup, testing required for immediate occupancy, as required by the Contract Documents.
  - .7 Ability to secure access to the Work has been provided to the Owner, if required by the Contract Documents.
  - .8 Demonstration and training, as required by the Contract Documents, is scheduled by the Contractor acting reasonably.
- 12.1.2 If any prerequisites set forth in paragraphs 12.1.1.3 to 12.1.1.6 must be deferred because of conditions reasonably beyond the control of the *Contractor*, or by agreement between the *Owner* and the *Contractor* to do so, *Ready-for-Takeover* shall not be delayed.
- 12.1.3 When the Contractor considers that the Work is Ready-for-Takeover, the Contractor shall deliver to the Consultant and to the Owner a comprehensive list of items to be completed or corrected, together with a written application for Ready-for-Takeover for review. Failure to include an item on the list does not alter the responsibility of the Contractor to complete the Contract.
- 12.1.4 The Consultant will review the Work to verify the validity of the application and will promptly, and in any event, no later than 10 calendar days after receipt of the Contractor's list and application:

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- advise the Contractor in writing that the Work is not Ready-for-Takeover and give reasons why, or
- .2 confirm the date of Ready-for-Takeover in writing to each of the Owner and the Contractor.
- 12.1.5 Immediately following the confirmation of the date of *Ready-for-Takeover*, the *Contractor*, in consultation with the *Consultant*, shall establish a reasonable date for finishing the *Work*.
- 12.1.6 The provision of GC 12.1 READY-FOR-TAKEOVER shall be subject to GC 12.2 EARLY OCCUPANCY BY THE OWNER.

#### GC 12.2 EARLY OCCUPANCY BY THE OWNER

- 12.2.1 The Owner may take occupancy of a part or the entirety of the Work before Ready-for-Takeover has been attained only as agreed by the Contractor which agreement shall not be unreasonably withheld.
- 12.2.2 The Owner shall not occupy a part or the entirety of the Work without prior approval by authorities having jurisdiction.
- 12.2.3 If the Owner takes occupancy of a part of the Work before Ready-for-Takeover has been attained:
  - .1 The part of the Work which is occupied shall be deemed to have been taken over by the Owner as from the date on which it is occupied.
  - .2 The Contractor shall cease to be liable for the care of such part as from this date, when responsibility shall pass to the Owner.
  - .3 The warranty period specified in paragraph 12.3.1 of GC 12.3 WARRANTY for that part of the *Work* shall start from the date on which it is occupied.
- 12.2.4 If the Owner takes occupancy of the entirety of the Work before all the prerequisites are met as described in paragraph 12.1.1 of GC 12.1 READY-FOR-TAKEOVER, the Work shall, subject to the requirements of the applicable lien legislation, be deemed to achieve Ready-for-Takeover. This shall not relieve the Contractor's responsibility to complete the Work in a timely manner.

# **GC 12.3 WARRANTY**

- 12.3.1 Except for extended warranties as described in paragraph 12.3.6, the warranty period under the *Contract* is one year from the date when *Ready-for-Takeover* has been attained.
- 12.3.2 The Contractor shall be responsible for the proper performance of the Work to the extent that the design and Contract Documents permit such performance.
- 12.3.3 The Owner, through the Consultant, shall promptly give the Contractor Notice in Writing of observed defects and deficiencies which occur during the one year warranty period.
- 12.3.4 Subject to paragraph 12.3.2, the *Contractor* shall correct promptly, at the *Contractor*'s expense, defects or deficiencies in the *Work* which appear prior to and during the one year warranty period.
- 12.3.5 The Contractor shall correct or pay for damage resulting from corrections made under the requirements of paragraph 12.3.4.
- 12.3.6 Any extended warranties required beyond the one year warranty period as described in paragraph 12.3.1, shall be as specified in the *Contract Documents*. Extended warranties shall be issued by the warrantor to the benefit of the *Owner*. The *Contractor's* responsibility with respect to extended warranties shall be limited to obtaining any such extended warranties from the warrantor. The obligations under such extended warranties are solely the responsibilities of the warrantor.

#### **PART 13 INDEMNIFICATION AND WAIVER**

# **GC 13.1 INDEMNIFICATION**

- 13.1.1 Without restricting the parties' obligation to indemnify respecting toxic and hazardous substances, patent fees and defect in title claims all as described in paragraphs 13.1.4 and 13.1.5, the Owner and the Contractor shall each indemnify and hold harmless the other from and against all claims, demands, losses, costs, damages, actions, suits, or proceedings whether in respect to losses suffered by them or in respect to claims by third parties that arise out of, or are attributable in any respect to their involvement as parties to this Contract, provided such claims are:
  - .1 caused by:
    - (1) the negligent acts or omissions of the party from whom indemnification is sought or anyone for whose negligent acts or omissions that party is liable, or
    - (2) a failure of the party to the Contract from whom indemnification is sought to fulfill its terms or conditions; and
  - .2 made by *Notice in Writing* within a period of 6 years from the *Ready-for-Takeover* date or within such shorter period as may be prescribed by any limitation statute of the Province or Territory of the *Place of the Work*.

The parties expressly waive the right to indemnity for claims other than those provided for in this Contract.

- 13.1.2 The obligation of either party to indemnify as set forth in paragraph 13.1.1 shall be limited as follows:
  - .1 In respect to losses suffered by the Owner and the Contractor for which insurance is to be provided by either party pursuant to GC 11.1 - INSURANCE, the minimum liability insurance limit for one occurrence, of the applicable insurance policy, as referred to in CCDC 41 in effect at the time of bid closing.
  - .2 In respect to losses suffered by the Owner and the Contractor for which insurance is not required to be provided by either party in accordance with GC 11.1 - INSURANCE, the greater of the Contract Price as recorded in Article A-4 - CONTRACT PRICE or \$2,000,000, but in no event shall the sum be greater than \$20,000,000.
  - .3 In respect to indemnification by a party against the other with respect to losses suffered by them, such obligation shall be restricted to direct loss and damage, and neither party shall have any liability to the other for indirect, consequential, punitive or exemplary damages.
  - In respect to indemnification respecting claims by third parties, the obligation to indemnify is without limit,
- 13.1.3 The obligation of either party to indemnify the other as set forth in paragraphs 13.1.1 and 13.1.2 shall be inclusive of interest and all legal costs.
- 13.1.4 The Owner and the Contractor shall indemnify and hold harmless the other from and against all claims, demands, losses, costs, damages, actions, suits, or proceedings arising out of their obligations described in GC 9.2 - TOXIC AND HAZARDOUS SUBSTANCES.
- 13.1.5 The Owner shall indemnify and hold harmless the Contractor from and against all claims, demands, losses, costs, damages, actions, suits, or proceedings:
  - .1 as described in paragraph 10.3.2 of GC 10.3 PATENT FEES, and
  - arising out of the Contractor's performance of the Contract which are attributable to a lack of or defect in title or an alleged lack of or defect in title to the Place of the Work.
- 13.1.6 In respect to any claim for indemnity or to be held harmless by the Owner or the Contractor:
  - .1 Notice in Writing of such claim shall be given within a reasonable time after the facts upon which such claim is based become
  - should any party be required as a result of its obligation to indemnify another to pay or satisfy a final order, judgment or award made against the party entitled by this contract to be indemnified, then the indemnifying party upon assuming all liability for any costs that might result shall have the right to appeal in the name of the party against whom such final order or judgment has been made until such rights of appeal have been exhausted.

#### GC 13.2 WAIVER OF CLAIMS

- Subject to any lien legislation applicable to the *Place of the Work*, the *Contractor* waives and releases the *Owner* from all claims which the Contractor has or reasonably ought to have knowledge of that could be advanced by the Contractor against the Owner under the Contract, including, without limitation, those arising from negligence or breach of contract in respect to which the cause of action is based upon acts or omissions which occurred prior to or on the Ready-for-Takeover date, except as follows:
  - claims arising prior to or on the Ready-for-Takeover date for which Notice in Writing of claim has been received by the Owner from the Contractor no later than 5 calendar days before the expiry of the lien period provided by the lien legislation applicable at the Place of the Work or 20 calendar days following the Ready-for-Takeover date, whichever is later;
  - .2 indemnification for claims advanced against the Contractor by third parties for which a right of indemnification may be asserted by the Contractor against the Owner pursuant to the provisions of this Contract;
  - claims respecting toxic and hazardous substances, patent fees and defect in title matters for which a right of indemnity could be asserted by the Contractor pursuant to the provisions of paragraphs 13.1.4 or 13.1.5 of GC 13.1 – INDEMNIFICATION;
  - claims resulting from acts or omissions which occur after the Ready-for-Takeover date.
- 13.2.2 The Contractor waives and releases the Owner from all claims resulting from acts or omissions which occurred after the Readyfor-Takeover date except for:
  - .1 indemnification respecting third party claims, and claims respecting toxic and hazardous substances, patent fees and defect in title matters, all as referred in paragraphs 13.2.1.2 and 13.2.1.3; and
  - claims for which Notice in Writing of claim has been received by the Owner from the Contractor within 395 calendar days following the Ready-for-Takeover date.
- 13.2.3 Subject to any lien legislation applicable to the Place of the Work, the Owner waives and releases the Contractor from all claims which the Owner has or reasonably ought to have knowledge of that could be advanced by the Owner against the Contractor under the Contract, including, without limitation, those arising from negligence or breach of contract in respect to which the cause of action is based upon acts or omissions which occurred prior to or on the Ready-for-Takeover date, except as follows:
  - claims arising prior to or on the Ready-for-Takeover date for which Notice in Writing of claim has been received by the Contractor from the Owner no later than 20 calendar days following the Ready-for-Takeover date;

- .2 indemnification for claims advanced against the Owner by third parties for which a right of indemnification may be asserted by the Owner against the Contractor pursuant to the provisions of this Contract;
- .3 claims respecting toxic and hazardous substances for which a right of indemnity could be asserted by the *Owner* against the *Contractor* pursuant to the provisions of paragraph 13.1.4 of GC 13.1 INDEMNIFICATION;
- .4 damages arising from the *Contractor*'s actions which result in substantial defects or deficiencies in the *Work*. "Substantial defects or deficiencies" mean those defects or deficiencies in the *Work* which affect the *Work* to such an extent or in such a manner that a significant part or the whole of the *Work* is unfit for the purpose intended by the *Contract Documents*;
- .5 claims arising pursuant to GC 12.3 WARRANTY; and
- .6 claims arising from acts or omissions which occur after the Ready-for-Takeover date.
- 13.2.4 Respecting claims arising upon substantial defects and deficiencies in the Work, as referenced in paragraph 13.2.3.4, and notwithstanding paragraph 13.2.3.5, the Owner waives and releases the Contractor from all claims except claims for which Notice in Writing of claim has been received by the Contractor from the Owner within a period of six years from the Ready-for-Takeover date, provided that any limitation statute of the Province or Territory of the Place of the Work permit such agreement. If the applicable limitation statute does not permit such agreement, the time within which any such claim may be brought shall be such shorter period as may be prescribed by any limitation statute of the Province or Territory of the Place of the Work.
- 13.2.5 The Owner waives and releases the Contractor from all claims arising from acts or omissions which occur after the Ready-for-Takeover date, except for:
  - .1 indemnification for claims advanced against the Owner by third parties, as referenced in paragraph 13.2.3.2;
  - .2 claims respecting toxic and hazardous substances for which a right of indemnity could be asserted by the Owner against the Contractor, as referenced in paragraph 13.2.3.3;
  - .3 claims arising under GC 12.3 WARRANTY; and
  - .4 claims for which *Notice is Writing* has been received by the *Contractor* from the *Owner* within 395 calendar days following the *Ready-for-Takeover* date.
- 13.2.6 "Notice in Writing of claim" as provided for in GC 13.2 WAIVER OF CLAIMS to preserve a claim or right of action which would otherwise, by the provisions of GC 13.2 WAIVER OF CLAIMS, be deemed to be waived, must include the following:
  - .1 a clear and unequivocal statement of an intention to claim;
  - .2 a statement as to the nature of the claim and the grounds upon which the claim is based; and
  - .3 a statement of the estimated quantum of the claim.
- 13.2.7 A claim for lien asserted under the lien legislation prevailing at the *Place of the Work* shall qualify as notice of claim for the purposes of this *Contract*.
- 13.2.8 The party giving the *Notice in Writing* of claim as provided for in GC 13.2 WAIVER OF CLAIMS shall submit within a reasonable time a detailed account of the amount claimed.
- 13.2.9 Where the event or series of events giving rise to a claim made under paragraphs 13.2.1 or 13.2.3 has a continuing effect, the detailed account submitted under paragraph 13.2.8 shall be considered to be an interim account and the party making the claim shall submit further interim accounts, at reasonable intervals, giving the accumulated amount of the claim and any further grounds upon which such claim is based. The party making the claim shall submit a final account after the end of the effects resulting from the event or series of events.
- 13.2.10 Nothing in GC 13.2 WAIVER OF CLAIMS shall be deemed to affect the rights of the parties under any lien legislation or limitations legislation prevailing at the *Place of the Work*.

CCDC 2 – 2020



# Addendum 1

MET ENERGY SYSTEMS

Consulting Engineering

477 Queen Street East, Suite 304

Sault Ste. Marie, ON P6A 1Z5

Tel: (705) 942-3344

Fax: (705) 942-1477

www.meteng.on.ca

ATTENTION:

**Bidders** 

DATE:

Jan.3 2023

COMPANY:

MET REF.:

22M11

FROM:

COPIES:

John Veltri

ADDENDUM NO.: 1

Tim Janzen, Bill Goulding

**FAX NO.:** 

SUBJECT:

**DOWNTOWN ARTS CENTRE - ELLIOT LAKE, ON** 

NO. PAGES:

1 (Including this page)

# The Bid documents are hereby amended as follows:

# **Specifications**

- 1. Tender Closing Date to be extended to Friday, January 6th, 2023 at 1:00p.m.
- 2. <u>Drawing a5.0 Clarification</u>
  - A. Finish General Notes Delete note '5' All existing walls to be covered with new gypsum board except 103,104,105 & 106
  - B. All existing walls are to be patched and painted.

# **End of Addendum #1**



# Addendum 2

MET ENERGY SYSTEMS

Consulting Engineering

477 Queen Street East, Suite 304

Sault Ste. Marie, ON P6A 1Z5

Tel: (705) 942-3344

Fax: (705) 942-1477

www.meteng.on.ca

ATTENTION:

**Bidders** 

DATE:

Jan.5 2023

**COMPANY:** 

MET REF .:

22M11

FROM:

John Veltri

ADDENDUM NO.: 1

221VI I I

COPIES:

Tim Janzen, Bill Goulding

**FAX NO.:** 

SUBJECT:

**DOWNTOWN ARTS CENTRE - ELLIOT LAKE, ON** 

**NO. PAGES:** 

1 (Including this page)

# The Bid documents are hereby amended as follows:

# **Clarifications**

- Delete any references to Drawing S10. All bracing for the RTU's should be referenced to drawing S7. Reference notes, on drawing S5 regarding RTU supports should be S7 not S10 as shown.
- 2. Drawing E3 Legend Description for HD (Heat Detector) is described as SD (Smoke Detector) and Description of SD (Smoke Detector) is described as HD (Heat Detector).

#### End of Addendum #2

# **16 ELIZABETH WALK** DOWNTOWN ARTS CENTRE

**ELLIOT LAKE, ON** 

**ISSUED FOR TENDER DECEMBER 16 2022** 

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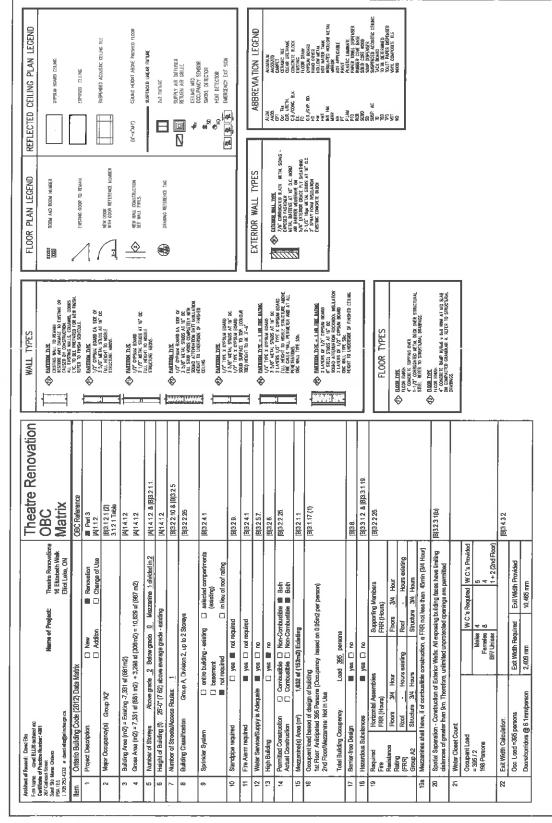




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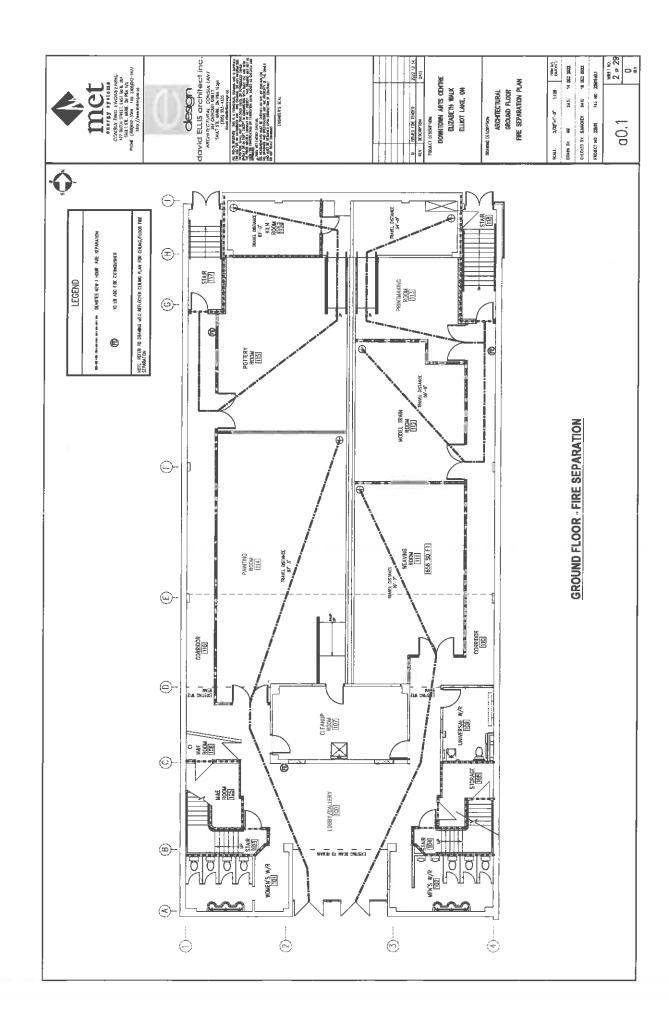
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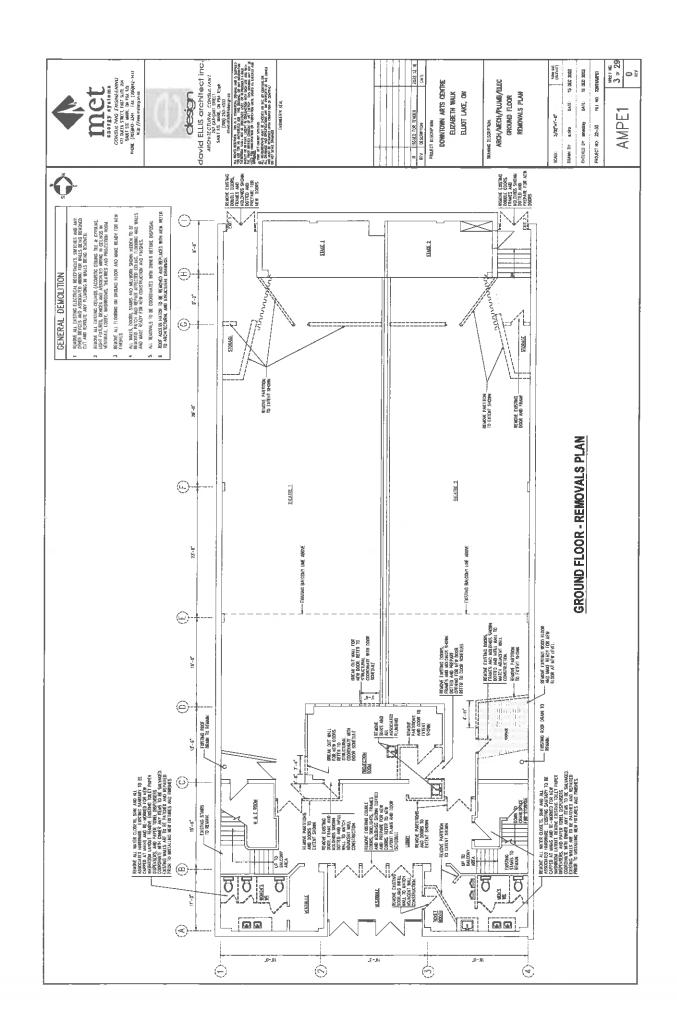
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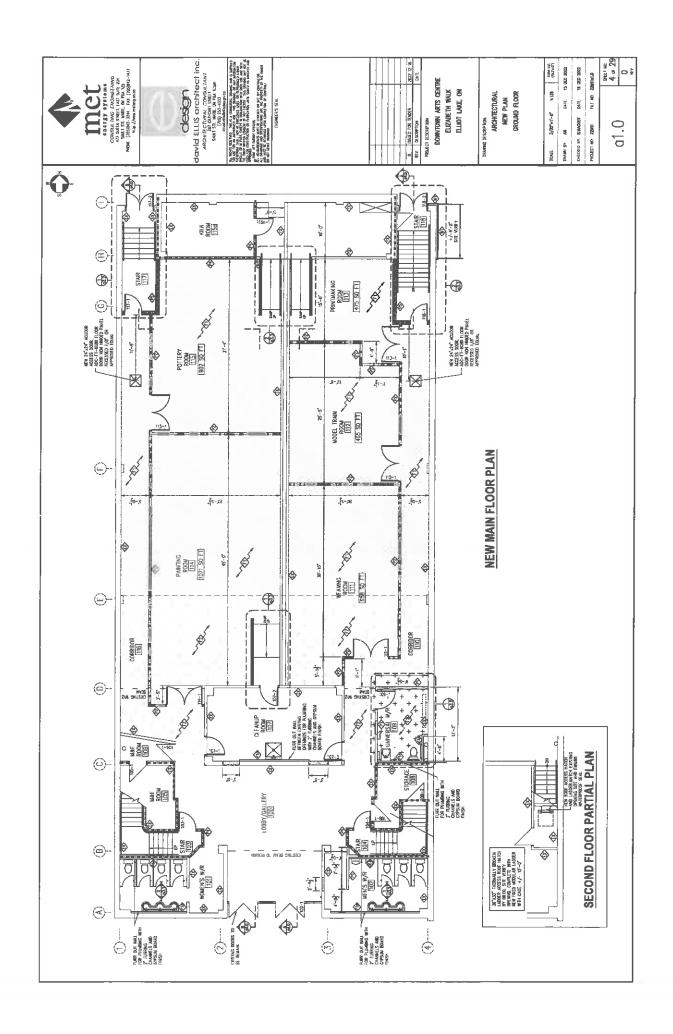
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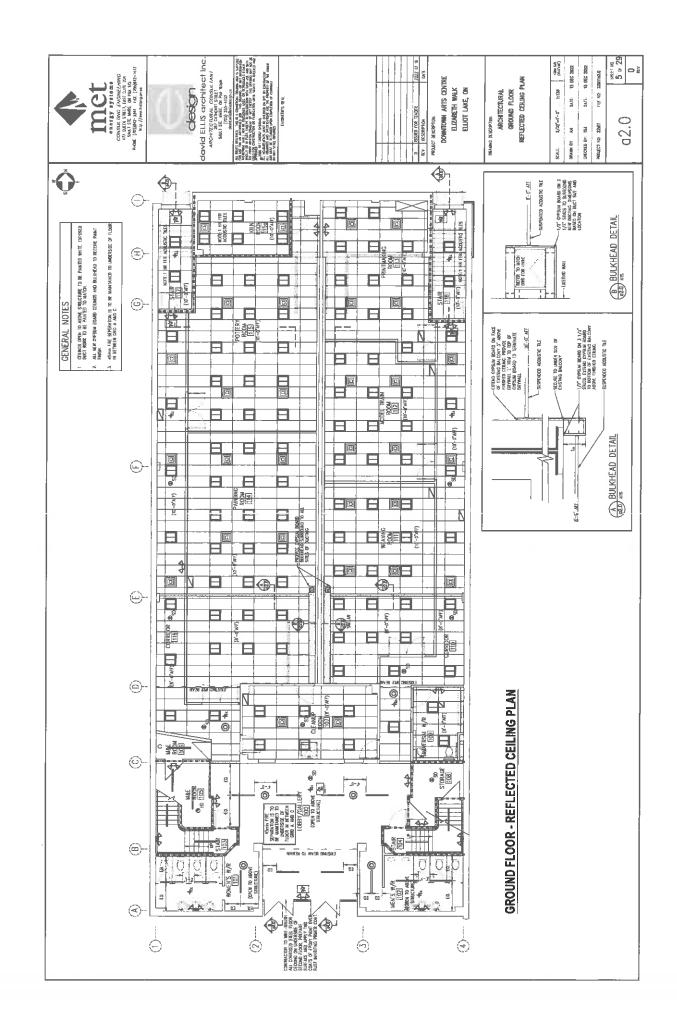
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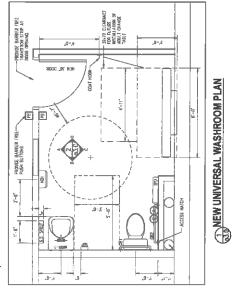












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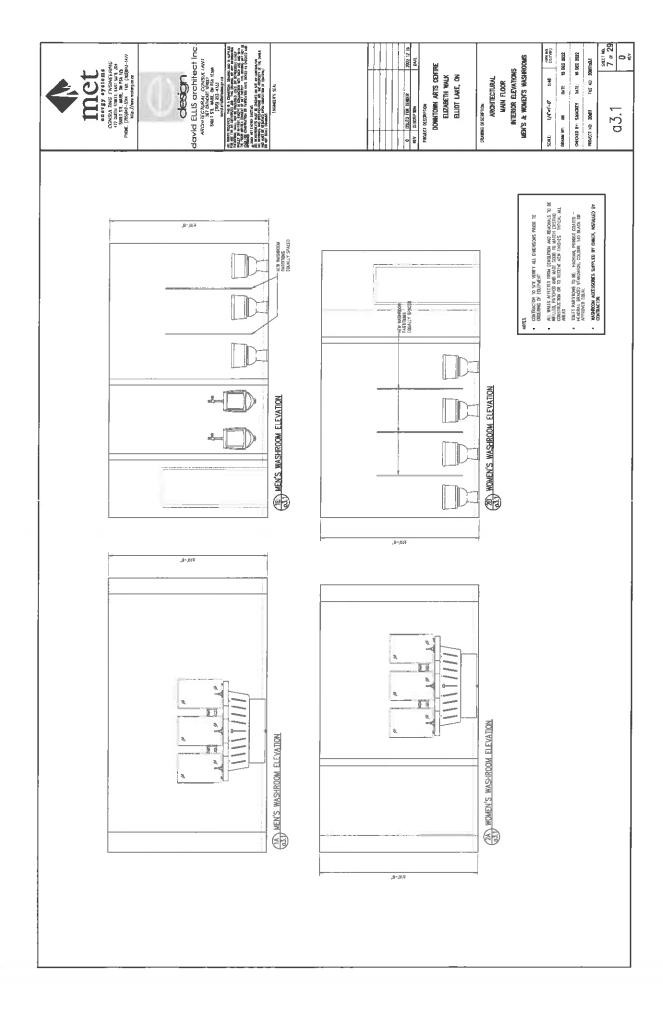
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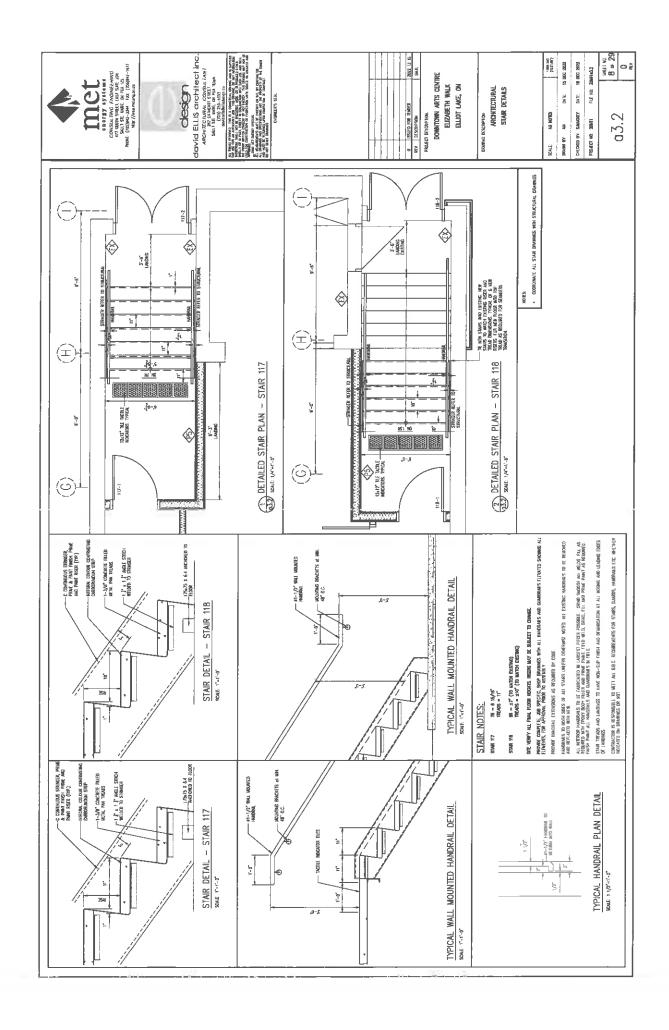
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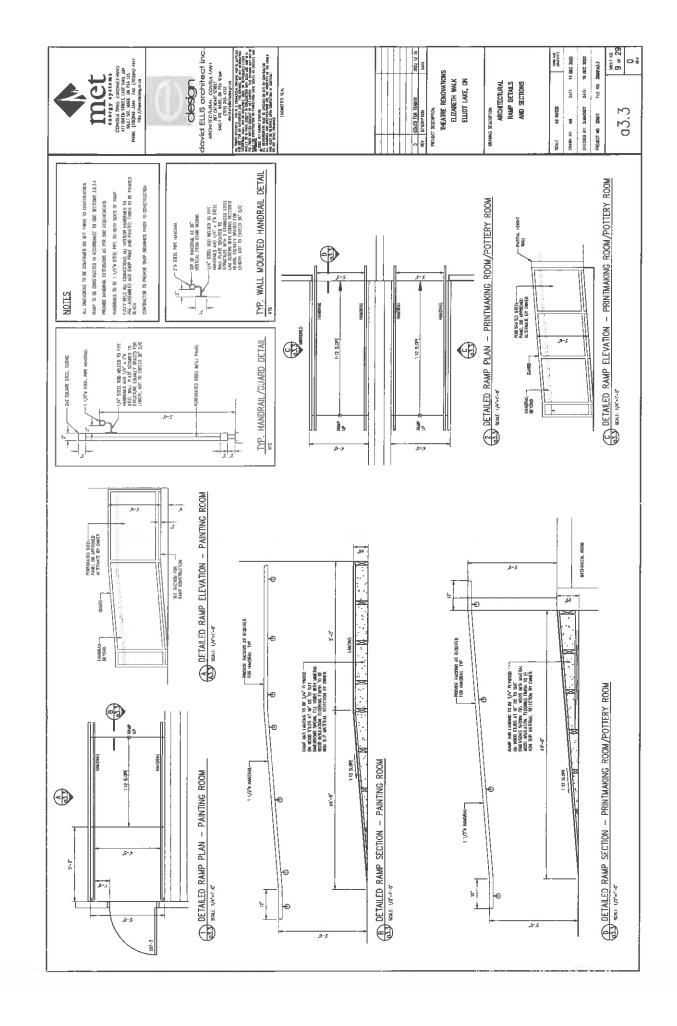
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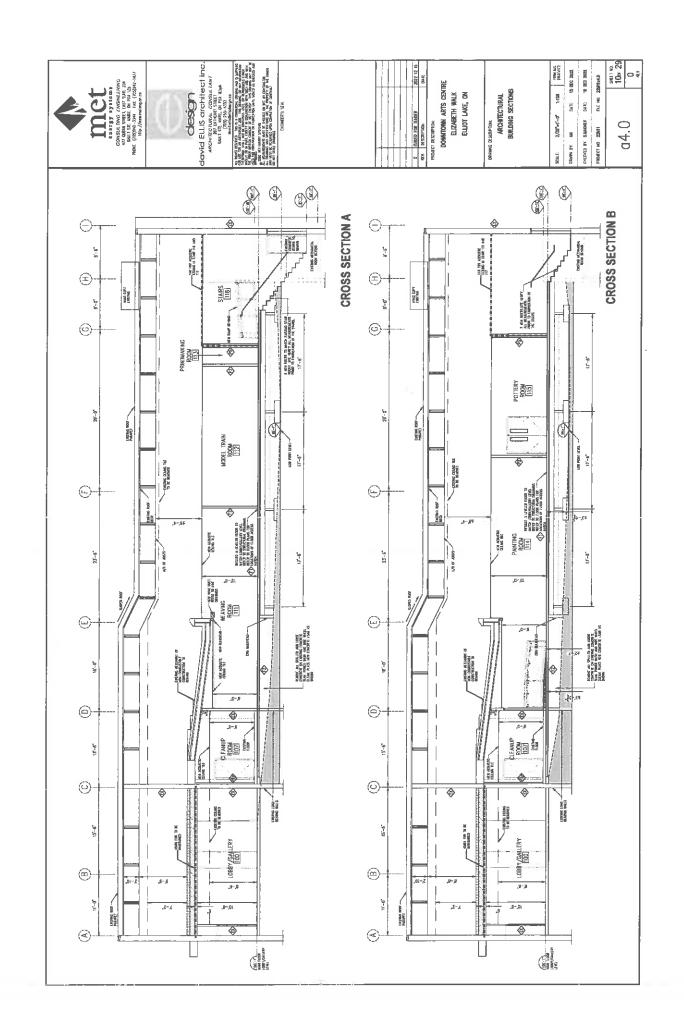
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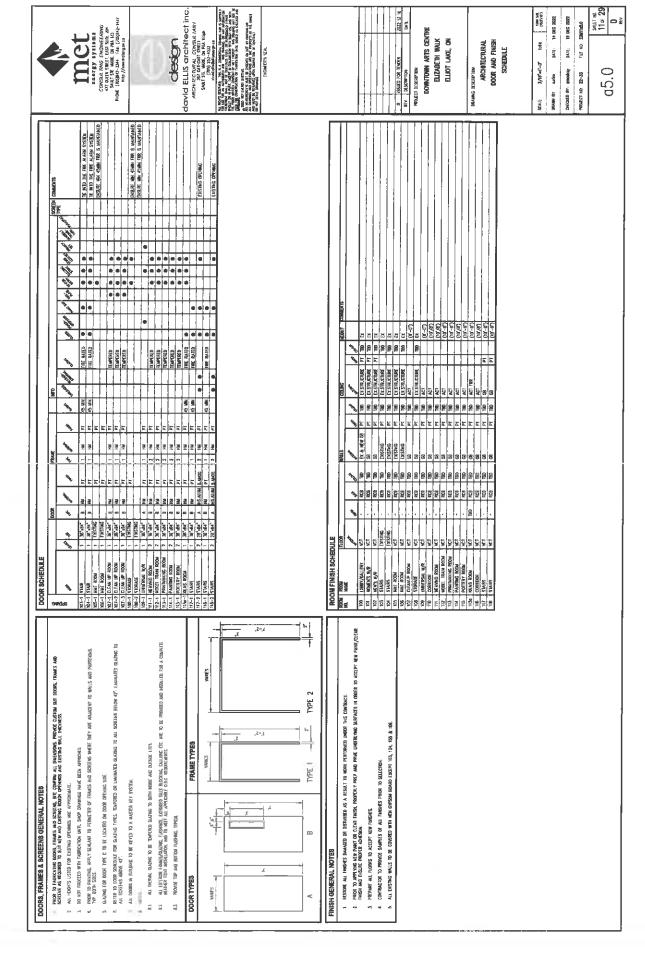
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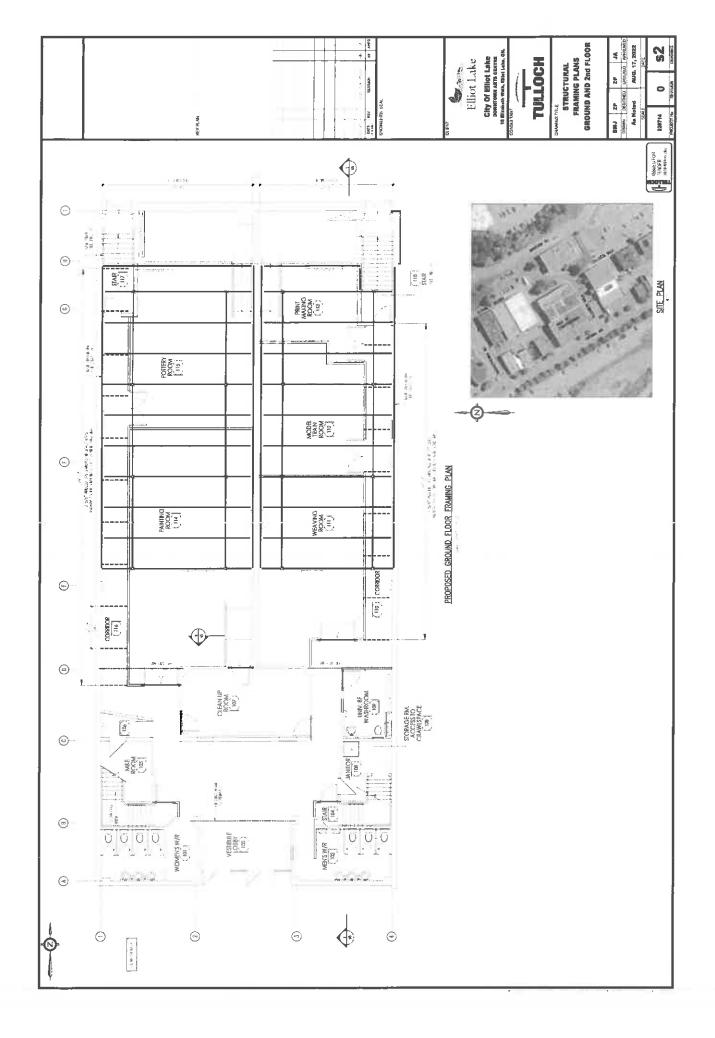


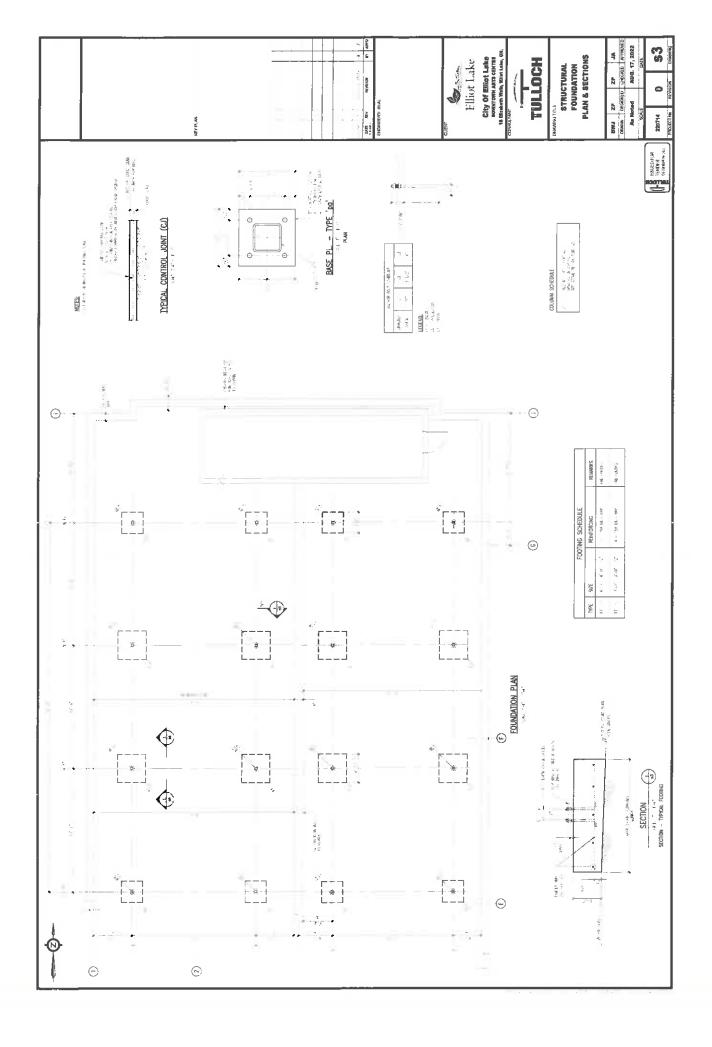


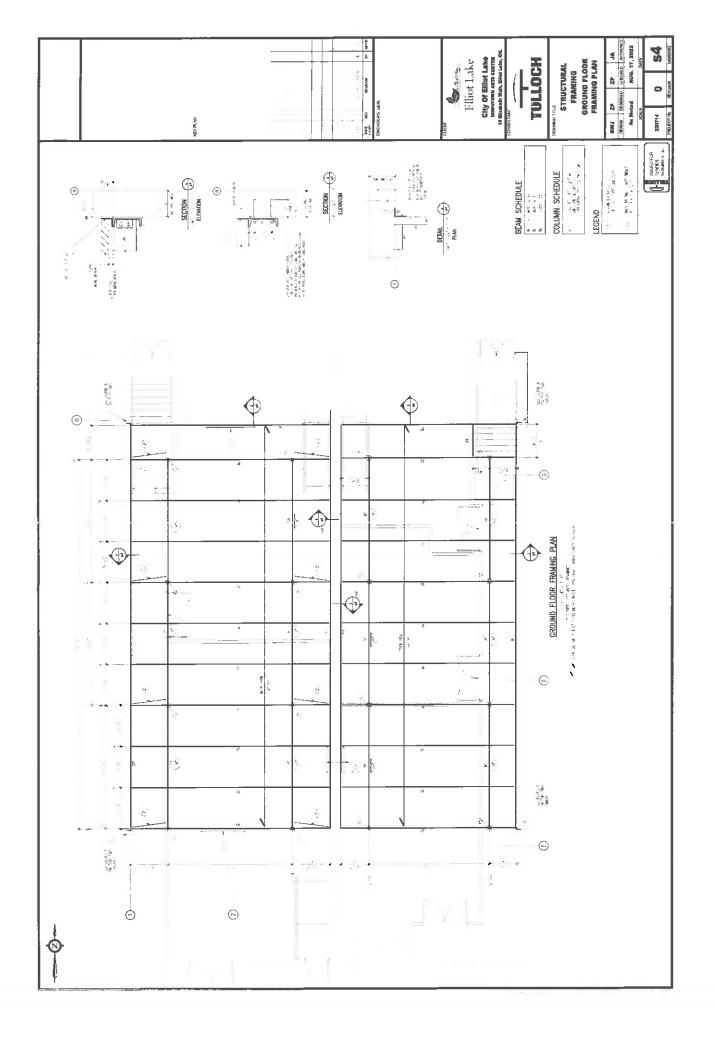


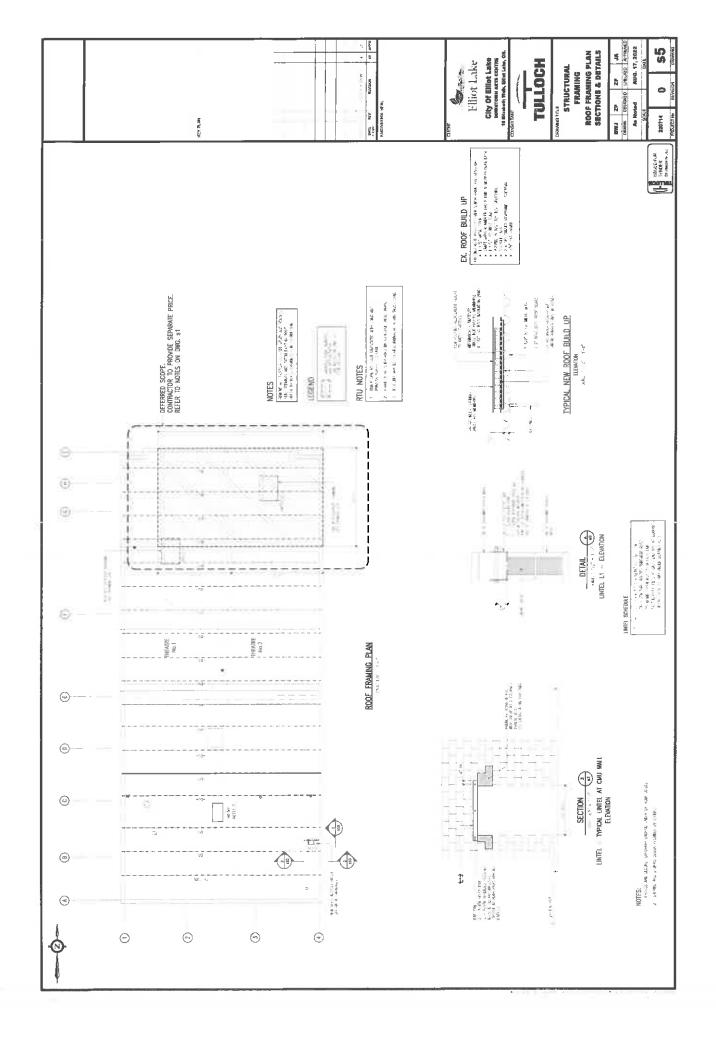


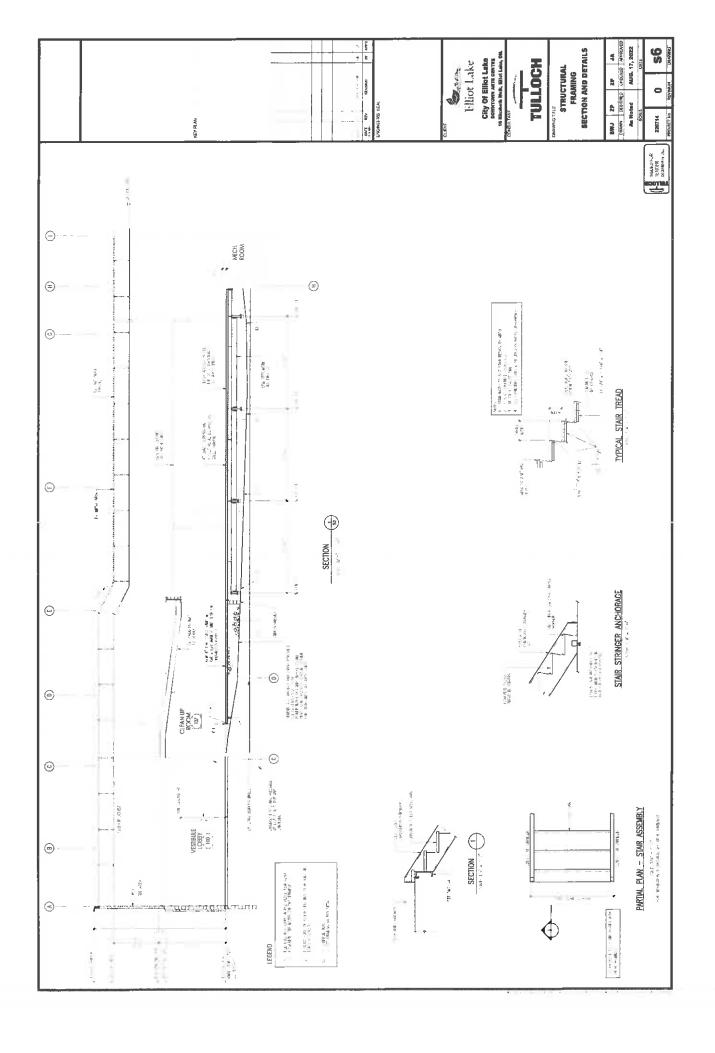
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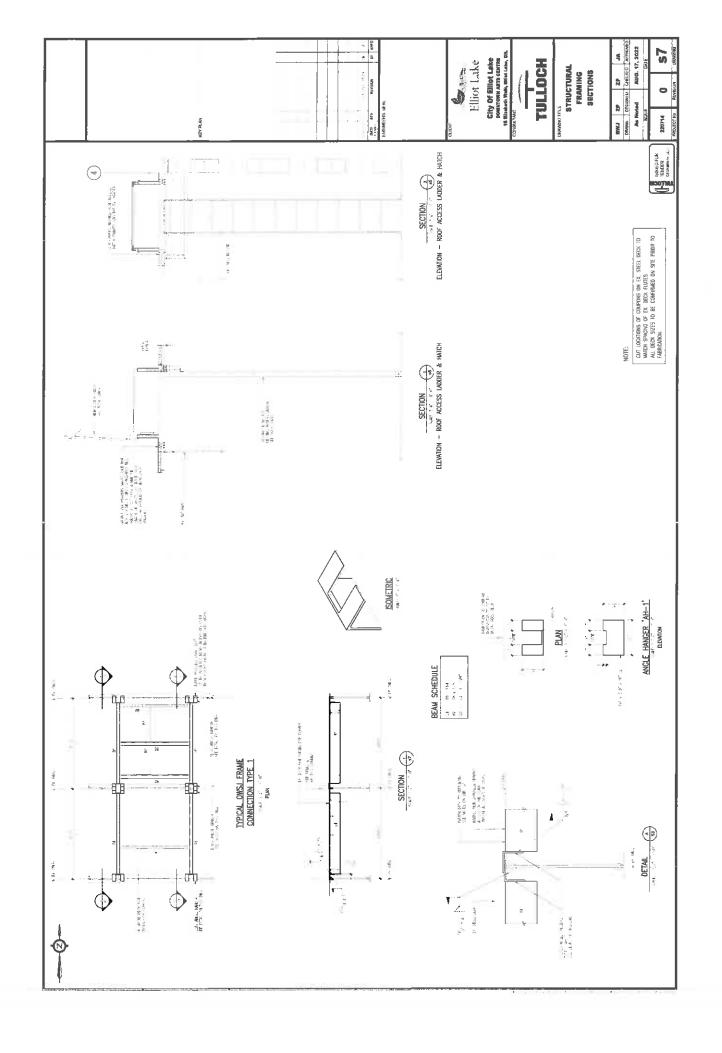


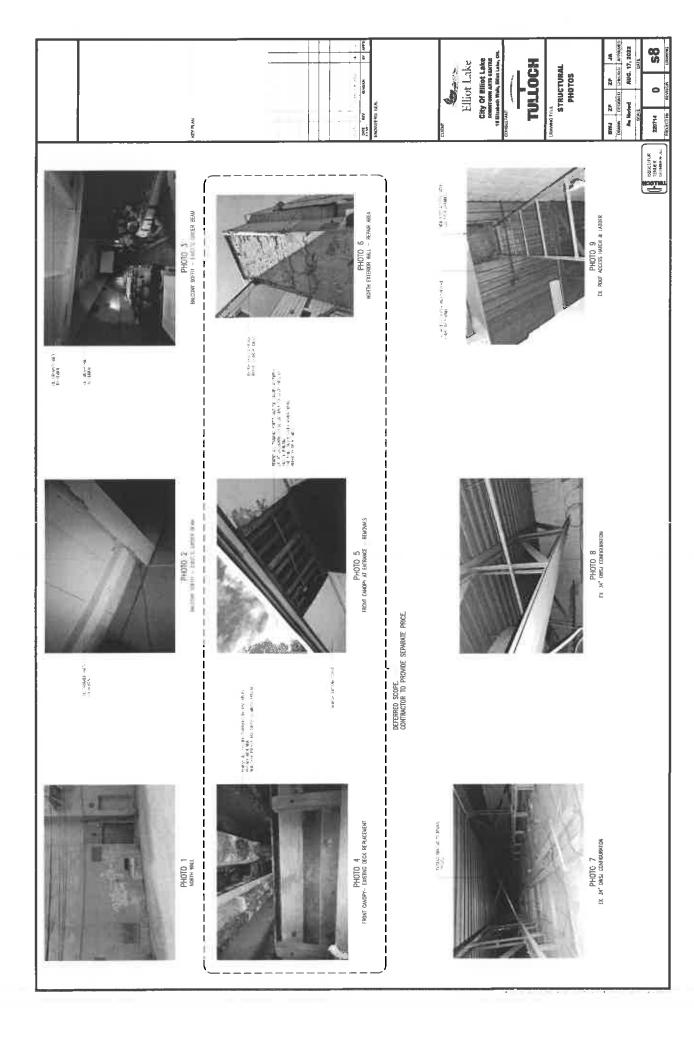












- GENERAL MECHANICAL NOTES

  GENERAL MECHANICAL NOTES

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  - OGRANI PODALIS AND RAY AT, FEES FOR WIGHT AND REQUIRED RECITIONS. WANTING HEBSTY BASIRMEL TO PROTECT OTHERS AND THE COMPUNCTOR FROM ANY AND ALL CLANKS UNDER THE RECKER'S COMPUNE FOR ANY AND ALL CLANKS AND THE COMPUNCTOR FROM ANY AND ALL CLANKS UNDER THE
- WE DORMINGS SHALT BE COMBONIED DAGNAMANT ONLY ALL MEASURENFINS SHALL BE TAKIN FROM BAILINGS TAIL AND ARROWING.
  ALL EXPINE SERVICES, AND THE WORLD ALL MISTOR ORGANIC DOSTRUCTURE HAS CONTRACTOR TO PROPRET ALL EXPRESSED HAS A TO CARRY OIL HE ARROW HES CONTRACTOR TO PROPRET ALL THE PROFESSY LESS, TIES, SO AS TO CARRY OIL HE ARROW.
- REPORKEY LUSAT, POMES AND WATER OF GEARAL CONTINUED THE RESPONSBUTT OF THE SIG-CHARACTOR AND ALL CONTINUED BY EXPLANCE TO THE SIG-CHARACTOR AND PRESENCE TO THE SIGNAL TO DE YEAR WERE. PROPOSED THE SIGNAL SIGNAL STORES AND THE RESPONSENCE FOR ANY TICS OF DAMAST THE RETO
  - Sobal Samels of by Rail Breu Broadd and Riche Charles of Bartham Corps. Prop. Proc. - ULUSS OFFERSE DUTZ, ALL MOTIOS, SE PRADO NORTH SHALL EN 115/1/20 MATINISE GIFTS. SE PEUL EE DF 3 PANSES.

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    - TO MAI DISSMARAR WETAL (STEEL-COPPER, ETC.) SHALL BE SCPARATED USANG GARGETS OR ENPOCO TA-ELECTROF FITHINGS
      - 19. WSTALL CHROIG-PLATED ESCUTCHEONS WARRE BRANCH PRES PACS THROUGH PRISHED SLIBFACE.
- 28. KEPP ACLIDATE RECORD OF "AG-BUIL" DRAWWAGS AND SUBAIT THESE BETORE THAN CERTIFICATE DE COMMITTION. BARBD SPORTES METEL DE DESENDANCE. 21. ALL SUPPLIES BUILD BE LEFF CALLA AND SWOOTH, MEADY FOR PARTING DIT CORPIEDA THANS

  - 22. DENITY ALL PITMG, USE STENDES OR COLDUR CODES AND DIRECTIONAL ARROWS
- 23. DENIEY ALL FAMS, STAFTERS, RENDT, CONFIDENCE, MD. ALL OTHER FORPHENT AS TO SERVES BY A BLACK LAMAGOD ENDANCED MARRIEDAE: MINI WRITE CONF., TRIATY AFFIESD WITH SEDIENG OR RIVETS.
- 29. ON CAMPLTON OF THE WORG, ETHING FROW THE PREMISES ALL THOUS, DEBBIS SLIKE LAR AND WASTE LATBOALS. HERBITHON FROM DEPARTIES BROCK THIS SEE BOAL OLEW ALL EQUIPMENT AND LEASE ALL TIENS BE PREFECT DRIVEN READY FOR DEPARTMENT.
- APTRA ACTEPTANCE, INSTRUCT COMMED NE EXUPACRIT DETRATOR AND PROVOCE FILI WITH OBJERATION AND MAINTERANCE ON WARMANE STRUMONS AND EXTENNED TRANSMATT DOCUMENTS, IMPREDION CASTRICATES AND COPIES OF SIARD DRAWINGS OF STRUMENTS.
  - THE CONTROLLED RESTORMENT STREET PRAY, AND WASHER IS MILE, DARWING SALE METHERS, MAD REMAYERS TO BY THE WEST OF TH ALL WECHONICAL RECO'TOP UNIT EQUADABILIT TO BE PROMICED WITH DISCONRECTS SUPPLIED BY DIV. 15 AAD HISTALED BY [BY:16]

- SUPPLY AND WESTAL DICTROMY AS BRICATED ON DAMPING DECTROMY SPALL OF TABRICATED AND MICKALIE IN STRUCT ACCORDANGATION THATEST ASSMELTS. STANDARDS AND SPALL OF WANTACTURED OF OULWARD STRIFT DIRECTS SPECIFICALLY WITTED PARTIES. HEATING, VENTILATION, & AIR—CONDITIONING SPINA MINISTRA AND METRIL MA KENILATION AND ARE MANERAE EXPENDED AS SHOWN ON REPRESENT
- CONTRACTOR RESPONSELE FOR ALL REQURED DUCT TRANSHOWS AT VAN BONES, VAT BODES, COMMETTIONS AT EQUIPMENT AND ALL OFFER RECURSED TRANSHOWS TO ALLEMATE WITERFRENCES.
  - MICHODE FOR START-UP OF ALL EQUIPMENT.
- INSTALL DI LABOLED FOR DAJAPENS WITSE SACON AND WITSE REQUIRED. THESE SAULL OF INSTALLED IN ACCORDANCE, WITH UL APPROPLE UNITHOUS FOR DALASES VAIORS FOR DALASES.
- MISTALL MARINA, BALANCHIC DAMPERS AT ALL BRANCH TAKEOFFS.
- FLEIGHE THETWORK SHALL BE ALLARAGA HELICALLY WOUND SPIRAL DUCT, MATHEM S.
- INSTALL OF APPROXED PLENDED COANCETON ON DUCT CONNECTIONS TO RESULENTLY MOUNTED FANS
- 15 DF SUPPLY AND 15 DF RETURN DUCTHORN STABING AT UNIT CONVECION SHALL BE LINED WITERALLY WITH 1" PACED FLORERS DUCT 1989. SHOWN SHO 10. DONTRACTOR TO VERFY ALL OUD! SIZES DN STÎ? & YERFY ALL SITE COMMINNS PRIOR TO BIDDINIO.
  - 15. ALL YORK SHALL BE EXPOSITED IN A WORKWAR LICE MANNER BY LICENSED TRADFSMAN
- 12 DO-CRIMMATE MISTALLATION WITH OTHER TRADES
- 13. ALL HOLES & PATCHARG BY DIVISION 15.
- manarie ali outsise are ductirement with windran 2" thetran disculation. Pridate vaniaria 2" theraam obsulation On emaaust are ductadore for unaamu 10" from datsor mall. IG. ALL SUPPLY DUCTHORN IN KIDN RETURN AR IZEING SPACE TO BE TAKKAMAY INSULATED. LINESS NOTED OFFERINGS

# DIVISION 15

PLUMBING & DRAINAGE INSIDE THE BUILDING

ALL PLUMBARD TO COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE

ALL WORK SHALL BE EVERUTED BY LICEMSED PLUMBERS

- MALI INSTAUT ALI PONIC, ATTINUS AND FOUNDATIVI SIGNON DI DRAWINNIS DE DESCRIBOTO DE SPECIFICATIONE ALI INSTAUDI HATORIEDO BUIT DABRIGASTOCO (O DE NECESSARY DI COMPLETE THE FLAMBAND SYSTEM SEMALI DE VALUERO
- WARE ALL MECESSARY COMPECTIONS TO ENGINE SERVICES.
- al above chousin sawitary drawlast peing shall be inc (pex system 15) de tree baied inc (pex system and) de casi india as mistalation permits
- ABONE COROLNO WATER PRONC SHALL BE THRE "I" COMPER C/W LEAD FREE SCILLED LOWER.
- ALL ANDE GROUND YEAT PROME SHALL BE DINY COPPER, PVC PLASTIC OF FIRE RATED LIFE AS MISTALIATION PROMITS.
  - WHEN UP TO 2" SHALL BE FULL THROAT BROAZE BALL WAYES
- SCIPPLY AND INSTALL ALL PLUNGHID FIXTURES, CLEANDUTS, IDRUHS, ETC. AS SHICKI DA DRAWAKIS. Lesto da scaedale
- CFANOUS SHALL DE MISTALED AS REQUIRED BY DODE JAMD WERE SIGNAN AND SHALL SLIT FLOORING WARFING.
- AL GOMESTIC CRUI AND NOT WARR PPING SHALL DE WISACATED HYN I'T FICK FUNDELASS PINE. HESTELNION WITH EAST, LINCOTORING MASSES STORMED RAUMES SHALL DE MISLARTD DA A SHALMA MANAKEN LA ERSTELNION ANSAFERMEN WITH CAMPAS OF PLUE, ALDICETING.
- SIPPLY AND INSTALL WHELL HANDLE OB SOZEN TOTURES SYDY HAND, THE MOT AND DOLD MATER SUBJECT TO EMPIRY DRIVER. ON HE JUS, IN ADDITION TO THE WALNE ON FAMILY TO WHE FINALINE TISSUE. SUPPLY AND INSTALL ALL FIRE EXTRICARSHERS AS REQUIRED BY CODE. FIRE EXTRICALSHERS SHALL BE MOINTED IN RECESSED CARBIETS EXTRICAL TO WE MODEL TORN HERE SHOWN ON DRAWINGS.
  - PROTECT ALL FOURIES LIVIT MANDED OVER TO THE DIMLER, ALL FIXTRES SHALL C/M MEDISSAMY Their, Tigat Suffres, Trad 1984, STOPS, Tall Pecces, Tigads, CASOCTS, CNID DRAMS, ETC.
- A TEST ALL MATTE, STIDEL, AND SANELURY (BRANKE PHYRIC), HACODOLANCE WITH LOCAL COOKS, AND TO THE SATISFACTION OF THE CHARGER AND LOCAL AUTHORITIES HAWAR AUROSICKION PROMIES LODA. AUTHORITY RETIS CREDICALE: 15. THE MANE AND COLOUTY OF ALL MATERIAL SHALL WETP PROPERTIES. RECOMPEDIAL REQUIREMENTS, METE AND FREE PROPERTIES. AND SHALL BE SUBJECT TO APPROVAL BY ENDARCH AND MITHORITIES HANNED AUTOCOLOUR.
- CONTRACTOR TO PROMBE PIPE SEERES FOR ALL PIPMG THAT PASSES THROUGH SOURCE TELEDOK DR. PROMED CONCRETE WAITS AND FLOORS.
  - II. PROMIET VENTING BISER DRAMME FOR APPROVAL BY LOCAL AUTHORNIES, ENTANDER AND AS PER-PURINGHIE COOK.
    - CONTRACTOR TO PROVINF FREE ORBATS, ABOUND ALL PIPES THAT PENETRATE THE SEPARATIONS. PROMINE HILL SYSTEM OR APPROVID ENUMERAL.

# ELECTRICAL SPECIFICATIONS

# PROMIE FACH THEN WENTINGED OF INTELLED UP CALALITY AND SUBJECT TO QUALFFACIONS MITTED, PROPRIED TO COMMITTING THE BASH PERSONALE, AND PROVINCE THE FEET FOR ALL LEADING, LANDRING, WOODSTATING, WOODSTATING, WOODSTATING, WOODSTALL, AND SERVICES BEQUINGED TO COMPLETE HE MISTALLATING.

- Distance for the treatment and the Confedent for - BEFORE SLACTING ANY WORK, SIRBAT THE RECOMBED MARKER OF COPIES OF THE ILECTRICAL DRAWMAN The Popies Anthenity And Local Electropa Drawcocind Department, For them Appropriated And Domarker
  - PAY ALI PERS FOR FRAMMANDA OF DRAWING AND OBTARK ALI PERMITS RECURBED AND PAY ALI PERMIT AND INVESTIONE FERS AND PAY FRAM MAINTRAKE SPALE IE NEW AND FREE FIRST DEFECTS, NOSS. AND WERKINGK. . COM ANNADO DF CONTRACT. SUBBATT FOR DENETW A LIST OF DELIVERY DATES AND SAUDP DRAWNADS ALI EQUIPMENT DATES AND SAUDP DRAWNADS
- 9. AMBANDE FOR RESPECTION OF ALL WIDER BY POWER ALLWOOMY AND WESTERION RESPONDED TO COLMETTER OF THE WIDER, PRESENT TO THE DIMERT THE THAN UNICONSTITUNIE OF APPORTAL.
  10. SCHEDLE AND EXCORDANT ALL WIDER WITH DIMER THANS.
  - 1. THE DAMER SHALL HANE TEMPORARY USE OF INSTALLATION PRIOR TO FINAL ACCEPTANCE.
- 72 ALI CAMUS FOR EVITAAS SUALI, DE SUPPORTÍO DE WOTTEN AUTHORIZAMINN AND ITENTRO BARTONI. And Ladour Cost Dibradones, their Suali de No dynka Camul for Reliciontion of An Equipality Within 10 feft food 196 (1960) and Location.
- 3.3. ALI ELGINGA, FOLDPIENT LIGIATIO, AND COMPUTED BY THIS CHARLACTIO, INSTITUTE SUPPLIED BY HE OR HOJ, SAUL BE EXVINED WITH DMIOTAPE. ALL CHOLITS SAULI BE DEVINED ON THYMOTION WITH DIRECTOR V. PARKES.

## ELECTRICAL SPECIFICATIONS CONT. DIVISION 16

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  - COMBLIES TO BET PRIZE WEIGHT, RAIN EMBERGED IN JAKSONEY BUT OTHERWAZE MAY BET LEIT, COMBNINGES, STON DE SAY, LINESS ON DERENS, STON DE SAY, LINESS ON DERENS, STON DE SAY, LINESS ON STAN DE SAY, LINESS ON ST
- ED LEWING FORBIGES SKALL BE SUPPORTED FROM STRUCTURAL MEMPERS, DO NOT RELY ON EXTUNC FOR SUPPORT. ALL LED FIXTURES SHALL BE 3,500K LARESS NOTED ONESTIMEZ.
- 46. Defectos for LEB farthers same receivement and crowley with UL valo CLASS 7. Ferchanterins to the November Lebellings. A REPER SOLON CHARGE 15 OF LEE LUISES OF OTHER SOLON CHARGE CLASS A SCHOOL PRIVILE. TO THE RESENOYAL MORNAMIC INSTITUTION 1.5 of LESS CURRENT CHEST FACTOR. ALL FIRTHERS SHALL CARRY A.S. YEAR MANIE ACTINETES BARBOATY.
  - 19, EXPLOSIVE PASIZHERS SHALL MOT BE USED MITHOUT PINGH WRITTEN APPROVAL FIDM THE BUILDING DRINGS OF LANDLORD
    - 20, ALL STARTERS AND CONTROLS SHALL BE SUPPLIED BY BEDNAMEN. TRADES FOR BECHANICAL EQUIPMENT.
- 21. ORDVIE ALI "POREE MEBAE" AND ECHNECIDIDES TO ALI MECHANIZIA. EDRIPMENT "POREE WEINE EL CORRESSOR DE ALI LINE VILLAZIE MEBAL DARBONI DELLA LIAD DARBONI DELLA DELLA DELLA DELLA REGO. ALI CRAINEZI, WEINE SALL ES DOSE EN MECHANIZA, TOUCES. 22. SAPRY ALL LIGHTING FIXTURES, LAMPS AND BALLASTS, UNLESS OTHERWISE MOTED.
  - 25. DESTROBUTION DIABBAM IS SCHEUATIC DALY, LAYDOT EQUIPMENT TO SUIT AVAILABLE SPACE. 28. ALL MARRIAG SHALL BE STORED PEASITY AND OUT OF THE WAY CLEAN UP DAME, ALL O CAUSED BY WORK, AT COMPLETION OF PROJECT, DIESAN ALL PEXTURES AND PERMINENT.
- 25 CHECK AND VERY INCOMING SERVICE FOR VIOLAGE AND CLIRRENT CAPACITY AVAILABLE. IF DEFENDENT FICKNING. SERVICE SERVICES STATISTIFF.
- 28. THE FOLLOWING DOCUMENTS SAMLL BE SAGINTIED TO THE CONSILTANT ON COMPLETION OF THE PROJECT: DIECTRICAL INSPECTION CERTIFICATE.
  AC-BILLT DRAININGS.
  GUARMITE.
  FIEL AAMO TESTING AND VERFICATION CERTIFICATE.
  STOP BEAMONS & MANTEMANT. MAMANAS.
- 27 ALL EQUIPMENT AND IMPERIOR SHALL BE UND LABBLED.
- 26. ALL COMUNT PRAFTRATIONS IMPOUGH THE BATTO COLNIC, RUDGE AND WALLS SHALL IN SIZALED AS PRA INCO 2007-21
- 29. ALL ELECTRICAL TO BE INSTALLED IN EMIT UMLESS OTHERWISE MOTED.
- 30. POWER AND DATA RECEPTACES MOUNTED RESIDE EACH DRESE MAST SAME SAME FASTRATE. 34. ALL RECEPTACES MAD SAFONS SHALL BE LABBLED WITH PARIE, AND DROAT MANAGER.
- 32. CABLE TRAY TO BE INSTALLED TO ANOID DUCTS, REAMS, AND DIVER DESTRUCTIONS, MICLIDEAL TRANSPICIOS AND CARGAUST TO INSTALL ALL SERVICES. ALCONTRACTOR TO PROVIDE SPARE USA BREAKERS TO FILL ALL EMPTY SLOTS OF AER PAGELS.
- 34. ALL DOMARNICATIONS, DATA, SECUNITY, TELEPHONE, AND OTHER LOW VIXTARE WINNE INSTALLED INFO CICING SPACE SMALL BE FT-8 RATED AS FIRM MEG. 300-22.

- 56. CONTRACTOR 10 INCLUDE FOR 15 ACOMPONAL DEDICATED ISAMP POBER CIRCUITS, CONFIDENCE STALL MICHOLOGY FOR COMMECTION AND FACEPLATE.







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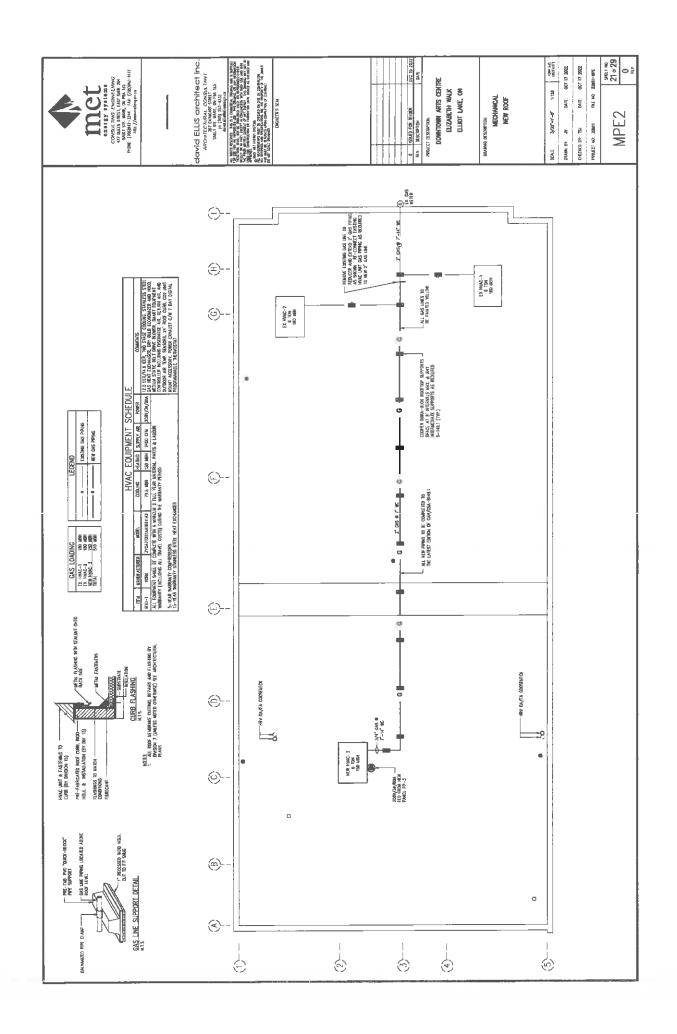
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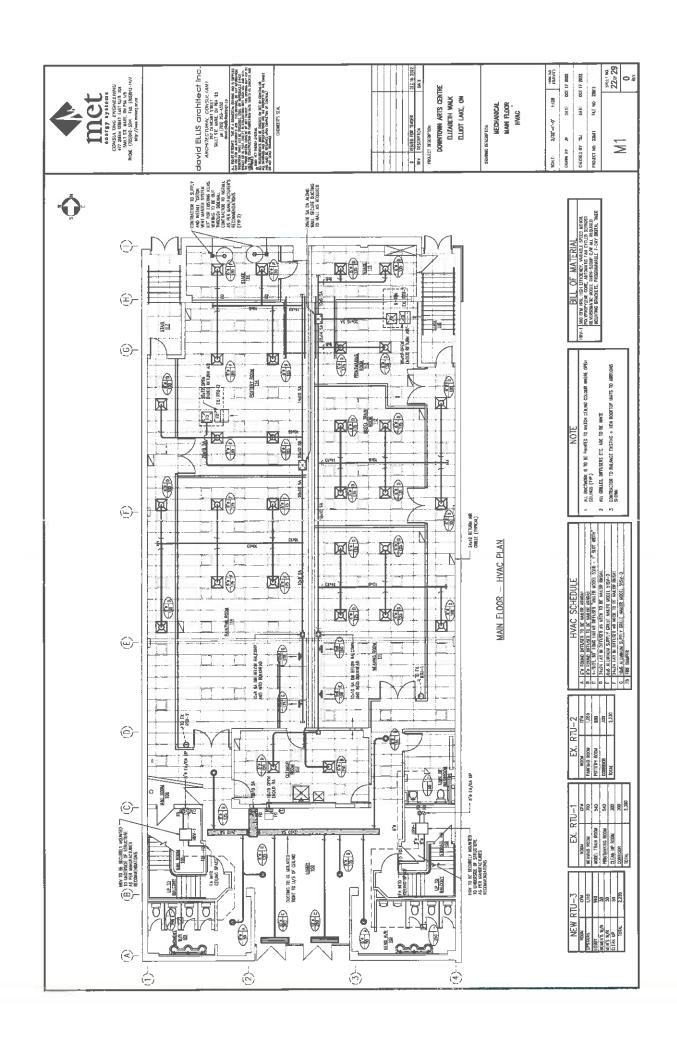
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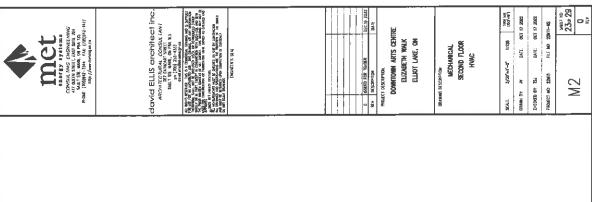
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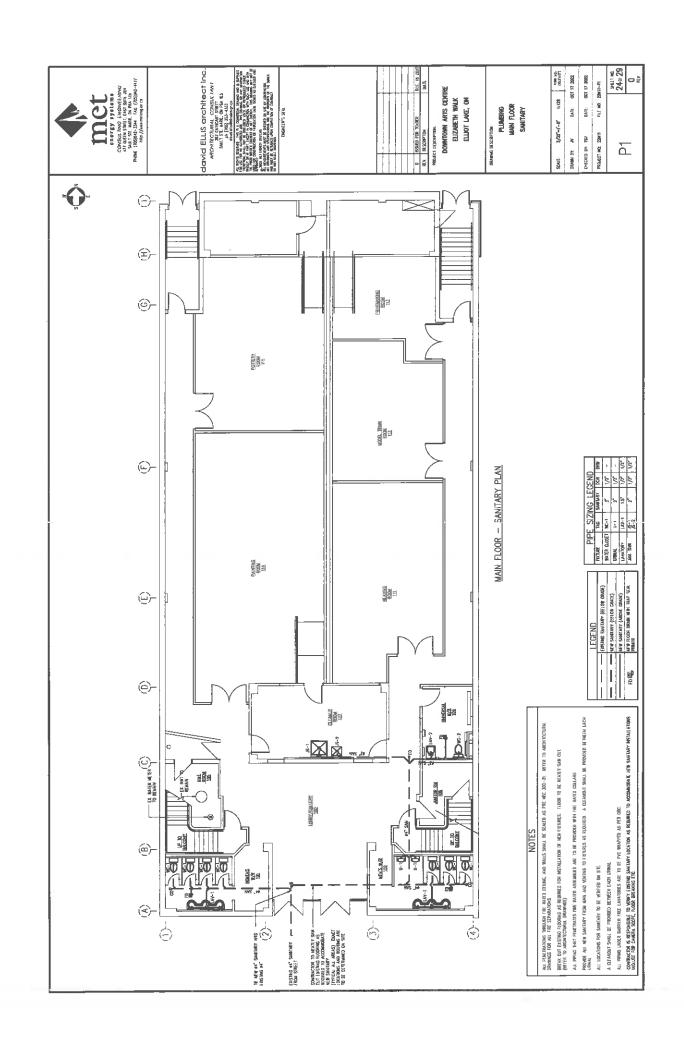
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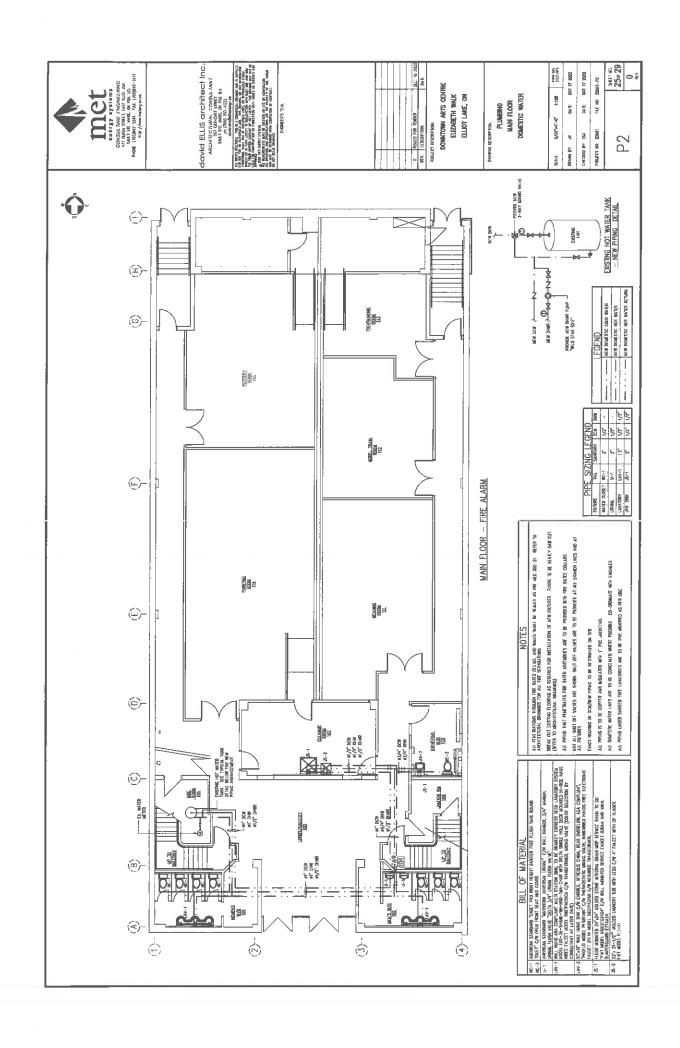
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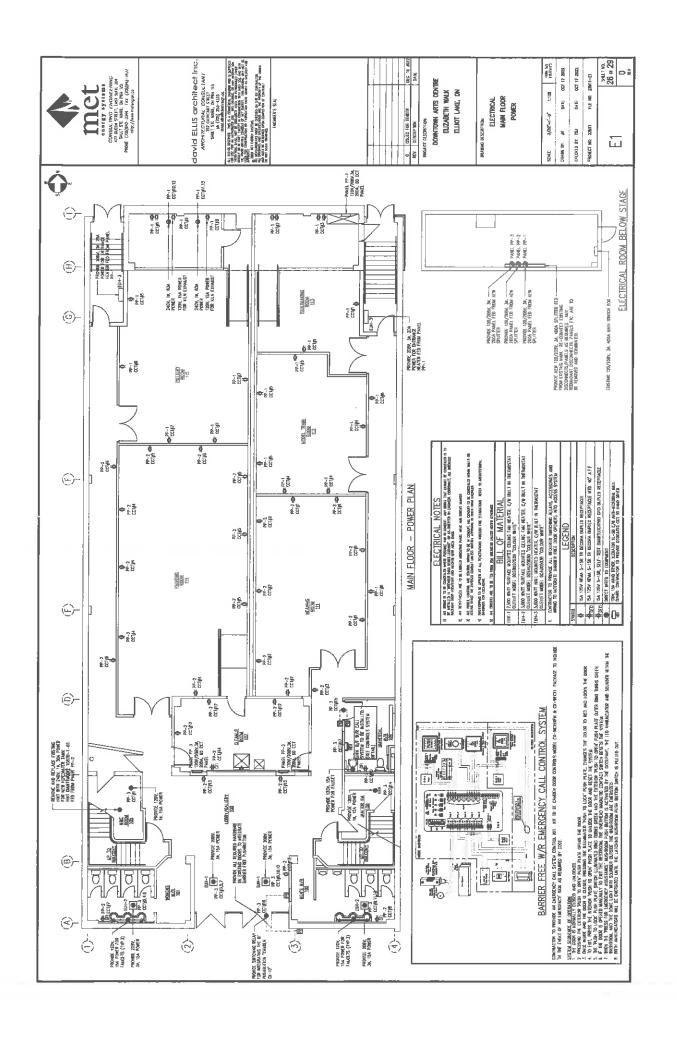
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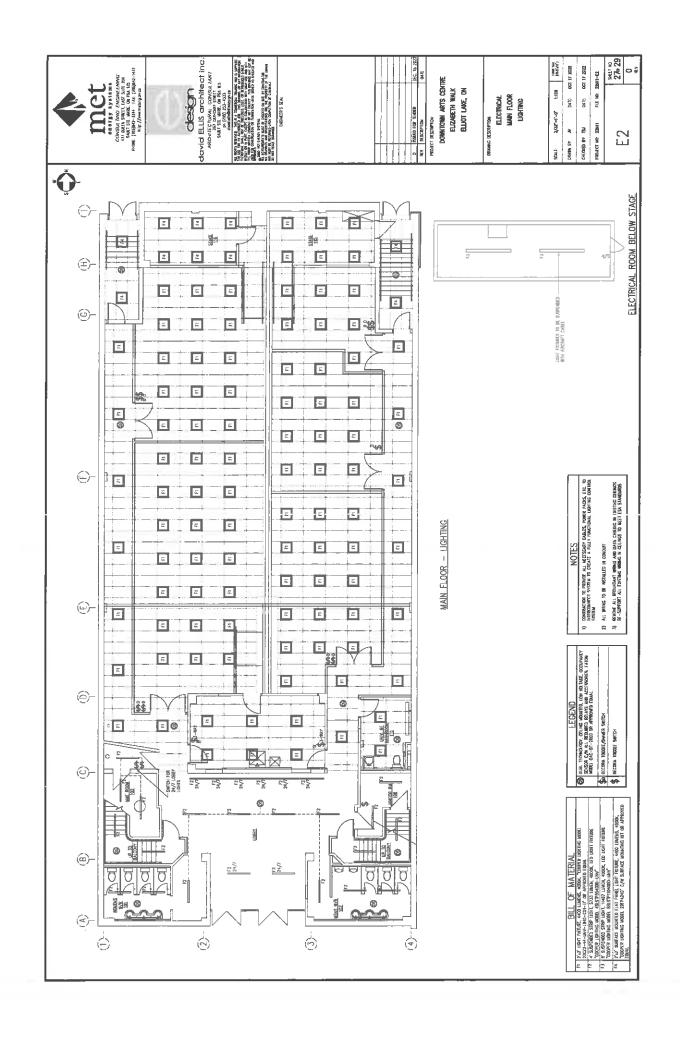
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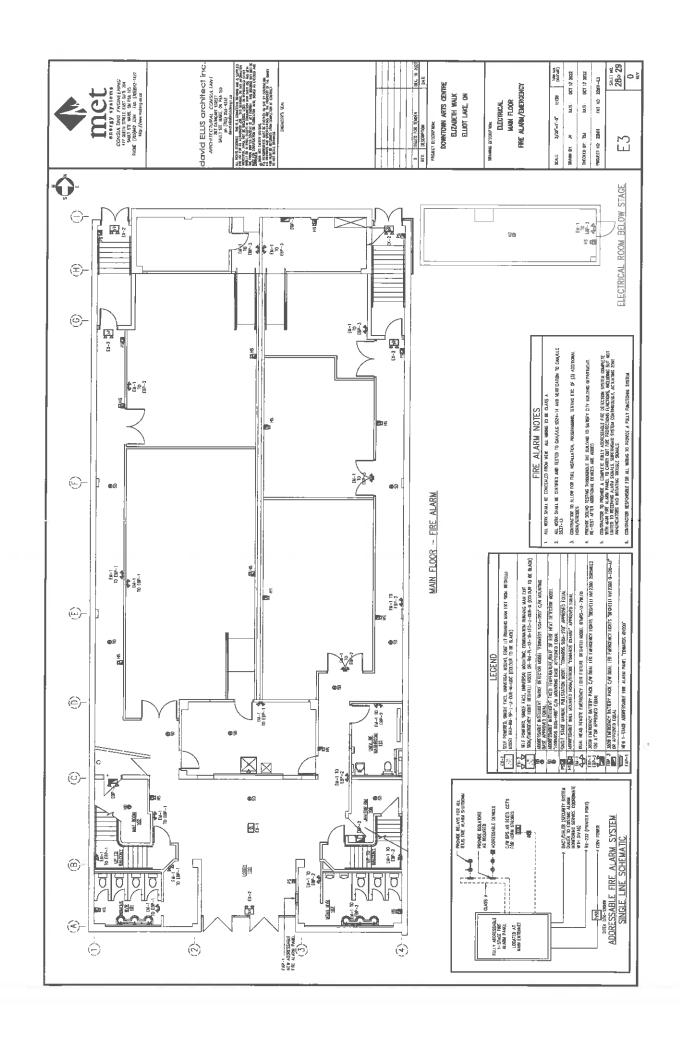
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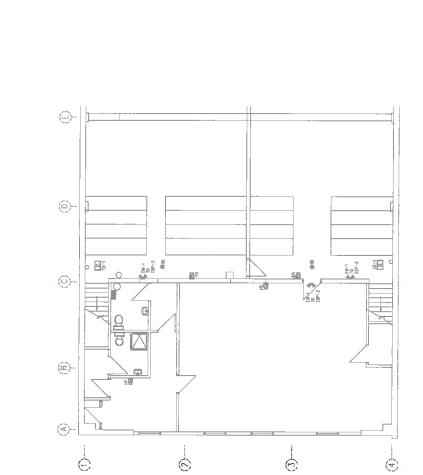












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CHCKED BY: TGJ

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DENIMA DESCRIPTION
ELECTRICAL
SECOND FLOOR
FIRE ALARM/ENGENCY

PROLICI DESCRIPCIONE
DOWNTOWN ARTS CENTRE
ELIZABETH WALK
ELLOT LAKE, ON

D ISSUED FOR KNIER REV DESCRIPTION

david ELLIS architect inc.
AROHREDINAL CONSULTANT
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MET ENERGY SYSTEMS
Consulting Engineering
477 Queen Street East, Suite 304
Sault Ste. Marie, ON P6A 1Z5
Tel: (705) 942-3344
Fax: (705) 942-1477
www.meteng.on.ca

### **TECHNICAL SPECIFICATIONS**

#### **Downtown Arts Centre**



FOR:

### CITY OF ELLIOT LAKE

Elizabeth Walk Elliot Lake, ON

This Invitation to Bid Closes before 3:00:00 p.m. January 4th, 2023 unless otherwise stated in an Addendum.

#### 22M11 Downtown Arts Centre

#### **TABLE OF CONTENTS**

Elizabeth Walk Elliott Lake, ON

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	Title Page	
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01510	Temporary Facilities and Utilities	5
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16010	General Electrical Requirements	7
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Appendix A – Supplementary Conditions to CCDC

**End of Section** 

Elizabeth Walk Elliot Lake, ON.

1	Tender	Instructions
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- 1.1 Sealed Tenders made on the enclosed (attached) Tender Form together with all other documents required by the Tender Documents shall be filed on or before the official closing date and time.
- 1.2 The Tender Form and required documents shall be submitted to the office of:

MET Energy Systems 477 Queen St. East-Suite 304 Sault Ste. Marie, Ontario P6A 1Z5

- 1.3 Sealed Tenders will be received no later than 3:00:00 p.m. Wednesday January 4th, 2023
- 1.4 No Tender will be received or accepted after the specified closing date and time.
- 1.5 Emailed tenders will be accepted in lieu of hand delivered. Emailed tenders shall be submitted to Tim Janzen (tsjanzen@meteng.on.ca) John Veltri (jveltri@meteng.on.ca). and Bill Goulding (bgoulding@city.elliotlake.on.ca) It is the Contractor's responsibility to ensure emailed bids were received prior to closing. Hand-delivered tenders shall be in a plain envelope, clearly marked as noted below. Faxed tenders will not be accepted.

Tender for:

**Downtown Arts Centre** 

Elizabeth Walk Elliot Lake, ON

Project No.

MET No. 22M11

1.6 Amendments to delivered bid amounts will be accepted until bid close by fax or email in the form of a clearly indicated **add** or **deduct** amount.

Emails are to be sent to;

Tim Janzen (tsjanzen@ meteng.on.ca)

and

John Veltri (<u>iveltri@meteng.on.ca</u>)

And

Bill Goulding (<u>bgoulding@city.elliotlake.on.ca</u>)

Contractor is responsible to verify emails were received prior to closing.

- 1.7 Tenders which are incomplete, conditional, illegible or obscure, or that contain additions not called for, reservations, alterations and/or irregularities of any kind, may be rejected as informal. Owner reserves the right to waive informalities at its discretion.
- 1.8 A Contract will not necessarily be issued as a result of this Tender or lowest price may not be necessarily be accepted.
- 1.9 Fill in blank spaces on the Tender Form completely. State Tender Price in writing and figures.

- 1.10 No allowances will subsequently be made for failure to make proper site investigations, or to completely understand the full nature of the work involved.
- 1.11 Each Tender must bear the signature of a legal signing authority. In the case of a corporation tendering, the Tender shall also bear the corporate seal of such corporation, in a manner to bind the corporation.
- 1.12 Any Tender offered on other forms or with alterations, additions or erasures may be rejected as informal.
- 1.13 Tender form shall be clear and complete. Such omissions may disregard tender.
- 1.14 Time shall be of the essence and the Contractor acknowledges this with the Tender submission.

#### 2 State of Emergency

- 2.1 The within Tender is subject to the provisions of *Ontario Regulation 119/20* made under the *Emergency Management and Civil Protection Act*, R.S.O. 1990. c.E.9 as amended (Order under Sub-section 7.0.2(4) Closure of Places of Non-Essential Businesses).
- 2.2 The within Tender cannot be awarded until the repeal of Ontario Regulation 119/20 made under the Emergency Management and Civil Protection Act, R.S.O. 1990, c.E.9, or any regulation which supersedes or replaces Ontario Regulation 119/20. The Owner retains in its absolute and unfettered discretion the right to:
  - (a) refuse to award the Tender to any Bidder;
  - (b) withdraw the Tender at any time without providing any reason whatsoever;
  - (c) Re-Tender the project;
  - (d) disregard and not accept any Tender.
  - (e) award the Tender on a conditional basis that work may commence upon the repeal of the aforesaid Regulation.
- 2.3 The Bidder, by submitting a Bid pursuant to this Tender, agrees that the Owner maintains the complete and unfettered discretion to deal with any Tender on the above basis and herein releases the Owner from any and all claims that it may have as a consequence of or arising from this Tender howsoever arising.
- 2.4 Refer to Supplementary General Conditions sections GC 6.5.3 and GC 7 for additional information on impact to Contract.
- 3 Sales Tax
- 3.1 The bid price shall include all applicable Taxes and Duties.
- 4 Permits
- 4.1 The Contractor shall include all applicable permits, fees, etc. required by Municipal, City or Provincial Departments covering the work.

Page 3

5	Bid	<b>Bond/Agreement to</b>	<b>Bond</b>
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No Bonding is required for Contract.

#### 6 As-Built Drawings

- 6.1 Provide as-built drawings clearly marked with all changes and dimensions clearly shown.
- 6.2 Record drawings will be kept confidential and shall remain the property of the Consultant and or his sub-consultants, including all copyrights applying thereto.
- 6.3 No use shall be made of the files for any purpose other than the one stated above.

#### 7 Site Examination

7.1 Contractors submitting Tenders shall examine and ascertain all conditions of the site and premises pertinent to the work of this Contract. The Owner does not guarantee site information indicated in the Tender Documents. The Contractor must evaluate such information relative to actual conditions. To proceed with the work shall mean acceptance of the site conditions and failure to comply with the clause shall in no way be the basis of any claims.

#### 8 Pre-Tender Meeting

There will be a <u>non-mandatory</u> site visit Thursday, December 22nd at 12 pm. Contractors are encouraged to visit the site as required. Additional site visits can be arranged after this meeting.

#### 9 Scope of Work

9.1 Contractor shall supply all materials, labour, equipment and all necessary items to complete the entire project listed.

#### 10 Discrepancies

10.1 Should a bidder find discrepancies in or omissions from the Tender Documents or other Contract Documents, or should be in doubt as to their meaning they should, at once, notify Consultant who may send written instructions to all bidders.

Inquiries shall be made to MET Energy Systems, please contact:

Tim Janzen

tsjanzen@meteng.on.ca

John Veltri

iveltri@meteng.on.ca

10.2 Verbal answers are only binding when confirmed by written Addenda.

#### 11 Qualifications

11.1 Firms or persons submitting tenders shall be actually engaged in the line of work required by the proposed Contract Documents and shall be able to refer to work of similar nature completed by them.

- 11.2 It is the bidder's responsibility to closely review the qualifications to confirm they meet and can readily demonstrate their ability to meet or exceed the listed qualifications. Any questions or concerns with the qualifications or evaluation process must be identified to the Consultant ten (10) days prior to the tender close.
- The Owner has identified a number of Contractor Qualifications that will be used in the Tender Evaluation process to determine the best value for the Owner's project. Bidders are not required to submit qualifications with their tender submissions but may be requested to submit this information as supplemental to inform the evaluation process, The Owner reserves the right to request additional information as required to evaluate the Contractor against these qualifications. The Owner identified qualifications are as noted below:
- 11.3.1 **Previous Construction Experience**: The Contractor must be able to demonstrate successful completion of at least three (3) previous construction projects of similar size, budget and/or construction type. At least one of the projects must be a renovation or addition to an occupied facility. *If requested*, submit to the Consultant the relevant project experience for review. For each project include: Project title, year completed, project budget, brief project description, Client and Consultants Contact information
- 11.3.2 **Superintendents Experience:** The Contractor must be able to demonstrate that the proposed Superintendent has at least ten (10) years' experience in the Construction Industry, has relevant experience as the full time Superintendent on similar Construction projects, specifically managing renovation construction projects. *If requested*, submit to the Consultant the Superintendents Resume inclusive of education, past project experience and at least two (2) references that can speak to the Superintendents previous project experience and character.
- 11.3.3 **Contractor References:** The Contractor must be able to provide References (a mix of Client and Consultant) that can validate the Contractors previous project experience and provide an opinion on the Contractors quality of work, ability to coordinate with trades, ability to maintain a project schedule, fairness in addressing changes and unforeseen conditions that arise during construction. *If requested*, submit to the Consultant at least three (3) References complete with Reference Name, Company, Title, Phone Number, Email Address and Project Title for which they are providing a reference on.
- 11.3.4 **Safety:** The Owner would like to ensure that the successful Contractor understands and their responsibility for health and safety for this project, has comprehensive internal health and safety policies, and is engaging an experienced individual to act as the Health and Safety Coordinator. *If requested*, submit to the Consultant the Contractors Health and Safety Manual and the Resume for the proposed Health and Safety Coordinator.
- 11.4 Subcontractors
- 11.4.1 The Owner reserves right to reject a proposed subcontractor for reasonable cause.
- 11.4.2 Refer to CCDC2 2008, Article GC 3.7 of General Conditions.
- 11.4.3 The Owner may request any proposed subcontractor to provide satisfactory evidence that they have the ability, experience, capital and plant to enable them to execute their portion of the work of the contract.

11.4.4	Nothing contained in the Contract Documents shall be interpreted as the Owner having an contractual obligations or relationships to a subcontractor.
12	Cash Allowances
12.1	Refer also to the Canadian Construction Documents Committee (CCDC), CCDC 2 Stipulated price contract 2008 GC 4.1 Cash Allowances
12.2	The Contract Price includes Cash Allowances, if any, stated in the Contract Documents.
12.3	Contract Price, and not the Cash Allowance(s), includes Contractor's overhead, profit, and other associated costs, in connection with such Cash Allowance
12.4	Allowances shall include Harmonized Sales Tax (HST)
12.5	Where costs exceed the Cash Allowances, the Contractor will be compensated for the excess costs plus overhead and profit as per the terms of the Contract Documents.
12.6	Any unexpended portions of Cash Allowances will revert back to the Owner as a credit.
13	Contingency Allowances
13.1	Refer also to the Canadian Construction Documents Committee (CCDC), CCDC 2 Stipulated price contract 2008 GC 4.2 Contingency Allowance.
13.2	The Contract Price includes the contingency allowance, if any, stated in the Contract Documents.
13.3	The contingency allowance includes the Contractor's overhead and profit in connection with such contingency allowance.
13.4	Expenditures under the contingency allowance shall be authorized and valued as provided in GC 6.1 - Owners right to make changes, GC 6.2 - Change Order and GC 6.3 - Change Directive.
13.5	The Contract Price shall be adjusted by Change Order to provide any difference between the expenditures authorized under paragraph 4.2.3 and the contingency allowance.
14	Addenda
14.1	Any addenda to the Tender Documents issued during the period of tendering shall be considered part of the Tender Documents and any items mentioned therein are to be included in the Contract.
14.2	Include in the Tender any addenda issued during the bidding period. Such addenda will form part of the Contract.
15	Contract Schedule
15.1	The Bidder shall declare on tender bid form the amount of time required to complete <b>all</b> <i>Work</i> as described in the tender documents. This shall be expressed in a number of Calendar Weeks.

Page 6

- 15.2 This declared completion time may be used by the Owner for the purpose of evaluating "best overall value". For the purpose of tender evaluations "best overall value" can be measured by contemplating the lowest overall price against the best overall declared completion time.
- 15.3 The successful bidder will be required to prepare an initial schedule in form of a horizontal chart and submit within 7 days after award of work Contract.

#### 16 Alternative Proposals

- The Owner will consider alternative proposals from a Tenderer, provided that it has submitted a Tender on the basis requested herein, and further provided that the alternative proposals are submitted in a separate letter without qualification to the basic Tender. Where a product or equivalent is specified, it will be assumed that the Tenderers' bid is based on the product specified unless otherwise noted in the Tender.
- Application for substitution of material or method after the Tender date will be considered only if made in writing by the Contractor. Such application shall state the credit or extra involved and be accompanied by detailed specification data and other pertinent data of the desired substitute.

#### 17 Alternate Price

17.1 A price for a particular article or item of work. The difference in cost shall include overhead, applicable taxes and profit, and is to be either added to or deducted from the Tender Price, if accepted by the Client Corporation or the Project Manager.

#### 18 Itemized Price

A price for a particular article or item of work, set out in the Tender Form. The itemized price is included in the Tender Price and shall include overhead, applicable taxes and profit. The itemized prices are submitted for information purposes only.

#### 19 Offer Acceptance/Rejection

- 19.1 Duration of Offer Acceptance/Rejection
- 19.1.1 Tenders shall remain open to acceptance and irrevocable for a period of **sixty (60)** days after the Tender closing date. If withdrawn the respective Tenderer shall forfeit his Security Deposit. No telephone calls, facsimiles or telegrams will be considered.
- 19.2 Acceptance of Offer
- 19.2.1 The Owner reserves the right to accept or reject any or all offers
- 19.2.2 The Owner reserves the power and right to reject tenders received from parties who cannot show a reasonable acquaintance of the class of work herein specified and shown on the drawings.
- 19.2.2.1 Evidence of such competency must be furnished by tenderer when requested.

- In the receipt of tenders for the work, no obligation is incurred by the Owner to accept the lowest or any proposal provided by a tenderer. The Owner reserves the right to refuse any or all tenders for any sub-division of the work or to decline to proceed with all the work if the Owner so determines.
- 19.2.4 After acceptance by Owner, the Consultant will issue a letter (Letter of Intent) to the successful Tenderer, relating the Owners acceptance of the Tender. This Letter of Intent will form the start date of the Contract.
- 19.2.5 The Owner reserves the right to request any other additional information they may require to evaluate the submission. Failure to provide the information requested in a timely manner may result in the tender being disqualified.
- 19.2.6 Upon acceptance, the successful Tenderer shall provide, within ten (10) business days the following documentation.
  - Bonding Certificates (if applicable)
  - Workplace Safety and Insurance Board Certificate
  - Certificate of Insurance
  - Project Schedule
  - · Copies of applicable permits
  - Contractor's Health and Safety Policy
  - Other(s) as may be reasonably requested
- 19.3 Tender Securities
- 19.3.1 Only after Tender has been accepted by the Owner, the Consultant will notify the unsuccessful Tenders that their Tender Securities will be available for pick-up.

**End of Section** 

22M11 **TENDER FORM** 00300

Downtown Arts Centre Elizabeth Walk

Elliott Lake, ON Page 1

To:

MET Energy Systems 477 Queen Street East, Suite 304

Sault Ste. Marie, ON

(See Section 00100 - Instruction to Bidders - Article 1.12 for instructions for submitting tenders)

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Alternate Price #2 – Removal of Front Canopy Lip	
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22M11 Downtown Arts Centre Elizabeth Walk Elliott Lake, ON

Flooring

## **TENDER FORM**

Page 2

I/We understand that the price(s) submitted in the bid is/are based upon the acceptance of the bid within forty-five (45) days of the bid closing date. In cases where the expiry date of the acceptance period falls on a Saturday, Sunday, or holiday, the time for acceptance shall be extended to the first following business day.

COMPLETION DATE			
	I/We estimate that the earliest that the Contract could be completed is Weeks from commencement of the Work.		
Startin	g Date:	Ending Date:	
	I/We also submit the names of our proposed Sub-Contractors from whom sub-bids were received, and upon which my/our Bid is based. I/We also submit the sub-bid prices for the trades listed.		
	TRADE	COMPANY	SUB BID PRICE
1	Mechanical		
2	Electrical		
3	Plumbing		
4	Drywaii		
5	Painting		

22M11
Downtown Arts Centre
Elizabeth Walk

## **TENDER FORM**

00300

Elliott Lake, ON		Page 3
SIGNATURES AND SEAL		
Contractor's Name and Address		
Seal:	Authorized Signatures:	
	Name:	
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**End of Section** 

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1	Definitions
1.1	Owner – means the Owner or the Owner's authorized agent or representative as designated to the Contractor in writing, but does not include the consultant.
1.2	<b>Consultant</b> – means the Engineer, or entity licensed to practice in the territory of the Place of Work. The term Consultant means the Consultant or the Consultant's authorized representative.
1.3	Work - means the whole of the Works including all labor, materials, products, and services required to be supplied, installed and/or erected by the Contractor under the Contract.
1.4	<b>Material</b> - means all commodities, articles, and other things required to be furnished under the Contract.
1.5	Materials & Supplies - means tools, implements, machinery, vehicles, equipment, commodities and all other articles necessary to perform the Work.
1.6	<b>Contract</b> - means, but shall not necessarily be limited to, the complete Tender Documents including: Instructions to Bidders, General Conditions, Scope of Work, Service Standards, Tender Form and Tender Attachments (as may be required).
2	Assignment of Contract
2.1	Owner has the right to refuse any Contractor or Sub-Contractor.
2.2	Work shall be performed under one Contract utilizing the Canadian Construction Document CCDC 2, 2008 - Stipulated Price Contract. The contract shall govern the performance of each section of the specifications.
2.2	These General Requirements generally specify work and co-ordination that is the responsibility of the General Contractor but are not intended to define the responsibilities between the Contractor and Sub-Contractors. Ensure that Sub-Contractors fully understand the Contract
2.3	Notwithstanding paragraph 2.1, no assignment or sub Contract shall relieve the Contractor from any obligation under the Contract or impose any liability upon Owner to an assignee or sub Contractor
2.4	Subject to the preceding provisions of this section, the Contract shall ensure to the benefit of and shall be binding upon the successors and assigns of Owner and the Contractor.
3	Interpretation of Contract
3.1	Owner/Consultant shall be the interpreter of the Contract and of the obligations of the Contractor thereunder.
4	Conflict of Interest
4.1	The Contractor declares that the Contractor has no pecuniary interest in the business of any third party that would cause a conflict of interest or seem to cause a conflict of interest in carrying out the Work. Should such an interest be acquired during the life of the Contract, the Contractor shall declare it in writing immediately to the Consultant.
4.2	The Contractor shall provide competent supervision of its Workers, which Workers will be

Downtown Arts Centre Elizabeth Walk Eliott Lake, ON

Page 2

skilled in the tasks assigned to them. This supervisor will be accessible to Consultant and will receive any order or communication relating to the Work on behalf of the Contractor.

Supervisors and Workers not satisfactory to Owner/Consultant shall be removed from the Work and replaced forthwith.

- 4.3 Any Person involved in the Work will be required to meet the Client Corporation's security clearance criteria.
- 4.4 It is the responsibility of the Contractor in formulating the bid to ascertain the labor conditions existing at the Place of Work with particular reference to union non-union labor and comply with these conditions. The cost of doing so shall be included in the Tender price.
- The Contractor will cooperate fully with other Contractors or Workers sent to the site of Work.

## 5 Protection and Housekeeping

- The Contractor shall guard and otherwise protect from damage, the Work, the property of the Owner and property adjacent to the site. The Contractor shall make good all damage resulting from the Contractor's operations or negligence under the Contract at its own expense.
- 5.2 The Contractor shall repair within seventy-two (72) hours any damage caused by the Contractor.
- 5.3 The Contractor will daily, upon completion of the day's Work, clear and clean the Work and its site to the satisfaction of, and in accordance with, any decision of the Facility/Project Manager.

#### 6 Site Conditions

- 6.1 <u>Before any planning or installation of Piping, Ductwork, Electrical, All related</u>
  divisions shall meet and co-ordinate with General Contractor to determine spacing
  and routing of all Piping, Ductwork, Conduits, Wiring etc.
- 6.2 Dedicated on-site parking shall be indicated to the Contractor by the Owner.
- 6.3 Materials pertinent to immediate future use shall be stored on site only. No interference of facility operation will be permitted. Dedicated area will be indicated to contractor by owner prior to commencement of work.
- 6.4 Contractor is solely responsible for all construction aids, hoisting equipment, and all items necessary to complete entire scope of work.
- 6.5 Construction may take place during normal working hours. If construction poses a disturbance "or" safety issue to standard facility operation, work shall take place after normal working hours at no additional expenses.

#### 7 Debris

7.1 During construction, the trades shall remove from the project site debris caused by their work immediately. No corridors shall be blocked and there shall be no interference with any production at any time. All debris removed shall be at the Contractors expense. No On-Site

Downtown Arts Centre Elizabeth Walk Elliott Lake, ON

Page 3

refuse bins shall be used unless approval received in writing by owner.

- 7.2 The Contractor shall enforce the requirements of this Specification, regulatory authorities and specific requests, which the Prime Consultant may issue.
- Pulk containers which the Contractor may provide for assembly of debris shall: be placed in a convenient area not obstructing the Owner's operations, be covered or otherwise protected, be emptied when full but at a time not obstructing the Owner's use of the grounds. Coordinate efforts to remove debris with the Owner.

## 8 Notice

8.1 Provide any notices indicated via mail, fax and e-mail.

## 9 Records to be kept by the Contractor

9.1 The Contractor shall keep proper accounts and records of the cost of the Work and all expenditures or commitments made by the Contractor including invoices, receipts and vouchers, which shall with two (2) days written notice be open to audit and inspection by Owner or Consultant.

## 10 Occupational Health and Safety Act

- 10.1 The Contractor shall provide a qualified staff person on site at all times who is knowledgeable in the obligations of the Act and will ensure that the requirements of the Act are fully complied with.
- 10.2 It is specifically drawn to the attention of the Contractor that the Occupational Health and Safety Act provides in addition to other matters that;
  - A Constructor shall ensure that, on a project undertaken by the Constructor, that the
    measures and procedures prescribed by this At and Regulations, are carried out on this
    project.
  - Every employer and every Worker performing work on the project complies with the Act and the Regulations and
  - The Health and Safety of Workers on the project is protected.
  - The Contractor shall pay all such assessments as will protect him and the Algoma District School Board from claims under the Workplace Safety and Insurance Act.

## 11 Health and Safety Qualifications

- 11.1 The Successful Contractor shall supply the following documents:
  - Workers Safety & Insurance Board CAD rating and Certificate of Clearance.
  - Certificate of Clearance documentation is to remain current throughout the course of the project with updated certificates submitted to the Consultant.
  - Copy of the Signed Contractors Health and Safety Policy with proof of training and listing of programs developed that support the Policy Statement.
  - A copy of Proof of Training for each employee, by a valid first aid instructor to show compliance with Workplace Safety & Insurance Act Regulation 110 showing the level of training and expiry dates, and details of level of First Aid supplies present at work site are required. A signed statement by the Contractor attesting to compliance with the following:

Elliott Lake, ON

- WHMIS Regulations including proof of annual refresher for all personnel.
- Occupational Health and Safety Act
- Specifically, that all engaged in the project have completed the 'Basics of Fall Protection' training program by the Construction Safety Association of Ontario
- Personal protective equipment required by provincial legislation and Owner's requirements-including but not limited to:
  - Class B Hard Hat
  - Approved CSA Footwear
  - Approved CSA Hearing Protection where necessary
  - Approved Safety Glasses

## 12 Rejected or Defective Work

- 12.1 Defective or damaged Work, attributable to the Contractor, which has been rejected by either Owner/Consultant or the Client Corporation, shall be replaced and/or made good by the Contractor in accordance with the Contract at the Contractor's expense.
- The Contractor shall, at its own expense, rectify and make good any defect in the Work and resulting damage, which may appear within one (1) year from the date of the final acceptance of the Work by Owner.

#### 13 Laws, Notices and Permits

- The Contractor shall give the required notices and shall comply with the laws, ordinances, rules, regulations, codes and orders of any authorities and utilities having jurisdiction that relate to the Work and the preservation of public health and safety.
- 13.2 The Contractor is responsible to apply and pay for all permits pertaining to the project.
- The Contractor warrants and certifies that it has complied with Article (15) of Federal Regulation number 89, which states that an employer who hires a person in insurable employment shall request the employee to produce to the employer a Social Insurance Number Card within three (3) days after the employee commences employment.

  Non-compliance with this Article is cause for termination without notice of this Contract.

#### 14 Taxes and Duties

14.1 The Contractor shall pay all government taxes and duties, including the <u>HST</u>, with respect to the Contract. The Contract Price, set out in the Tender Form is exclusive of the HST.

## 15 Indemnification by the Contractor

- The Contractor shall indemnify and save Owner, their agents and employees harmless, from and against all claims, demands, losses, costs, including legal costs, damages, actions, suits or proceedings by whomever made, brought or prosecuted in any manner based upon, arising out of, related to, occasioned by or attributable to the activities of the Contractor, its servants, agents and sub-contractors in performing the Work, including an infringement or an alleged infringement of a patent of invention or any other kind of intellectual property.
- 15.2 The Contract between Owner and Contractor contains a clause relieving Owner and any person engaged in the Work from liability for any loss of revenues, loss of profit or any other indirect or consequential damages suffered by the Contractor.

Elizabeth Walk

Elliott Lake, ON Page 5

16	Insurance
16.1	The Contractor, at its own expense, procure and maintain in force for the duration of this Agreement:
16.2	Comprehensive General Liability Insurances, with a minimum limit not less than five million dollars (\$5,000,000.00) inclusive of bodily injury (including death) and property damage per occurrence or series of occurrences arising from one cause. The policy or policies shall cover all operations of the Contractor, products and completed operations, personal injury non-owned automobiles, contractual liability.
16.3	Builder's Risk Insurance/Installation Floater (for projects) insuring the full value of any work in the amount of the contract price and the full value, as stated, of products that are specified to be provided by Owner into any work. The policy shall insure against all risks of direct loss or damage and shall apply to all products, labor and supplies of any nature whatsoever, the property of the insured's or others for which the insured's may have assumed responsibility, to be used in or pertaining to site preparation, demolition of existing structures, erection and/or repair or any insured project while on site or in transit.
16.4	The foregoing insurance coverage's shall be underwritten by an insurers licensed in the provinces in which the Contractor provides the Services under this Agreement.
16.5	Owner is to be added as additional insured's to all of the above policies, but with respect to the operations covered by this Agreement.
16.6	The Contractor shall deliver to Consultant a certificate or certificates of insurance as evidence that the required coverage's are in effect and that Owner shall be given thirty days prior written notice of cancellation or expiry of or material change to such coverages.
16.7	It is the sole responsibility of the Contractor to determined what additional insurance coverages, if any, are necessary and advisable for its own protection or to fulfill its obligations under this Agreement. Any such additional insurance shall be provided and maintained by the Contractor at its own expense.
17	Suspension or Termination
17.1	Owner may suspend or terminate the Contract as per CCDC.
18	Applications for Payment and Payment
18.1	The Contractor will make an application for payment monthly as per CCDC.
18.2	Application for payment shall be submitted to Consultant, approved and re-submitted to Owner for release of monies.
18.3	Notwithstanding the number of Work orders or other written notices issued to the Contractor by Owner, within any calendar month, Owner will pay for any Work undertaken by he Contractor under this Contract only once per month.
18.4	Any payment made by Owner shall not be construed as evidence that the Work is satisfactory or in accordance with the Contract.
18.5	Substantial Performance will not be granted until all Manuals, As-Builts, ESA Certificate, Fire Alarm Verification, owner training, commissioning, City building permit etc. has been completed and submitted. All systems must be operational prior

## to Substantial Performance being awarded.

## 19 Workers Compensation

19.1 The Contractor will provide Owner with current certificates of clearance from the Workers Compensation Board or Commission de la Santé et Sécurité au Travail of the Province in which the Work is being undertaken throughout the course of the Contract.

#### 20 Toxic and Hazardous Substances and Materials

- 20.1 If the Contractor encounters toxic or hazardous substances or materials the Contractor shall take all reasonable steps to ensure that no person suffers injury, sickness or death and that no property is injured or destroyed as a result of exposure to or the presence of the substances or material and shall immediately report its findings to Owner by telephone or fax and confirm in writing.
- 20.2 If the Contractor is delayed or incurs additional costs as a result of encountering heretoforeunknown toxic substances or materials the time for performance of the Work shall be extended and the Contractor will be reimbursed its proper costs.
- 20.3 The Contractor shall dispose of all toxic and hazardous substances and materials in accordance with all federal, provincial and municipal standards, codes and regulations.

## 21 Cooperation and Protection

- 21.1 The Contractor shall cooperate fully with other Contractors or Workers sent onto the Place of Work.
- 21.2 Perform Work with a minimum disturbance to occupants, public and normal use of the premises.
- 21.3 The Contractor shall give the required notices and shall comply with the laws, ordinances, rules, regulations, codes and orders of Authorities having jurisdiction that relate to the Work, the preservation of public health and to construction safety.
- 21.4 The Contractor will comply with the requirements of the current building use. All required documents are available for study from Owner. Make all provisions for required training from Owner.
- 21.5 The Contractor will be responsible for security for security of the building. Further building shall be secured at end of each shift including locking or securing of all entry points and arming of security system. If failure to secure and arm building owner may require third party security company to be retained at contractors expense.
- 21.6 The Contractor shall be solely responsible for construction safety at the place of the Work.
- 21.7 Should the prosecution of the Work require interference with any electronic voice and data equipment operated by the Owner then the Contractor will adhere to and comply with the Owner's operational procedure.

#### 22 Controlled Products

The Contractor shall ensure that where substances classified as controlled products under the Control Products Regulations are to be used at the place of the Work, the Contractor shall ensure that his employees receive appropriate training as per Provincial/Federal Regulations and the Workplace Hazardous Materials Information System (WHMIS).

- The Contractor shall ensure that all controlled products are identified to the Consultant and shall obtain Material Safety Data sheet (MSDS) for controlled products, which shall be made available at the place of Work.
- 22.3 Owner must be advised when controlled products are brought onto the place of Work.

#### 23 Quality Control

Upon award of Contract the Contractor, if requested, shall submit to Owner a quality management plan indicating quality goals, objectives and implementation processes and proposed reporting mechanisms. Where possible the Contractor shall conform to ISO 9000 standards and practices.

#### 24 Amendments

24.1 No amendment of the Contract nor waiver of any of the terms and provisions shall be valid unless effected by a written amendment, signed by authorized representatives of the Contractor and Owner.

## 25 Entire Agreement

- 25.1 The Contract constitutes the entire agreement between the parties with respect to the subject matter of the Contract and supersedes all previous negotiations, communications and other agreements relating to it unless they are incorporated by reference in the Contract.
- 25.2 Valuation of Changes in the Work
- When the valuation of a change in the Work is to be determined either by estimate and acceptance in lump sum, or by cost and a fixed or percentage fee, the valuation shall be in accordance with the following:

Work Performed by Own Forces + 10% Work Performed by Sub-Contractors + 5%

Contractor to provide detailed breakdown of estimate if requested.

#### 26 Guarantee

- The Contractor shall: a) guarantee all materials and Workmanship used in the Work to be strictly in accordance with the tender documents and to be of the best quality; b) provide a first class job with proper and efficient operations and free from all defects.
- Any defects that may appear in any of the Work within one (1) year after the written acceptance by Owner, (ordinary wear and tear accepted) all be replaced by the Contractor without additional expense to Owner.
- Where any such defects occur, this Contractor shall be held responsible for all costs incurred in making good the defective Work. All damage to other materials, equipment, systems, fixtures, building and landscape caused by such defects, repairs, maintenance and servicing shall be made good at the Contractor's expense.

#### 27 Extension of Contract

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27.1	Extension of Contract will not be granted without providing just cause delivered to Consultant and approved by Owner
28	Security Clearance
28.1	The Contractor shall, upon request by Owner, provide and cause all persons employed on the Work to provide personal data for Security Clearances purposes. Such security clearance may include criminal background check
29	Cutting And Patching
29.1	Submit written request in advance of cutting or alteration which affects; Structural integrity of any element of Project, Integrity of weather-exposed or moisture-resistant elements, Efficiency, maintenance, or safety of any operational element, Visual qualities of sight-exposed elements, Work of Owner or separate contractor.
29.2	Inspect existing conditions, including elements subject to damage or movement during cutting and patching.
29.3 29.4	Prior to breaking any walls or openings, provide a letter from a professional engineer certifying the method of breaking and patching of the walls is acceptable and will not affect the structural integrity of the building.  Perform removal, cutting, fitting, and patching to complete the Work.
29.5	Perform work to avoid damage to other work.
29.6	Restore work with new products in accordance with Contract Documents.
29.7	At penetration of fire-rated wall, ceiling, of floor construction, completely seal voids with fire-rated, fire-resistant material, full thickness of construction element.
30	Shop Drawings and Product Data
30.1	"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 the Work.
30.2	Provide Shop Drawings and Product Data for all new Equipment listed within Contract Documents.
30.3	Indicate materials, methods of construction and attachment or anchorage, erection diagrams, connection, explanatory notes and other information necessary for completion of Work.
30.4	Adjustments made on shop drawings by Engineer are not intended to change Contract Price.
30.5	Submit digital copies of shop drawings for each requirement requested in specification Sections and as Engineer may reasonably request for review.  Upon review and approval of digital shop drawings the Contractor shall provide (3) hard copies in 3-ring binder to Engineer.

# **GENERAL REQUIREMENTS**

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31	Record Drawings
31.1	After award of Contract, Engineer will provide a set of drawings for purpose of maintaining record drawings. Accurately and neatly record deviations from Contract Documents caused by site conditions and changes ordered by Owner. Use sharp red pencil indicating all deviations from contract documents.
31.2	Identify drawings as "Project Record Copy". Maintain in new condition and make available for inspection on site by Engineer. On completion of each phase of Work and prior to final inspection, submit record documents to Engineer.
31.3	As Built drawings in CAD format to be provided to owner with maintenance manuals. Contractor to include \$1,500 for consultant to prepare autoCAD as-builts from contractor mark-ups.
32	Maintenance Manuals/Data Books
32.1	At Substantial Performance, submit to Engineer, a digital copy of operating and maintenance manuals for review.
32.2	Manuals to contain operational information on sophisticated materials, equipment any maintenance information and part replacements.
32.3	Upon review and approval of digitally submitted manuals. Contractor to provide (3) hard copy manuals which shall be bound 8"x11" and divided in a neat and orderly fashion.
33	Construction Facilities And Temporary Controls
33.1	Existing building will be occupied and cleaned during construction. Execute Work to cause minimum interference with activities in existing construction and maintain maximum safety to occupants. Take reasonable measures to minimize and control noise, dirt and dust during Work.
33.2	Before entering existing premises to carry out Work or to obstruct or take out of use any area of existing premises, or to cause any other interference, request meeting with Owner's representative in order to reach agreement as to time and length of time you may cause interference, possess, obstruct or remove from use any such area or services.
33.3	Provide construction facilities and temporary controls in order to execute work expeditiously. Remove from site all such work after use.
33.4	Furnish and install all necessary temporary wiring and panels and upon completion of the Work, remove all such temporary facility.
33.5	Furnish and install area distribution boxes so located that the individual trades may use 30 m (100') maximum length extension cords to obtain adequate power and artificial lighting at all points where required for the Work, for inspection and safety.
33.6	Telephone: Contractor to make their own arrangements for telephone facilities.
33.7	One (1) Existing facility (clearly indicated before commencement of work by owner) within the building are available for the Contractor's use. Keep facilities clean and neat.
33.8	Maintain all temporary facilities and controls as long as needed for the safe and proper completion of the Work. Remove all such temporary facilities and controls as rapidly as

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	progress of the Work will permit, or as directed by the Engineer.
34	Certificates And Transcripts
34.1	Prior to signing of the Contract, submit the following:
34.2	Liability Insurance Policy, General Conditions as amended by the Supplementary Conditions, Name of the Contractor's Superintendent, Certificate of Clearance from the Workers' Compensation Board, Construction Schedule of Work, and any other items requested.
34.3	Prior to the application of first payment claim, submit the following:
34.4	Schedule and Schedule of Values, Estimate of Monthly Progress Claims Job Progress Schedule Updates, and any other items requested.
34.5	Prior to submission of final payment claim, submit the following:
34.6	Record Drawings, Maintenance Manuals/Data Books, Final inspection certificate by Electrical Safety Authority, Statutory Declaration, Certificate of Clearance from Workers' Compensation Board and any other items requested.

**End of Section** 

#### PART 1 - GENERAL

- 1.1 Section Includes
- 1 Temporary utilities.
- 1.2 Related Sections
- .1 Section 01000 General Instructions.
- 1.3 Installation and Removal
- .1 Provide temporary utilities and controls in order to execute work expeditiously.
- .2 Remove from site all such work after use.

# 1.4 Temporary Heating and Ventilation

- Provide temporary ventilation or heating required during construction period, including attendance, maintenance and fuel.
  - .1 Prevent accumulations of dust, fumes, mists, vapours or gases in areas occupied during construction.
  - .2 Provide local exhaust ventilation to prevent harmful accumulation of hazardous substances into atmosphere of occupied areas.
  - .3 Dispose of exhaust materials in manner that will not result in harmful exposure to persons.
  - .4 Ventilate storage spaces containing hazardous or volatile materials.
  - .5 Ventilate temporary sanitary facilities.
  - .6 Continue operation of ventilation and exhaust system for time after cessation of work process to assure removal of harmful contaminants.
- .2 Maintain strict supervision of operation of temporary heating and ventilating equipment to:
  - .1 Conform with applicable codes and standards.
  - .2 Enforce safe practices.
  - .3 Prevent abuse of services.
  - .4 Prevent damage to finishes.
  - .5 Vent direct-fired combustion units to outside.
- .3 Be responsible for damage to Work due to failure in providing adequate heat and protection during construction.
- .4 Ventilate heated areas and keep building free of exhaust or combustion gases.
- .5 Construction heaters used inside the building must be Vented to outside or be non-flameless type. Solid fuel Salamanders are not permitted.
- .5 Use of new or existing systems for temporary heating, ventilating or air conditioning will not be permitted.
- .6 Contractor to review HVAC equipment delivery dates during bidding period. Should delivery and installation of such equipment be delayed beyond completion date, Contractor shall be responsible to provide and install temporary

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Elliot Lake, ON heating and ventilation measures to satisfy Owner requirements. All temporary measures shall be coordinated and agreed upon with Owner and Design Team. Contractor to provide and maintain temporary power during .1 1.5 Temporary Power and Light construction for temporary lighting and operating of power tools inside of the building. Arrange for connection with appropriate utility company. .3 Pay all costs for installation, maintenance and removal. .4 Provide and maintain temporary lighting throughout project. .5 Connect to power supply in accordance with Canadian Electrical Code and provide meters and switching Electrical power and lighting systems installed under this 6 Contract may be used for construction requirements only with prior approval of consultant provided that guarantees are not affected. Make good damage to electrical system caused by use under this Contract. Replace lamps which have been used for more than 3 months. 1.6 Temporary Sanitary Facilities .1 Provide sanitary facilities for work force in accordance with governing regulations and ordinances. Post notices and take such precautions as required by local .2 health authorities. Keep area and premises in sanitary condition. .3 When permanent water and drain connections are completed, provide temporary water closets and urinals complete with temporary enclosures, inside building. Permanent facilities may be used on approval of consultant. Building facilities may be used at the Owner's discretion. .4 1.7 Temporary Offices Provide and maintain in clean condition during progress of -1 adequately lighted, heated, ventilated and weatherproof temporary office. Office shall be of sufficient size to accommodate site meetings and be furnished with a drawing layout table and telephone. A temporary office space will be provided in the school if available. .2 Install in approved location for use by Contractor and Consultant. .3 Provide adequate required first aid facilities. .1 Provide and pay for temporary telephone and separate fax 1.8 Temporary Communication hook up, lines and equipment necessary for own use and Facilities use of Consultant. Provide and maintain temporary fire protection equipment 1.9 Fire Protection .1

during performance of Work required by insurance companies having jurisdiction and governing codes, regulations and bylaws.

.2 Burning rubbish and construction waste materials is not permitted on site.

#### 1.11 Barriers

- .1 Provide barriers for protection of the public, and against contamination of occupied portions of the floor, including, but not limited to:
  - .1 protection from falling/flying debris;
  - .2 protection from dust, debris;
  - .3 barriers for contamination control.

## .2 Types of barriers:

- .1 Generally, barriers indicated are classified as visual, semi-solid or solid. Erect the type specifically suited to the job conditions and/or as regulatory authorities or as specifically stated on the Drawings.
- Weather Enclosures:
  - .1 Provide weathertight closures to unfinished door and window openings, tops of shafts and other openings in floors and roofs.
  - .2 Close off floor areas where walls are not finished; seal off other openings; enclose building interior work area for temporary heat.
- .3 Dust Tight Screens for contamination control:
  - .1 Provide dust tight screens or partitions to localize dust generating activities, and for protection of workers, finished areas of Work and public.
  - .2 Maintain and relocate protection until such work is complete.
  - .3 Assembly of these barriers to meet contamination control standards.
- .4 Visual barriers shall:
  - .1 present horizontal obstruction;
  - .2 be solid but easily movable;
  - .3 be continuous for length of protection required.
- .5 Semi-solid barriers shall:
  - .1 present physical obstruction;
  - .2 resist general day-to-day abuse;
  - .3 be of 'snow fence' characteristic or similar.
- .6 Solid barriers shall:
  - .1 resist heavy impact;
  - .2 be constructed of framing lumber and plywood to withstand expected forces;
  - .3 be provided with hinges access where necessary complete with locking devices;
  - .4 not allow transmission of dust.
- .3 Markings on barriers shall be provided by way of signs, reflectors or flashing devices to indicate degree of hazard.

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#### .4 Contamination Control:

The proposed renovation project occurs in locations which require adherence to contamination control standards. In all cases, the Contractor will be responsible for maintaining the highest level of control against the various forms of contamination which can potentially adversely affect the adjacent floor areas.

- .1 The Contractor will protect against various forms of contamination. This list includes but is not limited to:
  - .1 air born contaminants such as dust other;
  - .2 noise:
  - .3 vibration.
- .2 The Contractor will:
  - .1 Erect dust barriers which meet specific standards for contamination control. These will be removed at end of the project.
  - .2 Where possible, will adjust or manipulate the building's ventilation system in order to create negative pressures within the renovation zones. This may also be achieved by cross-ventilation opening of existing operable windows, etc.
  - .3 Daily cleanup of dust and potential contaminants.

#### 1.12 Construction Aids

#### .1 Scaffolding

- .1 When not provided as part of normal practice by sub trades, provide, erect, move and dismantle scaffolding necessary to complete the work.
- .2 Scaffold must be rigid, secure and provided with necessary planking and barriers required by regulatory authorities.
- .3 Protect non-finished and finished work equally from damage by the use of scaffolding and replace immediately and damaged work.

#### .2 Hoists and Cranes

- .1 Employ hoists and cranes or other powered lifting equipment in strict accordance with safety requirements or regulatory authorities.
- .2 Hoisting operations shall not create hazards or damage to existing conditions.
- .3 Scheduling of major hoisting shall be performed to create the least on-site use of machinery as possible.
- .4 Special consideration shall be given to use of large equipment which might impede operations and functions of existing building.

#### 1.13 Signs

- .1 Erection of signs is not permitted, other than for safety use.
- .2 Construction safety signs may be posted to the Page | 4

# **TEMPORARY FACILITIES AND UTILITIES**

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requirements of regulatory authorities.

PART 3 - EXECUTION

**End of Section** 

-	Welded Steel Construction (Metal Arc Welding)
8	Material Specifications for Aggregates - Granular A, B, M and Select Subgrade Material

Metal Arc Welding

**CSA W59** 

**OPSS 1010** 

ISO Standard 2372 ISO Standard 3945 ISO Standard 2954 Elliott Lake, ON

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#### 1.4 DESCRIPTION

- 1.4.1 Provide work in accordance with the full intent and meaning of the Drawings and Specifications as required to result in complete operating systems.
- 1.4.2 The Drawings show the arrangement and general design. The work is suitably outlined on the Drawings with regard to sizes, locations, general arrangements and installation details. The mains and connections thereto are shown more or less in diagram except where in certain cases the Drawings may include details giving the exact locations and arrangements required.

#### 1.5 WORK COVERED BY OTHER DIVISIONS OR CONTRACTS

1.5.1 Refer to other Divisions of the specifications and to the Drawings for work related to the mechanical work to avoid interferences with work of other trades (and other Contractors) and to ensure proper completion of the work as a whole.

#### 1.6 APPORTIONMENT OF THE WORK

1.6.1 Classify and apportion all materials and the performance of all labour to the several trades involved in accordance with all local customs, rules, regulations, jurisdictional awards, decisions, etc., insofar as they may apply and as required to efficiently execute the work involved in this contract.

#### 1.7 PERMITS AND FEES

- 1.7.1 Obtain all permits required for the installation of mechanical trades work, arrange for inspections and tests therewith and pay all fees and costs for the permits, inspections and fees. Obtain permits immediately after notification of award of Contract.
- 1.7.2 Obtain copies of Drawings from the Engineer for submission with application for permits.

#### 1.8 EXISTING SERVICE

1.8.1 Do not shut down or make connections to any existing service without written permission of the Engineer. Heat shall be maintained in the building at all times and temperature maintained at all times during school hours.

#### 1.9 MATERIALS AND EQUIPMENT

- 1.9.1 Use materials and equipment as specified herein, or specified equivalent.

  Design of mechanical systems has been based on the first listed supplier and model number/size stated on the Equipment Schedules on the Drawings.
- 1.9.2 Locations and dimensions of curbs and flues, where indicated on the Drawings, are based on an arrangement to suit the above named supplier. Be responsible to verify the actual size requirements of the openings, and notify the Engineer immediately in case the dimension of the unit supplied and the

connecting ductwork/piping, etc. are at variance with the dimensions given on the Drawings. Equals or alternates may be submitted together with applicable savings.

1.9.3 Bear all costs for modification of curbs and floor/roof openings resulting from failure to notify the Engineer prior to the fabrication or construction of curbs.

#### 1.10 SUBMITTALS

## 1.10.1 Shop Drawings

Submit shop drawings in accordance with General Conditions of the Contract for items hereinafter listed which are exactly as specified. Supplement shop drawings with brochures where necessary or as required. The initial submission of shop drawings for any one trade shall include a checklist of all related specified items for that trade to ensure complete submittal and review.

Stamp as follows: SHOP DRAWINGS FOR RECORD PURPOSES ONLY - CHECKED FOR CONSTRUCTION IN ACCORDANCE WITH CONTRACT DOCUMENTS.

- 1.10.1.1 Record purpose submissions shall include:
  - -All equipment in bill of material.
- 1.10.1.2 Submit seven copies of such Drawings or Brochures to the Engineer, who will review such Drawings or Brochures. If items are not as specified, re-submit seven corrected copies.
- 1.10.1.3 Submit Shop Drawings for all other mechanical equipment in accordance with the requirements.
- 1.10.1.4 Prepare Shop Drawings specifically for this work by qualified drafters and in sufficient detail to avoid decisions being made in the shop or field.
- 1.10.1.5 General Shop Drawings showing more than one size or model will not be considered unless properly marked up.
- 1.10.1.6 Include performance data and characteristic curves with all fan and pump Shop Drawings.
- 1.10.1.7 Include wiring diagrams and schematics for all equipment which has electrical controls or devices furnished with the equipment. Wiring diagrams alone are not sufficient; schematic and interconnecting drawings, and sequence of operation of equipment are required for review.
- 1.10.1.8 Clearly indicate the materials and/or equipment being supplied, all details of construction, finish, accurate dimensions, capacities and performance on Shop Drawings and brochures. Have all drawings certified correct for construction by the manufacturer, before submission. Identify equipment Shop Drawings with

designations as shown on the Drawings or in the Specifications. If not complied with, Shop Drawings will not be reviewed and will be returned to the Contractor.

- 1.10.1.9 Each Shop Drawing and/or brochure must bear the stamp and signature of a responsible official in the Contractor's and the subcontractor's organization for each submission as evidence that the drawing has been checked against the requirements as called for in the specifications and Drawings. Also, in the case where the equipment attaches to and/or where there is external wiring connecting to other equipment, that it has been properly coordinated with this equipment, whether supplied under this or other contracts.
- 1.10.1.10 Revisions to shop drawings will not be allowed after they are reviewed unless further review and submission is required.
- 1.10.2 **Record Drawings**: Maintain an accurate dimensional record of all underground piping and all deviations and changes in above ground piping, ductwork and equipment from the Contract Drawings. Transfer this information to two (2) sets of record drawings filed at the job site and submit to the Engineer at the completion of the job.
- 1.10.3 **Installation and Start-up Instructions**: Furnish five copies of installation instructions and three copies of start-up instructions for any item of equipment when requested by the Engineer.
- 1.10.4 Operating and Maintenance Instruction Manuals
- 1.10.4.1 Provide three (3) of complete operating and maintenance instructions for equipment furnished under this Contract.
- 1.10.4.2 Bind instructions in loose-leaf 3-ring binders. When only one volume is required, provide a complete index. When more than one volume is required, include in the first book a complete index of all volumes and an individual index in each succeeding volume. Include the following manuals:
  - -Schematic diagram of electrical systems, and piping as installed.
  - -Control Shop Drawings and operating sequence including wiring of components.
  - -Wiring diagram of control panels.
  - -Non-dimensional layout showing location of all electrical devices on mechanical equipment.
  - -Operating instructions, including start-up and shut-down procedure.
  - -Maintenance instructions including preventive maintenance instructions for components of the equipment.
  - -Lubricating instructions and recommended cycle of lubrication for each item of equipment, including various types of lubricants.

- -Complete parts list of assemblies and their component parts, showing manufacturer's name, catalogue number, and nearest replacement source.
- -List of recommended spare parts and quantity of each item to be stocked.
- -Manufacturers' warranties and guarantees.
- -All the above applies to component parts of equipment whether they are manufactured by the supplier of the equipment or are supplied as a component part of an item of equipment.

## 1.11 QUALITY ASSURANCE

## 1.11.1 Regulatory Requirements

- 1.11.1.1 Conform to governing Municipal or Provincial Codes, Rules and Regulations and/or Authorities having jurisdiction.
- 1.11.1.2 Codes and Standards referred to hereinafter are by inference, in each case, the latest issue of the Specified Code or Standard, including all revisions and amendments thereto as adopted and published at date of tender closing.
- 1.11.1.3 Do all work and supply all equipment in accordance with the requirements and recommendations of the latest issue of the applicable standards and codes of the:

National Standards of Canada (NS Can)

Canadian General Standards Board (CGSB)

Canadian Standards Association (CSA)

American National Standards Institute (ANSI)

American Society for Testing and Materials (ASTM)

American Society of Mechanical Engineers (ASME)

Ontario Regulation 413/90 (Ontario Building Code) (OBC)

Ontario Building Code, Part 7 (Plumbing)O.Reg. 160, Ministry of Housing

Ontario Regulation 189 and 190 - Non-Venting of Refrigerants

Ontario Regulation 413 - Halon Fire Extinguishing Equipment

Ontario Fire Code

Ontario Ministry of Labour

American Society of Heating, Refrigerating and

Air Conditioning Engineers (ASHRAE)

Sheetmetal and Air Conditioning Contractors' National Association (SMACNA)

## 1.12 ELECTRICAL REQUIREMENTS

#### 1.12.1 General

- 1.12.1.1 Comply with the requirements of the Ontario Electrical Safety Code.
- 1.12.1.2 All equipment specified in Division 15 or shown on the Mechanical drawings to be supplied and installed by Division 15 and wired by Division 16 unless specifically indicated otherwise. Generally, all wiring above 50 volts by Division 16 and all low voltage control wiring below 50 volts by Division 15 unless otherwise indicated.
- 1.12.1.3 The nominal electrical service available for mechanical equipment is 120/208 volts, 3Ø, 60 Hz, unless specifically stated otherwise on the Drawings.
- 1.12.1.4 Provide motors with all electrically driven equipment furnished under this Contract. Provide starters for all of the circulation pumps.
- 1.12.1.5 If the Engineer gives approval of substitution of any item of mechanical equipment, include and pay for all necessary electrical changes (labour, materials, overhead, etc.) due to the substitution of the equipment.
- 1.12.2 **Starters, Disconnects, Motor Control Centres, etc.**: As specified in Division 16.
- 1.12.3 Identification of Electrical Equipment: As specified in Section 16010.
- 1.12.4 **Identification of Motors**: Provide all motors with brass tags attached by small chain loop, bearing the equipment identification of the driven equipment as described on the Mechanical Equipment Schedules. Stamp or engrave identification information with lettering of 9 mm high min.
- 1.12.5 **Wiring**: Provide power and control wiring as defined under respective Sections of Divisions 15 and 16. Refer to and conform with Division 16 for details of raceways, boxes, wiring, colour coding, etc.
- 2 Products
- 2.1 DRIVES AND ACCESSORIES
- 2.1.1 Lubricating Devices
- 2.1.1.1 Furnish equipment with oil reservoirs with level indicators, or pressure grease fittings. Where fittings are not readily accessible, provide extended tubes to an accessible location. Grease fittings may be Zerk or Alemite but all fittings on the project shall be one type.
- 3 Execution
- 3.1 GENERAL CONSTRUCTION REQUIREMENTS
- 3.1.1 General

3.1.5

3.1.5.1

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3.1.1.1	Conform with applicable requirements of the Occupational Health and Safety Act and Regulations for Construction Projects, Ontario Regulation 691.
3.1.2	Measurements and Deviations
3.1.2.1	Where any parts of the mechanical work are specifically located by dimensions on the Drawings, check and verify these dimensions on the site prior to installation.
3.1.2.2	Before installing piping, review all drawings with mechanical drawings. Where interference may occur and departures from arrangements as shown are required, consult with other trades involved, come to agreement as to changed locations or elevations and obtain approval of the Engineer for proposed changes before proceeding with the work.
3.1.2.3	Examine work of other trades or contractors, prior to commencement of mechanical installations. Report in writing, to the Engineer, any discrepancies which will affect mechanical installations. Failure to do so shall be considered acceptance of the conditions.
3.1.2.4	Where site conditions require minor deviations from indicated arrangements or locations, make such changes on approval of the Engineer without additional cost to the Owner.
3.1.2.5	Should any discrepancies occur during installation of mechanical work, which will necessitate major revisions to the mechanical trades work or the work of other trades or contractors, notify the Engineer immediately and obtain his written authorization before proceeding with the work.
3.1.3	Scaffolding and Hoisting Equipment
3.1.3.1	Refer to and comply with the requirements of Section 01001.
3.1.3.2	Do not drill, cut or weld the building steel or building structure for erection of materials or equipment without prior written approval of the Engineer.
3.1.4	Overloading
3.1.4.1	During installation of mechanical work, do not load any part of the building structure with a load greater than it is capable of bearing. Bear full responsibility should any accident occur or damage result through the violation of this requirement.
3.1.4.2	Any temporary supports used during installation must be as strong as permanent supports.

Use welding studs of size not larger than 10 mm for attaching miscellaneous

**Attachment to Building Construction** 

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materials and equipment to building steel. If the weight of materials or equipment require bolts or studs larger than 10 mm dia., use steel clips or brackets, secured to building steel by welding or bolting as approved by the Engineer.

- 3.1.5.2 Use self drilling expansion type concrete inserts for securing miscellaneous equipment and materials to masonry or concrete construction already in place, of sufficient number and size to prevent concrete from breaking away. The use of powder or power actuated fasteners will not be allowed unless prior written approval is obtained from the Engineer.
- 3.1.6 Cutting and Patching
- 3.1.6.1 Cutting of all holes and related patching shall be done under Division 15.
- 3.1.6.2 Do not cut, remove or burn structural parts or sections of the building, whether they are steel, concrete or masonry, without the written authorization of the Engineer.
- 3.1.6.3 Should cutting, repairing, and patching of previously finished work of other trades be required to allow installation of mechanical work, pay all costs for the trade concerned to perform the work.
- 3.2 EQUIPMENT INSTALLATION
- 3.2.1 General
- 3.2.1.1 Erect equipment in a compact, neat and workmanlike manner. Align, level and adjust for satisfactory operation. Install in such a manner that connecting and disconnecting of piping and accessories can be made readily and that all parts are easily accessible for inspection, operation, maintenance and repair.
- 3.2.1.2 Install and start up items of equipment in complete accordance with the manufacturer's printed installation and operating instructions.
- 3.2.2 **Noise and Vibration**: Select noise and vibration levels of equipment and systems to conform to design intent. If unnecessary noise or vibration should be created by any mechanical equipment and systems and transmitted to occupied portions of building or other mechanical work, make all necessary changes and additions as approved by the Engineer without additional cost.
- 3.2.3 **Lubrication**: Lubricate all equipment prior to start up, in accordance with the manufacturer's printed instructions. Provide all lubrication including sufficient quantity for drainage and refilling of oil sumps, etc., when required by manufacturer's instructions.
- 3.2.4 Equipment Bases and Pads
- 3.2.4.1 Provide all concrete work for this Division including bases and curbs.
- 3.2.4.2 Verify size of bases shown on Drawings with actual requirements and advise

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the Engineer and the respective trades if change in size or shape of pad is required.

- 3.2.4.3 Construct bases and pads the same height as existing. Extend bases 75 mm (3") beyond centreline of anchor bolts or to a minimum of 50 mm (2") beyond equipment base. Chamfer all upper perimeter edges of base. Provide fully adhered joints to existing pads.
- 3.2.4.4 Supply anchor bolts and sleeves to trade constructing bases in sufficient time for setting in formwork prior to placing concrete and provide anchor bolt location drawing or template for locating anchor bolts. Check anchor bolt locations for proper position before concrete is poured.
- 3.3 DISCONNECTION AND DEMOLITION OF EXISTING WORK
- 3.3.1 Disconnect and seal off mechanical equipment and services as required on Site.
- 3.3.2 Be responsible for demolition and removal of mechanical equipment and services designated for removal on Drawings and as required by work, unless otherwise specified
- 3.4 PIPING CONSTRUCTION METHODS
- 3.4.1 General
- 3.4.1.1 Unless specified otherwise herein, construct and install all piping in accordance with ANSI Sections B31.1 to B31.9 as applicable to service, except that soldered joints will not be permitted in compressed air piping.
- 3.4.1.2 Inspect pipe and fittings for soundness and clean of all dirt and other foreign matter immediately prior to installation. Reject all damaged items.
- 3.4.1.3 Install piping in the most direct, straight and functional manner possible. Except where otherwise shown, install all vertical lines plumb, and run horizontal lines parallel to building walls. Install piping close to walls, partitions and ceilings. On multiple runs of piping, space piping to allow for installation of insulation and for proper servicing of valves.
- 3.4.1.4 Piping below grade are dry and firm when laying pipe.
- 3.4.2 Lines, Grades and Slopes
- 3.4.2.1 Install liquid lines free of pockets and pitch to drain at low points in the line with valves or traps installed as required for drainage of the lines.
- 3.4.2.2 When slope is not shown on the drawings, install piping to the following slopes:

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-Hot water heating - slope up 1:500 in direction of flow.

## 3.4.3 Immersion Wells and Sensing Bulbs

- 3.4.3.1 Where a temperature sensing bulb or immersion well is installed in piping of NPS 2g" size and less, increase the tee fitting and piping as required in which the bulb or well is inserted a minimum of one pipe size larger than the adjoining pipe to prevent restriction of flow of liquid.
- 3.4.3.2 To improve heat transfer pack all immersion wells in piping for liquids up to a temperature of 150 deg C (300 deg F) with a mineral type grease prior to installation of sensing bulb.

## 3.4.4 Pipe Joints

- 3.4.4.1 Ream all pipe ends and thoroughly clean all dirt, cuttings and foreign matter from pipe after cutting and threading. Thoroughly clean all fittings, valves and equipment before connections are made. Cut copper tubing with a tube cutter and clean the joining surfaces of the tubing and fitting with fine emery cloth. Wipe clean with a dry cloth.
- 3.4.4.2 Make screwed joints with Teflon tape or Masters metallic compound with the compound applied to the male threads only and particular care taken to prevent the compound from reaching the interior of the pipe or fittings.
- 3.4.4.5 Assemble mechanical joint on ductile iron pressure pipe with cast iron gland, rubber sealing gasket and high strength malleable iron bolts in accordance with the manufacturer's recommendations.
- 3.4.4.6 Install couplings, fittings, etc. on grooved end piping systems in accordance with manufacturer's printed instructions.
- 3.4.4.7 Make soldered joints on copper tubing in accordance with the following usage:

Service Solder Type

a) Hot water heating 100% Lead Free

- 3.4.4.8 Do not use core type solder. Use solder conforming to ASTM requirements.
- 3.4.4.9 Make carbon steel welded joints in compliance with latest acceptable practices, either by electric arc welding, gas metal arc welding, or oxyacetylene gas welding.
- 3.4.4.10 Employ qualified welders holding a current up-to-date Provincial Certificate for the process and rating involved as required by the Provincial Regulations.
- 3.4.4.11 Conform to ANSI B31.1 Section IX for welding and be responsible to ensure that supervisory staff, fitters and welders are fully conversant with the requirements laid down by that Standard prior to the commencement of

#### welding.

- 3.4.4.12 Unless more stringent methods of inspections are specified the Engineer will visually inspect welded joints for fusion of metal, icicles, alignment, etc. Remove any defects and remake the joint to his satisfaction.
- 3.4.4.13 For welding of materials other than carbon steel conform to the requirements specified in the relevant section of the Specification.

## 3.4.5 Unions and Flanges

- 3.4.5.1 Provide unions or flanges in the following locations:
  - -For by-passes around equipment or control valves or devices in piping systems.
  - -At connections to equipment. Locate between shut-off valve and equipment.
  - -In screwed or solder joint drainage tubing at inlet side of trap.
- 3.4.5.2 Provide dielectric unions or isolating type companion flanges at all connections between copper tubing and ferrous piping.
- 3.4.5.3 Assemble flanged joints with appropriate flanges, gaskets and bolting. Provide clearance between flange faces such that the connections can be gasketed and bolted tight without undue strain on the piping system with flange faces parallel and bores concentric. Centre gaskets on the flange faces so as not to project into the bore. Lubricate bolts before assembly to assure uniform bolt stressing. Machine off raised face flanges when joining to a flat companion flange and use a full face gasket.
- 3.4.6 Fittings
- 3.4.6.1 The use of couplings between fittings, valves or equipment, will not be permitted except on long runs in pipe sizes NPS 2" or smaller. Where the length of pipe between fittings requires a connection, make the joint by welding. Do not use running couplings in any pipeline.
- 3.4.6.2 Fittings and ancillary items installed in systems operating at pressures in excess of 103 kPa (15 psig) must be registered in accordance with CSA B51.
- 3.4.6.3 Use eccentric reducing fittings in locations where piping changes size and at connections to equipment and control valves, to provide proper drainage or venting of the lines. Do not use bushings.
- 3.4.6.4 Tee connections in welded piping may utilize either of the following:
  - -Factory fabricated standard buttweld fittings.
  - -Bonney Forge "Weldolets", "Thredolets" or "Sockolets".

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3.4.6.5 Mitering, notching or direct welding of branches to mains, will not be permitted. 3466 Use standard pipe fittings for changing direction of piping. No mitered joints or field fabricated pipe bends are permitted. Use long radius welded steel elbows unless short radius elbows are specifically authorized by the Engineer. In copper tubing, direct connection of branch into main using "T-Drill" method may be used where allowed by Ontario Building Code, Part 7 (Plumbing) O.Reg.160, in lieu of manufactured tee fittings. 3.4.7 **Piping Connections to Mains** 3.4.7.1 Make branch connections of steam, gas and compressed air lines to respective horizontal piping of larger diameter to the upper quadrant of the larger pipe. 3.4.7.2 Make down feed piping connections of all water piping to horizontal supply and return mains to the bottom quadrant of the mains. 3.4.8 **Valves** 3.4.8.1 Supply and install valves in all locations shown on the Drawings, at all piping connections to equipment, at all connections to control valves or control devices, and where required for sectionalizing a system or floor. 3.4.8.2 Use gate or butterfly valves for shut-off purposes and globe or plug valves for throttling purposes. 3.4.8.3 Install check valves wherever required to ensure flow of liquid in one direction.

connect to nearest drain.

**PRESSURE TESTS** 

3.4.8.4

3.4.9

3.5

3.5.1 Make specified pressure tests on all piping included in this Contract. Furnish all pumps, compressors, gauges and connectors necessary for the tests.

branch stop valves for proper drainage of lines.

Provide drain valves with hose thread outlet connection or valve with long nipple on outlet at all low points of each water system and above all riser or

Air Venting: Install all vents at high points of all water piping systems and

- 3.5.2 Conduct tests in the presence of the Engineer and all other personnel of governing authorities having jurisdiction. Notify all parties in ample time to permit them to be present. Conduct tests before piping is painted, covered or concealed.
- 3.5.3 Conduct hydrostatic tests for a minimum period of 2 hours, or longer when

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	requested by the Engineer or governing authority at the test pressure specified under the respective Section of the Specifications
3.5.4	During this time the pressure shall remain constant and the exterior surfaces of pipe or fittings shall not show any cracks or other form of leak.
3.5.5	Conduct final tests on natural or propane gas piping in accordance with the requirements of the local Utility or governing authority. If feasible, make tests when ambient air temperature is approximately constant. Take into account corrections for pressure change due to temperature differential as approved by the Engineer.
3.5.6	Disconnect pumps or compressors used for applying the test pressure, during the test period.
3.5.7	Disconnect and/or remove equipment or specialties not designed to withstand the test pressure during the test and reconnect same after completion of test.
3.5.8	Promptly correct any defects that develop through tests and re-test to the complete satisfaction of the Engineer and other parties involved.
3.5.9	Forward copies of all final tests on all pressure and drainage piping and a copy of governing authority approvals to the Engineer immediately on acceptance of tests and/or approvals.
3.5.10	Final payment for the work will not be made until the above has been received.
3.6	PERFORMANCE TESTING AND BALANCING
3.6.1	Assume responsibility for testing, balancing and placing all air handling and liquid systems in operation, prior to final acceptance in presence and under direction of Engineer.
3.6.2	Standard test sheets are appended to this Section. Fill out applicable sheets during performance tests, start-up procedures, and commissioning procedures. Submit 3 copies to Engineer prior to acceptance.
3.6.3	Provide all instruments required to test and balance systems. Install test probe inlets in ductwork and equipment in locations selected by the Engineer. Balance systems in accordance with design requirements indicated on the Drawings. Report to the Engineer immediately any deficiencies in the systems or equipment performance resulting in design requirements being unobtainable.
3.6.4	On completion of testing and balancing of all systems, submit to Engineer a typewritten report (4 copies) of findings, including complete data of fan performance, static pressures, air quantities, final readings at all outlets, and ampere readings of all motors, taken at motor terminals when equipment is operating under full load conditions.

3.6.5 Submit with each copy of the report, complete sets of duct layout prints neatly marked in red ink, showing all locations at which test readings were taken, the air volume, velocity and static pressure in each supply and return duct, and the final reading at all outlets. Obtain duct layout prints for mark-up purposes from the Engineer.

## 3.7 CLEANING, TESTING AND APPROVAL RECORDS

3.7.1 Maintain records of all pressure tests and flushing and sterilization tests, glycol/water concentrations, inspections and approvals by the Plumbing Inspector, etc. and forward these to the Owner on completion of the work. Provide Engineer with copy of records on completion of each test, cleaning operation, etc.

#### 3.8 ADJUSTMENT AND OPERATION OF SYSTEMS

- 3.8.1 When the work is complete, adjust all equipment items of the various systems for proper operation within the framework of design intent, and the operating characteristics as published by the equipment manufacturer.
- 3.8.2 Note: Additional instructions are specified under the respective Sections of this Division.
- 3.8.3 The Engineer reserves the right to require the services of an authorized representative of the manufacturer in the event that any item of equipment is not adjusted properly. Arrange for such services and bear all incurred costs thereof. After completion of adjustments, place the systems in full operating condition and advise the Engineer that the work is ready for acceptance.

#### 3.9 ACCEPTANCE

- 3.9.1 After all equipment has been installed and adjusted and all systems balanced, conduct performance tests in the presence of the Engineer and the Owner. Arrange the time for these tests at the convenience of the Engineer and Owner. Conduct tests under climatic circumstances to ensure complete and comprehensive tests and of such a manner and duration as the Engineer may deem necessary.
- 3.9.2 During these tests, demonstrate the correct performance of all equipment items and of the systems they comprise. Should any system or any equipment item fail to function as required, make such changes, adjustments or replacements necessary to meet the performance requirements. Repeat tests until these requirements have been fully satisfied and all systems accepted by the Engineer.

End of Section.

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#### 1 GENERAL

- 1.1.1 All equipment specified in Division 15 or shown on the Mechanical drawings to be Supplied and installed by Division 15 and wired by Division 16 unless specifically indicated otherwise. Generally, all wiring above 50 volts by Division 16 and all low voltage control wiring below 50 volts by Division 15 unless otherwise indicated.
- 1.1.2 Section 16010 shall apply to and govern work of all Sections of Division 16.

#### 1.2 SYSTEM DESCRIPTION

- 1.2.1 Incoming Service Data
- 1.2.1.1 Available electric service is 120/208 volts, 60 Hz, 3 phase, 4 wire, (grounded).
- 1.2.1.2 Co-ordinate ratings and characteristics of all pertinent electrical equipment to ensure safe and satisfactory operations.

## 1.3 16010 DEMOLITION AND REMOVAL

- 1.3.1 Be responsible for demolition and removal of electrical equipment services scheduled for removal on Drawings and as required by Work.
- 1.3.2 Do disconnecting and capping prior to authorizing removal.
- 1.3.3 Ballasts of fluorescent light fixtures may contain PCB. Take adequate precautions, remove and pack light fixtures in steel drums. Store drums in secure container on Site. Deliver to designated storage site when directed by Engineer. Owner will be responsible for cost and arrangement of transportation of materials containing PCB.

## 1.4 SHOP DRAWINGS

- 1.4.1 Submit shop drawings in accordance with the General Conditions of the Contract and as specified in each section of Division 16.
- 1.4.2 When equipment and apparatus of 1 system must be co-ordinated with or installed in a given area with equipment and apparatus of other system(s), prepare and submit necessary co-ordinated composite drawings for checking interferences.

## 1.5 AS-BUILT DRAWINGS

- 1.5.1 Submit "as built" drawings in accordance with requirements of specifications
- 1.5.1.1 Colour code changes using red for additions, and green for deletions.

## 1.6 OPERATION AND MAINTENANCE DATA

1.6.1 Submit operation and maintenance data. Make changes or submit additional information if required.

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1.6.2 Review instructions with Engineer to ensure a thorough understanding of equipment and its operation.

## 1.7 REGULATORY REQUIREMENTS

- 1.7.1 The Electrical Safety Authority Approval: Immediately upon award of the Contract, submit complete set of electrical drawings to The Electrical Safety Authority for approval. Prepare and submit any other documents required for approval.
- 1.7.2 Materials and workmanship shall be in accordance with requirements and recommendations of applicable rules, regulations, standards and codes as specified hereunder. All products shall bear certification label of CSA, ULC, The Electrical Safety Authority, as applicable.

The Electrical Safety Code (OESC)-publication containing Canadian Electrical Code and The Electrical Safety Authority Supplements.

Canadian Standards Association (CSA)

Underwriter's Laboratories of Canada (ULC)

Electrical and Electronic Manufacturers Association of Canada (EEMAC)

Joint Industrial Council (JIC)

Ontario Building Code (0BC)

Ontario Fire Code (OFC)

Association of Edison Illuminating Companies (AEIC)

American Society for Testing and Materials (ASTM)

Insulated Power Cable Engineers Association (ICEA)

Boards, Service Companies or other Authorities having jurisdiction.

- 1.7.3 Permits, Fees and Certificates: Except as provided in the General Conditions of the Contract, give notices, obtain permits, pay fees required for work of Division 16. Before final certificate of payment is issued by Owner, furnish certificates as evidence that work installed conforms with laws and regulations of all governing authorities. Determine detailed requirements of local authorities having jurisdiction and conform to those requirements.
- 1.7.4 Qualifications
- 1.7.4.1 Work shall be executed by Electrical Contractor or his designated sub-contractor, holding a valid Contractors' license (Master License).
- 1.7.4.2 Work shall be performed by qualified Electricians holding valid Ontario certificates of qualifications.
- 1.7.4.3 Work on signal, communication, related control and other similar systems shall be performed by relevant competent tradesmen.
- 1.8 PROJECT/SITE CONDITIONS
- 1.8.1 Existing Conditions
- 1.8.1.1 Examine Site and Contract Documents in accordance with Instructions to Bidders.

1.8.1.2 Electrical installations in areas classified as hazardous locations, corrosive environments, and other special area application, shall be governed by relevant Industry Standards and Regulatory Requirements.

## 1.8.2 Interruption of Services

- 1.8.2.1 Any interruption of electrical services to any part of existing building(s) shall come at a time agreeable to Engineer. Make all necessary arrangements with those concerned, and include in Contract Price for any overtime required to ensure that interruption is held to a minimum.
- 1.8.2.2 All such overtime work shall be carried out without additional cost to Owner.

#### 1.9 PERMITS

- 1.9.1 Contractor is responsible for all electrical wiring, permits and controls to complete this project. If fire alarm or security system is down at any time, contractor is responsible to provide a fire watch.
- 2 PRODUCTS

#### 2.1 MATERIALS

- 2.1.1 Inserts: Supply and deliver inserts, anchors, bolts, sleeves, ferrules and other items to be built into work of other Divisions, with necessary templates, adequate instructions and assistance for locating and installing.
- 2.1.2 Access Panels: For ceilings and/or masonry walls, 12 gauge steel, size 460 mm x 460 mm unless indicated on Drawings, concealed hinges, key-locked type, prime coated, to match ceiling and/or wall finish.
- 3 EXECUTION

#### 3.1 EXAMINATION

- 3.1.1 Where any parts of systems and/or pieces of equipment are located by dimensions on Drawings, check and verify such dimensions at Site.
- 3.1.2 Notify Engineer before proceeding further if any discrepancy or interference with other equipment is found which will necessitate revision in or deviation from Work as indicated or specified.
- 3.1.3 Location of conduit, raceways, wiring and other equipment shall be altered without charge to Owner if so directed by Engineer provided change is ordered before installation, and does not necessitate additional labour and material.

#### 3.2 CUTTING AND PATCHING

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- 3.2.1 Cutting of holes shall be done under Division 16.
- 3.3 INSTALLATION
- 3.3.1 Instruct and supervise other Sections doing related work.
- 3.3.2 Electrical products and methods of installation shall be in accordance with relevant Sections of Division 16, and applicable requirements of other Divisions.
- 3.3.3 Correct installed work as directed by authorized inspector of such authorities.
- 3.3.4 Notwithstanding the General Conditions of the Contract, no increase to Contract Price shall apply for electrical items relocated from location indicated and prior to installation requiring extra labour and material up to 3 meters (10'-0") from original location, nor will decrease to Contract Price apply where relocation up to 3 meters (10'-0") reduces materials and labour.
- 3.4 **SYMBOLS**
- 3.4.1 Electrical work is indicated generally on Drawings using standard symbols.
- 3.4.2 For lighting layout Drawings, letters in a circle indicate type of fixture to be supplied. Letters and numbers outside and adjacent to circle indicate panel and circuit number.
- 3.5 **MOUNTING HEIGHTS**
- 3.5.1 Measure mounting height dimension from operator's working floor level (finish) to centre-line of electrical device or enclosure, unless otherwise indicated or specified herein.
- 3.5.2 Mounting heights shall be as follows, unless otherwise indicated or specified as directed on Site:

Lighting Switches

(36") 900mm to (44") 1100mm

Thermostats

(48") 1200mm (48") 1200mm

**Pull Stations** Exit Lights

(96") 2400mm (Minimum)

- 3.5.2.1 Heights are subject to change to suit structural requirements, and other Site conditions. and therefore as work progresses, and before installing equipment, obtain instructions or directions from Engineer for alternative heights or relocation.
- 3.6 **EXISTING INSTALLATIONS**
- 3.6.1 Execute changes, alterations, relocations, removals, additions, and connections to existing electrical installation as indicated on Drawings or as specified.
- 3.6.2 Check electrically-operated equipment for proper wiring connection and operation before disconnecting and reconnecting it thereafter. Report defects in equipment to Engineer before proceeding work.

3.8

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3.6.3	Where connections are required to existing electrical equipment, install necessary raceways and wiring and connect up complete as required for proper operation.
3.6.4	Check for proper size and safety of existing feeders and wiring to be re-used and reconnected to equipment. Correct as required.
3.6.5	Disconnect wiring from old panel where existing equipment is to be fed from a new panel.
3.6.6	Remove exposed existing conduit and its wiring made redundant by Work. Cut off and cap conduits concealed or embedded in concrete, flush with finished walls, ceiling and floors.
3.6.7	Provide new wiring for new and affected existing lighting fixtures, switches, receptacles, outlets and other electrical equipment indicated on Drawings, unless stated otherwise.
3.6.8	Repair damage caused by such works, including repainting required due to lack of reasonable care. Bring discrepancies regarding installation to Owner's Designee's attention for decision regarding procedure to be taken.
3.6.9	Maintain and protect during construction, existing wiring required to be retained. Where interruption of services cannot be avoided, conform to requirements specified herein.
3.6.10	Provide temporary feeder connections to equipment where interruption of services is not allowed.
3.6.11	Existing minor installations, such as conduits, boxes and wiring devices, which interfere with new electrical equipment installation, may be rerouted or relocated on prior approval of Engineer.
3.6.12	Safely carry out (demolition and) removal of existing electrical installation and equipment as specified or as indicated on Drawings. Removed equipment shall become property of Division 16, unless noted otherwise.
3.6.13	Disconnect and seal off electrical equipment and services as required on Site.
3.6.14	Be responsible for demolition and removal of electrical equipment and services designated for removal on Drawings and as required by Work.
3.7	Grounding
3.7.1	Ground electrical equipment in accordance with requirements of The Electrical Safety Authority Electrical Safety Code.
3.7.2	Arrange grounds so that under normal operating conditions, no injurious amount of current will flow in any grounding conductor. Connect single phase loads so that there is least possible unbalance of supply.

**FIELD QUALITY CONTROL** 

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- 3.8.1 Trial Usage
- 3.8.1.1 Trial usage by Engineer of any electrical device, machinery, apparatus, equipment and other work supplied under this Division before final completion and written acceptance by Engineer is not to be construed as evidence of acceptance by Owner.
- 3.8.1.2 Engineer shall have privilege of such trial usage as soon as Contractor claims that said work is completed, in accordance with Drawings and specifications for such reasonable length of time as Engineer deems sufficient for making a complete test.
- 3.8.1.3 No claim for damage shall be made for injury to or breaking of any parts of such tested work, whether caused by weakness or inaccuracy of structural parts or by defective materials or workmanship of any kind whatsoever.
- 3.8.1.4 At completion of installation, conduct grounding resistance test, voltage test, and empty conduit test in presence of Engineer and make corrections where necessary and as directed.
- 3.8.1.5 Resistance of ground electrodes shall not exceed maximum permissible values for each type of installation or equipment concerned and if necessary change arrangement until satisfactory results are obtained.
- 3.8.1.6 Voltage provided to equipment in installation shall not exceed minimum and maximum permissible limits for equipment.
- 3.8.1.7 Perform insulation tests for installed wiring and equipment with appropriate "Megger" testing equipment. Megger lighting and power circuit feeders and if resistance to ground is less than recommendations on any lighting or power circuit, consider such circuit defective and replace it.
- 3.8.1.8 Test performance of equipment for mechanical and electrical defects. Make adjustments necessary for such equipment. When equipment has been placed in permanent operation give to operating personnel all necessary tuition and instructions for its operation and maintenance.
- 3.8.1.9 Test conduits that are required to be installed but left empty for clear bore, using ball mandrel, brushes and snake. Use lignum vitae ball of diameter equal to approximately 85% of conduit inside diameter. Clear any conduit that rejects ball mandrel in an approved manner and without damage thereto.
- 3.8.1.10 Furnish labour, materials, instruments and bear other costs in connection with all tests, obtain required certificates of approval, acceptance, and compliance with regulations of agencies having jurisdiction and as specified. Work shall not be deemed complete and final certificate of acceptance will not be issued, until such certificates have been delivered to Engineer.
- 3.9 CLEANING
- 3.9.1 Before starting and commissioning operations, installed new electrical enclosures, equipment and control devices, open-frame motors shall be air-blown and/or vacuum-

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# **GENERAL ELECTRICAL REQUIREMENTS**

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cleaned.

Ensure no foreign objects, tools, and materials are left inside switchgears, cabinets, 3.9.2 panelboards, control panels and similar enclosures before such equipment is energized.

**End of Section** 

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1	GENERAL		
1.1	GENERAL REQUIREMENTS		
1.1.1	Conform to Sections of Division 1 as applicable.		
1.1.2	Conform to General Electrical Requirements, Section 16010 as applicable.		
1.2	REFERENCES		
	CAN3 C17 CAN/CSA C22.2 No. 4 CAN/CSA C22.2 No. 18 CAN/CSA C22.2 No. 17 CAN/CSA C22.2 No. 18 CAN/CSA C22.2 No. 76 CAN/CSA C22.2 No. 76 CAN/CSA C22.2 No. 76 CAN/CSA C22.2 No. 76 CSA C22.2 No. 29 CSA C22.2 No. 38 CSA C22.2 No. 42 CSA C22.2 No. 45 CSA C22.2 No. 51 CSA C22.2 No. 51 CSA C22.2 No. 52 CSA C22.2 No. 53 CSA C22.2 No. 54 CSA C22.2 No. 55 CSA C22.2 No. 55 CSA C22.2 No. 56 CSA C22.2 No. 56 CSA C22.2 No. 57 CSA C22.2 No. 58 CSA C22.2 No. 58 CSA C22.2 No. 59 CSA C22.2 No. 51 CSA C22.2 No. 52 CSA C22.2 No. 52 CSA C22.2 No. 53 CSA C22.2 No. 54 CSA C22.2 No. 55 CSA C22.2 No. 55 CSA C22.2 No. 56 CSA C22.2 No. 57 CSA C22.2 No. 58 CSA C22.2 No. 58 CSA C22.2 No. 59 CSA C22.2 No. 50 CSA C22.2 No. 50 CSA C22.2 No. 50 CSA C22.2 No. 51 CSA C22.2 No. 51 CSA C22.2 No. 52 CSA C22.2 No. 53 CSA C22.2 No. 54 CSA C22.2 No. 55 CSA C22.2 No. 56 CSA C22.2 No. 57 CSA C22.2 No. 58 CSA C22.2 No. 58 CSA C22.2 No. 51 CSA C22.2 No. 111 CSA C22.2 No. 123 CSA C22.2 No. 124 CSA C22.2 No. 144 CSA C22.2 No. 145 CSA C22.2 No. 144 CSA C22.2 No. 146 CSA C22.2 No. 147 CSA C		
1.3	MATERIALS AND EQUIPMENT		
1.3.1	Safety (Disconnect) Switches - CAN/CSA C22.2 No. 4; CAN/CSA C22.2 No. 94.		
1.3.1.1	Safety (disconnect) switches, in general, shall be fused or unfused, industrial heavy duty-type, switches with quick make, quick break contacts, ratings and types of enclosure, as indicated on Drawings.		
1.3.1.2	Fuses shall be non-renewable type except those protecting motors which shall be dual element type, suitably rated to protect motors against overload and short circuit.		
1.3.1.3	Wires and Cables, and Accessories		
1.3.1.4	Wiring, general, for Power and Lighting Feeders: Copper conductors type "R90", 600V insulation, except as otherwise noted or scheduled on Drawings.		
1.3.1.5	Wiring smaller than 8.3 mm² (No. 8) shall be solid. Conductors of 8.3 mm² (No. 8) and larger shall be stranded.		
1.3.1.6	Do not use wiring smaller than 3.3 mm² (No. 12) except for control wiring specified under Division 16.		

- 1.3.1.7 Size branch circuits and feeders for maximum 2% voltage drop from panelboard to farthest outlet in circuit and large enough to be protected by fuse or breaker of which they form a part.
- 1.3.1.8 Feeders, circuit wiring and ancillary items shall be colour-coded for phase identification.
- 1.3.1.9 Neutral Conductor: Full capacity, white insulation, continuous throughout circuit without fuses, breakers or switches of any kind.
- 1.3.1.10 Main Feeders: Copper conductors, CSA C22.2 No.(52)(123), size as shown on Drawings,(aluminum sheathed), PVC jacketed, RA90/XLPE insulation 600/1000V 90C/-40C, for direct burial, complete with recommended matching connectors, similar to Canada Wire "Corflex" or by Phillips Cables, Advance, Carol, United, and others.
- 1.3.1.11 Cables for Other Systems: Of type specified in respective Sections. Number of wires for various control, alarm and other systems are intended to show general control scheme. Actual number of wires shall be installed under applicable Sections (and this Section if so specified herein) in accordance with equipment manufacturer's diagrams and requirements as reviewed by Engineer.
- 1.3.1.12 Compression Connectors: Properly sized for joining conductors and insulated, or as recommended by cable manufacturer, Burndy, Ideal, G & W Electric, Ilsco, Joslyn, Thomas & Betts, and others.
- 1.3.2 Raceway and Boxes
- 1.3.2.1 Electrical Metallic Tubing (EMT), Couplings and Connectors: CSA C22.2 No. 83. Use for exposed, concealed surface installation not subject to mechanical stress or injury. Provide ground wire for sizes over 50mm (2").
- 1.3.2.2 Steel Conduits and Fittings: Rigid galvanized (standard)(heavy) wall, CSA C22.2 No.45. Use where exposed installation is subject to mechanical injury, as required by Code and specified herein, or indicated on Drawings.
- 1.3.2.3 Flexible Metallic Conduits: CSA C22.2 No.56. Use for connection to motors and recessed luminaires, indoor dry location, within Code requirement.
- 1.3.2.4 Liquid-tight Flexible Metal Conduits: CSA C22.2 No.56. Use for connection to motors, in damp or wet location, within Code requirement.
- 1.3.2.5 Cable pulling accessories: Fish cord, polypropylene.
- 1.3.2.6 Outlet Boxes, Conduit Boxes, and Fittings: CSA C22.2 No.18, electro-galvanized sheet steel construction for outlet boxes; cast-type feraloy 'FS' or 'FD' with standard factory-threaded hubs or adapters as required for conduit boxes.
- 1.3.2.7 Splitters: CSA C22.2 No.76, boxes or troughs, welded sheet steel metal enclosure complete with necessary mains and branch copper bus bars and lugs, 600V, ratings as specified or shown on Drawings.
- 1.3.2.8 Box covers, types and sizes to match respective boxes and/or wiring devices as required, complete with screwed covers.

2	EXECUTION
2.1	INSTALLATION
2.1.1	Wires and Cables and Accessories
2.1.2	All power and control wiring is to be installed in conduit.
2.1.2.1	Install wires and cables in raceways and boxes in accordance with OESC requirement and other regulatory bodies having jurisdiction.
2.1.2.2	Terminate conductors in supply panelboards and designated termination points as shown on Drawings and respective panelboard schedule, using approved wire terminating materials and accessories
2.1.2.3	Provide approved wire markers, complete wire numbers/identification, as per equipment manufacturer's wiring diagram or shop drawing as applicable, and in accordance with latest standards of OESC, CSA, OBC, and other Authorities having jurisdiction.
2.1.3	Raceway and Boxes
2.1.3.1	Install raceway, boxes, and necessary fittings, including supports, fasteners, and accessories, in compliance with current practices and standards by regulatory bodies having jurisdiction.
2.1.3.2	Route exposed raceway neatly, parallel to and perpendicular to building lines, and equally-spaced when in groups with other raceway .
2.1.3.3	Fasten and support boxes independent from raceway supports.
2.1.3.4	Use proper outlet boxes, device boxes to suit type of raceway and installation for general wiring in accordance with standards and practices by regulatory bodies and authorities having jurisdiction.
2.1.3.5	Thoroughly clean raceway and boxes, clear of obstructions, prior to wire and cable pulling.
2.1.3.6	Provide empty conduits and tubing with pulling cord secured at both ends, and cap for future wire installation. Provide blank cover for installed empty boxes.
2.1.3.7	TESTING AND INSPECTION
2.1.3.8	Conduct visual inspection at times for signs of physical damages or defects prior to and after installation.
2.1.3.9	Test installed equipment and wiring for grounds and short-circuit upon completion of work. See also Section 16010: General Electrical Requirements for additional instructions.

**End of Section.** 

# APPENDIX 'A' Supplementary Conditions to CCDC2

## SUPPLEMENTARY CONDITIONS

The Standard Construction Document CCDC-2 2008 for Stipulated Price Contract, 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.

All references in this contract to the *Owner* shall refer to the entity identified in the Agreement Between *Owner* and *Contractor*, but all rights, benefits, or entitlements reserved to the *Owner* under the terms of this contract shall equally accrue to and be jointly or severally enforceable by *Owner*.

Where an Article, Definition, General Condition or paragraph thereof is deleted by these Supplementary Conditions, the numbering of the remaining Article, Definition, General Conditions or paragraphs shall remain unchanged, and the numbering of the deleted item will be retained, unused.

# AGREEMENT BETWEEN OWNER AND CONTRACTOR

## **ARTICLE A-9 – CONFLICT OF INTEREST**

Add new Article A-9 – Conflict of Interest:

- 9.1 The Contractor, all of the Subcontractors, and any of their respective advisors, partners, directors, officers, employees, agents, and volunteers shall not engage in any activity or provide any services where such activity or the provision of such services creates a conflict of interest (actually or potentially, in the sole opinion of the Owner) with the provision of the Work pursuant to the Contract. The Contractor acknowledges and agrees that a conflict of interest includes the use of Confidential Information where the Owner has not specifically authorized such use.
- 9.2 The Contractor shall disclose to the Owner, in writing, without delay any actual or potential situation that may be reasonably interpreted as either a conflict of interest or a potential conflict of interest, including the retention of any Subcontractor or Supplier that is directly or indirectly affiliated with or related to the Contractor.
- 9.3 A breach of this Article by the *Contractor*, any of the *Subcontractors*, or any of their respective advisors, partners, directors, officers, employees, agents, and volunteers shall entitle the *Owner* to terminate the *Contract*, in addition to any other rights and remedies that the *Owner* has in the *Contract*, in law, or in equity.

#### **DEFINITIONS**

Add the following definitions:

a. Affected Party and Affected Parties

Affected Party and Affected Parties have the meaning set out in GC 13.6.4

## b. As-Built Drawings

As-Built Drawings means drawings prepared by the Contractor by marking on a copy of the Drawings the changes from the Drawings which occur during construction including, but are not limited to the exact location of major building components that were shown generally on the Drawings.

## GENERAL CONDITIONS OF THE STIPULATED PRICE CONTRACT

## GC 1.1 CONTRACT DOCUMENTS

- Add new sentence to the end of paragraph 1.1.6:
  - The Specifications and Drawings are divided into divisions and sections for convenience but shall be read as a whole and neither such division nor anything else contained in the Contract Documents will be construed to Place responsibility on the Consultant to settle disputes among the Subcontractors and Suppliers or as between them and the Contractor with respect to such divisions.
- .2 Add new subparagraph 1.1.7.5:
  - 1.1.7.5 noted materials and annotations shall take precedence over graphic indications.
- .3 <u>Delete</u> paragraph 1.1.8 in its entirety and substitute new paragraph 1.1.8:
  - 1.1.8 The Owner shall provide the Contractor, without charge, a PDF digital copy of the Contract Documents. The Contractor is responsible for printing of copies.

## GC 1.4 ASSIGNMENT

- .1 <u>Delete</u> paragraph 1.4.1 in its entirety and <u>substitute</u> new paragraph 1.4.1:
  - 1.4.1 The Owner may assign the Contract or a portion thereof without the consent of the Contractor, where such assignment is to an entity undertaking the Project. The Contractor may not assign the Contract or a portion thereof without the consent of the Owner, and the granting of such consent shall be in the Owner's discretion, not to be unreasonably withheld.

## GC 2.4 DEFECTIVE WORK

- .1 Add new subparagraphs 2.4.1.1 and 2.4.1.2:
  - 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 Owner or the Consultant.
  - 2.4.1.2 When applicable, the *Contractor* shall give priority to the correction of any defective work or deficiencies which the *Owner* determines adversely affect its day-to-day operations.

# GC 3.1 CONTROL OF THE WORK

- Add new paragraph 3.1.3:
  - 3.1.3 Prior to commencing the *Work*, the *Contractor* shall verify, at the *Place of the Work*, all relevant measurements and levels necessary for the proper completion 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 exact locations are not apparent in the *Contract Documents*, the *Contractor* shall immediately

notify the Consultant in writing and obtain Supplemental Instructions from the Consultant before proceeding with any part of the affected work.

# GC 3.2 CONSTRUCTION BY OWNER OR OTHER CONTRACTORS

- Add new subparagraph 3.2.3.4:
  - 3.2.3.4 Subject to General Condition 9.4 CONSTRUCTION SAFETY, where paragraph 3.2.4 of General Condition 3.2 CONSTRUCTION BY OWNER OR OTHER CONTRACTORS applies, for the *Owner's* own forces and for other contractors performing work identified in the *Contract Documents*, assume overall responsibility for compliance with all aspects of the applicable health and safety legislation in the *Place of the Work*, including all of the responsibilities of the constructor as that term is defined in the *Occupational Health and Safety Act*, R.S.O 1990, c. O.1, as amended.

# GC 3.4 DOCUMENT REVIEW

- Delete paragraph 3.4.1 in its entirety and <u>substitute</u> new paragraph 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 be undertaken 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 Contractor 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 through the exercise of the required standard of care. 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.
- .2 Add new paragraph 3.4.2:
  - 3.4.2 If, at any time, the *Contractor* finds errors, inconsistencies, or omissions in the *Contract Documents* or has any doubt as to the meaning or intent of any part thereof, the *Contractor* shall immediately notify the *Consultant*, and request a *Supplemental Instruction, Change Order*, or *Change Directive*, as the case may require. Neither the *Owner* nor the *Consultant* will be responsible for the consequences of any action of the *Contractor* based on oral instructions.

# GC 3.8 LABOUR AND PRODUCTS

- .1 <u>Delete</u> paragraph 3.8.2 and replace with new paragraph 3.8.2:
  - 3.8.2 Unless otherwise specified in the Contract Documents, Products provided shall be new and as specified. The *Contractor* shall not provide substitutions for specified Products without the express written consent of the Consultant and the Owner.
- .2 Add new paragraph 3.8.4:
  - 3.8.4 The *Contractor* shall comply with all requirements set out in the *Fair Wage Program Labour Conditions*. The hours of work, the rates of wages paid,

and the working conditions shall be in accordance with the Labour Conditions and applicable Schedule of Fair Wage Rates, included therein, as amended from time to time.

# GC 3.11 USE OF THE WORK

- Add new paragraph 3.11.3:
  - 3.11.3 The *Contractor* shall abide by and enforce directives and policies regarding signs, advertisements, fires and smoking at the *Place of the Work* as directed by the *Owner*.

Add new General Conditions 3.14, 3.15, and 3.16:

## GC 3.14 PERFORMANCE BY CONTRACTOR

In performing its services and obligations under the *Contract*, the *Contractor* shall exercise the 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 performance of the *Contractor's* obligations, duties, and responsibilities shall be judged against this standard. The *Contractor* shall exercise the same standard of care, skill, and diligence in respect of any *Products*, personnel, or procedures which it may recommend to the *Owner*.

- 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 any of its appointed representatives, subject to the Owner's approval, in the event of death, incapacity, removal or resignation; and
  - .3 there are no pending, threatened or anticipated claims that would have a material effect on the financial ability of the *Contractor* to perform its work under the *Contract*.

## GC 3.15 RIGHT OF ENTRY

3.15.1 The Owner shall have the right to enter or occupy the Work in whole or in part for the purpose of placing fittings and equipment or for other uses before Substantial Performance of the Work, if, in the reasonable opinion of the Consultant and Contractor, such entry or occupation does not prevent or substantially interfere with the Contractor's completion of the Contract within the Contract Time. Such entry or occupation shall not be considered as acceptance of the Work or in any way relieve the Contractor from responsibility to complete the Contract.

## GC 4.1 CASH ALLOWANCES

- .1 <u>Delete</u> paragraph 4.1.4 in its entirety and <u>substitute</u> new paragraph 4.1.4:
  - 4.1.4 Where the actual cost of the Work under any cash allowance exceeds the

amount of the allowance, any unexpended amounts from other cash allowances shall be reallocated, at the *Consultant's* direction, to cover the shortfall, and, in that case, there shall be no additional amount added to the *Contract Price* for overhead and profit. Only where the actual cost of the *Work* under all cash allowances exceeds the total amount of all cash allowances shall the *Contractor* be compensated for the excess incurred and substantiated, plus an amount for overhead and profit on the excess only, as set out in the *Contract Documents*.

- .2 <u>Delete</u> paragraph 4.1.5 in its entirety and <u>substitute</u> 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 without any adjustment for the Contractor's overhead and profit on such amount.
- .3 Add new paragraph 4.1.8:

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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.

# GC 5.2 APPLICATIONS FOR PROGRESS PAYMENT

- Add to the end of paragraph 5.2.7 the following new sentence:
  - 5.2.7 Any *Products* delivered to the *Place of the Work* but not yet incorporated into the *Work* shall remain at the risk of the *Contractor* notwithstanding that title has passed to the *Owner* pursuant to General Condition 13.1 OWNERSHIP OF MATERIALS.

# GC 5.4 SUBSTANTIAL PERFORMANCE OF THE WORK

- .1 <u>Delete</u> paragraph 5.4.3 in its entirety and <u>substitute</u> new paragraph 5.4.3:
  - 5.4.3 Immediately prior to the issuance of the certificate of Substantial Performance of the Work, the Contractor, in consultation with the Consultant, shall establish reasonable dates for finishing the Work and correcting deficiencies.
- .2 <u>Add</u> new paragraphs 5.4.4, 5.4.5, 5.4.6, 5.4.7, 5.4.8 and 5.4.9:
  - 5.4.4 Within 7 calendar days of receiving a copy of the certificate of Substantial Performance of the Work signed by the Consultant, the Contractor shall publish a copy of the certificate in a construction trade newspaper (as that term is defined in the Construction Act or the regulations promulgated thereunder) and shall provide to the Consultant and the Owner the date of publication and the name of the construction trade newspaper in which the publication occurred. If the Contractor fails to comply with this provision, the Owner may publish a copy of the certificate and charge the Contractor with the costs so incurred.
  - 5.4.5 Prior to submitting its written application for *Substantial Performance of the Work*, the *Contractor* shall submit to the *Consultant* all:
    - .1 guarantees;

- .2 warranties:
- .3 certificates;
- .4 testing and balancing reports;
- .5 distribution system diagrams;
- .6 spare parts; maintenance manuals; keys
- .7 additional stock
- .8 samples:
- existing reports and correspondence from authorities having jurisdiction in the *Place of the Work*;
- .10 As-Built Drawings

and other materials or documentation required to be submitted under the *Contract*, together with written proof acceptable to the *Owner* and the *Consultant* that the *Work* has been substantially performed in conformance with the requirements of municipal, governmental, and utility authorities having jurisdiction in the *Place of the Work*.

5.4.6 Where the *Contractor* is unable to deliver the documents and materials

Project in a material way, the failure to deliver shall not be grounds for the Consultant to refuse to certify Substantial Performance of the Work. If the Contractor fails to deliver any of the materials required in subparagraphs 5.4.5.7 or 5.4.5.8, the Consultant shall retain from the payment of holdback under General Condition 5.5 - PAYMENT OF HOLDBACK UPON SUBSTANTIAL PERFORMANCE OF THE WORK, the amount set out in paragraph 5.4.7, until the materials required pursuant to subparagraphs 5.4.5.7 or 5.4.5.8 are delivered, provided the Owner, within 40 calendar

days after publication of the applicable certification or declaration of Substantial Performance of the Work, publishes a notice of non-payment in the form prescribed by the Construction Act.

- 5.4.7 The amount to be retained by the *Consultant* as contemplated in subparagraphs 5.2.10 and 5.4.6 is as follows:
  - .1 where the *Contract Price* is less than \$100,000 the amount to be retained is \$5,000;
  - .2 where the *Contract Price* is greater than \$100,000 but less than \$500,000, the amount to be retained is 5% of the *Contract Price*;
  - .3 where the *Contract Price* is greater than \$500,000 but less than \$5,000,000, the amount to be retained is the greater of \$25,000 or 3% of the *Contract Price*;
  - .4 where the *Contract Price* is greater than \$5,000,000, the amount to be retained is 1.5% of the *Contract Price* up to a maximum of \$1,000,000.00.
- 5.4.8 Except for payment of holdback, from which amounts can only be retained or withheld in accordance with the *Construction Act*, should the *As-Built Drawings* not be delivered in accordance with subparagraph 5.2.10 or any documents or materials not be delivered in accordance with paragraph 5.4.5 by the earlier of 50 days following the date of *Substantial Performance of the Work* and the submission of the *Contractor's* application for final payment under paragraph 5.7.1 of General Condition 5.7 FINAL PAYMENT, then the amount previously retained pursuant to paragraph

5.2.10 or 5.4.7 shall be forfeit to the *Owner* as compensation for the damages deemed to have been incurred by the *Owner*, and not as a penalty, arising from the failure to deliver the documents or materials, and the *Contract Price* shall be reduced accordingly.

- Together with the submission of its written application for Substantial Performance of the Work, the Contractor shall submit to the Consultant and to the Owner a statutory declaration setting forth in reasonable detail any then outstanding and unresolved disputes or claims between the Contractor and any Subcontractor or Supplier, including any claims allegedly arising from delay, which are, directly or indirectly, related to any then outstanding or anticipated disputes or claims between the Contractor and the Owner, and this disclosure shall, at a minimum:
  - .1 identify the parties involved;
  - .2 identify the amount in dispute;
  - .3 provide a brief statement summarizing the position of each party;
  - include copies of any correspondence or documents in support of either party's position;
  - .5 include copies of any documents of any court or arbitration process related to the matter;
  - .6 identify the dispute or claim between the *Contractor* and the *Owner* to which the matter relates; and
  - .7 include a copy of any written agreement or a summary of any oral agreement between the parties related to resolution of the matter.

The disclosure requirements detailed herein are of a continuing nature and survive completion of the *Work*. Accordingly, the *Contractor* shall supplement the information provided with the original statutory declaration with additional materials pertaining to new or existing disputes or claims, as they become available. The *Contractor* shall not be entitled to recover from the *Owner* any amount pertaining to any claim or dispute referred to in this paragraph, if the provisions of this paragraph have not been fully complied with. For greater certainty, the *Contractor* is not obliged to make the aforementioned disclosure with respect to any dispute or claim that is not related to or does not touch upon any then outstanding and unresolved dispute or claim between the *Contractor* and the *Owner*.

# GC 5.5 PAYMENT OF HOLDBACK UPON SUBSTANTIAL PERFORMANCE OF THE WORK

- .1 Add new subparagraph 5.5.1.3:
  - 5.5.1.3 submit a statement that no written notices of lien have been received by it.
- .2 <u>Delete</u> from line 1 of paragraph 5.5.2, the words, "the statement" and <u>substitute</u> the words:

"the documents".

- .3 <u>Delete</u> paragraph 5.5.3 in its entirety.
- .4 <u>Defete</u> paragraph 5.5.4 in its entirety and <u>substitute</u> new paragraph 5.5.4:
  - 5.5.4 The statutory holdback amount authorized by the certificate for payment referred to in paragraph 5.5.2 is due and payable on the day following the

expiry of the holdback period specified in the Construction Act for the retention of holdback funds following Substantial Performance of the Work, unless (i) a claim for lien has been registered against title to the Place of the Work; (ii) the Owner has received a valid written notice of lien in respect of the Work; or (iii) the Owner has published a notice of non-payment in the form prescribed by the Construction Act prior to the 40th calendar day following the publication of the certificate of Substantial Performance of the Work.

## GC 5.7 FINAL PAYMENT

- .1 <u>Delete</u> paragraph 5.7.1 in its entirety and <u>substitute</u> new paragraph 5.7.1:
  - 5.7.1 When the *Contractor* considers that the *Work* is completed, the *Contractor* shall submit an application for final payment. The *Contractor's* application for final payment shall be accompanied by any documents or materials not yet delivered pursuant to paragraph 5.4.5. The *Work* shall be deemed not to be performed until all of the aforementioned documents have been delivered.
- .2 <u>Delete</u> from the first line of paragraph 5.7.2 the words, "calendar days" and <u>substitute</u> the words:

"Working Days".

.3 <u>Delete</u> from the second line of paragraph 5.7.4 the words, "calendar days" and <u>substitute</u> the words:

"Working Days".

## GC 6.2 CHANGE ORDER

- .1 Add new paragraphs 6.2.3, 6.2.4, 6.2.5 and 6.2.6 as follows:
  - 6.2.3 The *Contractor* may apply mark-ups for overhead and profit to approved changes to the *Contract Price* as follows:
    - .1 10% for work carried out by the Contractor's own forces; and
    - .2 5% for work carried out by Subcontractors.

Similarly, *Subcontractors* shall be entitled to apply mark-up for overhead and profit as follows:

- .3 10% for work carried out by their own forces; and
- .4 5% for work carried out by their subcontractors.
- 6.2.4 In no event shall the maximum aggregate mark-up applied by all levels of contract for overhead and profit exceed 40% of an approved change.
- 6.2.5 Where the cost of a proposed change is a credit to the *Contract Price*, such credit shall be exclusive of the *Contractor's* overhead and profit.

The Contractor's overhead includes without limitation all site and head office costs including head office personnel, insurance and bonding (except where additional bonding is at the Owner's expense pursuant to subparagraph 11.2.3), traveling costs, financing costs including those related to hold back; the salaries, premiums for overtime or shift time unless otherwise approved by the Owner in writing prior to the Work being performed, and other miscellaneous employee benefits of superintendents and sub-trade superintendence, engineers, timekeepers, accountants, clerks, watch persons and security, office administration; processing correspondence. changes, shop drawings, engineering, As-Built Drawings, maintenance manuals and all other documents required to be provided prior to certification of Substantial Performance of the Work, costing and accounting, payroll, technical staff, and all other site supervision staff above foreperson employed directly on the Work; coordination with other trades affected, use of temporary offices, plant, tools and equipment including operators, sheds, storage compounds and other general temporary site support facilities and all utilities used therein; first aid. safety and protection measures, including training; licences and permits; scheduling; temporary protection; daily clean up; disposal; garbage chute; scaffolding; hoisting and unloading; commissioning; cutting and patching, health and Safety, cleanup and shall be applied to both extras and credits equally.

## GC 6.3 CHANGE DIRECTIVE

6.2.6

- .1 <u>Delete</u> subparagraph 6.3.7.1(1) and replace it with:
  - "(1) carrying out the work, including necessary supervisory services;"
- .2 <u>Delete</u> subparagraph 6.3.7.1(2) and replace it with
  - "(2) intentionally left blank."
- .3 Amend subparagraph 6.3.7.1(3) so that, as amended, it reads:
  - engaged in the preparation of *Shop Drawings*, fabrication drawings, coordination drawings and *As-Built Drawings*: or..."
- .4 Amend subparagraph 6.3.7.1(4) so that, as amended, it reads:
  - "(4) including clerical staff engaged in processing changes in the Work."

## GC 6.4 CONCEALED OR UNKNOWN CONDITIONS

- Add new paragraph 6.4.5:
  - 6.4.5 If the Contractor was given access to the Place of the Work prior to the submission of the bid on which the Contract was awarded, then the Contractor confirms that it carefully investigated the Place of the Work and, in doing so, applied to that investigation the degree of care and skill required by paragraph 3.14.1. In those circumstances, notwithstanding the provisions of paragraph 6.4.1, the Contractor is not entitled to an adjustment to the Contract Price or to an extension of the Contract Time for conditions which could reasonably have been ascertained by the Contractor by such careful investigation, or which could have been reasonably inferred from the material provided with the Contract Documents. In those circumstances, should a claim arise, the Contractor will have the burden of establishing that it could not have discovered the materially different conditions from a careful investigation, because of restrictions placed on

its access or inferred the existence of the conditions from the material provided with the *Contract Documents*.

## GC 6.5 DELAYS

1 Add new paragraph 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 directly or indirectly employed or engaged by the Contractor, 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, but not limited to, the cost of all additional services required by the Owner from the Consultant or any Sub consultants, project managers, or others employed or engaged by the Owner.

## C 9.1 PROTECTION OF WORK AND PROPERTY

- .1 Add new paragraph 9.1.5:
  - 9.1.5 With respect to any damage to which paragraph 9.1.4 applies, the *Contractor* shall neither undertake to repair or replace any damage whatsoever to the work of other contractors, or to adjoining property, nor acknowledge that the same was caused or occasioned by the *Contractor*, without first consulting the *Owner* and receiving written instructions as to the course of action to be followed from either the *Owner* or the *Consultant*. Where, however, there is danger to life, the environment, or public safety, the *Contractor* shall take such emergency action as it deems necessary to remove the danger.
- .2 Add new paragraph 9.1.6:
  - 9.1.6 The Contractor shall be responsible for securing the Place of Work at all times and shall take all reasonable precautions necessary to protect the Place of Work, its contents, materials (including Owner-supplied materials) and the public from loss or damage during and after working hours. Where the Consultant or the Owner deems the provision of security guard services to be necessary, the Contractor shall provide those services at the Owner's expense.

# **GC 9.4 CONSTRUCTION SAFETY**

- .1 Add new paragraphs 9.4.2, 9.4.3 and 9.4.4:
  - 9.4.2 Prior to the commencement of the *Work*, the *Contractor* shall submit to the *Owner*.
    - .1 a current Workplace Safety & Insurance Board Clearance Certificate;
    - .2 copies of the Contractor's insurance policies having application to the Project or certificates of insurance, at the option of the Owner;
    - .3 documentation setting out the Contractor's in-house safety

programs;

- a copy of the Notice of Project filed with the Ministry of Labour naming itself as "constructor" under the Occupational Health and Safety Act, R.S.O 1990, c. O.1, as amended.
- 9.4.3 The Contractor shall indemnify and save harmless the Owner, its agents, officers, directors, employees, consultants, successors, appointees, and assigns from and against the consequences of any and all safety infractions committed by the Contractor under the Occupational Health and Safety Act, R.S.O 1990, c. O.1, as amended, including the payment of legal fees and disbursements on a solicitor and client basis. Such indemnity shall apply to the extent to which the Owner is not covered by insurance, provided that the indemnity contained in this paragraph shall be limited to costs and damages resulting directly from such infractions and shall not extend to any consequential, indirect or special damages.
- 9.4.4 The Owner undertakes to include in its contracts with other contractors and in its instructions to its own forces the requirement that the other contractor or its own forces, as the case may be, comply with the policies and procedures of and the directions and instructions from the Contractor with respect to occupational health and safety and related matters. Prior to admission to the Place of the Work, the Contractor may, as a condition of admission, require any other contractor or the Owner's own forces to sign a written acknowledgement in the following form:

## Acknowledgement

The undersigned acknowledges that the *Work* it will perform on behalf of the *Owner* requires it to enter a *Place of the Work* which is under the total control of a *Contractor* that has a *Contract* with the *Owner*, pursuant to which the *Contractor* has assumed overall responsibility for compliance with all aspects of the applicable health and safety legislation, including all the responsibilities of the "constructor" under the *Occupational Health and Safety Act*, R.S.O 1990, c. O.1, as amended, as well as responsibility to co-ordinate and schedule the activities of our *Work* with the *Work* of the *Contractor* under its *Contract*. The undersigned agrees to comply with the *Contractor's* directions and instructions with respect to health, safety, co-ordination, and scheduling and acknowledges that its failure to do so will be cause for termination of employment or of the undersigned's *Contract* with the *Owner*, as the case may be. The undersigned also agrees to have the *Contractor* named as an additional insured on any comprehensive liability insurance policy, where such insurance is required.

Name:	
Title:	
Date:	

## GC 9.5 MOULD

.1 Add to subparagraph 9.5.2.3 immediately before the comma, the following new words:

"and as a result of the delay"

.2 <u>Delete</u> subparagraph 9.5.3.4 in its entirety.

# GC 10.2 LAWS, NOTICES, PERMITS, AND FEES

- Add to the end of paragraph 10.2.4 the following words:
  - "The Contractor shall notify the Chief Building Official or the registered code agency, where applicable, of the readiness, substantial completion, and completion of the stages of construction set out in the Ontario Building Code. The Contractor shall be present at each site inspection by an inspector or registered code agency. If any laws, ordinances, rules, regulations, or codes conflict, the more stringent shall govern."

## GC 10.4 WORKERS' COMPENSATION

.1 Add to subparagraph 10.4.1 immediately after the first comma, the following new words:

"again with each application for progress payment, and"

.2 Add to the beginning of subparagraph 10.4.2 the following new words:

"The Contractor shall ensure that each Subcontractor complies with the workers' compensation legislation at the Place of the Work.

# **END OF DOCUMENT**



# Letter of Recommendation

MET ENERGY SYSTEMS

Consulting Engineering

477 Queen Street East, Suite 304

Sault Ste. Marie, ON P6A 1Z5

Tel: (705) 942-3344

Fax: (705) 942-3344

ATTENTION:

Bill Goulding

DATE:

Jan 6 2023

COMPANY:

City of Elliot Lake

MET REF.:

22M11

FROM:

Matthew Raiala

DOCUMENT NO.:

L-001

COPIES:

Tim Janzen P.Eng (MET)

SUBJECT:

PROJECT 22M11 - DOWNTOWN ARTS CENTRE - ELLIOT LAKE, ON

NO. PAGES:

4 (including this page)

Bill,

We have reviewed the bid submission provided and recommend the project be awarded to the low bidder, Quinan Construction Limited.

The submission by Quinan Construction Limited is complete as per the technical specifications.

Bidder Name	Base Bid Amount
Quinan Construction Limited	\$1,320,000.00

In review of the Contractor's submission which is attached, we recommend contract award to **Quinan Construction Limited** in the amount of \$1,320,000.00 (plus HST). MET Energy Systems has discussed the listed schedule with Quinan and they believe the schedule can be improved.

If you have any questions or concerns, feel free to contact us.

Regards,

Matthew Rajala

MET ENERGY SYSTEMS

22M11 Downtown A Elizabeth Wa	irts Centre	DER FORM	00300
Elliott Lake,			Page 1
То:	MET Energy Systems 477 Queen Street East, Su Sault Ste. Marie, ON	lite 304	
	(See Section 00100 - Instruction submitting tenders)	ction to Bidders - Article 1.12 for	r instructions for
	Name: Quinan Construction Li 55 Progress Drive, Uni		
Address:	Orillia, ON L3V 0T7		
		705 005	2004
i elepnone <u>:</u>	705-325-7704	Fax: 705-325	-2061
PRICING			
		abour, material and services re- Contract for the completion of:	quired to complete the
	Downtown Arts Centre Elizabeth Walk Elliott Lake, ON		
According to	all Drawings, Specifications an	d issued Addendum No.'s	1 through 2
Aternate Pric	e #1 – Roofing and back wall i	restoration	\$ 98,000.00
Alternate Pric	e #2 – Removal of Front Cano	py Lip	\$ 28,000.00
Base Tender	Total (including All Allowance	s and Separate Prices)	
For the stipula	ated Lump Sum Price of (Exclu	sive of HST):	\$ 1,320,000.
الهيم غيرت	LLICA THREE HUN	THOUSE S	THOUSAND DOLLERS
Written amou	int)		
larmonized S	sales Tax in addition to the bas	e tender amount listed above	\$ 171,600.00
LTERNATE	MATERIALS		
		proposed for substitution and the	

Page 2

I/We understand that the price(s) submitted in the bid is/are based upon the acceptance of the bid within forty-five (45) days of the bid closing date. In cases where the expiry date of the acceptance period falls on a Saturday, Sunday, or holiday, the time for acceptance shall be extended to the first following business day.

## **COMPLETION DATE**

I/We estimate that the earliest that the Contract could be completed is			
Weeks from commencement of the Work.			
Starting Date: FEBRUARY 6, 2-23 Ending Date: Aug	455 11,2023		

I/We also submit the names of our proposed Sub-Contractors from whom sub-bids were received, and upon which my/our Bid is based. I/We also submit the sub-bid prices for the trades listed.

	TRADE	COMPANY	SUB BID PRICE
1	Mechanical	MBS PLUMBING	\$160,000-
2	Electrical	BLANCHETTIL	\$ 194,269 -
3	Plumbing	MBS PLUMBISG	IN MECHANICIFL
4	Drywall	OWN FORCES	\$120,000-
5	Painting	OWN FORCES	\$ 23,000 -
Page 1 Calabi	No in	ESTIMATED	\$ 50,000

22M11 Downtown Arts Centre Elizabeth Walk	TENDER FORM	00300
Elliott Lake, ON		Page 3
SIGNATURES AND SEAL		
Contractor's Name and Address: Quinan Construction Limited		
55 Progress Drive, Unit 1		
Orillia, ON L3V 0T7		
Seal:	Authorized Signatures:	that feller
	Name: Mix	
	Title: Pre	esident
	Signature:	
	Name:	
	Title:	
Vitness: Susan Small	Signature:	son Amaul

**End of Section** 

Title: Estimating Assistant

Date: JANUARY 6,2013