

ÉSC de La Vérendrye Lighting Upgrade Thunder Bay, Ontario

# **BID SPECIFICATIONS**



Project# 139-12438-82

Feburary 2021

WSP CANADA INC. 1269 Premier Way Thunder Bay, ON P7B 0A3 T: 807-625-6700 F: 807-623-4491 www.wsp.com WSP Project No. 139-12438-82 Feburary 2021 TITLE **SECTION PAGES** Division 00 - Procurement and Contracting Requirements 00 00 10 Table of Contents 1 00 02 00 Instructions to Bidders 11 00 03 00 Bid Form & Bid Form Appendices 10 00 08 10 **Supplementary Conditions** 33 Division 01 - General Requirements 01 00 05 Summary of Work 2 General Requirements 01 00 10 10 Appendix A: **Drawings** 15 6000 Specifications Sheet 1 of 2 6000 Specifications Sheet 2 of 2 6001 Existing Lower Floor Lighting Layout – West Wing 6002 Existing Lower Floor Lighting Layout - East Wing 6003 Existing Upper Floor Lighting Layout - West Wing 6004 Existing Upper Floor Lighting Layout - East Wing 6005 New Lower Floor Lighting Layout - West Wing 6006 New Lower Floor Lighting Layout - East Wing 6007 New Upper Floor Lighting Layout – West Wing 6008 New Upper Floor Lighting Layout - East Wing 6009 Room Matrix 6010 Existing/New Lower Floor Emergency Lighting Layout - West Wing 6011 Existing/New Lower Floor Emergency Lighting Layout - East Wing 6012 Existing/New Upper Floor Emergency Lighting Layout – West Wing 6013 Existing/New Upper Floor Emergency Lighting Layout - East Wing

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**END OF SECTION** 

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## PART 1 GENERAL

#### 1.1 INVITATION

.1 Bid Call:

Offers signed under seal, executed and dated will be received at the Board Office of the Owner, Conseil scolaire de district catholique des Aurores boreales, located at 175 rue High Nord no later than 3:30:00 pm (EST), March 4<sup>th</sup>, 2021.

Bid to be labeled:

## ÉSC de La Vérendrye – Lighting Upgrade

- .2 Submit two original bids in one envelope.
- .3 In the event that more than one submission is received from the same Bidder, only the last submission received will be considered.
- .4 Faxed, Telephone, Telegraph or Electronic Mail Bids or Amendments to submitted Bids will not be accepted.
- .5 Amendments to a submitted Bid will be permitted if received in writing prior to the Bid Call Deadline stated above and if endorsed by the same party or parties who signed and sealed the originally submitted Bid. Amendments to the Bid price shall contain only the dollar value to add or subtract from the originally submitted Bid.
- .6 The Owner is not responsible to reimburse Bidders for any expenses, no matter how incurred, in the preparation of their Bid submission as required pursuant to the tender process.
- .7 The Owner will not consider and will return unopened any Bids received after the Bid Closing Deadline.

### 1.2 COMPLIANCE

- .1 The Bidder acknowledges that by submitting a Bid, it has accepted an offer by the Owner to enter into a "Bid contract" for the evaluation of Bids and the award of the Contract, if an award is made. The Bidder acknowledges that the terms of the "Bid contract" are represented by the Bid Documents.
- .2 Failure to submit a Bid which complies with the requirements of these Instructions to Bidders may cause the Owner to declare a Bid non-compliant.

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### 1.3 INTENT

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- .1 Intent of this Bid Call is to obtain an offer to perform work for the construction of the **ÉSC de La Vérendrye Lighting Upgrade** in Thunder Bay, Ontario for a Stipulated Price Contract, in accordance with the Contract Documents.
- .2 Refer to Section 01 00 05 Summary of the Work for a detailed description of the Work.
- .3 The Owner makes no representation, warranty or guarantee as to the accuracy of the information contained in the Contract Documents or issued by way of addenda. Any quantities shown or data contained in the Contract Documents or provided by way of addenda are estimates only and are for the sole purpose of indicating to Bidders the general size of the work. It is the Bidder's responsibility to avail itself of all the necessary information to prepare a tender in response to this Bid Call.
- .4 All of the provisions of this Bid Call are deemed to be accepted by each Bidder and incorporated into each Bidder's tender.

### 1.4 PROJECT IDENTIFICATION

- .1 The Project is identified as **ÉSC de La Vérendrye Lighting Upgrade**, Consultants file number **139-12438-82**, as prepared by WSP Consultants with Drawing List as indicated on Drawings and Specification Sections within the Table of Contents.
- .2 The Project Location is at 175 High Street North, Thunder Bay, Ontario.

## 1.5 BID CALL SCHEDULE

.1 The following is the schedule for the Bid Call:

.1 Issue Date of Bid Call: Feburary 10<sup>th</sup>, 2021,

.2 Mandatory Site Meeting: Feburary 16<sup>th</sup>, 2021, 4:00 p.m. (EST),

.3 Deadline for Questions: Feburary 23<sup>rd</sup>, 2021, 5:00 pm (EST),

.4 Deadline for Issuing Addenda: Feburary 26<sup>th</sup>, 2021, 5:00 pm (EST),

.5 Bid Call Deadline: March 4<sup>th</sup>, 2021, 3:30 pm (EST),

.2 The Bid Call Schedule is tentative only and may be changed by the Owner in its sole discretion at any time prior to the Bid Call Deadline.

### 1.6 CONTRACT/BID DOCUMENTS

- .1 Bid Form
- .2 Definitions
  - .1 Except as otherwise defined in these Instructions to Bidders, the defined terms in these Bid Documents are taken from the Contract. The term Contract is defined in the Agreement.
  - .2 Bid Documents: Contract Documents supplemented with Instructions to Bidders, Bid Form, and Bid Supplementary Forms identified therein,

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Agreement, Definitions and General Conditions of the CCDC2 - 2008 document, Supplementary Conditions, Specifications (per Table of Contents), Drawings (per Drawing List) and Addenda issued during Bidding period.

- .3 Bid, Offer, or Bidding: Act of submitting an offer under seal.
- .4 Bid Price: Monetary sum identified in Bid Form as an offer to perform required work.

#### .3 Availability

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Lighting Upgrade

- Bidders to obtain Bid Documents only through ConstructConnect. For further .1 information about ConstructConnect, visit website at www.app.constructconnect.com
- .2 Bid documents will also be available for viewing through the Construction Association of Thunder Bay. Contact the CATB for their services and terms of use.
- .3 The Bid Documents are made available only for the purpose of submitting Bids for the Project. Availability and/or use of the Bid Documents do not confer a licence or grant for any other purpose.
- .4 Immediately notify Bid Coordinator if Bid Documents are missing or incomplete or upon finding discrepancies or omissions.

#### Queries/Addenda .4

.1 Direct questions are to be provided in Email written form only to:

**WSP** 

Krzysztof Wozniak, P. Eng, Project Manager

Email: Wozniak@wsp.com

Bidder to Include the following as the Subject Line in the Email 139-12438-82 Questions

- .2 The Bid Coordinators are the sole contacts for the Bidders in respect of Bidding on this Project. A Bid may be disqualified where contact is made with any person other than the Bid Coordinators.
- Neither the Owner nor the Consultant will be responsible for instructions, .3 clarifications or amendments communicated orally.
- .4 The Bid Documents may only be amended by an addendum in accordance with this section. If the Owner, for any reason, determines that it is necessary to provide additional information relating to this Bid, such information will be communicated to all proponents by addenda by way of ConstructConnect. Each addendum shall form an integral part of the Bid Documents.
- If Bidders find discrepancies, omissions, errors, departures from building by-.5 laws, codes or good practice, and points considered to be ambiguous or conflicting, they shall bring them to the attention of the Bid Coordinator by email only, and not less than seven (7) Working Days before the Bid Call Deadline, so that the Bid Coordinator, if deemed necessary, issue instructions, clarifications or amendments by addendum to all Bidders prior to

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- the Bid Call Deadline. The Bid Coordinator will endeavour to issue such addenda at least four (4) Calendar Days prior to the Bid Call Deadline.
- Reply will be in form of an addendum by way of ConstructConnect. Each addendum shall form an integral part of the Bid Documents and their receipt shall be acknowledged in the space provided on the Bid Form.
- .7 Such addenda may contain important information including significant changes to the Bid Documents. Bidders are responsible for obtaining all addenda issued by the Bid calling authority.

## .5 Approved Equals

- .1 Where Bid Documents stipulate a particular product, substitutions will be considered by the Consultant up to seven (7) Working Days before the Question Deadline.
- .2 A request for substitution shall indicate the specification section of the specified product, the product name and number of the specified product, the product name and number of the substitution and other information that will allow the Consultant to make an informed decision including but not limited to the substitutions size and shape; available colour selection; any minor variance from the specified product; proprietary product specifications, drawings or brochures.
- .3 When a request to substitute a product is made, the Consultant may approve the substitution and inform the Bid Coordinator to issue an Addendum.

  Verbal approval is only binding when confirmed by written addenda.
- .4 In submission of substitutions to products specified, Bidders shall include in their Bid, any changes required in work to accommodate such substitutions. A later claim by Bidder for an addition to contract price because of changes in work necessitated by use of substitutions shall not be considered.

### .6 Alternates/Unit Prices

- .1 General Contractors are invited to submit Unsolicited General Contractor Alternatives to the tendered price for alternative materials or methods not approved prior to the Bid Call Deadline.
- .2 Unsolicited General Contractor Alternatives will not be used to determine the lowest Bid and will only be used when approved by the Owner and the Contract Price will be adjusted accordingly.
- .3 Provide complete information on required revisions to other Work to accommodate each Unsolicited General Contractor Alternative, dollar amount of additions to or reductions from Bid Price, including revisions to other Work.
- .4 Unless Unsolicited General Contractor Alternatives are submitted in this manner and subsequently accepted, provide products as specified.
- .5 Invited Alternatives, Separate Prices and Unit Prices listed in Section 00 03 00 must be shown on the Bid Form. Tenders missing this information may be declared informal and are subject to rejection.

#### 1.7 HST

.1 The Ontario Government has harmonized their Provincial Sales Tax (PST) with the federal Goods and Services Tax (GST) to create a single, value added Harmonized Sales Tax (HST) effective July 1, 2010.

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- .2 The Harmonized Sales Tax (HST) is considered an applicable value added tax for the purpose of this Bid, however the Bid price shall NOT include Value Added Taxes. All other eligible taxes shall be included in the Bid price. The successful contractor will indicate on each application for payment as a separate amount the appropriate HST the Owner is legally obliged to pay.
- .3 Any taxes or increases to taxes announced prior to the date of the issuance of the Bid Documents and scheduled to come into effect subsequent to it shall be taken to be included in the Bid price.

### 1.8 PERMITS AND FEES

- .1 The Owner will obtain and pay for the Building Permit (if applicable).
- .2 Contractors are to obtain and pay for any other required permits
  - .1 Electrical Safety Authority (ESA)

### 1.9 QUALIFICATIONS

- .1 The Bidder shall, in addition to ratings and qualifications stated elsewhere in the bid documents, be competent and possess an acceptable experience level verifying its capability of successfully performing the various items of work involved in this project.
- .2 Complete the following appendices to the bid form which shall form part of the bid documents:
  - .1 Bidder's senior staff to be assigned to this project. Indicate supervisor who will be in attendance at the Place of the Work while work is being performed.
  - .2 Proposed subcontractors.

#### 1.10 INSURANCE

- .1 The Contractor shall provide General Liability insurance and all other insurances as per Section 00 80 10 Supplementary Conditions and the CCDC2 2008 Stipulated Price Contract document and the CCDC41 Insurance Requirements document.
- .2 The Contractor will be responsible for the payment of the deductable on all claims. The deductable will be in the amount of \$5,000.00.

### 1.11 MANDATORY PRE-BID MEETING

- .1 Mandatory Bidders Pre-Bid Meeting
  - .1 Bidders are required to participate in a Mandatory Pre-Bid Meeting on-site on **Feburary 16<sup>th</sup> 2021, 4:00 pm EST.** Meet at the Main Entrance.
  - .2 Representatives of Owner and Consultant will be in attendance.
  - .3 Information relevant to Bid Documents will be recorded in Addendum and issued via ConstructConnect.
  - .4 All attendees must ensure that they register their name and title as well as their company name with the Owner's Representative.

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- .5 The Purpose of this Mandatory On-site Briefing is to provide Proponents with access to the building to complete an overview of the scope of work. On-Site Briefing questions to be submitted in writing.
- .6 The Purpose of this Mandatory On-site Briefing is to provide Proponents with a briefing of the project scope and expectations including, but not limited to security requirements, access, movement throughout the facility etc.
- .7 Failure to so attend and register at the Mandatory On-site Briefing will result in disqualification of the Bidder's Submission.

#### 1.12 SITE ASSESSMENT

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#### .1 Site Examination

- .1 General Contractors and their sub-trades may review the site located in Thunder Bay, Ontario, during a scheduled site visit, or upon request. Nonscheduled visits must be arranged by appointment only. Contact the Owner's or Consultant's representative to arrange a site visit time.
- .2 Bidders should take note of existing site features and existing building conditions visible at time of tendering which may affect the work. No allowance will be made for additional costs and no claims will be entertained in connection with conditions which could reasonably have been ascertained by such investigation or other due diligence prior to submitting a Bid.
- .3 Contractors shall provide all work required to accommodate the existing conditions and to achieve the intent as shown regardless of whether such work is specifically indicated in the Contract Documents.

#### 1.13 **BID SUBMISSION**

#### .1 **Bid Price**

- .1 The Bid Form provides that the Bid price shall be provided in numbers only.
- .2 Where the Bid Forms require the Bidder to provide a breakdown of the Bid price, the Bid price shall govern in the case of conflict or ambiguity between the Bid price and the sum of the breakdown of the Bid price.

#### .2 Bid Ineligibility

- .1 Bids that are not originals, unsigned, improperly signed or sealed, conditional, illegible, obscure, contain arithmetical errors, erasures, alterations, or irregularities of any kind, may at the Owner's sole discretion, be declared non-compliant.
- Bids with Bid Forms and enclosures which are improperly prepared may, at .2 the Owner's sole discretion, be declared non-compliant.
- .3 Bids that fail to include Bid security, bonding or insurance requirements when requested at Bidding stage, may at the Owner's sole discretion, be declared non-compliant.

#### .3 Submissions

Bidders shall be solely responsible for delivery of their Bids in the manner .1 and time prescribed.

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- .2 Submit two copies of executed offer on Bid Forms provided, signed and sealed with corporate seal together with required Bid Security in a sealed, opaque envelope.
- .3 Fill in all blank spaces on the Bid Forms in ink or typewritten, providing all information requested. Spaces not used or not required to be filled in to be marked N/A. Failure to provide all requested information on the Bid Forms and failure to fill in all blank spaces may result in a Bid being declared noncompliant.
- Use only the Bid Forms issued as part of the Bid Documents for the Project. .4
- .5 Except where expressly set out to the contrary in this Bid Call or in the Bidder's tender, the tender and any accompanying documentation submitted by a Bidder shall become the property of the Owner and shall not be returned.

#### 1.14 **BID ENCLOSURES/REQUIREMENTS**

#### .1 **Bid Security**

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- .1 Bids shall be accompanied by Bid security in the form of a Bid Bond or Certified Cheque in the amount of not less than 10% of the Bid price, naming the Owner as obligee. Bid Bonds to be issued by a surety licensed to conduct surety and insurance business in Ontario.
- Use latest edition CCDC approved bond form. .2
- The Bid security shall remain valid for a period of forty-five (45) days from the .3 date of Bid submission.
- .4 Include costs of Bid security in Bid price.
- The Bid security of the Bidder whose Bid is accepted will be retained by the .5 Owner to compensate the Owner for the damages it will suffer should the successful Bidder fail to execute the Contract and/or fail to provide the specified performance security and/or evidence of insurance and other documents required by these Instructions to Bidders or by the Contract.
- The Bid security of the Bidder whose Bid is accepted will be returned after .6 the delivery of the specified performance security and evidence of insurance and other documents required by these Instructions to Bidders or by the Contract, and after the execution of the Contract.
- .7 The Bid security of all other Bidders will be returned after the execution of the Contract or after the expiry of this Bid process without an award of Contract or after the rejection of all Bids.
- .8 Bids not accompanied by the required Bid security and the required agreement to bond will be declared non-compliant by the Owner and rejected.

#### .1 Agreement to Bond

- Submit with Bid Form and Bid Bond, an Agreement to Bond, stating that Surety .1 providing Bid Bond is willing to supply 50% Performance Bond, and 50% Labor and Material Payment Bond.
- .2 Include cost of bonds in Bid Price.

#### .2 Performance Assurance

Accepted Bidder must provide an executed 50% Performance Bond, and 50% .1 Labor and Material Payment Bond.

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- .2 Include cost of bonds in Bid Price.
- .3 Bid Form Requirements.
  - .1 The Bidder, in submitting an offer, accepts the time period stated in Contract Documents for performing the Work. Completion date in Agreement must be completion time added to commencement date of the Work.
  - .2 Where required by the Bid Documents, a Bidder shall submit a List of Subcontractors the Bidder proposes to perform an item of the Work called for by the Contract. Failure of the Bidder to list Subcontractors and Suppliers, where required, or the listing by a Bidder of more than one Subcontractor or Supplier to perform or supply an item of work listed, may result in the Bid being declared non-compliant.
  - .3 Where the Bidder lists "Own Forces" in lieu of a Subcontractor, the Bidder shall carry out such item of the Work with its "Own Forces". Where "Own Forces" have been listed by the Bidder, the Owner reserves the right to obtain information from the Bidder and from third parties respecting the qualifications and experience of the Bidder's "Own Forces" for such item of the Work. If the Owner determines that the Bidders "Own Forces" are not sufficiently qualified or sufficiently experienced to undertake such item of the Work, the Owner in its sole and absolute discretion, may reject the Bid.

### .4 Bid Signing

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

### .5 Appendices to Bid Form

- .1 Appendix A Separate Prices: Include a listing of separate prices as specifically requested in Bid Documents.
- .2 Appendix B Alternatives: Include volunteered cost variations to Bid price.
- .3 Appendix C Itemized Prices: Include a listing of Itemized prices specifically requested in Bid Documents.
- .4 Appendix D Contractors Primary Project Staff.
- .5 Appendix E Subcontractors: Include names of all Subcontractors and portion of work Bidder will perform.
- .6 Appendix F References.

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- .6 Supplementary Bid Information
  - .1 Prior to commencing Work, the Contractor shall deliver to the Owner:
    - .1 A Workplace Safety Insurance Board Certificate in good standing with the Workplace Safety Insurance Board,
    - .2 Valid Performance Bonds, each bond to comply with the requirements of the Bid Documents.
    - .3 Stand alone certified true copies of insurance policies required by the Bid Documents naming the Owner and the Consultant as "additional insureds".

### 1.15 OFFER ACCEPTANCE/ REJECTION

- .1 Duration of Offer
  - .1 Bids shall remain open to acceptance, and irrevocable for a period of thirty (30) days after the Bid Call Deadline. Bidders will be formally notified of tender award and status of Bid as soon as practical. The Owner will provide a debriefing upon request to the unsuccessful Bidders. The Bidder must request a debriefing, in writing, within thirty (30) days after the Project has been publicly awarded.

### .2 Bid Clarifications

- .1 The Owner reserves the right to seek clarification and supplementary information relating to the clarification from Bidders after the Bid Call Deadline. The response received by the Owner from a Bidder shall, if accepted by the Owner, form an integral part of that Bidder's tender. The Owner reserves the right to interview any or all Bidders to obtain information about or clarification of their tenders. In the event that the Owner receives information at any stage of the evaluation process which results in earlier information provided by the Bidder being deemed by the Owner to be inaccurate, incomplete or misleading, the Owner reserves the right to reconsider the Bidders compliance with the requirements and adjust the Bidders ranking and compliance accordingly.
- .3 Reserved Rights of the Owner, the Owner may:
  - .1 make public the names of any or all Bidders:
  - .2 request written clarification or the submission of supplementary written information in relation to the clarification request from any Bidder and incorporate a Bidder's response to that request for clarification into the Bidder's tender:
  - .3 reject a Bidder's tender on the basis of:
    - .1 the Bid being limited by way of addition or omission of information,
    - .2 the requirements for Bid security not being satisfied,
    - it not being signed by an authorized person or it was not properly witnessed or sealed,
    - .4 it not being submitted on the prescribed Bid Form,
    - .5 changes being made to the Bid Form.
    - a financial analysis determining the actual cost of the tender when considering factors including quality, service, price and transition

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#### INSTRUCTIONS TO BIDDERS

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costs arising from the replacement of existing goods, services, practices, methodologies and infrastructure (howsoever originally established);

- .7 information provided by references,
- .8 the Bidder's past performance on previous contracts awarded by the Owner.
- .9 the information provided by a Bidder pursuant to the Owner exercising its clarification rights under this Bid Call process, or
- .10 other relevant information that arises during this Bid Call process;
- waive formalities and accept tenders which substantially comply with the requirements of this Bid Call;
- .5 verify with any Bidder or with a third party any information set out in a tender;
- .6 check references other than those provided by any Bidder;
- .7 disqualify any Bidder whose tender contains misrepresentations or any other inaccurate or misleading information;
- .8 disqualify any Bidder or the tender of any Bidder who has engaged in conduct prohibited by this Bid Call;
- .9 make changes, including substantial changes, to this Bid Call provided those changes are issued by way of addenda in a manner set out in the Bid Call;
- .10 select any Bidder other than the Bidder whose tender reflects the lowest cost to the Owner;
- .11 cancel this Bid Call process at any stage;
- .12 cancel this Bid Call process at any stage and issue a new Bid Call for the same or similar deliverables:
- .13 accept any tender in whole or in part;
- .14 discuss with any Bidder different or additional terms to those contemplated in this Bid Call or in any Bidder's tender;
- if a single tender is received, reject the tender of the sole Bidder and cancel this Bid Call process or enter into direct negotiations with the sole Bidder; or,
- .16 reject any or all tenders in its sole and absolute discretion;
- .4 These reserved rights are in addition to any other express rights or any other rights which may be implied in the circumstances and the Owner shall not be liable for any expenses, costs, losses or any direct or indirect damages incurred or suffered by any Bidder or any third party resulting from the Owner exercising any of its express or implied rights under this Bid Call.
- .5 By submitting its tender, the Bidder authorizes the collection by the Owner of the information set out under 1.14.3.6 and 1.14.3.7 in the manner contemplated in those subparagraphs.
- .6 The low Bid shall be determined on the basis of lowest Bid in accordance with Contract Documents on which Project is to be actually constructed, including those Alternatives and Separate Prices for which prices have been invited and which are to be incorporated in the Work. Unsolicited General Contractor Alternatives, not approved prior to the close of tender, will not be used to determine the Low Bid.

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- .7 In the event that the lowest Bid is over budget but within 15%, the Owner may choose to negotiate reductions in the Contract Price with the lowest Bidder only. Should the Owner be seeking reductions in excess of this amount the Owner may choose to re-tender the Project.
- .8 After acceptance by Owner, the Owner's Project Manager will issue to the successful Bidder, a written Bid acceptance.

### 1.16 LIMIT OF LIABILITY

- .1 The liability of the Bidder to the Owner for loss and damage arising out of the Bidder's breach of the "Bid contract" shall be limited to the lesser of the actual loss suffered by the Owner and the amount of Bid security described in paragraph 1.14.1 Bid Security.
- .2 The liability of the Owner to any Bidder for loss and damage arising in tort or for the breach by the Owner of the "Bid contract" shall be limited to the lesser of the amount of Bid security described in paragraph 1.14.1 Bid Security and the reasonable cost to the Bidder of preparing its Bid.

### 1.17 GOVERNING LAW OF THE BID CALL PROCESS

.1 This Bid Call process shall be governed by and construed in accordance with the laws of the Province of Ontario and the federal laws of Canada applicable therein.

### 1.18 COMMUNICATION

.1 Bidders shall not issue or make any statements or news release concerning their Bid, the Bid process, the Owner's evaluation of the Bids, or the Owner's award or cancellation of the Bid process without the express written consent of the Owner.

### 1.19 INFORMATION OBTAINED FROM THE OWNER

All information provided by or obtained from the Owner in any form in connection with this Bid Call either before or after the issuance of this Bid Call: (a) is the sole property of the Owner and must be treated as confidential; (b) is not to be used for any purpose other than replying to this Bid Call and the performance of any subsequent Contract; (c) must not be disclosed without prior written authorization from the Owner; and d) shall be returned by the Bidders to the Owner immediately upon the request of the Owner.

## PART 2 PART PRODUCTS – NOT USED

### PART 3 PART EXECUTION – NOT USED

#### **END OF SECTION**

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1.1	STIPULATED	PRICE TENDER
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**Project Title:** ÉSC de La Vérendrye – Lighting Upgrade

Location: 175, rue High Nord, Thunder Bay, ON P7A 8C7

Owner: Conseil scolaire de district catholique des Aurores boréales

Legal Name: Conseil scolaire de district catholique des Aurores boréales

175, rue High Nord, Thunder Bay, ON P7A 8C7 Address:

#### 1.2 **COMPANY/FIRM NAME**

.1	Bid by:		
	Legal Name of Bidder		
	Address		

#### 1.3 **ACCEPTANCE AND CONTRACT TIME**

- .1 If this Bid is accepted by the Owner within forty-five (45) days of the Bid closing date. and we receive written notice of this acceptance, we will:
  - Execute the Stipulated Price Contract CCDC 2 2008
- .2 The Owner requires that the Work under this contract be completed as quickly as possible. Substantial Performance is to be achieved no later than August 20, 2021, and Total Completion no later than September 3, 2021. This is based on an anticipated award date of March 5th, 2021.
- .3 The earliest on-site date is April 12<sup>th</sup>, 2021, outside of regular work hours. \*\*\* Existing lighting and controls in an area must remain fully functional until the time when scope of work for that area is to be executed in full.
- .4 Refer also to Section 01 00 05 Summary of Work.
- .5 The undersigned agrees to commence the Work immediately after award and to proceed continuously to complete all Work by the dates given above.

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### 1.4 BID PRICE

BID PRICE

The Bidder has carefully examined the Provisions, Plans, Specifications and Conditions referred to in the Schedule of Provisions, Plans, Specifications and Conditions attached hereto as this Contract. The Bidder understands and accepts the said Provisions, Plans, Specifications and Conditions and, for the prices set forth in this Tender, hereby offers to furnish all machinery, tools, apparatus and other means of construction, furnish all materials, except as otherwise specified in the Contract, and to complete the work in strict accordance with the Provisions, Plans, Specifications and Conditions referred to in the said Schedule.

(in CDN funds, excluding HST)	Ψ		_
HST:	\$		_
TOTAL BID PRICE	\$		_
The Total Bid Price, in writing, is:			
<u> </u>		dollars and	cents

Ф

- .2 The Bidder expressly warrants that the prices contained in this bid, whether as unit prices or lump sums, and whether for transportation or supply of materials or for services, are quoted in utmost good faith on his part, without any collusive arrangement or agreement with any other person, or partnership or corporation.
- .3 The Bidder expressly represents that he is not party or privy to any deceit tending to mislead the Owner into accepting his tender as a truly competitive bid whether to the prejudice, injury or benefit of the Owner.
- .4 This Bid is open to acceptance for a period of **thirty** (30) days from bid closing.

## 1.5 INTEREST

.1 Should either party fail to make payments as they become due under the terms of the contract or in an award by arbitration or court, interest at **prime plus one** percent per annum on such unpaid amounts shall also become due until payment.

#### 1.6 ADDITIONS AND DEDUCTIONS

- .1 The Bidder agrees that the valuation of additions to, and deductions from, the Contract shall be made by one of the following methods:
  - .1 The Owner may ask the Contractor for a quotation for the proposed Work.
    The Contractor shall reply in writing within 7 days of receipt of the request.
  - .2 If the quotation referred to in (1) above is not accepted by the Owner, the actual cost of the Work will be determined in accordance with the General Conditions, Supplementary Conditions and Project Specifications.

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.3 Whenever extra or additional work is being performed under subsection .1.1 above, the Bidder agrees to submit 2 copies of daily reports in writing, indicating the total chargeable costs incurred, for the day. Reports must be submitted to the Owner within 1 working day following the completion of the work for which they represent; the Owner will sign and date each report verifying receipt of these documents. Valuation of extra or additional work being so performed will be made only on the basis of approved daily reports.

## 1.7 ADDENDA

.1 The Bidder agrees that he has received addenda \_\_\_\_ to \_\_\_\_ inclusive, and the tender price includes the provisions set out in such addenda.

## 1.8 SEPARATE & UNIT PRICES

- .1 Certain items included in the scope of work for this project are required for the full extent of work, unknown and/or of secondary priority and may be deleted if necessary to keep the contract price within budget constraints. These items are described on the Schedule of Separate Prices, which shall form a part of the Contract Documents.
- .2 The Bidder shall provide separate prices for these items as listed on the Schedule of Separate Prices included hereafter. These amounts **shall be included** in the Bid Price in Clause 1.4.

### 1.9 ALTERNATIVES/SUBSTITUTIONS

.1 Alternate Materials/Methods or Equipment have been substituted in this Bid for those specified. The number of substitutions included is \_\_\_\_\_\_. (If none, enter 0).

## 1.10 ALLOWANCES

- .1 Also refer to General Conditions, GC4.1, CASH ALLOWANCES and GC4.2, CONTINGENCY ALLOWANCE.
- .2 The following allowances shall be included:
  - .1 Contingency Allowance: value \$10,000.00.
  - .2 Cash Allowance #1: n/a

### 1.11 BID APPENDICES

- .1 The following Bid Appendices follow the Bid Form, and shall be completed and submitted with the Bid Form.
  - .1 Appendix A: Schedule of Separate Prices.
  - .2 Appendix B: Schedule of Alternative Prices.
  - .3 Appendix C: Schedule of Itemized Prices.
  - .4 Appendix D: Bidders Senior Project Staff.
  - .5 Appendix E: Proposed Subcontractors.
- .2 Attach additional pages to each appendix where required due to space constraints.

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SCHEDULE OF PRICES			
Description of Work		TOTAL BID PRICE	
General Conditions; Mob'/Demobilization			
Removal, Packaging or Disposal of Removed Lighting Equipment			
New Lighting Fixtures & Controls – Lower West Wing			
New Lighting Fixtures & Controls – Lower East Wing			
New Lighting Fixtures & Controls – Upper West Wing			
New Lighting Fixtures & Controls – Upper East Wing			
Removal, Packaging or Disposal of Removed Emergency Lighting Equipment			
New Emergency Lighting – Lower West Wing			
New Emergency Lighting – Lower East Wing			
New Emergency Lighting – Upper West Wing			
New Emergency Lighting – Upper East Wing			
Surface Repair, Patchwork, Painting			
Contingency:		\$10,000.00	
Cash Allowances:		n/a	
Other: (Specify)			
SUB-TOTAL BID PRICE			
HST			
TOTAL BID PRICE			
TOTAL BIDT RIGE			

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SIGNATURES			
N BEHALF OF THE	CONTRACTOR	2:	
	-		
FIRM NAME			
DRESS			
(1)		OFFICIAL TITLE	
(2)		OFFICIAL TITLE	
	SIGNATURES N BEHALF OF THE FIRM NAME  ORESS  (1) (2)	FIRM NAME  ORESS  (1)	N BEHALF OF THE CONTRACTOR:  FIRM NAME  ORESS  (1)  OFFICIAL TITLE

CONTRACTOR'S SEAL

REFER TO TENDER SIGNING PROCEDURES PROVIDED IN THE INSTRUCTIONS TO BIDDERS.

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### **APPENDIX A: SCHEDULE OF SEPARATE PRICES**

In accordance with Bid Form Section 1.8, Separate Prices, the Contractor hereby provides separate prices for the items of work described on this form hereto.

I/We agree that the Owner shall have the right to negotiate the costs for extra work instead of using the separate prices listed below.

ITEM No.	DESCRIPTION OF WORK	PRICE (\$) add/(deduct)
1.0	Delete the upgrade of lighting & associated controls in its entirety in the following rooms:  009 017B 017C 020 026 035 036 037 038 040 111 117 144 S01A S02	(Deduct)
2.0	Delete the upgrade of lighting & associated controls in its entirety in the following rooms:  018 AS01 AS01 MS01	(Deduct)
3.0	Delete the upgrade of lighting & associated controls in its entirety in the following rooms:  041 043 045 046 047 048	(Deduct)
4.0	Delete the upgrade of lighting & associated controls in its entirety in the following rooms:  012 022 025A 039A 039B 109A 110  112A 112B 114 125A 125B 131A 132  132 132A 133	(Deduct)
5.0	Delete the upgrade of lighting & associated controls in its entirety in the following rooms:  137    138    138A    138B    147    149    150 153    154    155    156    157    158    159	(Deduct)
7.0	Delete the emergency lighting upgrade in its entirety throughout.	(Deduct)

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## APPENDIX B: ALTERNATIVES / SUBSTITUTIONS FORM

**List Below** 

NOTE: Complete this form and submit with Bid.

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## **APPENDIX C: SCHEDULE OF ITEMIZED PRICES**

The following are itemized prices for Work included in the Total Bid Price. These costs are provided for general information only, and will not be used to modify the scope of Work or adjust the Total Bid Price.

ITEM No.	ITEMS DESCRIPTION	соѕт
1		

NOTE: Complete this form and submit with Bid.

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## APPENDIX D: BIDDER'S SENIOR STAFF

NAME	APPOINTMENT	QUALIFICATIONS AND EXPERIENCE
<u>OFFICE</u>		
FIELD		

NOTE: Complete this form and submit with Bid.

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## **APPENDIX E: PROPOSED SUB-CONTRACTORS**

Herein is the list of sub-contractors we intend to have on the Work.

SUB-CONTRACTOR	ADDRESS OF SUB- CONTRACTOR	VALUE OF WORK SUB-CONTRACTOR	DESCRIPTION OF WORK

### SUPPLEMENTARY CONDITIONS

- 1. These Supplementary Conditions (the "Supplementary Conditions") of the Stipulated Price Contract (CCDC 2 - 2008) ("CCDC 2-2008") shall modify, delete and/or add to the CCDC 2 - 2008 (the CCDC 2 -2008, as amended by the Supplementary Conditions, the "Contract"). The Supplementary Conditions constitute a Contract Document and shall apply to all the Work.
- 2. The Contractor represents and warrants that: (a) it is competent to perform the Work; (b) it has the necessary qualifications, including knowledge, skill and experience to perform the Work, together with the ability to use those qualifications effectively for that purpose; and (c) it has, or will arrange for those Subcontractors used by it to have, the necessary licenses and insurances as so required.
- 3. The Contractor shall: (a) carry out the Work in a diligent and efficient manner to the highest industry standard applicable in the circumstances; (b) select and employ on the Work a sufficient number of properly qualified personnel, provide efficient and effective inspection and quality control procedures and provide administration and other support to its employees to the extent necessary to properly carry out the Work: (c) perform the Work in accordance with standards of quality acceptable to the Owner acting reasonably and in full conformity with all the requirements of the Contract, and (d) provide effective and efficient supervision to ensure that the quality of workmanship is as stated in the Contract.

### AGREEMENT BETWEEN OWNER AND CONTRACTOR

### ARTICLE A-1 – THE WORK

4. **Add** the following at the beginning of paragraph 1.3:

"subject to obtaining the approval to commence the Work from the applicable Governmental Authority,"

- 5. Add the following new paragraph 1.4:
  - "1.4 and attain Total Performance of the Work by the Scheduled Completion Date, as amended by Change Orders or Change Directives."

#### **ARTICLE A-3 – CONTRACT DOCUMENTS**

- Add the following new paragraphs 3.2 and 3.3: 6.
  - "3.2 The Supplementary Conditions are incorporated into, and form part of the Contract, and all Contract Documents are amended or replaced as set out, and interpreted in accordance with the Supplementary Conditions.
  - 3.3 All terms and conditions set out in the Contract Documents are subject to applicable Special Conditions included in the Procurement Documents, if any."

## **ARTICLE A-5 – PAYMENT**

- 7. Delete paragraph 5.2 in its entirety.
- 8. Replace sub-paragraphs (1) and (2) from paragraph 5.3.1 with "1% per annum above the prime rate, subject to any greater rate required under the Construction Act."

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

- 9. Replace paragraph 6.1 by the new following paragraph:
  - All Notices in Writing, including but not limited to, application for payment, notice of non-payment "6.1 and notice of adjudication must be sent by email only. All Notices in Writing sent after 4pm, or on weekends and/or statutory holidays will be deemed having been received the following Working Day. The Contractor shall send Notices in Writing to the Owner at, and the Contractor's Notices in Writing shall only be considered to have been received by the Owner if sent to the following email addresses:
    - Invoices must be sent to Consultant Project Manager, Krzysztof Wozniak at Wozniak@wsp.com

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

### 10. Add new Article A-9 — Conflict of Interest:

- "9.1 The *Contractor* shall disclose and must continue to be under an obligation to disclose any potential, perceived or actual Conflict of Interest of the *Contractor* or *Subcontractor* to the *Owner*, in accordance with this Article.
- 9.2 For the purposes of this *Contract*, "*Conflict of Interest*" includes any situation or circumstance where the *Contractor*, any *Subcontractor* or any of their respective employees:
  - .1 has other commitments, relationships, financial interests or involvement in ongoing litigation that:
    - (i) could or could be seen to exercise an improper influence over the objective, unbiased and impartial exercise of the *Owner's* independent judgment; or
    - (ii) could or could be seen to compromise, impair or be incompatible with the effective performance of its obligations under this *Contract*, or
  - .2 has contractual or other obligations to the *Owner* that could or could be seen to have been compromised or impaired as a result of entering into the *Contract* or performing its obligations under the *Contract*.
- 9.3 Without limiting Article A-9 of this *Agreement* and in addition to all contractual or other rights or rights available at law or in equity or legislation, the *Owner* may, in its sole discretion, waive any *Conflict of Interest* or may impose conditions on the *Contractor* or a *Subcontractor* that require the management, mitigation and/or minimization of the *Conflict of Interest*.
- 9.4 If the *Contractor* or a *Subcontractor* is determined to have a Conflict of Interest that, in the *Owner's* sole discretion, cannot be managed, mitigated or minimized, the *Owner* may, in addition to any other remedies available at law or in equity, terminate the *Contract* or require the *Contractor* to terminate the relevant subcontract upon thirty (30) days written notice."

### **DEFINITIONS**

## 11. Add the following new definitions:

## Agreement

The Agreement is the signed agreement between the Parties set out in Articles A-1 to Article A-9.

### **Applicable Law**

Applicable Law means all public laws, statutes, ordinances, codes, acts, orders, by-laws, rules, regulations, Governmental Consents, binding policies and guidelines, and requirements of all Governmental Authorities, which now or hereafter, may be applicable to and enforceable against the Contractor, or the performance of the Work or any part thereof, including those relating to employment, zoning, building, life/safety, environment and health.

### **AODA**

AODA means the Accessibility for Ontarians with Disabilities Act (Ontario).

#### **Base Warranty Period**

Base Warranty Period means the base warranty period for the Work and Products set out in the Key Information Table in the Procurement Documents.

#### **Construction Act**

Construction Act means the Construction Act (Ontario), RSO 1990 c. C-30, as it may be renamed, amended or replaced.

#### Constructor

Constructor means, for purposes of OHSA, the Contractor, who is designated the Constructor for this Project, and who shall assume all responsibilities of the "constructor" as set out and defined in the OHSA.

#### **Contract Price Breakdown**

Contract Price Breakdown is the line item breakdown of the Contract Price required by the Owner for its reporting purposes, including a breakdown of all cost items specified by the Owner in the Contract Documents or in writing after the signing of the Agreement.

### **Governmental Authority**

Governmental Authority means any federal, provincial, local, municipal, regional, territorial, aboriginal, or other government, governmental or public department, branch, ministry, or court, domestic or foreign, including any district, agency, commission, board, arbitration panel or authority and any subdivision of any of them exercising or entitled to exercise any administrative, executive, judicial, ministerial, prerogative, legislative, regulatory, or taxing authority or power of any nature and having jurisdiction over the *Owner* or the *Project*.

### **Governmental Consent**

Governmental Consent means any license, right, permit, franchise, privilege, registration, direction, decree, consent, order, permission, approval, or authority to be issued or provided by, or written Contract between the Owner and a Governmental Authority.

#### Losses

Losses means any losses, liabilities, damages, costs, expenses, charges, fines, penalties, including the costs and expenses of any action, claim, suit, proceeding, demand, assessment, judgment, settlement or compromise and all interest, fines, penalties and professional fees and disbursements.

#### **Key Information Table**

The Key Information Table means the Key Information Table as defined in the Procurement Documents.

#### **Milestones**

Milestones, if any, are set out in the Special Conditions.

#### **OHSA**

OHSA means the Occupational Health and Safety Act (Ontario).

#### **Owner's Representative**

Owner's Representative means any firm or individual engaged by the Owner to monitor the Project on its behalf or to represent it in any other capacity during the construction of the Project. Unless the Owner notifies the Contractor of a change in the Owner's Representative, the Owner's Representative for the Project is set out in the Owner's Notice in Writing made in accordance GC 1.6 – OWNER'S REPRESENTATIVE.

#### **Parties**

The *Parties* are the parties to the *Agreement*, namely the *Owner* and the *Contractor*, and "party" means either of the *Parties*.

#### Person

*Person* will be broadly interpreted and includes:

- (a) a natural person, whether acting in his or her own capacity, or in his or her capacity as executor, administrator, estate trustee, trustee or personal or legal representative, and the heirs, executors, administrators, estate trustees, trustees or other personal or legal representatives of a natural person;
- (b) a corporation or a company of any kind, a partnership of any kind, a sole proprietorship, a trust, a joint venture, an association, an unincorporated association, an unincorporated syndicate, an unincorporated organization or any other association, organization or entity of any kind; and
- (c) a Governmental Authority.

### **Procurement Documents**

The Procurement Documents are the documents issued by or on behalf of the Owner for the procurement of a contractor to perform the Work, which are listed in Article A-3 as a Contract Document.

### **Proper Invoice**

Proper Invoice means an application for payment containing all of the information and documents that are required under this Contract and for the application for payment to constitute a "proper invoice" under the Construction Act, including the following:

- (a) for each application for payment after the first, a scanned true copy of the Statutory Declaration (in the form of the most current CCDC 9A statutory declaration) certifying that all accounts of the Contractor and all Subcontractors and Suppliers relative to the Project have been paid in full, less only the amounts of holdback due to them for the relevant dates, that all liabilities incurred by the Contractor and its Subcontractors in carrying out the Contract have been discharged and that all liens in respect of the Contract have expired or have been satisfied. discharged or provided for by payment. Original Statutory Declaration must be retained for examination by the *Owner* on request at any time:
- (b) the total amount of expenditures to date and the total estimated expenditures to be made for the remaining balance of the Work; broken out in accordance with the Contract Price Breakdown if requested by the Consultant,
- satisfactory evidence in the form of a Certificate of Clearance issued by the Workplace Safety and Insurance Board that the Contractor has made suitable provision for meeting any liability under the WSIA, prior to the release of any monthly progress payment; and
- (d) purchase order number, project contract reference number and name of the Owner's project manager.

### **Scheduled Completion Date**

Scheduled Completion Date means the date on which the Contractor is to attain Total Performance of the Work, as set out in the Procurement Documents.

### **Special Conditions**

The Special Conditions, if any, are the special terms and conditions attached to Appendix A to the Procurement Documents.

### Statutory Declaration

The form of the Statutory Declaration to be delivered by the Contractor upon applications for progress payment, release of holdback and final payment is the current version of the CCDC Document 9A, as applicable.

#### **Total Performance of the Work**

Total Performance of the Work means when the entire Work, except those items arising from the provisions of GC 12.3 - WARRANTY, but including all Completion List items, has been fully performed and provided to the requirements of the Contract Documents and is so certified by the Consultant.

WSIA means the Workplace Safety and Insurance Act (Ontario).

#### 12. Replace the definition of "Consultant" with the following:

"The Consultant is the person or entity engaged by the Owner and identified as such in the Agreement, or, if no such person or entity is identified, is the Owner. The Consultant is the Architect, the Engineer or entity licensed to practice in the province or territory of the Place of the Work or is the Owner. The term Consultant means the Consultant or the Consultant's authorized representative."

#### Add the following interpretation provisions to the Definitions: 13.

"This Contract and all Schedules thereto will be interpreted according to the following provisions, save to the extent that the context or the express provisions of this Contract or any Schedules thereto otherwise requires:

- 4 -

- 1. The table of contents, headings and sub-headings, marginal notes and references to them in this *Contract* are for convenience of reference only, do not constitute a part of this *Contract*, and shall not be taken into consideration in the interpretation or construction of, or affect the meaning of, this *Contract*.
- 2. All references to paragraphs, Articles, Sections and Schedules are references to paragraphs, Articles, Sections of and Schedules to this *Contract* and all references to parts, paragraphs or appendices are references to parts and paragraphs contained in and appendices to the Schedules.
- 3. All references to any agreement, document, standard, principle or other instrument include (subject to all relevant approvals and any other provision of this *Contract* expressly concerning such agreement, document, standard, principle or other instrument) a reference to that agreement, document, standard, principle or instrument as amended, supplemented, substituted, novated or assigned.
- 4. All references to time of day are references to Eastern Standard time or Eastern Daylight-Saving time, as the case may be.
- 5. The words "herein", "hereto", "hereof" and "hereunder" and other words of like import refer to this *Contract* as a whole and not to the particular Section, Schedule, part, paragraph or appendix in which such word may be used.
- 6. Words importing the singular include the plural and vice versa.
- 7. Words importing a particular gender include all genders.
- 8. Any reference to a public organization shall be deemed to include a reference to any successor(s) to such public organization or any organization or entity or organizations or entities which has or have taken over the functions or responsibilities of such public organization.
- 9. All monetary amounts are expressed in Canadian Dollars.
- 10. The words "include" or "including" are to be construed as meaning "includes without limitation" or "including without limitation", respectively.
- 11. The expression "all reasonable efforts" and expressions of like import, when used in connection with an obligation of either party, means taking in good faith and with due diligence all reasonable steps to achieve the objective and to perform the obligation, including doing all that can reasonably be done in the circumstances, and in any event taking no less steps and efforts than those that would be taken by a reasonable and prudent person in comparable circumstances, including, where appropriate and applicable, taking into consideration, good development industry practice and good construction industry practice, but where the whole of the benefit of the obligation and where all the results of taking such steps and efforts accrue solely to that person's own benefit.
- 12. All capitalized terms used in a Schedule have the meanings given to such terms in the Definitions, unless stated otherwise in a particular Schedule, in which case such term will have the meaning given to it in that Schedule solely for the purposes of that Schedule.
- 13. All accounting and financial terms used herein are, unless otherwise indicated, to be interpreted and applied in accordance with Canadian generally accepted accounting principles, consistently applied.
- 14. The words of this *Contract* are to be given their natural meaning. The *Parties* have had the opportunity to take legal advice on this *Contract* and no term is, therefore, to be construed against the drafter of the *Contract* (*contra proferentem*).
- 15. A reference to persons for whom a party is in law responsible includes that party's employees, agents, contractors and subcontractors of any tier, advisors and any other persons for whom that party is in law responsible or over whom that party could reasonably be expected to exercise control.
- 16. If the time for doing an act falls or expires on a day that is not a *Working Day*, the time for doing such act will be extended to the next following *Working Day*.
- 17. Each provision of this Contract will be valid and enforceable to the fullest extent permitted by law. If any provision of this Contract is held to be invalid, unenforceable or illegal to any extent, such provision may be severed and such invalidity, unenforceability or illegality will not prejudice or affect the validity,

Revision Date: January 6, 2020

enforceability and legality of the remaining provisions of this *Contract*. If any such provision of this *Contract* is held to be invalid, unenforceable or illegal, the *Parties* will promptly endeavour in good faith to negotiate new provisions to eliminate such invalidity, unenforceability or illegality and to restore this *Contract* as nearly as possible to its original intent and effect.

### **GENERAL CONDITIONS**

#### **PART 1 – GENERAL PROVISIONS**

### **GC 1.1 – CONTRACT DOCUMENTS**

### 14. Replace paragraph 1.1.7.1 with the following:

- ".1 the order of priority of documents, from highest to lowest, shall be:
  - Special Conditions, if any,
  - Supplementary Conditions,
  - the Agreement between the Owner and the Contractor,
  - the Definitions,
  - the General Conditions,
  - the Procurement Documents,
  - Division 1 of the Specifications,
  - technical specifications,
  - material and finishing schedules,
  - the Drawings."

## 15. Replace paragraphs 1.1.9 to 1.1.10 with the following paragraphs and add paragraph 1.1.11:

- "1.1.9 All *Drawings and Specifications*, computations, sketches, test data, survey results, models, photographs, renderings and other materials prepared by the *Contractor* in connection with the performance of its obligations under this *Agreement* (the "**Project Materials**") shall be the property of the *Contractor*, provided that the *Contractor* grants to the Owner an irrevocable and royalty-free license to use all such *Project Materials*.
- 1.1.10 If this Agreement is terminated, the Contractor shall promptly deliver to the Owner a complete set of all Project Materials in the Contractor's possession, including all design documents prepared or obtained by the Contractor together with any predesign, conceptual design or other studies prepared by the Contractor. If the Contractor fails to comply with its obligations under this paragraph, the Owner shall be entitled, in addition to any other remedies to which it may be entitled, to appropriate equitable relief, including the remedy of specific performance as money damages will be an inadequate remedy with respect to the receipt of such Project Materials by the Owner.
- 1.1.11 The Contract Documents are organized by Division for clarity and to identify the expected standard of trade competence in the finished work. No claims will be considered relating to the division of Work between the Contractor and/or Subcontractors, including tie in of the work of different trades, spatial interferences, cutting and patching and the like."

### **GC 1.3 - RIGHT AND REMEDIES**

## 16. Add the following as new paragraph 1.3.3:

"1.3.3 Nothing in the *Contract Documents* shall constitute, or be construed as creating, a joint venture, partnership, principal-agent or employment relationship between the *Owner* and *Contractor*, or between the *Owner* and any employees of the *Contractor*. For greater clarification, it is acknowledged and agreed that no employees of the *Contractor* shall in any sense be considered employees or agents of the *Owner*, nor shall any employees of the *Contractor* be entitled to any compensation, benefits, privileges or perquisites given or extended to any *Owner* employees."

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### **GC 1.4 – ASSIGNMENT**

## 17. Replace paragraph 1.4.1 with the following:

"1.4.1 The *Owner* may assign the *Contract* or a portion thereof without the written consent of the *Contractor*. The *Contractor* shall not assign the *Contract* or a portion thereof without the written consent of the *Owner*, which consent may be arbitrarily withheld for any reason that the *Owner*, in its sole discretion, considers sufficient. No assignment of the *Contract* or a portion thereof will relieve the *Contractor* from any obligation under the *Contract*."

# GC 1.5 – CONFIDENTIALITY, GC 1.6 – OWNER'S REPRESENTATIVE, GC 1.7 – TIME OF ESSENCE & GC 1.8 – EXAMINATION OF DOCUMENTS AND SITE

18. Add new GC 1.5 – CONFIDENTIALITY, GC 1.6 – OWNER'S REPRESENTATIVE, GC 1.7 – TIME OF ESSENCE and GC 1.8 – EXAMINATION OF DOCUMENTS AND SITE as follows:

#### **"GC 1.5 - CONFIDENTIALITY**

- 1.5.1 Subject to Paragraph 1.5.2, the *Owner* and the *Contractor* shall keep confidential all matters respecting technical, commercial and legal issues relating to or arising out of the *Work* or the performance of the *Contract* ("*Confidential Information*") and shall not, without the prior written consent of the other party, disclose such *Confidential Information*, except in strict confidence, to its professional advisors or Subcontractors as needed.
- 1.5.2 Confidential Information shall not include information that: (i) has become generally available to the public other than as a result of a disclosure by the other party or any of its representatives or by the Owner as part of the procurement process leading to this Contract; (ii) was available to the other party or its representatives on a non-confidential basis before the date of this Agreement; or (iii) becomes available to the other party or its representatives on a non-confidential basis from a Person (other than the first-mentioned party or any of its representatives) who is not bound by confidentiality obligations or otherwise prohibited from transmitting the Confidential Information.

#### GC 1.6 - OWNER'S REPRESENTATIVE

- 1.6.1 If an *Owner Representative* is not identified in the *Procurement Documents*, the *Owner* shall designate an *Owner's Representative* authorized to act on the *Owner's* behalf. For the purposes of this *Contract* and the administration of the *Work*, the *Owner's Representative* may be the *Consultant*.
- 1.6.2 The *Owner's Representative* shall take all reasonable steps to be accessible to the *Contractor* during performance of the *Contract* and shall render any necessary decisions or instructions reasonably promptly to avoid delay in the performance of the *Contract*.

### GC 1.7 - TIME OF ESSENCE

1.7.1 Time shall be of the essence of the *Contract* and under all *Contract Documents*.

#### GC 1.8 - EXAMINATION OF DOCUMENTS AND SITE

1.8.1 The *Contractor* is required, and, where applicable, the *Contractor* shall require of its *Subcontractors*, to investigate all existing site and/or building features visible at the time of tender that may affect the *Work*, and the *Contractor* has acknowledged that it has done so or, in the case of *Subcontractors*, will do so prior to entering into a subcontract with such *Subcontractors*. The *Contractor* shall account for all associated work required to accommodate the existing site and/or building and to achieve the design as shown in the *Drawings* and *Specifications* regardless of whether such work is specifically indicated in the *Contract Documents*."

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### PART 2 – ADMINISTRATION OF THE CONTRACT

#### **GC 2.1 AUTHORITY OF THE CONSULTANT**

19. In the first line of paragraph 2.1.3, <u>delete</u> the words "against whom the *Contractor* makes no reasonable objection and", and <u>add</u> the words "The *Contractor* will provide the *Owner* with a *Notice in Writing* of any perceived conflicts of interest with such replacement *Consultant*."

### GC 2.2 - ROLE OF THE CONSULTANT

- 20. In paragraph 2.2.7, <u>delete</u> the words "Except with respect to GC 5.1 FINANCING INFORMATION REQUIRED OF THE *OWNER*."
- 21. Add the following at the end of paragraph 2.2.13:

"Should the *Contractor* be of the opinion that a change in *Contract Price* or *Contract Time* is required, the *Contractor* shall notify the *Consultant* in writing within the earliest to occur of (1) the commencement of the *Work* resulting from the date of the issuance of such *Supplemental Instruction* and (2) 14 days from the issuance of such *Supplemental Instruction* by the *Consultant*. Should the *Consultant* be in agreement to a change in *Contract Price* or *Contract Time*, the *Consultant* will prepare a *Change Order* or *Change Directive* for approval and signature by the *Owner* as provided in GC 6.2 – CHANGE ORDER or GC 6.3 – CHANGE DIRECTIVE."

- 22. <u>Delete</u> the comma after the word "submittals" and <u>add</u> the words "which are provided" before the words "in accordance" in paragraph 2.2.14.
- 23. Add the following as new paragraph 2.2.19:
  - "2.2.19 In any *Notice in Writing* to the *Contractor* in respect of general, special, or other repairs, or of any *Work* of any nature required to be done under any of the provisions of the *Contract*, or of any other matter, it shall not be obligatory upon the *Consultant* to specify minutely or in detail everything required, nor to specify by measurement the exact extent thereof, or the precise area or areas where the *Work* or material may be defective or faulty or where any of the requirements of the *Specifications* have not been observed; but a reference in such *Notice in Writing* to the clause or clauses bearing upon the matter, and a description of the locality in general terms (which is sufficiently clear, in the opinion of the *Consultant*, to indicate where the defect or trouble exists) shall be deemed to be sufficient and ample notice of such matter for the purposes of this paragraph."

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

### 24. Add to end of paragraph 2.3.2:

"Unless agreed otherwise, the *Contractor* shall give the *Consultant* and the *Owner* at least two (2) *Work*ing Days' notice of the date and time fixed for all required tests, and shall supply all labour, material, fuel, etc., and shall carry out such tests (unless otherwise specified). Should a designated test or inspection fail, the *Contractor* shall promptly correct and retest the work using the designated testing/inspection agency. The *Contractor* shall give the *Consultant* and the *Owner* a further notice of at least two (2) *Working Days* and shall be responsible for all costs associated with retesting."

### 25. At end of the second sentence of paragraph 2.3.5, add the following:

"Where standards of performance are specified or implied and the *Work* does not comply with the specified or implied standard of performance, the deficiency in the *Work* shall be corrected as directed by the *Consultant*. Subsequent testing to ensure that the standard of performance has been attained (including retesting by *Owner*) shall be carried out at the *Contractor's* expense."

### 26. Add a new paragraph 2.3.8 as follows:

"2.3.8 On a once every two weeks basis, or as otherwise requested by the *Owner*, acting reasonably, the *Contractor*, the *Consultant*, and the *Owner* shall meet to discuss progress of the *Work*."

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### **GC 2.4 – DEFECTIVE WORK**

## 27. <u>Add</u> 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 Consultant.
- 2.4.1.2 The correction of any defective *Work* that is to take place after the *Owner* has taken occupancy must be completed after 6:00pm during the school week or on weekends, unless otherwise agreed to between the *Owner* and *Contractor*."

## 28. Add the following as new paragraphs 2.4.4 through 2.4.6 inclusive:

- "2.4.4 Incorrectly fabricated, misplaced or omitted components will be considered defective *Work*. Where the *Consultant* or *Owner* finds defective *Work* or otherwise unacceptable *Work*, the *Contractor* shall pay for all costs of retesting, redesign, corrective measures, and all reasonable expenses and costs of the *Owner* related to the deficiency, including extra or extended periods of security, fire watch, maintenance and protection of the *Place of the Work*, supervision and review of the work for the correction of the deficiency.
- 2.4.5 The *Contractor* shall prioritize the correction of any defective work that, in the sole discretion of the *Owner*, adversely affects the day-to-day operations of the *Owner*.
- 2.4.6 The Owner shall be entitled to withhold from any payment owing to the Contractor an amount equal to 200% of the Consultant's reasonable estimate of the cost to rectify any defective or deficient Work (the "Deficiency Holdback") until such rectification is completed by the Contractor, less any amount of the Deficiency Holdback paid to another contractor, if the Contractor has not completed the rectification within 30 days of the Owner's Notice in Writing."

### **PART 3 – EXECUTION OF THE WORK**

### GC 3.1 - CONTROL OF THE WORK

### 29. Add the following as new paragraphs 3.1.3 to 3.1.6:

- "3.1.3 The Contractor shall keep the Owner and the Consultant informed of the progress of the Work, on a regular once every two weeks basis (or more frequently as the Owner requests, acting reasonably) by way of site meetings, site meeting notes, and an updated construction schedule in the form acceptable to the Owner, and at any reasonable time the Owner may request, and in all cases where the achievement of the completed Work by the Scheduled Completion Date may be affected.
- 3.1.4 The *Contractor* is solely responsible for the quality of the *Work* and shall undertake any quality control activities specified in the *Contract Documents* or, if none are specified, as may be reasonably required to ensure such quality at its expense.
- 3.1.5 The Contractor agrees that, notwithstanding anything to the contrary contained in the Contract, it shall fully comply with any policies or procedures of any Governmental Authority and of the Owner which are relevant to any activity of the Contractor to be performed under the Contract. The Contractor further agrees that it will use reasonable efforts to inquire from the Owner if such policies or procedures exist for any activity of the Contractor to be performed under the Contract. The Owner agrees that it will use reasonable efforts to communicate to the Contractor policies or procedures it may have, relevant to any such activity.
- 3.1.6 Prior to commencing individual procurement, fabrication and construction activities, the *Contractor* shall verify, at the *Place of the Work*, all relevant measurements and levels necessary for proper and complete fabrication, assembly and installation of the *Work* and shall further carefully compare such field measurements and conditions with the requirements of the *Contract Documents*. Where dimensions are not included or exact locations are not apparent, the *Contractor* shall immediately notify the *Consultant* in writing and obtain written instructions from the *Consultant* before proceeding with any part of the affected work."

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

- 30. <u>Delete paragraph 3.2.2.2</u> in its entirety.
- 31. Add the following wording at the end of paragraph 3.2.3.3:

"Failure by the *Contractor* to so report shall invalidate any claims against the *Owner* by reason of the deficiencies in the *Work* of other contractors or *Owner*'s own forces;".

### 32. Add new paragraph 3.2.3.4 as follows:

".4 for the *Owner*'s own forces and for other contractors, assume overall responsibility for compliance with all aspects of health and safety at the *Place of the Work*, including all of the responsibilities of the *Constructor*, pursuant to the *Occupational Health and Safety Act* (Ontario), provided that the *Owner* will require its own forces and such other contractors to follow the directions, instructions, rules and regulations of the *Contractor* in respect of all matters relating to health and safety."

## 33. Replace paragraph 3.4.1 in its entirety with new paragraph 3.4.1:

"3.4.1 The Contractor shall review the Contract Documents and shall report promptly to the Consultant any error, inconsistency or omission the Contractor may discover. Such review by the Contractor shall comply with the standard of care described in paragraph 3.14.1 of the Contract. Except for its obligation to make such review and report the result, the Contractor does not assume any responsibility to the Owner or to the Consultant for the accuracy of the Contractor Documents that it did not prepare. 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 in accordance with industry practices. 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."

### **GC 3.5 – CONSTRUCTION SCHEDULE**

## 34. Replace paragraph 3.5.1 in its entirety with the following and add new paragraphs 3.5.2 and 3.5.3:

#### "3.5.1 The Contractor shall:

- .1 within five (5) calendar days of receiving written confirmation of the award of the Contract, prepare and submit to the Owner and the Consultant for their review and acceptance, a construction schedule in the format indicated below that indicates the timing of the activities of the Work and provides sufficient detail of the critical events and their inter-relationship to demonstrate the Work will be performed in conformity with the Contract Time and in accordance with the Contract Documents. Such schedule is to include a delivery schedule for *Products* whose delivery is critical to the schedule for the Work or are required by the Contract to be included in a Products delivery schedule. The Contractor shall employ construction scheduling software, being the latest version of "Microsoft Project" or equivalent that permits the progress of the Work to be monitored in relation to the critical path established in the schedule form or software acceptable to the Owner. The Contractor shall provide the schedule and any successor or revised schedules in both electronic format and hard copy. Once accepted by the Owner and the Consultant, the construction schedule submitted by the Contractor shall become the baseline construction schedule;
- .2 provide the expertise and resources, such resources including manpower and equipment, as are necessary to maintain progress under the accepted baseline construction schedule or revised schedule accepted by the *Owner* pursuant to GC 3.5 CONSTRUCTION SCHEDULE:
- .3 monitor the progress of the *Work* on a weekly basis relative to the baseline construction schedule, or any revised schedule accepted by the *Owner* pursuant to GC 3.5 CONSTRUCTION SCHEDULE, update and submit to the *Consultant* and *Owner* the

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- electronic and hard copy schedule on a once every two weeks basis, at a minimum, or as required by the *Consultant* and advise the *Consultant* and the *Owner* weekly in writing of any variation from the baseline or slippage in the schedule:
- .4 advise the *Owner*, and obtain the *Owner*'s approval of, any change in the construction schedule or *Contract Time* in accordance with the change procedures set out in Part 6 CHANGES IN THE WORK or as otherwise agreed by the *Owner*;
- .5 commence work immediately after award of contract as indicated in Article A-1.3, and provide sufficient labour and provide overtime work without change to the *Contract Price* if such work is deemed necessary to meet the schedule; and
- .6 ensure that the Contract Price shall include all costs required to phase or stage the Work.
- 3.5.2 If, at any time, it should appear to the *Owner* or the *Consultant* that the actual progress of the *Work* is behind schedule or is likely to become behind schedule, or if the *Contractor* has given notice of such to the *Owner* or the *Consultant* pursuant to subparagraph 3.5.1.3, the *Contractor* shall, either at the request of the *Owner* or the *Consultant*, or following giving notice pursuant to subparagraph 3.5.1.3, take appropriate steps to cause the actual progress of the *Work* to conform to the schedule or minimize the resulting delay. Within five (5) calendar days of the request by the *Owner* or the *Consultant* or the notice being given pursuant to subparagraph 3.5.1.3, the *Contractor* shall produce and present to the *Owner* and the *Consultant* a plan demonstrating how the *Contractor* will achieve the recovery of the last accepted schedule.
- 3.5.3 The *Contractor* is responsible for performing the *Work* within the *Contract Time*. Any schedule submissions revised from the accepted baseline construction schedule or revised schedule accepted by the *Owner* pursuant to GC 3.5 CONSTRUCTION SCHEDULE, during construction are not deemed to be approved extensions to the *Contract Time*. All extensions to the *Contract Time* must be made in accordance with the *Contract Documents*."

### GC 3.6 - SUPERVISION

### 35. Replace paragraph 3.6.1 with the following:

"3.6.1 The *Contractor* shall provide all necessary supervision and appoint a competent representative who shall be in attendance at the *Place of the Work* while work is being performed. The appointed representative shall not be removed or replaced without the approval of the *Owner*, such approval not to be unreasonably withheld, provided that the appointed representative is replaced with an appointed representative of similar qualifications. The *Contractor* shall give the *Owner* and the *Consultant* ten (10) days written *Notice in Writing* prior to changing the appointed representative."

### **GC 3.7 – SUBCONTRACTORS AND SUPPLIERS**

## 36. Replace paragraph 3.7.2. in its entirety with the following:

"3.7.2 Substitution of any Subcontractor and/or Suppliers after submission of the Contractor's bid will not be accepted unless a valid reason is given in writing to and approved by the Owner, whose approval may be arbitrarily withheld. The reason for substitution must be provided to the Owner and to the original Subcontractor and/or Supplier and the Subcontractor and/or Supplier shall be given the opportunity to reply to the Contractor and Owner. The Contractor shall be fully aware of the capability of each Subcontractor and/or Supplier included in its bid, including but not limited to technical ability, financial stability and ability to maintain the proposed construction schedule."

### 37. Add the following as new paragraphs 3.7.7 to 3.7.10:

"3.7.7 The *Contractor* shall, when requested to do so by the *Owner*, cause any and all construction liens registered by any *Subcontractor* or *Supplier*, to be discharged or vacated by the *Contractor* 

- posting appropriate security and the Contractor shall do so within ten (10) calendar days of that request at its sole expense.
- 3.7.8 The Contractor shall, when requested to do so by the Owner, cause any and all written notices of lien given to any Person by any Subcontractor or Supplier, to be withdrawn and the Contractor shall do so within ten (10) calendar days of that request at its sole expense.
- 3.7.9 Should the Contractor fail to discharge, vacate or otherwise remove any such lien, or to have any such written notices of lien withdrawn, then the Owner, may at its option, do so and set off and deduct from any amount owing to the Contractor, all costs and expenses of so doing including legal fees and disbursements and the costs of borrowing the appropriate cash, letter of credit or bond as security and legal fees and disbursements. If there is no amount owing by the Owner to the Contractor, then the Contractor shall reimburse the Owner for all of the said costs and expenses etc. of so doing.
- 3.7.10 Subcontracting by the *Contractor* shall not be construed as relieving the *Contractor* from any obligations under the Contract or imposing any liability upon the Owner, including for warranties."

#### GC 3.8 - LABOUR AND PRODUCTS

#### 38. Change paragraph 3.8.3 to read:

"3.8.3 The Contractor shall maintain good order and discipline among workers engaged on the Work and shall not employ or permit to be employed anyone not skilled in the tasks assigned."

#### 39. Add the following as new paragraphs 3.8.4 to 3.8.15:

- "3.8.4 If, pursuant to a Change Directive, the Owner expressly requests the Contractor to have Work performed at overtime rates in order to complete the Work (or any change in the Work) or any part thereof earlier than the Contractor would otherwise be obliged to finish such Work (or change in the Work) or any part thereof under the Contract Documents, the additional net cost of such overtime (less any savings realized by the Contractor through the earlier completion of the Work) shall be chargeable to the Owner.
- 3.8.5 The Contractor shall ensure that all Persons employed on the Work shall be fully qualified to perform the work required. The Owner shall also have the right, acting reasonably, without charge at any time to request that the Contractor remove any of its employees or any of its Subcontractors from the performance of the Work and the Contractor shall comply, provided that such request is lawful, reasonably justified in writing and the Contractor is given an opportunity to respond and address such issues consistent with the Contract and its obligations under Applicable Laws.
- 3.8.6 The Contractor shall not employ or hire any employees who are employed by the Owner.
- 3.8.7 All Products and materials brought onto the Place of the Work by the Contractor shall be deemed to be property of the Owner, but the Owner shall be under no liability for loss thereof or damage thereto arising from any cause whatsoever. The said Products and materials shall be at the sole risk of the Contractor.
- 3.8.8 Prior to the commencement of the Work, the Contractor shall furnish evidence of compliance with requirements of the AODA, including training for staff.
- The Contractor is responsible for the safe on-site storage of Products and their protection 3.8.9 (including Products supplied by the Owner and other contractors to be installed under the Contract) in such ways as to avoid dangerous conditions or contamination to the Products or other persons or property and in locations at the Place of the Work to the satisfaction of the Owner and the Consultant. The Owner shall provide all relevant information on the Products to be supplied by the Owner.

- 3.8.10 *Products* which are specified by their proprietary names, or by parts or catalogue number, shall form the basis for the *Specification* and *Contract*. No substitutes for these may be used without the *Consultant's* approval in writing.
- 3.8.11 The *Contractor* shall use all *Products* in strict accordance with the manufacturer's directions except where specified otherwise. Whenever specific reference to manufacturer's directions or instructions is made in *Specifications*, the *Contractor* shall submit copies of said instructions or directions, or both, for approval by the *Consultant* before commencing such *Work* and will provide the *Consultant* with *Notice in Writing* if it proposes to use alternate *Products* (if permitted in the *Contract Documents*).
- 3.8.12 Products are sometimes specified by reference to brand names, propriety names, trademarks or catalogue number or catalogue designation or symbols. In such cases, the name of a manufacturer, distributor, supplier or dealer is sometimes given to assist the Contractor to find a source of supply. This does not relieve the Contractor from its responsibly for finding its own source of supply even if the source named no longer supplies the Products specified. If the Contractor is unable to obtain the specified product, it shall supply a substitute product equal to or better than the specified product, as approved by the Consultant, with no extra compensation. Should the Contractor be unable to obtain a substitute product equal or superior to the specified product and the Owner accepts an inferior product, the Contract Price shall be adjusted accordingly, as approved by the Consultant.
- 3.8.13 All workmanship shall be of the highest quality performed by persons trained and skilled in accordance with best practices for each particular element of the *Work* and trade.
- 3.8.14 The foreperson of each trade engaged on the *Work* must be able to speak, read and understand the English language well enough to comprehend and carry out all instructions issued and to *Work* in complete co-ordination with other trades.
- 3.8.15 All deficiencies identified by the *Owner* and/or the *Consultant* shall be corrected promptly, and in any event within fifteen (15) days of being notified in writing of such deficiency unless otherwise agreed to. If the *Contractor* has not corrected any such deficiency within such fifteen days, the *Owner* may, directly or indirectly using another contractor, correct such deficiency and set-off the cost of such correction against other amounts owing to the *Contractor* or claim such costs from the *Contractor*. The *Contractor* shall remain bound by the terms of this *Contract* in respect of such corrected work as if such corrections were performed by it."

### **GC 3.10 - SHOP DRAWINGS**

- 40. Add the words "AND OTHER SUBMITTALS" to the title of GC 3.10.
- 41. Add the following to the end of the paragraph 3.10.1:

"or as the *Consultant* may reasonably request. The *Contractor* shall submit all *Drawings* and other submittals electronically and in reproducible form, or as reasonably requested by the *Consultant*."

- 42. Replace paragraph 3.10.3 with the following:
  - "3.10.3 The *Contractor* shall prepare a schedule of dates for provision, review and return of *Shop Drawings* and submit it to the *Consultant* for review prior to the *Contractor*'s first application for payment."
- 43. In paragraph 3.10.7, <u>add</u> the words "in a timely manner" after the words "provided to such authority". At the end of the paragraph, add the words "to ensure no delays in the Project Schedule"
- 44. In the first line of paragraph 3.10.8.1, delete the word "applicable".

#### GC 3.11 - USE OF THE WORK

#### 45. Add the following as new paragraphs 3.11.3 to 3.11.5:

- "3.11.3 Areas of the *Work* in occupied buildings or site shall be carried on at all times so that there will be a minimum of interference with the normal function of the facility and in accordance with a plan agreed to by the *Consultant* and the *Owner*.
- 3.11.4 The *Owner* shall have the right to enter and occupy the *Place of the Work* in whole or in part for the purpose of placing materials and/or equipment, or for other use before the date of *Substantial Performance of the Work* if, in the reasonable opinion of the *Owner*, such entry and occupation does not prevent or interfere with the *Contract Time* stipulated in the *Contract*; provided, however, if it does so prevent or interfere (individually or in the aggregate by at least a day), then the *Contract Time* shall be extended by the period of such delay.
- 3.11.5 Such entry or occupation shall neither constitute nor be considered as acceptance of the *Work*, or in any way relieve the *Contractor* of its responsibility to complete the *Work* or of its responsibility to act as *Constructor* for the whole of the Project, and shall not affect the warranty period and shall not imply acknowledgment of the fulfillment of any part of the *Contract*."

#### GC 3.12 – CUTTING AND REMEDIAL WORK

#### 46. Add the following as new paragraphs 3.12.5 to 3.12.7:

- "3.12.5 The *Contractor* shall, or shall cause any *Subcontractor* to, correct all *Work* which is, in whole or in part, defective, at its own expense.
- 3.12.6 If the *Contractor* and/or any *Subcontractor* damages the work of other *Subcontractor*(s), the *Contractor* shall be responsible to repair, or shall cause the *Subcontractor* to repair, such work at its own expense.
- 3.12.7 All cutting, patching, finishing, refinishing or restoring required and costs of such work shall be considered part of the *Specifications* for the *Work* which created the requirement."

#### GC 3.14 - OPERATIONAL RISKS

#### 47. Add new GC 3.14 – OPERATIONAL RISKS as follows:

#### **"GC 3.14 – OPERATIONAL RISKS**

- 3.14.1 The Contractor acknowledges and understands that the Place of the Work is a school or property relating to school operations, and will ensure that the Place of the Work is at all times safe and secure, and that the Work does not interfere with the day-to-day operations of the school at the Place of the Work without prior Notice in Writing to the Owner and the Owner's consent. If, at any time, the Contractor needs to shut down power or other utilities, or otherwise close off part of the Place of the Work in order to perform the Work, the Contractor must provide the Owner with a Notice in Writing which, except in the case of an emergency, must be delivered at least five (5) Working Days prior to such shut down or closing off. The Contractor will only perform any shut down of power or other utilities, or otherwise close off part of the Place of the Work after 6 p.m. during the school week or on weekends, unless otherwise agreed to between the Owner and Contractor
- 3.14.2 Before starting *Work*, the *Contractor* shall inform itself of the exact locations of all utilities and structures, and once the utilities are located, by the applicable utility company, or once the *Contractor* discovers, or once a reasonably prudent *Contractor* ought to have discovered, the actual location of the utilities, the *Contractor* shall be liable for damages to them as a result of any act or omission, whether or not the result of negligence, by those for whom it is responsible, except to the extent that such damages are caused by the *Owner's* negligence or wilful misconduct. Unless otherwise specified, the *Contractor* shall temporarily support or relocate such utilities and structures, or temporarily remove them, and restore them, to the satisfaction of the owners of the utilities and structures at the cost of the *Contractor*."

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#### GC 3.15 - CONTRACTOR STANDARD OF CARE

#### 48. Add a new GC 3.15 - CONTRACTOR STANDARD OF CARE as follows:

#### "GC 3.15 - CONTRACTOR STANDARD OF CARE

3.15.1 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*."

#### GC 3.16 - OCCUPANCY OF THE WORK

### 49. Add a new GC 3.16 – OCCUPANCY OF THE WORK as follows:

#### **"GC 3.16 – OCCUPANCY OF THE WORK**

- 3.16.1 The *Owner* reserves the right to take possession of and use for any intended purpose any portion or all of the undelivered portion of the *Project* even though the *Work* may not be substantially performed, provided that such taking possession and use will not interfere, in any material way, with the progress of the *Work*, including (without limitation) the right to store and cover materials and equipment at the *Place of Work*. The taking of possession or use of any such portion of the *Project* shall not be deemed to be the *Owner's* acknowledgement or acceptance of the *Work* or the *Project*, nor shall it relieve the *Contractor* of any of its obligations under the *Contract*.
- 3.16.2 Whether the *Project* contemplates *Work* by way of renovations in buildings which will be in use or be occupied during the course of the *Work* or where the *Project* involves *Work* that is adjacent to a structure which is in use or is occupied, the *Contractor*, without in any way limiting its responsibilities under the *Contract*, shall take all reasonable steps to avoid interference with fire exits, building access and egress, continuity of electric power and all other utilities, to suppress dust and noise and to avoid conditions likely to propagate mould or fungus of any kind and all other steps reasonably necessary to promote and maintain the safety and comfort of the users and occupants of such structures or adjacent structures.
- 3.16.3 The *Contractor* shall, as directed by the *Consultant*, give priority to certain parts of the *Work* and bring such parts to a "ready for use" or "ready to occupy" status. Such instructions may require installation of temporary stairs and exits and temporary services, all of which shall be provided and subsequently removed.
- 3.16.4 The *Contractor* shall maintain full access to the building for the *Owner's* use, as required. The *Contractor* shall maintain or restore heat and power to the above areas when necessary or as scheduled and keep existing utilities and services functional.
- 3.16.5 The *Contractor* shall keep all insurance or surety company or companies which have issued performance bonds, liability insurance and property insurance for this *Contract* informed of the extent of the occupancy. If the occupancy by the *Owner* requires adjustments of the bonds, or insurances, the *Contractor* shall, subject to the *Owner's* approval, initiate and pay for such adjustments on behalf of the *Owner* and a *Change Order* will be issued.
- 3.16.6 Once the building is occupied, if the *Owner* permits any *Work* (including correction of deficiencies and warranty work) to be performed during regular hours of operation, the *Contractor* may be required by the *Owner*, from time to time, to suspend or alter noisy or otherwise objectionable operations should such operations cause undue interference with the *Owner*'s operations, business or activities. The *Contractor* will not be entitled to any increase in the *Contract Price* as a result of any such suspension."

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#### **PART 4 – ALLOWANCES**

#### GC 4.1 - CASH ALLOWANCES

## 50. Replace paragraph 4.1.2 in its entirety with the following:

"4.1.2 The Contract Price, and not the cash allowances, includes the Contractor's overhead and profit in connection with such cash allowances. Cash allowances cover the net cost to the Contractor of services, Products, construction machinery and equipment, freight, unloading, handling, storage, installation and labour but do not include any Value Added Taxes (HST) payable by the Owner to the Contractor."

#### 51. Replace paragraph 4.1.5 in its entirety with the following:

"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*."

### 52. Add new paragraph 4.1.8 as follows:

"4.1.8 If directed by the *Consultant* or the *Owner*, the *Contractor* will competitively bid *Work* for which payment is made from a cash allowance in accordance with such direction."

#### **PART 5 - PAYMENT**

# 53. Replace GC 5.1 – FINANCING INFORMATION REQUIRED OF THE *OWNER* in its entirety with the following:

#### GC 5.1 - DRAFT APPLICATION FOR PAYMENT

- "5.1.1 On the 25th day of each month during the Contract Time, the Contractor will deliver to the Consultant a draft of the Contractor's proposed application for payment for all of the Work performed by the Contractor in that month, in order to facilitate and expedite payments under GC 5.2 APPLICATIONS FOR PROGRESS PAYMENT, GC 5.3 PROGRESS PAYMENT and GC 5.8 FINAL PAYMENT, including an estimate of the Work to be performed and Products to be delivered at the date of such application for payment but before the end of that month, and including any reports or certificates confirming the satisfactory completion of any commissioning and testing required by the Contract Documents for any completed part of the Work that the Contractor will include in its application for payment. The Contractor shall not include Products delivered to the Place of the Work but not yet incorporated into the Work in its application for payment.
- "5.1.2 Upon request, the *Contractor* shall review with the *Consultant* and the *Owner*, at a scheduled time, the draft application for payment and the percentage of the *Work* completed for each item indicated in the schedule of values. This procedure shall be complied with for each draft application for payment."
- "5.1.3 Nothing in GC 5.1 DRAFT APPLICATION FOR PAYMENT is intended to condition, precondition, prevent or delay the *Contractor's* right to submit its applications for payment in accordance with this *Contract* and the *Construction Act.*"

#### GC 5.2 - APPLICATION FOR PROGRESS PAYMENT

### 54. Replace paragraph 5.2.1 and 5.2.2 with the following:

- "5.2.1 Notwithstanding GC 5.1 DRAFT APPLICATION FOR PAYMENT, the *Contractor* shall submit its applications for payment to the *Consultant* and the *Owner* monthly as the *Work* progresses no earlier than the first *Working Day* after the end of the month to which the application for payment relates.
- "5.2.2 The Contractor shall ensure that each application for payment for Work complies with the requirements set out in this Contract, and will include as part of it application for payment of all the documents and information required in this Part 5 PAYMENT and required for a Proper

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*Invoice*, including any reports or certificates confirming the satisfactory completion of any commissioning and testing required under the *Contract Documents* for any completed part of the *Work*. The *Contractor*'s application for payment will indicate any and all changes, updates or revisions made to the draft application for payment submitted under paragraph 5.1.1. The *Owner* may, in its discretion, reject any application for payment that does not comply with GC 5.2 – APPLICATIONS FOR PROGRESS PAYMENT or GC 5.3 – PROGRESS PAYMENT, or the *Owner* may withhold up to 100% of the amounts otherwise payable in relation to that application for payment until such application for payment includes all of the documents and information required under this Part 5 – PAYMENT and for a *Proper Invoice*."

#### 55. Replace paragraphs 5.2.4 to 5.2.7 with the following:

- "5.2.4 Subject to paragraph 5.2.5, each *Contractor*'s application for payment shall be in a form agreed to by the *Owner* and the *Contractor*, and shall contain all of the information and documents required for a *Proper Invoice* under *Applicable Laws* and under the *Contract*, and as requested by the *Owner* or *Consultant*.
- 5.2.5 The Contractor shall submit to the Owner and Consultant by email to the Owner's accounts payable department email address in accordance with paragraph 6.1 of Article A-6 of the Agreement RECEIPT OF AND ADDRESSES FOR NOTICES IN WRITING and to the Consultant at least ten (10) days before the first application for payment, a schedule of values of the various parts of the Work, aggregating the total amount of the Contract Price, so as to facilitate evaluation of applications for payment, and the Contract Price Breakdown if not already provided to the Owner in the Contractor's bid documents.
- 5.2.6 The schedule of values shall be made out in such form and supported by such evidence as the *Consultant* may reasonably direct and, when accepted by the *Consultant*, shall be used as the basis for applications for payment, unless it is found to be in error.
- 5.2.7 The *Contractor* must provide with each application, an up to date cash flow projection detailing the timing and amount of anticipated cash disbursements required by the *Owner* for the remainder of the *Work*."

#### 56. Add new paragraph 5.2.8 as follows: GC 5.2 - APPLICATION FOR PROGRESS PAYMENT

"5.2.8 The *Contractor* shall not include *Products* delivered to the *Place of the Work* but not yet incorporated into the *Work in its* application for payment."

#### **GC 5.3 – PROGRESS PAYMENT**

## 57. Replace paragraph 5.3.1.3 with the following:

"5.3.1.3 Subject to any *Milestones* or other payment process set out in the *Special Conditions*, the *Owner* shall make payment to the *Contractor* on account as provided in Article A-5 of the Agreement – PAYMENT no later than 28 Days after the date the Contractor's application for payment, that complies with the obligations of this Contract is received by the *Owner* from the *Contractor*."

#### 58. Add the following as new paragraphs 5.3.2 through 5.3.6 inclusive:

- "5.3.2 The application by the *Contractor* for a certificate of payment will constitute a representation by the *Contractor* to the *Owner* that: (1) the *Work* has progressed to the point indicated; (2) the quality of the *Work* is in accordance with the *Contract Documents*; (3) the application for payment is a "Proper Invoice" under *Applicable Laws*; and (4) the *Contractor* is entitled to payment under the *Contract Documents* in the amount certified.
- 5.3.3 The Consultant or the Owner may decline to approve an application for payment and may withhold a certificate for payment in whole or in part, to the extent necessary to protect the Owner, if in the Consultant's opinion the Contractor is unable to make representations to the Owner as provided in paragraph 5.3.2 of this GC 5.3. The Consultant or the Owner may also decline to approve any application for payment or, because of subsequently discovered

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evidence, testing or subsequent inspections, the *Consultant* or the *Owner* may provide for a withholding of funds to offset a previous payment made pursuant to any certificate for payment previously issued, the *Owner* shall be entitled to deduct from or set off against any payment of the *Contract Price* and any other amounts payable by the *Owner* to the *Contractor* pursuant to GC 13 – SET-OFF, or the *Owner* may refuse to make payment, to such extent as may be necessary in his opinion to protect the *Owner* from loss because of:

- .1 defective Work not remedied;
- .2 third party claims filed or reasonable evidence indicating possible filing of such claims;
- .3 failure of the *Contractor* to make undisputed payments promptly to *Subcontractors*, *Suppliers* or for labour, *Products* or equipment;
- .4 damage to *Work* of other contractors; or
- .5 unsatisfactory prosecution of the *Work* by the *Contractor* or any *Subcontractor*.
- 5.3.4 If the *Owner* has reasonable grounds for believing that any amount included in previous applications for payment of the *Contractor* or paid to the *Contractor* by the *Owner* has not been paid to *Subcontractors*, *Suppliers* or other third parties to whom such amounts are due, then the *Owner* may withhold payment in respect of such amount from the current application until satisfactory evidence of payment is provided to the *Owner* by the *Contractor*.
- 5.3.5 All progress payments are not conclusive as to the value or quality of services provided and are subject to further evaluation and readjustment on future and final progress payments. The submission of monthly draw amounts by the *Contractor* and *Subcontractors* must reflect accurate valuations for *Work* completed and installed. The *Contractor* shall review and evaluate all *Work* performed by *Subcontractors* and be responsible for verifying the monthly draw amounts claimed.
- 5.3.6 Once Substantial Performance of the Work has been achieved, the Contractor shall not submit, and the Owner shall not be obliged to pay, any further applications for payment until the Contractor's final application for payment under GC 5.7 FINAL PAYMENT, and the Consultant will not be required to certify the completion of any Work or application for payment unless and until Total Performance of the Work has been achieved and all deficiencies corrected."

#### GC 5.4 - SUBSTANTIAL PERFORMANCE OF THE WORK

#### 59. Replace paragraphs 5.4.2 to 5.4.7 with the following:

- "5.4.2 The Contractor shall provide the Owner with Notice in Writing of the expected date for Substantial Performance of the Work at least 30 days, and not more than 60 days, in advance of attaining Substantial Performance of the Work. Such Notice in Writing will include a final checklist of items to be completed in order to attain Substantial Performance of the Work (the "Substantial Performance Checklist") setting out all required Work remaining in order to attain Substantial Performance of the Work, including the correction of all deficiencies and delivery of all deliverables required under the Contract Documents.
- When the Contractor considers that the Work has attained Substantial Performance of the Work, the Contractor shall, within 1 Working Day, deliver to the Consultant and to the Owner, for their approval, a final Contract Price Breakdown, and a comprehensive list of items to be completed or corrected (the "Completion List"), including all uncompleted items of work set out on the Substantial Performance Checklist, together with (1) a schedule of the estimated value and cost to complete all of the Work and items identified in the Completion List in order to attain Total Performance of the Work (the "Completion List Costs"), and (2) a written application for a review by the Consultant to establish and certify Substantial Performance of the Work. Failure to include an item on the Completion List does not alter the responsibility of the Contractor to complete all of the Work required by the Contract Documents.
- 5.4.4 In addition to the requirements of *Construction Act* and for a *Proper Invoice* under this *Contract*, the *Contractor* shall submit, with the written application for a certificate of *Substantial Performance*

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of the Work, all guarantees, warranties, and certificates, distribution system diagrams, any spare parts or materials required by the *Contract Documents* or left over from the *Work* by the *Contractor* and wanted by *Owner*, "as built" drawings, testing and balancing reports, maintenance manuals, reports from authorities having jurisdiction, shop drawings, inspection certificates, keys, maintenance materials, Form 6 under the *Construction Act*, confirmation of all require training having been performed to the Owner's satisfaction, and any other materials or documentation required to be submitted under the *Contract*, in acceptable manner and condition, together with written proof, acceptable to *Owner* and *Consultant*, that the *Work* has been substantially performed in conformity with the requirements of the municipal or governmental authorities and utilities having jurisdiction. For clarity, the *Consultant* shall be at liberty to refuse to certify *Substantial Performance of the Work* in the event that the *Contractor* refuses or neglects to provide any of the items listed in this paragraph.

- 5.4.5 Immediately following the issuance of the Certificate of *Substantial Performance of the Work*, the *Contractor*, in consultation with the *Consultant*, shall establish a reasonable date for finishing the *Work*.
- 5.4.6 The acceptance by the *Contractor* of the certificate of *Substantial Performance of the Work*, or the acceptance of a certificate by a *Subcontractor* or for any payment due thereunder shall constitute a waiver by either the *Contractor*, or the *Subcontractor*, as the case may be, of all claims whatsoever against the *Owner* under this *Contract* or any trade subcontract whether for a change in the *Contract Price*, extension of *Contract Time*, or otherwise, except those made in writing prior to the *Contractor's* application for payment upon *Substantial Performance of the Work* and still unsettled, those relating solely to *Work* performed after the date of *Substantial Performance of the Work*, and those not permitted to be waived under *Applicable Laws*.
- 5.4.7 The Owner may withhold additional funds from any payment owing to the Contractor up to an amount equal to 200% of the Completion List Costs. With respect to any manuals, operations instructions or other deliverables required to be delivered under the Contract Documents but which have not been delivered, the Owner may include in the Completion List Costs an amount equal to the greater of the Owner's reasonable estimate of the actual cost of the Owner producing such deliverables itself and 1% of the Contract Price. The Owner will pay the Contractor such withheld amounts on the later to occur of: (1) the date the Contractor completes all of the Work under the Contract (including correction of all deficiencies) as certified by the Consultant, (2) the date of the final calculation of all costs (including the costs of the Owner correcting any deficiencies and subtracting such costs from amounts owing to the Contractor), and (3) the date specified in a binding decision of an arbitrator or order of a court."

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

- 60. Delete paragraph 5.5.1 and replace it with the following:
  - "5.5.1 After the issuance of the certificate of *Substantial Performance of the Work*, the *Contractor* shall, within 30 days of the date of the certificate, deliver to the *Owner* all of the documents and information required for a *Proper Invoice*, and the following additional documents:
    - .1 a declaration that no notices of adjudication have been received by the *Contractor* from any *Subcontractor* or *Supplier* in relation to the *Work* that could extend the date of the expiration of any applicable lien period under the *Construction Act*, and
    - .2 a declaration that no written notices of lien have been received, or, if received, the underlying lien has been discharged, vacated or otherwise removed."
- 61. In the first line in paragraph 5.5.2, <u>replace</u> the words "statement as provided in paragraph 5.5.1" with "the documents required by the *Owner* to be provided pursuant to paragraph 5.5.1".
- 62. Delete paragraph 5.5.3 in its entirety.

#### **GC 5.7 – FINAL PAYMENT**

#### 63. Replace paragraph 5.7.4 with the following:

"5.7.4 Subject to the provision of paragraph 10.4.1 of GC 10.4 – WORKERS' COMPENSATION and the *Construction Act*, and subject to any *Milestones* or other payment process set out in the *Special Conditions*, the *Owner* shall, on the earlier of 10 *Days* after the issuance of a final certificate for payment by the *Consultant* and the 28th *Day* following receipt by the *Consultant* of the final application for payment from the *Contractor* that includes all of the documents and information required for a *Proper Invoice*, pay the *Contractor* as provided in Article A-5."

#### 64. Add the following as new paragraph 5.7.5:

"5.7.5 The Contractor shall submit, with the application for final payment upon Total Performance of the Work, in the form attached as Schedule 1, a Statutory Declaration and a written statement that the Work has been performed to the requirements of the Contract Documents and all Completion List items have been completed. The Consultant may refuse to approve the Contractor's application for final payment if the Contractor is not able to provide such documents or, acting reasonably, believes them to not be accurate. The Contractor's application for final payment may include a claim for all outstanding Deficiency Holdbacks and Performance Holdbacks that the Owner continues to retain."

#### **GG 5.10 - LIENS**

#### 65. Add new GC 5.10 - LIENS as follows:

#### **"GG 5.10 - LIENS**

- 5.10.1 Notwithstanding anything else in this GC 5, but subject to the *Construction Act*, the *Owner* or the *Consultant* shall not be obligated to issue a certificate for payment in accordance with the *Contract*, and the *Owner* shall not be obligated to make payment to the *Contractor*, if, and to the extent, at the time such certificate or payment was otherwise due:
  - a claim for lien has been registered against the *Project* site, the *Owner* has received a written notice of lien by the *Contractor* or any *Subcontractor* or *Supplier*;
  - .2 the Owner is not permitted to make payment under Applicable Laws; or
  - .3 the *Owner* reasonably believes that any party may retain or has retained any right, title or interest to *Products* or materials in respect of which an application for payment has been made including, *without limitation*, a claim under the *Personal Property Security Act (Ontario)* or similar legislation applicable to the *Place of the Work*, a lien, attachment or secured claim.

For clarity, the *Owner's* entitlement to withhold payment to the *Contractor* pursuant to this paragraph 5.10 shall be limited to claims for liens and written notices of lien by *Subcontractors*, *Suppliers* and those for whom the *Contractor* is otherwise responsible."

#### PART 6 – CHANGES IN THE WORK

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

#### 66. Replace paragraph 6.1.2 with the following:

"6.1.2 No changes in the Work shall proceed without a written Change Order or Change Directive signed by the Owner and no claim for any change in the Contract Price or for any extension or alteration of the Contract Time shall be valid except as shown on the Change Order or Change Directive, as the case may be. This requirement is of the essence and it is the express intention of the Parties hereto that any claims for a change in the Contract Price shall be based, and that the Contract Time shall be altered, only upon strict compliance with the requirements of Part 6 of the General Conditions – CHANGES IN THE WORK. Accordingly, no course of conduct or dealing between the Parties, no express or implied acceptance of alterations or additions to the Work and no claim that the Owner has been unjustly enriched by any alteration or addition to

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the *Work*, whether in fact there is any such unjust enrichment or not, shall be the basis of a claim for payment under this *Contract* or any extension of the *Contract Time* without a *Change Order* or *Change Directive.*"

#### 67. Add the following as new paragraphs 6.1.3 to 6.1.6:

- 6.1.3 If any change is approved for which a cash allowance or contingency allowance has been established in the budget for the *Project*, the costs of such change *Work* and any mark-up shall be drawn from such allowance first before any increase in the *Contract Price*, and shall be subject to the limitations set out in paragraph 6.1.5.
- 6.1.4 If any change or deviation in, or omission from the *Work* is made by which the amount of *Work* to be done is decreased, or if the whole or a portion of the *Work* is dispensed with, no compensation is claimable by the *Contractor* or any *Subcontractor* for any loss of anticipated profit in respect thereof.
- 6.1.5 Subject to first drawing from an allowance in accordance with paragraph 6.1.3, when the valuation of a change in the *Work* is to be determined either by estimate and acceptance in a lump sum, or by cost and fixed, or, percentage fee, the valuation shall be in accordance with the following:
  - .1 Mark Up Cost of net increases or decreases to the *Contract Price* due to changes in the *Work* shall be marked-up as follows:
    - (a) for *Work* performed by *Contractor*'s own forces, *Contractor* shall be entitled to 10% on actual costs of materials and labour for all overhead and profit;
    - (b) for *Work* performed by *Subcontractors*, *Subcontractors* shall be entitled to 10% on actual costs of material and labour for all overhead and profit, and the *Contractor* shall be entitled to 3% of *Subcontractor's* actual costs of material and labour (excluding overhead and profits); and
    - in all cases, overhead and profit shall be deemed to include all costs, including additional supervision, coordination, bonding, insurance, taxes, hoisting, cleanup, office administration, and photocopying.
  - .2 The costs for the following items shall be considered to be included in the allowance for overhead and profit:
    - (a) Contractor's head office expenses,
    - (b) Wages of project managers, superintendents, assistants, watchpersons and administrative personnel,
    - (c) Temporary site office expenses, including costs for telephone and facsimile machine.
    - (d) Small tools,
    - (e) Insurance and bonding premiums,
    - (f) As built drawings, and
    - (g) Time for estimating changes in the Work
  - .3 Substantiation When requested, the *Contractor* shall submit details, quantities, prices, and fees together with substantiating documentation for all *Change Orders*.
  - .4 Time for submission and acceptance of quotations The *Contractor* shall co-operate in the pricing of changes by submitting quotations within 10 calendar days of the *Consultant's* request. Quotations shall remain open for acceptance for 21 *Working Days* from the date of submission.
- 6.1.6 If changes to the *Contract* become in excess of 10% of the *Contract Price*, the *Contractor* shall inform insurance or surety company or companies who have applicable performance bonds,

liability insurance and property insurance for this *Contract*, of these changes. Where required by the above-noted sureties, the *Contractor* shall initiate and pay such adjustments on behalf of the *Owner* and a *Change Order* will be issued by the *Consultant*, to reimburse the *Contractor*. Where the sureties do not require such adjustments, the *Owner* may waive the requirement to such adjustment."

#### GC 6.2 - CHANGE ORDER

# 68. Replace paragraph 6.2.1 with the following:

"6.2.1 When a change in the Work is proposed or required, subject to first drawing from an allowance in accordance with paragraph 6.1.3, the Consultant will provide the Contractor with a written description of the proposed change in the Work. The Contractor shall promptly present, in a form acceptable to the Consultant, the proposed amount of adjustment for the Contract Price (which amount shall be determined in the same manner as the adjustment in the Contract Price is determined pursuant to GC 6.1 - OWNER'S RIGHT TO MAKE CHANGES and GC 6.3 -CHANGE DIRECTIVE), if any, and any adjustment in the Contract Time, if any, for the proposed change in the Work. The Contractor may only propose a change in the Work together with any resulting claim for a change in the Contract Price or Contract Time if the Contractor demonstrates (a) a reasonable and justifiable increased cost to the Contractor, and/or (b) a reasonable and justifiable claim for extension of the Contract Time which ultimately, as determined by critical path methodology, delays the Contract Time; (c) the Contractor has submitted a Notice in Writing of its intention to submit a proposal to the Owner for a change in the Work within ten (10) Working Days of the date the Contractor knew or ought to have known that the circumstances giving rise to increased costs or delays occurred; and, (d) the Contractor has exercised reasonable due diligence, without incurring material extra costs, in time and effort in order to mitigate the circumstances giving rise to the increased cost or delay."

#### **GC 6.3 – CHANGE DIRECTIVE**

- 69. <u>Delete</u> paragraphs 6.3.2 and 6.3.3.
- 70. In the second line of paragraph 6.3.6.2, replace the word "without" with the word "with."
- 71. Replace paragraph 6.3.6.3 with the following:
  - ".3 The *Contractor's* fee for changes shall be calculated as set out in paragraph 6.1.5.1 or as otherwise agreed by the *Parties*; and
  - .4 Upon receipt of a *Change Directive*, the *Contractor* shall provide the *Owner* a non-binding written estimate of the costs associated with the related change in the *Work* within five (5) Working Days of receiving any such *Change Directive*."

#### 72. Replace the first line of paragraph 6.3.7 with the following:

"6.3.7 The cost of performing the *Work* attributable to the *Change Directive* shall mean only the actual costs, without duplication and without any mark-up by the *Contractor* (other than the percentage fee described in paragraph 6.1.4 of GC 6.1 OWNER'S RIGHT TO MAKE CHANGES and paragraph 6.3.6), described in this paragraph 6.3.7 which are paid or payable by the *Contractor* and necessarily incurred by the *Contractor* in the proper performance of the *Work* attributable to the *Change Directive* or described as a cost to be paid or payable by the *Owner* to the *Contractor* pursuant to the *Contract*. All amounts charged as cost of performing the work attributable to the *Change Directive* shall be subject to review and verification by audit at the request of the *Owner*. No cost of performing the work attributable to the *Change Directive* shall be at rates higher than the prevailing market rates for the *Place of the Work* unless authorized through the prior written consent of the *Owner*, which consent may be withheld by the *Owner* in its sole discretion. The cost of performing the work attributable to the *Change Directive* shall be limited to the actual cost of the following:"

#### 73. Replace paragraph 6.3.7.1 with the following:

- ".1 salaries, wages and benefits paid for labour in the direct employ of the *Contractor* under applicable collective bargaining agreements, or under a salary schedule agreed upon by the *Owner* and the *Contractor*, while engaged on the *Work* at the *Place of the Work*, other than salaries, wages and benefits paid in relation to the work required to correct mistakes, deficiencies or damage attributable to the *Contractor*;
- 74. In the first line of paragraph 6.3.7.6, <u>add</u> the word "rental" prior to the words "tools and *Construction Equipment*".
- 75. At the end of paragraph 6.3.7.11, <u>add</u> the words "unless such charges result from the failure of the *Contractor* to perform its obligations under this Agreement or in accordance with *permits*, *licenses*, *approvals* and *agreements* or *Applicable Laws*".
- 76. Add the following as new paragraphs 6.3.14 and 6.3.15:
  - "6.3.14 Notwithstanding anything in this *Contract* to the contrary, the *Owner*, without invalidating the *Contract*, may make minor adjustments in the *Work* consistent with the intent of the *Contract Documents* by delivering a *Change Directive*. Such adjustments in the *Work* shall not involve adjustment to the *Contract Price* or the *Contract Time* if they are within the general scope of the *Work*, if the *Change Directive* indicates that no adjustment shall be made to the *Contract Price* or the *Contract Time* as a result thereof and if such minor adjustments are reasonably inferable in the *Contract Documents* even though not expressly included.
  - 6.3.15 Upon receipt of a *Change Directive*, the *Contractor* may be directed by either the *Owner* or the *Consultant* to proceed with extra work on the basis of daily force account sheets (also referred to as "daily extra work order sheet", "daily work records", or "daily time sheet") provided:
    - .1 pre-approved. all inclusive, labour, material, and equipment rental charge out unit rates are on file with the *Consultant*.
    - .2 whenever extra work is being performed in accordance with paragraph 6.3.15, the *Contractor* shall submit daily force account sheets for approval to/by the *Consultant* showing the quantities of labour, materials and equipment used directly in carrying out each order for work on the preceding day, together with substantiating documentation. No claim for compensation for extra work will be considered in absence of such force account sheets. The *Consultant* will not allow any compensation for the cost of repairs to equipment or for damage to anything used in performing such extra work, and
    - .3 the *Contractor* shall not be entitled to interest on any bill for extra work on account of delay in the approval of such extra work by the *Consultant*, or the *Owner*."

#### GC 6.4 - CONCEALED OR UNKNOWN CONDITIONS

#### 77. **Replace** paragraphs 6.4.1, 6.4.2, 6.4.3 and 6.4.4. with the following:

- "6.4.1 The Contractor confirms that, prior to entering into the Contract, it has carefully investigated the Place of the Work, the character of the Work and of all local conditions which might affect its obligations and has satisfied itself as to the nature and extent of the Work to be done under the Contract Documents and as to the facilities and difficulties attending the execution of the Work, including subsurface conditions. The Contractor confirms that it applied to that investigation the degree of skill and care described in paragraph 3.1.7 of GC 3.1 CONTROL OF THE WORK.
- Notwithstanding anything in the *Contract* to the contrary, to the extent the *Contractor* has not so investigated, it is willing to assume and does hereby assume responsibility for all loss and damage from any cause whatsoever which such an investigation might have avoided and agrees to indemnify the *Owner* from all risk thereof and of conditions arising and developing in the course of the *Work* which might make it more onerous and more expensive to fulfil or perform than was contemplated or known when this *Contract* was signed. For greater clarity, the *Contractor* is not entitled to any additional compensation or to an extension of the *Contract Time* for conditions which could reasonably have been ascertained by the *Contractor* by such careful

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investigation undertaken prior to the execution of the *Contract* and as described in GC 1.8 - EXAMINATION OF DOCUMENTS AND SITE.

6.4.3 Notwithstanding anything in the *Contract* to the contrary, the *Contractor* acknowledges and declares that in entering into this *Contract* it did not and does not rely upon the information furnished by the *Owner*, its officers and employees and the *Contractor* confirms its understanding and awareness that any information from such source or sources was approximate and speculative only and was and is not in any manner guaranteed by the *Owner*."

#### GC 6.5 - DELAYS

#### 78. Replace paragraph 6.5.1 with the following:

- "6.5.1 If the *Contractor* is delayed in the performance of the *Work* by an action or omission of the *Owner*, or anyone directly employed or engaged by the *Owner*, contrary to the provisions of the *Contract Documents*, then provided:
  - .1 the delay impacts the critical path of the *Project* as determined by the construction schedule; and
  - .2 the *Contractor* uses commercially reasonable efforts to mitigate its *Losses* suffered as a result of such delay, the *Contract Time* shall be extended for such reasonable time as the *Owner* may agree in consultation with the *Contractor* and the *Contractor* shall be reimbursed by the *Owner* for reasonable costs (except any indirect or consequential costs or *Losses*) incurred by the *Contractor* as a result of such delay.

For greater certainty, the *Parties* acknowledge and agree that the *Owner* shall not be liable for any delay or part thereof that occurs concurrently with an independent cause of delay for which the *Owner* is not responsible. In addition, in the event the *Owner* is responsible for two or more separate causes of delay that run in whole or in part parallel to each other, those two or more events shall be considered as one for the purpose of determining the duration of the extension of the *Contract Time* to be provided to the *Contractor*.

Where the *Contractor* is delayed or otherwise hindered in the performance of the *Work* in a manner for which it is not responsible under the provisions of this *Contract*, a change to the *Contract Time* may be determined by the *Owner* in accordance with the provisions of Part 6 – Changes in the *Work* of the General Conditions of the *Contract*, as amended by these Supplementary Conditions. Such change shall be considered only where the *Contractor* experiences repeated and significant impediments to its accomplishment of the construction schedule that:

- 1. could not have been foreseen by the *Contractor* through its inspection and examination of all existing conditions affecting the *Work* and its ways and means of accomplishment, as required by the *Contract Documents*;
- substantially affects the construction schedule as determined by critical path method evaluation:
- 3. have been adequately demonstrated to the satisfaction of the *Owner*, and
- 4. that other means of attaining the required performance have been exhausted."
- 79. Immediately after the words "labour disputes" at the beginning of paragraph 6.5.3.1, <u>replace</u> the words ", 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)" with the following:

"that do not involve the *Contractor*, or that are decreed for its members by a recognized *Contractor*'s association of which the *Contract*or is a member or to which the *Contractor* is otherwise bound, or that could not have been foreseen by the *Contractor* prior to the date of this *Contract*."

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- 80. Immediately after the words "abnormally adverse weather conditions" in paragraph 6.5.3.3, add the words ", provided that the *Contractor* has taken commercially reasonable efforts to avoid and mitigate any delay, damage to property, or both that could arise from such conditions".
- **81.** At the end of paragraph 6.5.3, delete the end of the last sentence ", *Consultant*, or anyone employed or engaged by them directly or indirectly.
- 82. Following the words "given to the *Consultant*" in the first line of paragraph 6.5.4, <u>add</u> the words "and the *Owner*". <u>Add</u> the following at the end of this paragraph:

"The Contractor's Notice in Writing must expressly include an estimate of any extension of time, in order to be entitled to an extension of the Contract Time, and an estimate of any increase in the Contract Price in order to be entitled to an increase in the Contract Price."

#### 83. Add new subparagraph 6.5.6:

"6.5.6 If the *Contractor* is delayed in the performance of the *Work* by an act or omission of the *Contractor* or anyone employed or engaged by the *Contractor* directly or indirectly, or by any cause within the *Contractor*'s control, then the *Contractor* will make all reasonable efforts to eliminate or reduce any delay or mitigate the consequences of such delay, including working overtime and weekend, and, in any event, will not be entitled to any extension in the *Contract Time* without the express written approval of the *Owner*. If the *Owner* approves any such extension, the *Contract Time* shall be extended for such reasonable time as the *Consultant* may decide in consultation with the *Contractor* and expressly approved in writing by the *Owner*. The *Owner* shall be reimbursed by the *Contractor* for all reasonable costs incurred by the *Owner* as the result of such delay, including all services required by the *Owner* from the *Consultant* as a result of such delay by the *Contractor* and, in particular, the cost of the *Consultant*'s services during the period between the date of *Substantial Performance of the Work* stated in Article A-1 herein as the same may be extended through the provisions of these General Conditions and any later, actual date of *Substantial Performance of the Work* achieved by the *Contractor*."

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

- 84. In the second line of paragraph 6.6.5, add the words "as noted in paragraph 6.6.3", after the words "of the claim".
- 85. At the end of paragraph 6.6.5, delete the period and add the words "and the Consultant".
- 86. Add new paragraph 6.6.7
  - "6.6.7 The *Owner* may make claims arising out of the costs incurred for additional services provided by the *Consultant* resulting directly from the *Contractor's* failure to reasonably perform the Work in accordance with the terms and conditions of the Contract, including the *Contractor's* issuance of unnecessary requests for information, including any additional *Consultant's* fees."

#### **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

- 87. In the second line of paragraph 7.1.2, <u>replace</u> the words "and if the *Consultant* has given a written statement to the *Owner* and *Contractor* that sufficient cause exists to justify such action" with the words "including, but not limited to, the failure of the *Contractor* to pay its *Subcontractors*, *Suppliers* or workmen on a timely basis".
- 88. In paragraph 7.1.3.1, <u>add</u> the words "acceptable to the *Owner*" after the words "specified time" and add the words "in a manner acceptable to the *Owner*" after the word "correction".
- 89. Add the following sentence at the end of paragraph 7.1.3.2:

"An "acceptable schedule" as referred in this paragraph means a schedule accepted by the Owner wherein the default can be corrected within the balance of the Contract Time and shall

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not cause delay to any other aspect of the *Work* or the work of other contractors, and in no event shall it be deemed to give a right to extend the *Contract Time*."

- 90. At the end of paragraph 7.1.3.3, add the words "to the satisfaction of the Owner".
- 91. In the first line of paragraph 7.1.4, after the words "subsequently agreed in writing by the parties," <a href="mailto:add">add</a> the words "or if the Contractor is delayed for 180 days or longer in the performance of the Work and notwithstanding anything else herein provided,".
- 92. At the end of the first sentence in paragraph 7.1.4.1, <u>delete</u> the words "provided the *Consultant* has certified such cost to the *Owner* and the *Contractor*".
- 93. Add the following as new paragraphs 7.1.7 to 7.1.9:
  - "7.1.7 The Consultant or the Owner in consultation with the Consultant may stop any portion of the Work, if, in its judgement, the weather is such as to prevent the Work being properly done. In such circumstances, the Contractor shall take commercial reasonable efforts to protect the Work, and Products and Equipment, including covering and heating if applicable. No compensation of any kind will be made for such stoppage except an extension of time for the completion of the Work as provided in paragraph 6.5.3 of GC 6.5 DELAYS.
  - 7.1.8 In addition to the rights set out in this GC 7.1, if the *Owner* has reasonable grounds for believing and does believe that the *Contractor* will not fulfil his contractual obligations hereunder, then the *Owner* shall also be entitled, on the giving of seven (7) days' *Notice in Writing*, to terminate the *Contractor*'s right to continue with the *Work* in whole or in part or terminate the *Contract*, and in such event the *Contractor* shall be entitled to be paid for all *Work* performed to the date of termination and the *Contractor* shall, at the request of the *Owner*, assign to the *Owner* all of its rights under any subcontractors that the *Owner* may specify and the *Owner* shall thereafter assume all obligations under such subcontracts. The *Owner* shall not be liable to the *Contractor* for any other costs or damages whatsoever arising from such early termination of the *Contract*, including, *without limitation*, any amount on account of lost profit or unabsorbed overhead.
  - 7.1.9 Termination pursuant to paragraph 7.1.8 shall not relieve the *Contractor* of its obligations related to the *Work* performed to the date of termination."

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

- 94. Add the following to paragraph 7.2.1: "A duplicate of this notice shall be sent concurrently to the Consultant."
- 95. Delete paragraph 7.2.3.1.
- 96. Replace paragraph 7.2.3.3 with the following:
  - ".3 the *Owner* fails to pay the *Contractor* when due undisputed amounts certified by the *Consultant* or awarded by adjudication, arbitration or court within a reasonable time, or"
- 97. In the middle of paragraph 7.2.3.4, <u>delete</u> the words ", except for GC 5.1 FINANCING INFORMATION REQUIRED OF THE *OWNER*,".
- 98. Add the following at the end of paragraph 7.2.3.4:
  - "; provided that, if any default referred to in the *Contractor's Notice in Writing* is the subject of an adjudication, mediation, arbitration or court proceedings, the *Contractor* shall be estopped from suspending the *Work* or terminating the *Contract* until resolution or termination of such proceedings."
- 99. Add the following as new paragraph 7.2.3.5:
  - ".5 The foregoing defaults in contractual obligations shall not apply to the withholding of certificates or payments, or both, in accordance with the General Conditions, because of the *Contractor's* failure to pay all claims promptly, nor because of the registration of liens against the *Owner's* property, until such claims and liens are discharged."

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- 100. In the middle of paragraph 7.2.4, replace the words "5 Working Days" with "30 Working Days".
- 101. Add paragraphs 7.2.6 and 7.2.7 as follows:
  - "7.2.6 If the *Contractor* stops the *Work* or terminates the *Contract* in accordance with the paragraphs above, it shall leave the *Place of the Work* and the Work in a secure condition as required by jurisdictional authorities and the *Contract Documents*.
  - 7.2.7 The provisions of this GC7.2 shall not apply in the case of, and a non-payment by the *Owner* will not be considered a default if resulting from, the withholding of certificates and/or payments because of the Contractor's failure to pay all just claims promptly, or because of the registration of a lien against the *Place of the Work*, nor shall they apply to the *Owner's* withholding, set-off, or deduction of monies to cover costs incurred in correcting deficiencies as provided or permitted under the *Contract*."

#### **PART 8 – DISPUTE RESOLUTION**

#### GC 8.1 - AUTHORITY OF THE CONSULTANT

- 102. Add the following new paragraph 8.1.4:
  - "8.1.4 The provisions of Part 8 DISPUTE RESOLUTION shall apply to all disputes, and a party may commence the dispute resolution process set out in this Part, notwithstanding the commencement of any adjudication proceedings required by *Applicable Law*."

#### GC 8.2 - NEGOTIATION, MEDIATION AND ARBITRATION

- 103. In the second line of paragraph 8.2.6, <u>replace</u> the word "refer" with "propose to the other party for".
- 104. Add the following new paragraphs 8.2.9 to 8.2.12:
  - "8.2.9 Notwithstanding anything in Part 8 of the General Conditions DISPUTE RESOLUTION to the contrary, if any person that is not a party to this *Contract* brings a claim against the *Owner* by way of an application, notice of adjudication, action, counterclaim, third party claim or any other manner which also involves or relates in any way to a dispute or an issue in dispute between the *Owner* and the *Contractor*, then the *Parties* shall cause all such claims and disputes to be resolved in the court having jurisdiction over the claim brought against the *Owner* by such third party.
  - 8.2.10 Notwithstanding anything else in this *Contract*, in the event of a dispute relating to payment arising prior to the completion of the *Work*, the *Parties* may adjudicate such dispute in accordance with the *Construction Act*. If the *Contractor* issues a notice of adjudication to the *Owner*, it will include with such notice a description of the reasons for its dispute that includes a reference to the applicable application for payment and *Proper Invoice*, all *Notices in Writing* demanding payment, authority for the claim under the *Contract* (including copies of any applicable *Change Order*, *Change Directive*, requests for any related change, and written approval of any related change).
  - 8.2.11 The *Parties* acknowledge and agree that the adjudication of a payment dispute in accordance with the *Construction Act* will not stay, pause, withdraw, terminate discontinue, or prejudice any mediation, arbitration, or court proceeding that relates to the same matter and that was commenced prior to the delivery of a notice of adjudication under the *Construction Act*, unless the *Parties* otherwise agree in writing.
  - 8.2.12 For the purposes of Part II.1 of the *Construction Act*, the Parties consent to exchange notices of adjudication by email in accordance with paragraph 6.1 of Article A-6 of the Agreement RECEIPT OF AND ADDRESSES FOR NOTICES IN WRITING."

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#### **GC 8.3 - RETENTION OF RIGHTS**

#### 105. Add the following as new paragraph 8.3.3:

"8.3.3 Notwithstanding any dispute, neither party may suspend the performance of its obligations under the Contract, including remedying any material breach under GC 7.1 - OWNER'S RIGHT TO PERFORM THE WORK, TERMINATE THE CONTRACTOR'S RIGHT TO CONTINUE WITH THE WORK OR TERMINATE THE CONTRACT, while the Parties are following for that dispute the dispute resolution procedures contemplated under the Contract. Notwithstanding the preceding sentence, and without prejudice to paragraph 2.4.3 of GC 2.4 - DEFECTIVE WORK, the Owner may, acting reasonably, withhold payment of disputed amounts in invoices while the Parties are making efforts to resolve the dispute over those amounts. The Owner will pay these amounts promptly after the dispute is resolved, to the extent it is resolved in the Contractor's favour."

#### PART 9 – PROTECTION OF PERSONS AND PROPERTY

#### GC 9.1 – PROTECTION OF WORK AND PROPERTY

#### 106. Replace paragraph 9.1.1.1 with the following:

".1 Errors in the Contract Documents which the Contractor could not have discovered applying a reasonable standard of care described in the Contract."

#### 107. Add the following as new paragraphs 9.1.5 to 9.1.8:

- When carrying out excavation work and the Work, the Contractor may encounter utilities. The "9.1.5 Contractor shall be fully responsible for any breakage or damage to such utilities, and the Contractor shall pay the full cost of repairing such damages and making good any Losses caused as a result of its operations in carrying out this Contract.
- 9.1.6 It shall be the Contractor's responsibility to obtain written permission from any Person and to make any arrangements with the owners of any adjacent properties which the Contractor may need to encroach.
- 9.1.7 The Contractor shall furnish and bear the cost of any security or other supervisory personnel it may require for protection to perform this Contract.
- 9.1.8 If the Contractor has caused damage to the Work of another contractor on the Project, the Contractor agrees upon due Notice in Writing to settle with the other contractor by negotiation or arbitration. If the other contractor makes a claim against the Owner on account of damage alleged to have been so sustained, the Owner shall notify the Contractor and may require the Contractor to defend the action at the Contractor's expense. The Contractor shall satisfy a final order or judgment against the Owner and pay the costs incurred by the Owner arising from such action."

#### GC 9.2 - TOXIC AND HAZARDOUS SUBSTANCES

- 108. Delete paragraphs 9.2.1.
- 109. Delete paragraph 9.2.4.
- 110. In the third line of paragraph 9.2.5.2, delete the words "or which were disclosed but have not been dealt with as required under paragraph 9.2.4".
- 111. Add to paragraph 9.2.6 after the word "responsible", the following new words:

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

#### 112. Replace paragraphs 9.2.6, 9.2.7, 9.2.8 and 9.2.9 in their entirety, with the following:

- "9.2.6 The *Contractor* shall indemnify and hold harmless the *Owner*, *Consultant*, other consultants, *Subcontractors*, *Suppliers* and their agents and employees, from *Losses* arising out of or resulting from exposure to, or the presence of, toxic or Hazardous Substances or materials which were brought onto or made at the *Place of the Work* after the *Contractor* commenced the *Work*. This obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity set out in GC 12.1 INDEMNIFICATION or which otherwise exist respecting a *Person* or party described in this paragraph.
- 9.2.7 In this Contract, the term "toxic and hazardous substances" means any substance, waste, liquid, gaseous or solid matter, fuel, micro-organism, sound, vibration, ray, heat, odour, radiation, energy vector, plasma, organic or inorganic matter which is or is deemed to be, alone or in any combination, hazardous, hazardous waste, solid or liquid waste, toxic, a pollutant, a deleterious substance, a contaminant or a source of pollution or contamination, regulated by any *Applicable Law* relating to the environment and the *OHSA*."

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

#### 113. Replace paragraph 9.4.1 with the following paragraphs:

- "9.4.1 The *Contractor* agrees, in addition to the obligations set forth elsewhere in the *Contract*, to comply with all applicable legislation, rules, regulations and practices pertaining to employment standards, human rights, occupational health and safety, labour relations, workers' compensation, pay equity and employment equity and all other legislation applicable to its employees. The *Contractor* will ensure that all of its employees and all of the employees of any *Subcontractor* and any agent of the *Contractor* are covered by worker's compensation insurance or other similar legislative compensation scheme in force at the *Place of the Work*.
- 9.4.2 The *Contractor* shall be solely responsible for construction health and safety within the *Place of the Work* and for compliance with the *OHSA* and shall be responsible for maintaining and supervising all safety precautions and programs in connection with the performance of the *Work*. So as to avoid any misunderstanding as to the extent of the *Contractor*'s responsibility, the *Contractor*, by executing the *Contract*, unequivocally acknowledges that the *Contractor* is the *Constructor*.
- 9.4.3 The *Contractor* shall also comply at a minimum in accordance with any health and safety policies and procedures provided by the *Owner* prior to the commencement of the *Work*.
- 9.4.4 The Contractor agrees to submit to the Owner prior to the commencement of Work:
  - .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 copies of the performance bond and labour and material payment bond required under the *Contract Documents*, the *Procurement Documents* and/or the *Construction Act* in accordance with GC 11.2 CONTRACT SECURITY:
  - .4 documentation setting out the *Contractor's* in-house safety programs; and
  - .5 a copy of the Notice of Project filed with the Ministry of Labour naming itself as Constructor.
- 9.4.4 The *Contractor* shall indemnify, save harmless, and defend 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 relevant *OHSA*, including the payment of legal fees and disbursements on a solicitor and client basis."

#### GC 9.5 - MOULD

- 114. Following the word "Owner" in paragraph 9.5.2.4, <u>add</u> the words "and the Consultant, their agents and employees,".
- 115. <u>Delete</u> paragraph 9.5.3.4.

#### **PART 10 – GOVERNING REGULATIONS**

#### **GC 10.1 – TAXES AND DUTIES**

#### 116. Replace paragraph 10.1.2 with the following:

"10.1.2 Any increase or decrease in cost to the *Contractor* due to changes in government sales taxes, custom duties or excise taxes occurring after the date of the tender shall increase or decrease the *Contract Price* accordingly. For greater certainty, the *Parties* agree that the *Contractor* is not entitled to any mark up for profit, overhead or otherwise in connection with any increase in taxes or duties and that the *Contract Price* will be increased only by the actual amount of increased taxes or duties actually paid to the government. If any such taxes or duties be retroactively reduced, the *Owner* shall be entitled to withhold payment to the *Contractor* of a sum equal to the amount of such tax or duty reduction but only after the *Contractor* has received the benefit of such tax or duty reduction."

## 117. Add the following as new paragraph 10.1.3:

"10.1.3 When an exemption from or recovery of, government sales taxes, customs duties or excise taxes is applicable to the *Contract*, the *Contractor* shall, at the request of the *Owner* (or his agent) assist, join in, or make application for any exemption, recovery or refund of all such taxes and duties and all amounts recovered or exemptions obtained shall be for the sole benefit of the *Owner*. The *Contractor* agrees to endorse over to the *Owner* any cheques received from governmental authorities as may be required to implement the foregoing."

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

#### 118. Replace paragraph 10.2.2 with the following:

- "10.2.2 Unless otherwise stated, the *Contractor* shall obtain and pay for all of the approvals, permits, licenses, inspections, authorizations, and agreements necessary for the performance of the *Work* which were in force at the time of the proposal or bid closing. The *Owner* shall only be responsible to obtain and pay for the permanent easements and rights of servitude. The *Contractor* shall, in the case of its *Subcontractors*, be held responsible for and shall ensure that they obtain all necessary approvals, permits, licenses, inspections, authorizations, and agreements and all insurance in connection with the *Work* as may be required by the *Applicable Laws*."
- 119. At the end of paragraph 10.2.4, <u>add</u> the following new sentence: "Whenever standards of the Applicable Laws, relating to the Work differ, the most stringent standards shall govern.".
- 120. In the first line of paragraph 10.2.5, <u>replace</u> the word "not" with ", to the extent only of the *Contractor's* expertise, experience and knowledge,".
- 121. In the second line of paragraph 10.2.6, <u>replace</u> the words "knowing it to be" with the words "that is".

#### PART 11 - INSURANCE AND CONTRACT SECURITY

#### **GC 11.2 – CONTRACT SECURITY**

#### 122. Replace paragraphs 11.2.1 and 11.2.2 with the following new paragraphs:

"11.2.1 The Contractor shall, within five (5) Days of their notification of award of Contract and prior to Contract signing, provide any contract security specified in the Contract Documents or as required for "public contracts" as defined in the Construction Act, including without limitation, the

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performance bond and labour and material bonds described in paragraphs 11.2.2 and 11.2.3. Each of the bonds shall be properly executed by a surety or by an agent or attorney in fact for the surety, in which latter case, the *Contractor* shall submit with such bonds a power of attorney executed by the surety to evidence the authority of the agent or the attorney in fact.

- 11.2.2 If required in the *Contract Documents*, the *Procurement Documents*, or the *Construction Act*, the *Contractor*, together with a surety company approved by the *Owner* and authorised by *Applicable Laws* to carry on business in the Province in Ontario, shall furnish a Labour and Materials Payment Bond to the *Owner* using the form prescribed in the *Construction Act* in the amount of 50% of the *Contract Price*. The bond shall remain in effect until twelve (12) months after the date of *Substantial Performance of the Work*.
- 11.2.3 If required in the *Contract Documents*, the *Procurement Documents*, or the *Construction Act*, the *Contractor*, together with a surety company approved by the *Owner* and authorised by *Applicable Laws* to carry on business in the Province of Ontario, shall furnish a Performance Bond to the *Owner* using the form prescribed in the *Construction Act* in in the amount of 50% of the *Contract Price*.
- 11.2.4 In lieu of the bonds specified in paragraphs 11.2.1 and 11.2.2, the *Contractor* may provide unconditional and irrevocable letters of credit, in a form acceptable to the *Owner* and/or a certified cheque made out to the *Owner*, but only if permitted under the *Construction Act*.
- 11.2.5 Each bond shall have an endorsement reading: "This bond will not be cancelled, transferred, or allowed to lapse without notifying the Owner in writing not less than 30 days before cancellation or lapsing."

#### PART 12 - INDEMNIFICATION, WAIVER OF CLAIMS AND WARRANTY

#### GC 12.1 – INDEMNFICATION

123. Replace "\$2,000,000" with "\$5,000,000" in paragraph 12.1.2.2.

#### **GC 12.2 - WAIVER OF CLAIMS**

124. <u>Delete</u> paragraphs 12.2.3, 12.2.4 and 12.2.5 in their entirety.

#### GC 12.3 - WARRANTY

#### 125. Replace paragraph 12.3.1 with the following:

"12.3.1 The Contractor warrants that the Work is free from any defect in workmanship and materials and complies in all respects with the provisions of the Contract Documents. Except for the extended warranties referenced in paragraph 12.3.6, the warranty period under the Contract shall expire on the later of the Base Warranty Period set out in the Procurement Documents or those periods specified in the Contract Documents for certain portions of the Work or Products. For work undertaken during the Base Warranty Period, the Contractor shall extend the guarantee on replaced parts and workmanship for a period equal to the later to occur of one (1) year from the date when the defect is corrected and the end of the original Base Warranty Period, and if such defect be corrected more than once the time period for warranty applicable shall begin again from the latest date when such defect is corrected."

#### 126. Add the following at the end of paragraph 12.3.2:

"The *Contractor* expressly warrants and guarantees to the *Owner* that the *Work* performed by the *Contractor* and by all workers, *Suppliers* and *Subcontractors* conforms to the requirements of the *Contract Documents* and is performed in a safe and careful manner."

- 127. In paragraph 12.3.3, delete the words ", through the Consultant," and "one year".
- 128. At the beginning of paragraph 12.3.4, <u>add</u> the words "Except for the provisions of paragraph 12.3.6 and".

- 129. At the end of paragraph 12.3.4, <u>replace</u> the words "one-year warranty period" with the words "warranty periods specified in the *Contract Documents*."
- 130. Replace paragraph 12.3.6 with the following:
  - "12.3.6 The Contractor shall be responsible for obtaining Product warranties in excess of one year on behalf of the Owner from the manufacturer if required in the Procurement Documents. The Product warranties shall be issued by the manufacturer in favour of the Owner or if not issued to the Owner extended warranties beyond the Base Warranty Period after the date of acceptance of the Work will be assigned to the Owner. The Contractor shall ensure that such warranties commence on the date of completion of the Work as approved of by the Consultant and the Owner. The Contractor shall remain jointly liable with the manufacturer to the Owner with respect to such Products warranties to the extent required in the Contract Documents, notwithstanding any limitation in the manufacturer's warranty (which, for greater certainty, will not extend past the Base Warranty Period)."

#### 131. Add the following as new paragraphs 12.3.7 to 12.3.10:

- "12.3.7 The Contractor shall commence to correct any warranty item, defect or deficiency within two (2) Working Days after receiving a Notice in Writing from the Owner, and complete the warranty item, defect or deficiency work as expeditiously as possible, except that in case the warranty item, defect or deficiency would prevent maintaining security or keep basic systems essential to the ongoing business of the Owner, operational as designed, all necessary corrections and/or installation of temporary replacements shall be carried out immediately as an emergency service. Should the Contractor fail to provide this emergency service within two (2) hours of a request made during normal business hours of the Contractor, the Owner is authorized, regardless of paragraph 3.1.1 to carry out all necessary repairs or replacements at the Contractor's expense.
- 12.3.8 The carrying out of replacement work and the making good of defects shall be at the sole cost of the *Contractor* and shall be executed at times convenient to the *Owner*. Additional charges for overtime *Work* in this regard shall be borne by the *Contract*or at his expense.
- 12.3.9 The *Contractor* shall also pay at his own expense for any damage to other *Work* or *property* or to *Persons* resulting from any defects or deficiencies in the *Work* which appear during the warranty period.
- 12.3.10 The Contractor further acknowledges that, if the Owner is unable to contact the Contractor and/or obtain the corrective work within such time period required by the Owner, the Owner's own forces may take such emergency steps as are reasonable and appropriate to correct such warranty items, defects, deficiencies or non-compliant items in the Work, at the Contractor's sole cost and expense and, except in the case of damage caused by the Owner's own forces, such emergency steps taken by the Owner's own forces shall not invalidate any warranties in respect of such portion of the Work affected by such corrective actions of the Owner's own forces. The Contractor shall remain bound by the terms of this Contract in respect of the Work, including such corrected Work, as if such corrective actions were performed by it."

## GC 13 - SET OFF

#### 132. Add new GC 13 – SET OFF as follows:

#### "GC 13 - SET OFF

- 13.1.1 The *Owner* shall be entitled to deduct from or set off against any payment of the *Contract Price* and any other amounts payable by the *Owner* to the *Contractor* under this *Agreement*.
  - .1 any amount expended by the *Owner* in exercising the *Owner*'s rights under this *Agreement* to perform any of the *Contractor*'s obligations that the *Contractor* has failed to perform;
  - .2 any amount paid by the *Owner* directly to *Subcontractors* in respect of *Work* for which the *Owner* previously paid the *Contractor*;

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# Supplementary Conditions to the Stipulated Price Contract (CCDC 2 – 2008)

- any damages, costs or expenses (including, *without limitation*, reasonable legal fees and expenses) incurred by the *Owner* as a result of the failure of the *Contractor* to perform any of its obligations under this *Agreement*;
- .4 a reasonable amount on account of any outstanding Work or any outstanding deficiencies, including the deficiency holdback described in paragraph 2.4.7 of GC 2.4 DEFECTIVE WORK and the Completion List Costs holdback described in GC 5.4 SUBSTANTIAL PERFORMANCE OF THE WORK; and
- .5 any other amount owing from the *Contractor* to the *Owner* under this *Agreement*."

END OF OURDI ENENTARY CONDITIONS	
 END OF SUPPLEMENTARY CONDITIONS	-

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#### PART 1 GENERAL

#### 1.1 Section includes:

- .1 Description of Work
- .2 Contract Method
- .3 Work sequence
- .4 Contractor use of premises
- .5 Owner occupancy

#### 1.2 Related Sections

.1 Section 01 00 10 – General Requirements.

#### 1.3 Description of Work

.1 Work of this Contract involves construction of Lighting Upgrade at ÉSC de La Vérendrye in Thunder Bay, Ontario.

A summary of Work highlights includes, but is not limited to:

- .1 Provide new/upgrades Lighting Fixtures, Lighting Controls, Emergency Lighting and Egress Lighting. Completely demolition, patch work/painting, furnish, supply, install, and commission the new system. Refer to Project Drawings and Technical Specifications for complete details.
- .2 Completion time: refer Section 00 03 00 Bid Form.

#### 1.4 Contract Method

- .1 Construct Work in accordance with CCDC-2 2008 Stipulated Price Contract.
- .2 Relations and responsibilities between Contractor and subcontractors and suppliers, subcontractors assigned by Owner are as defined in Conditions of Contract. Assigned Subcontractors must, in addition:
  - .1 Furnish to Contractor, bonds covering faithful performance of subcontracted work and payment of obligations there under when Contractor is required to furnish such bonds to Consultant.
  - .2 Purchase and maintain liability insurance to protect Contractor from claims for not less than limits of liability which Contractor is required to provide to Owner and Consultant.

#### 1.5 Work Sequence

- .1 Perform Work in the time frame indicated.
  - .1 Perform Work Outside of Regular Operation Hours (8am 4:30pm) during weekdays between April 12th to June 25<sup>th</sup>.

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- .2 Coordinate Progress Schedule and coordinate with Owner Occupancy during construction.
- .3 Review work plan with Owners representative before starting the Work.
- .4 Submit Certificate of Recycling/Disposal from Waste Management
  Subcontractor in accordance with current Energy Rebate to ensure proper
  documentation of disposal of fixtures & lamps to ensure conformance with
  Energy Rebate criteria. Confirm requirements with owner prior to disposal of
  lamps/fixtures.

#### 1.6 Contractors Use of Premises

- .1 The earliest on-site date is April 12<sup>th</sup>, 2021.
- .2 Safety, security, and hoarding measures to be reviewed and approved by Owner's representative before any work can proceed.
- .3 Work Hours: restrictions may apply at the Owner's discretion during normal School operating hours.
- .4 Contractor has use of designated work areas as agreed to by Owner until Substantial Performance.
- .5 Coordinate use of premises under direction of Owner. Use existing facilities and access points only as designated by Owner.
  - .1 Respect Custodians' schedules for cleaning and waxing.
  - .2 Respect School Operations during and after school regular hours.
- .6 Provide hoardings as required or directed to delineate work area(s) and control dust.
- .7 Provide temporary covers at existing return air systems to prevent spread of dust to other areas of the facility.
- .8 Demonstrate work methods to the Owner as requested.
- .9 Obtain and pay for use of additional storage or work areas needed for operations under this Contract.
- .10 Maintain firefighting access/control at all times.
- .11 Work by Others: Prior to stating the Work, and during the progress of the Work, notify the Owner of any concerns related to potential conflicts with Work by Others.
- Prior to stating the Work, and during the progress of the Work, notify the Owner of any concerns related to potential conflicts with Work by Others.

## 1.7 Owners Occupancy

.1 Cooperate with Owner in scheduling operations to minimize conflict and to facilitate Owner usage. Power and Service interruptions: any interruption to power or other services while school is in session to be reviewed and approved by the Owner.

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#### PART 1 General

#### 1.1 Codes and Standards

- .1 Perform Work in accordance with Ontario Building Code (OBC) 2012 and any other code of provincial or local application provided that in any case of conflict or discrepancy, the more stringent requirements shall apply.
- .2 Meet or exceed requirements of:
  - .1 Contract documents
  - .2 Specified standards, codes and references documents
  - .3 Workers'/Workmens' Compensation Board and municipal authority
  - .4 Requirements of FCC No. 30.1-Standard for Construction Operations, June 1982, issued by Fire Commissioner of Canada
  - .5 Falsework design and construction in accordance with CSA S269.1-1975
  - .6 Workplace Hazardous Materials Information System (WHMIS)

## 1.2 Project Coordination

- .1 Coordinate progress of the Work, progress schedules, submittals, use of site, temporary utilities, construction facilities and controls.
- .2 Maintain at job site, one copy each of the following:
  - .1 Ontario Building Code (current edition)
  - .2 Ontario Electrical Safety Code (current edition)
  - .3 Contract drawings and specifications
  - .4 Addenda
  - .5 Approved shop drawings
  - .6 Change Orders/Instructions
  - .7 Other modifications to Contract
  - .8 Field test reports
  - .9 Approved work schedule
  - .10 Manufacturer's installation and application instructions
- .3 Schedules & Start-up Submittals:
  - .1 Within two weeks of Contract Award submit the following for the Consultants review:
    - .1 Construction Schedule.
    - .2 Schedule of Values.
    - .3 Submittals Schedule.
      - .1 Indicate required submittals and order they will be submitted. Ensure adequate review time is considered.
      - .2 Promptly identify long delivery items.
      - .3 Coordinate with Consultant.
      - .4 Contractor to provide completed schedule.
    - .4 Shop Drawings
    - .5 Registration/Completion of Lighting Control Certification

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.6 Contractor's Safety Policies and Site-specific safety protocols including fire-watches.

.2 Certification of Payment number one will not be processed unless the required Schedules/submittals have been received and accepted by the Consultant.

#### 1.3 Allowances

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- .1 Cash allowances:
  - .1 Refer to Allowances referenced in Section 00 03 00, Bid Form.
  - .2 Also refer to General Conditions, GC4.1, CASH ALLOWANCES.

## 1.4 Cutting and Patching

- .1 Approvals
  - .1 Submit written request in advance of cutting or alteration which affects:
    - .1 Structural integrity of any element of Project
    - .2 Integrity of weather-exposed or moisture-resistant elements
    - .3 Efficiency, maintenance, or safety of any operational element
    - .4 Visual qualities of sight-exposed elements
    - .5 Work of Owner or separate contractor

#### .2 Inspection

- .1 Inspect existing conditions, including elements subject to damage or movement during cutting and patching.
- .2 After uncovering, inspect conditions affecting performance of work.
- .3 Beginning of cutting or patching means acceptance of existing conditions.

#### .3 Execution

- .1 Remove and replace defective and nonconforming work.
- .2 Provide openings in nonstructural elements of Work for penetrations of mechanical and electrical work.
- .3 Perform work to avoid damage to other work.
- .4 Prepare proper surfaces to receive patching and finishing.
- .5 Restore work with new products in accordance with Contract Documents.
- .6 Fit work airtight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
- .7 Refinish surfaces to match adjacent finishes; for continuous surfaces refinish to nearest intersection; for an assembly, refinish entire unit.

### 1.5 Project Meetings

- .1 Preconstruction Meeting
  - .1 A preconstruction meeting will be held with the Contractor, Owner and Consultant. The meeting will be scheduled by the Consultant after Contract Award and prior to commencement of construction.

## .2 Construction Meetings

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- Lighting Upgrade WSP Project No. 139-12438-82
  - .1 Consultant will schedule and administer project progress meetings throughout progress of work. Meetings are anticipated to be scheduled bi-weekly.
  - .2 Consultant will distribute written notice of each meeting in advance of meeting date to Owner and Contractor(s).
  - .3 Consultant will record minutes and include significant proceedings and decisions and identify "action by" parties.
  - .4 Consultant will reproduce and distribute copies of minutes after each meeting and transmit to meeting participants and affected parties not in attendance.

#### 1.6 **Submittals**

#### .1 Administrative

- .1 Submit to Consultant submittals listed for review. Submit with reasonable promptness and in an orderly sequence so as to not cause delay in the Work.
- .2 To ensure prompt attention, address all submittals in electronic format to:

Wozniak@wsp.com

Mr. Krzysztof Wozniak c/o WSP,

1269 Premier Way,

Thunder Bay, Ontario, P7B 0A3.

- .3 Work affected by submittals shall not proceed until review is complete.
- .4 Review submittals prior to submission to Consultant. This review represents that necessary requirements have been determined and verified, or will be, and that each submittal has been checked and coordinated with requirements of the Work and Contract Documents.
- .5 Verify field measurements and affected adjacent Work are coordinated.

#### .2 Shop Drawings and Product Data - Electronic Submissions

- Where indicated, Shop Drawings shall carry the stamp of a Professional Engineer .1 licensed to practice in the Province of Ontario.
- .2 Indicate materials, methods of construction and attachment or anchorage, erection diagrams, connection, explanatory notes and other information necessary for completion of Work.
- .3 Adjustments made on shop drawings by Consultant are not intended to change Contract Price.
- .4 Make changes in shop drawings as Consultant may require. Consultant will require 10 working days for review of shop drawings.
- Submit shop drawings for review to Consultant for all items requested in the .5 specification and as Consultant may reasonably request where shop drawings will not be prepared due to standardized manufacture of product:
- .6 Submission format:
  - .1 PDF electronic format.
  - .2 Ready to print on 8.5 x 11 or 11 x 17 format.
- .7 E-mail Submissions:
  - Include project number and abbreviation in subject bar: i.e. 139-12438-82 SD-.1 01
  - Maximum file size to be 10MB, unzipped. Submissions larger than 10MB can .2 be sent in corresponding numbered e-mails.

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- .8 Other Submissions:
  - .1 CD/DVD one copy.
- .9 Identify all shop drawings in lower right-hand corner as follows:
  - .1 Name of Project
  - .2 Owner project number (if applicable)
  - .3 Consultant project number
  - .4 Title of shop drawing
  - .5 Anticipated date of delivery
  - .6 Project series number and name of area (in which item is used)
  - .7 Specification section number
  - .8 Option proposed (if applicable)
  - .9 Date (revised for each submission)
- .10 Submissions shall include:
  - .1 Name and address of:
    - .1 Subcontractor (if applicable)
    - .2 Supplier (if applicable)
    - .3 Manufacturer (if applicable)
  - .2 Contractor's review stamp, signed by an authorized representative certifying approval of submission, verification of field measurements and compliance with Contract Documents.
  - .3 Details of appropriate portions of work as applicable indicating:
    - .1 Fabrication
    - Layout; showing dimensions, including identified field dimensions and clearance
    - .3 Setting or erection details
    - .4 Capacities
    - .5 Performance characteristics
    - .6 Standards
    - .7 Operating weight
    - .8 Relationship to adjacent work

#### .3 Samples

- .1 Submit for review, samples as requested in respective specification Sections or as indicated on drawings.
- .2 Deliver samples prepaid to Consultant's business address.

#### .4 Mock-ups

- .1 Mock-ups: Field erected example of Work complete with specified materials and workmanship.
- .2 The Owner reserves the right to request a field-erected mock-up of the Work prior to accepting installation of any new materials.
- .3 Erect mock-ups at locations as directed by Consultant.
- .4 Reviewed and accepted mock-ups will become standards of workmanship and material against which installed work will be judged.

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# .5 Operating and Maintenance Manuals

- .1 Two weeks later to the anticipated date of Substantial Performance of the Work, submit to Consultant, 1 copy of operating and maintenance manual for review. Upon receipt of final comments from Consultant, revise manuals as required and submit 2 electronic copies and 2 hardcopies of manuals to Consultant. Refer to specifications for additional requirements.
- .2 Manuals to contain operational information on equipment, cleaning and lubrication schedules, filters, overhaul and adjustment schedules and similar maintenance information as required. Refer to specifications for additional requirements.
- .3 Bind contents in a three-ring, hard covered binder. Organize contents into applicable categories of work, parallel to specification sections. Refer to specifications for additional requirements.
- .4 Refer to Payment Procedures this Section for O&M holdback.

## .6 Record Drawings

- .1 After award of Contract, Consultant will provide 1 set of prints for purpose of maintaining record drawings. Accurately and neatly record deviations from Contract Documents caused by site conditions and changes ordered by Consultant. Refer to specifications for additional requirements.
- .2 Record locations of concealed components of mechanical and electrical services.
- .3 Identify drawings as "Project Record Copy". Maintain in new condition and make available for inspection on site by Consultant.
- .4 On completion of Work and prior to final inspection, submit record documents to Consultant.

#### 1.7 Time

.1 Time is of the essence for this Work.

#### 1.8 Quality Control

- .1 Inspection: Refer to General Conditions, GC2.3, REVIEW AND INSPECTION OF THE WORK.
- .2 Reports: Submit 4 copies of inspection and test reports promptly to Consultant.

### 1.9 Construction Facilities and Temporary Controls

- .1 Installation/Removal
  - .1 Provide construction facilities and temporary controls in order to execute work expeditiously.
  - .2 Remove from site all such facilities after use.

## .2 Security

.1 Be responsible for securing equipment, materials or work in progress.

#### .3 Hoarding

.1 Erect hoarding as required to protect public, workers, public and private property from injury or damage.

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#### .4 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.

### .5 Dust-tight Screens

- .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.

#### .6 Scaffolding

- .1 Provide and maintain scaffolding, ramps, ladders, and platforms.
- .2 Design and construct scaffolding in accordance with CSA S269.2-M87(R1998).

#### .7 Hoisting

- .1 Provide, operate and maintain hoists and cranes required for moving of workers, materials and equipment and materials. Make financial arrangements with Subcontractors for use thereof.
- .2 Hoists and cranes shall be operated by qualified operator.

#### .8 Guard Rails and Barricades

.1 Provide as required by governing authorities, secure, rigid guard railings and barricades around deep excavations, open shafts, open stair wells, open edges of floors and roofs.

### .9 Sanitary Facilities

- .1 The Owner will designate existing washrooms for workers.
- .2 Maintain in clean condition.

#### .10 Water Supply

- .1 Existing water supply may be used. Coordinate with the Landlord's forces.
- .2 Pay for damage to existing plant if caused by Contractor negligence.
- .3 Owner assumes no responsibility for inconvenience or costs incurred due to loss of water or interruptions.

#### .11 Temporary Heating

.1 n/a

### .12 Temporary Power and Lighting

- .1 Existing power may be used for general use, including operation and charging of power tools. Coordinate with the Owner's forces.
- .2 Pay for damage to existing plant if caused by Contractor negligence.
- .3 Owner assumes no responsibility for inconvenience or costs incurred due to loss of power or interruptions.

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## .13 Temporary Telephone

.1 Provide own phones.

#### .14 Construction Offices

- .1 Contactor's site office trailer is not a project requirement.
- .2 Provide adequate first aid facilities at the Work area(s).
- .3 Provide tested fire extinguishers within the Work area(s).

## .15 Equipment/Tool/Materials Storage

- .1 Contractor to limit equipment/material storage within school to day by day activities.
- .2 Contractor to arrange separate onsite storage in the form of secure trailer/shipping container for the duration of the project.
- .3 Minimal material/tools/equipment to be storage within the building.
- .4 If required, provide and maintain, in clean and orderly condition, lockable weatherproof sheds for storage of tools, equipment and materials.
- .5 Locate materials not required to be stored in weatherproof sheds on site in manner to cause least interference with work activities.

#### .16 Access to Site

- .1 Provide and maintain access roads, sidewalk crossings, ramps and construction runways as may be required for access to the Work.
- .2 Make good damage to the building or site. Owner will judge final acceptance of corrected damage.

## .17 Construction Parking

.1 Parking as directed by Owner will be permitted on site where designated by the Owner.

## .18 Project Cleanliness

- .1 Maintain the Work in tidy condition, free from accumulation of waste products and debris
- .2 Remove waste material and debris from site and deposit in waste container at end of each working day.
- .3 Clean interior areas prior to start of finish work, maintain areas free of dust and other contaminants during finishing operations.

#### 1.10 Material and Equipment

#### .1 Product and Material Quality

- .1 Products, materials, equipment and articles (referred to as Products throughout specifications) incorporated in Work shall be new, not damaged or defective, and of best quality (compatible with specifications) for purpose intended. If requested, furnish evidence as to type, source and quality of Products provided.
- .2 Defective products will be rejected, regardless of previous inspections. Inspection does not relieve responsibility but is precaution against oversight or error. Remove

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- and replace defective products at own expense and be responsible for delays and expenses caused by rejection.
- .3 Should any dispute arise as to quality or fitness of Products, decision rests strictly with Consultant based upon requirements of Contract Documents.

#### .2 Storage, Handling and Protection

- Handle and store Products in manner to prevent damage, adulteration, deterioration and soiling and in accordance with manufacturer's instructions when applicable.
- .2 Store packaged or bundled products in original and undamaged condition with manufacturer's seals and labels intact.
- .3 Store products subject to damage from weather in weatherproof enclosures.

#### .3 Protection of Building Finishes and Equipment

- .1 Provide protection for finished and partially finished building finishes and equipment during performance of Work.
- .2 Provide necessary screens, covers, hoardings as required.
- .3 Be responsible for damage incurred due to lack of or improper protection.

#### .4 Workmanship

- .1 Workmanship shall be best quality, executed by workers experienced and skilled in respective duties for which they are employed. Immediately notify Consultant if required Work is such as to make it impractical to produce required results.
- .2 Do not employ any unfit person or anyone unskilled in their required duties.
- .3 Decisions as to quality or fitness of workmanship in cases of dispute rest solely with Consultant, whose decision is final.

#### .5 Concealment

- .1 In finished areas, conceal pipes, ducts and wiring in floors, walls and ceilings, except where indicated otherwise.
- .2 Before installation, inform Consultant if there is a contradictory situation. Install as directed by Consultant.

#### 1.11 **Payment Procedures**

- .1 Applications for Progress Payment
  - .1 Refer to CCDC 2 and Supplementary Conditions.
  - .2 Make applications for payment on account monthly as work progresses
  - .3 Date applications for payment last day of agreed monthly payment period and ensure amount claimed is for value proportionate to amount of contract, of work performed, and of products delivered to place of work at that date.
  - Submit to Consultant, at least 14 days before first application for payment, .4 schedule of values for parts of work, aggregating total amount of Contract Price to facilitate evaluation of applications for payment.

#### .2 Schedule of Values

.1 Refer to CCDC 2 and Supplementary Conditions.

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- .2 Provide schedule of values supported by evidence as Consultant may reasonably request which when accepted by Consultant, will be used as basis for applications for payment.
- .3 Include line item for Project Binder (O&M Binder). Identify cost of \$3,500; to be withheld until Consultant's acceptance of Project Binder

## .3 Progress Payment

- .1 Refer to CCDC 2 and Supplementary Conditions.
- .2 Consultant will issue to Owner, no later than 10 days after receipt of an application for payment, certificate for payment in amount applied for or in such other amount as Consultant determines to be due. If Consultant amends application, Consultant will give notification in writing giving reasons for amendment.

#### .4 Substantial Performance of Work

- .1 Prepare and submit to Consultant comprehensive list of items to be completed or corrected and apply for a review by Consultant to establish Substantial Performance of the Work. Failure to include items on list does not alter responsibility to complete Contract.
- .2 No later than 10 days after receipt of list and application, Consultant will review Work to verify validity of application, and no later than 7 days after completing review will notify contractor if work or portions of work is substantially performed.
- .5 Payment of Holdback upon Substantial Performance of Work
  - .1 After issuance of Substantial Performance of Work:
    - .1 Submit application for payment of holdback amount.
    - .2 Submit sworn statement that accounts for labour, subcontracts, products, construction machinery and equipment, and other indebtedness which may have been incurred in Substantial Performance of Work and for which Owner might be held responsible have been paid in full, except for amounts properly retained as holdback or as identified amount in dispute.
  - .2 After receipt of application for payment and sworn statement, Consultant will issue certificate for payment of holdback amount.

#### .6 Final Payment

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

### 1.12 Project Closeout

#### .1 Final Cleaning

- .1 Remove waste materials and debris from site at regularly scheduled times or dispose of as directed by Consultant. Do not burn waste materials on site.
- .2 Leave work broom clean before inspection process commences.

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- .3 Clean and polish glass, mirrors, hardware, chrome, porcelain enamel, baked enamel, plastic laminate, mechanical and electrical fixtures. Replace broken, scratched or disfigured glass.
- .4 Remove stains, spots, marks and dirt from decorative work, electrical and mechanical fixtures, furniture fitments, walls, and all other affected surfaces.
- .5 Vacuum clean and dust building interiors, behind grilles, louvres and screens.
- .6 Wax, seal, shampoo or prepare floor finishes, as recommended by manufacturer.
- .7 Broom clean and wash exterior walks, steps and surfaces.
- .8 Remove dirt and other disfigurations from exterior surfaces.

#### .2 Documents

- .1 Collect reviewed submittals and assemble documents executed by Subcontractors, suppliers, and manufacturers.
- .2 Submit material prior to final Application for Payment.
- .3 Submit operation and maintenance data, record (as-built) drawings.
- .4 Provide warranties and bonds fully executed and notarized.
- .5 Execute transition of Performance and Labour and Materials Payment Bond to warranty period requirements.
- .6 Submit a final statement of accounting giving total adjusted Contract Price, previous payments, and monies remaining due.
- .7 Consultant will issue a final change order reflecting approved adjustments to Contract Price not previously made.

#### .3 Inspection/Takeover Procedures

- .1 Prior to application for certificate of Substantial Performance, carefully inspect the Work and ensure it is complete, that major and minor construction deficiencies are complete, defects are corrected, and building is clean and in condition for occupancy. Notify Consultant in writing, of satisfactory completion of the Work and request an inspection.
- .2 During Consultant inspection, a list of deficiencies and defects will be tabulated. Correct same.
- .3 When Consultant considers deficiencies and defects have been corrected and it appears requirements of Contract have been performed, make application for certificate of Substantial Performance. Refer to General Conditions Article GC5.4 for specifics to application.

## **END OF SECTION**

## **APPENDIX A**

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# **APPENDIX A**

# **DRAWINGS**

6000	SPECIFICATIONS SHEET 1 OF 2
6000	SPECIFICATIONS SHEET 2 OF 2
6001	EXISTING LOWER FLOOR LIGHTING LAYOUT – WEST WING
6002	EXISTING LOWER FLOOR LIGHTING LAYOUT – EAST WING
6003	EXISTING UPPER FLOOR LIGHTING LAYOUT – WEST WING
6004	EXISTING UPPER FLOOR LIGHTING LAYOUT – EAST WING
6005	NEW LOWER FLOOR LIGHTING LAYOUT – WEST WING
6006	NEW LOWER FLOOR LIGHTING LAYOUT – EAST WING
6007	NEW UPPER FLOOR LIGHTING LAYOUT – WEST WING
6008	NEW UPPER FLOOR LIGHTING LAYOUT – EAST WING
6009	ROOM MATRIX
6010	EXISTING/NEW LOWER FLOOR EMERGENCY LIGHTING LAYOUT – WEST WING
6011	EXISTING/NEW LOWER FLOOR EMERGENCY LIGHTING LAYOUT – EAST WING
6012	EXISTING/NEW UPPER FLOOR EMERGENCY LIGHTING LAYOUT – WEST WING
6013	EXISTING/NEW UPPER FLOOR EMERGENCY LIGHTING LAYOUT – EAST WING

# **ELECTRICAL SPECIFICATIONS**

#### 1. SCOPE OF WORK

- A. 6000 SERIES DRAWINGS OUTLINES THE COMPLETE SUPPLY, INSTALL, COMMISSIONING, OPERATION, CONSTRUCTION ADMINISTRATION & CLOSE-OUT REQUIREMENTS OF THE FOLLOWING SYSTEMS LISTED. SPECIFIED AS PER THE DRAWING PACKAGE & AS PER THE SPECIFICATIONS SHOWN.
  - REMOVE OF EXISTING INTERIOR LIGHTING & ASSOCIATED CONTROLS.
- ii. REMOVAL OF EXISTING EMERGENCY & EGRESS LIGHTING.
- iii. REPAIR/PAINT/REFINISH OF EXISTING SURFACES TO ACCOMMODATE NEW LIGHTING FIXTURES &
- iv. ADJUSTMENT OF SUSPENDED CEILING & CEILING TILES TO ACCOMMODATE NEW LIGHTING FIXTURES & CONTROLS.
- v. INSTALLATION OF NEW INTERIOR LIGHTING & ASSOCIATED CONTROLS
- vi. INSTALLATION OF NEW EMERGENCY & EGRESS LIGHTING.
- vii. COMMISSION ALL LIGHTING FIXTURES, CONTROLS AND EMERGENCY LIGHTING.

# DRAWING LIST

- A. 6000 SPECIFICATIONS SHEET 1 & 2
- B. 6001 EXISTING LOWER FLOOR LIGHTING LAYOUT WEST WING
- C. 6002 EXISTING LOWER FLOOR LIGHTING LAYOUT EAST WING
- D. 6003 EXISTING UPPER FLOOR LIGHTING LAYOUT WEST WING
- E. 6004 EXISTING UPPER FLOOR LIGHTING LAYOUT EAST WING
- F. 6005 NEW LOWER FLOOR LIGHTING LAYOUT WEST WING
- G. 6006 NEW LOWER FLOOR LIGHTING LAYOUT EAST WING
- H. 6007 NEW UPPER FLOOR LIGHTING LAYOUT WEST WING
- I. 6008 NEW UPPER FLOOR LIGHTING LAYOUT EAST WING
- J. 6009 ROOM MATRIX
- K. 6010 EXISTING / NEW LOWER FLOOR EMERGENCY LIGHTING LAYOUT WEST WING
- L. 6011 EXISTING / NEW LOWER FLOOR EMERGENCY LIGHTING LAYOUT EAST WING
- M. 6012 EXISTING / NEW UPPER FLOOR EMERGENCY LIGHTING LAYOUT WEST WING
- N. 6013 EXISTING / NEW UPPER FLOOR EMERGENCY LIGHTING LAYOUT EAST WING

# 3. GENERAL REQUIREMENTS

- A. REVIEW & REFER TO ALL DRAWINGS, SPECIFICATIONS, FRONT-END DOCUMENTS & CONTRACT FOR ADDITIONAL REQUIREMENTS, INFORMATION & SPECIFICATIONS. SPECIFICATIONS LISTED BELOW SUPPLEMENT FRONT-END DOCUMENTS.
- B. REVIEW & REFER TO SPECIFICATION SECTION 01 00 10 GENERAL REQUIREMENTS.
- C. CONFORM TO THE GENERAL CONDITIONS OF THE CONTRACT.
- D. THE CONTRACTOR SHALL BE HELD TO HAVE VISITED THE SITE & TO HAVE EXAMINED ALL CONDITIONS AFFECTING THE WORK OF THIS PROJECT PRIOR TO BID SUBMISSION. NO CLAIMS FOR EXTRAS DUE TO CONDITIONS THAT WERE VISIBLE OR REASONABLY INFERABLE PRIOR TO THE START OF DEMOLITION OR CONSTRUCTION WILL BE ACCEPTED.
- E. CONTRACTOR TO REVIEW SITE TO CONFIRM QUANTITY, EFFORT AND SCOPE OF WORK FOR EACH PORTION OF WORK.
- F. GENERAL CONTRACTOR IS RESPONSIBLE FOR DIVISION OF WORK.
- G. THE CONTRACTOR WILL REPORT ANY ERRORS, DISCREPANCIES OR OMISSIONS TO THE CONSULTANT IMMEDIATELY IN ORDER THAT APPROPRIATE ACTION MAY BE TAKEN. ANY CONSEQUENCES RESULTING FROM ACTIONS TAKEN TO CORRECT ANY SUCH ERRORS WITHOUT THE WRITTEN CONSENT OF THE CONSULTANT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- H. IT IS THE RESPONSIBILITY OF THE SUB-CONTRACTORS TO COORDINATE ALL WORK WITH OTHER TRADES & RESOLVE CONFLICTS AT NO ADDITIONAL COST TO THE CONTRACT. EXAMINE ALL SPECIFICATIONS, DRAWINGS & SHOP DRAWINGS BEFORE PROCEEDING WITH WORK
- I. SYSTEM INTERRUPTIONS SHALL BE KEPT TO A MINIMUM, & IN ANY CASE, SHALL OCCUR AT TIMES & DURATIONS FOR WHICH PRIOR WRITTEN AGREEMENT OF THE OWNER & OTHER TRADES HAVE BEEN
- J. THERE IS TO BE NO INTERRUPTIONS TO ANY SYSTEM DURING NORMAL BUILDING HOURS OF OPERATIONS.
- K. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES & SYSTEMS TO PROVIDE POWER, COMMUNICATIONS & CONTROLS AS REQUIRED FOR ALL SYSTEMS SPECIFIED.
- L. PROVIDE ALL MATERIALS, DEVICES, LABOUR & TOOLS, MISCELLANEOUS MATERIAL & HARDWARE AS REQUIRED TO COMPLETE ALL SYSTEMS AS SPECIFIED RENDERING COMPLETE, COMMISSIONED & OPERATIONAL SYSTEMS.
- M. INSTALL ALL SYSTEMS AS SPECIFIED OR AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- N. PERFORM ALL WORK BY LICENSED ELECTRICIANS HOLDING A VALID CERTIFICATE OF QUALIFICATION AND/OR TRAINED TO PERFORM WORK ON THE SPECIFIC MANUFACTURE SYSTEM, PERMITTED ACTIVES ARE BASED ON TRAINING LEVEL ATTAINED & DEMONSTRATION OF SKILL TO SPECIFIC DUTIES.
- O. CONTRACTOR TO OBTAIN CERTIFICATION TO COMMISSION THE CREE SMART CAST LIGHTING CONTROL SYSTEM THROUGH THE MANUFACTURER OR OBTAIN CERTIFIED PERSONNEL TO COMPLETE THE COMMISSIONING PRIOR TO CONTRACTOR BEGINNING WORK.
- P. COMPLETE ALL WORK TO THE ONTARIO ELECTRICAL SAFETY CODE, ONTARIO BUILDING CODE & ALL APPLICABLE CODES & STANDARDS.
- Q. DO NOT REDUCE THE STANDARDS ESTABLISHED BY APPLYING APPLICABLE CODES & STANDARDS.
- R. CONFIRM ALL WORK WITH CONSTRUCTION PROJECT MANAGER BEFORE WORK BEGINS.
- S. PAY FOR & SUBMIT ALL CERTIFICATES/INSPECTIONS & PERMITS & INCLUDE COPY IN O&M BINDER.
- T. PROVIDE 1-YEAR WARRANTY IN FAVOUR OF THE OWNER, FROM DATE OF PROJECT TURN OVER. INCLUDE WARRANTY CONTACT SHEET IN O&M BINDER OUTLINING THE WARRANTY C/W CONTACT

# 4. TENDER

EFERENCE DRAWINGS

REFERENCE NUMBER DESCRIPTION

A. REFER TO FRONT-END DOCUMENTS FOR TENDER REQUIREMENTS.

INFORMATION, EXPIRY DATE & SUPPLIERS CONTACT INFORMATION.

# 5. CONSTRUCTION ADMINISTRATION

REVIEW BEFORE WORK COMMENCES.

- A. CONTACT INFORMATION: AS REQUIRED, KRZYSZTOF WOZNIAK, P. ENG. AT 807-625-6700, WOZNIAK@WSP.COM, 1269 PREMIER WAY, THUNDER BAY.
- B. REFER TO FRONT-END SPECIFICATIONS FOR CONSTRUCTION ADMINISTRATION REQUIREMENTS.
- FRONT-END SPECIFICATION SUPPLEMENTS ANY REQUIREMENTS LISTED BELOW. C. SUBMIT COMPLETE SHOP DRAWINGS FOR ALL EQUIPMENT, MATERIAL AND LABELING USED FOR
- D. SUBMIT SHOP DRAWING FOR COMMISSIONING NETWORKS, SWITCHING, OCCUPANCY GROUPS BEFORE LIGHTING SYSTEM COMMISSIONING.
- E. COMPLETE TESTING, COMMISSIONING & VERIFICATION OF PROPER OPERATION OF ALL EQUIPMENT &
- F. CONTACT CONSULTANT IMMEDIATELY REGARDING CONFLICT BETWEEN DRAWING, SPECIFICATION & SITE CONDITIONS FOR CLARIFICATION & DIRECTION.
- G. CONTRACTOR TO PROVIDE BI-WEEKLY PROGRESS REPORTS REGARDING PROGRESS OF WORK.
- H. CONSULTANT TO APPROVE ALL CHANGES BY CHANGE ORDER OR SUPPLEMENTARY INSTRUCTION.
- I. SYSTEM INTERRUPTIONS SHALL BE KEPT TO A MINIMUM, & IN ANY CASE, SHALL OCCUR AT TIMES & DURATIONS FOR WHICH PRIOR WRITTEN AGREEMENT OF THE OWNER & OTHER TRADES HAVE BEEN
- J. THERE IS TO BE NO INTERRUPTIONS TO ANY SYSTEM DURING NORMAL BUILDING HOURS OF OPERATIONS.

## 6. OWNER STAFF TRAINING

- A. REFER TO FRONT-END SPECIFICATIONS FOR OWNER / STAFF TRAINING REQUIREMENTS. FRONT-END SPECIFICATION SUPPLEMENTS ANY REQUIREMENTS LISTED BELOW.
- B. INCLUDE STAFF TRAINING UPON COMPLETION & A FOLLOW UP TRAINING SESSION IN ANY BID. STAFF TRAINING INCLUDES ANY DESIGNATED PERSON AS SPECIFIED ALLOCATE 8 HOURS OF IN-SERVICE

# 7. CLOSE-OUT REQUIREMENTS

- A. REFER TO FRONT-END SPECIFICATIONS FOR CLOSE OUT REQUIREMENTS. FRONT-END SPECIFICATION SUPPLEMENTS ANY REQUIREMENTS LISTED BELOW.
- B. INSTRUCT OPERATING PERSONNEL IN OPERATION, CARE & MAINTENANCE OF SYSTEMS, SYSTEM EQUIPMENT & COMPONENTS. PROVIDE THESE SERVICES FOR SUCH PERIOD, & FOR AS MANY VISITS AS NECESSARY TO PUT EQUIPMENT IN OPERATION, & TO ENSURE THAT OPERATING PERSONNEL ARE CONVERSANT WITH ALL ASPECTS OF ITS CARE & OPERATION.
- C. TEST ALL EQUIPMENT TO CONFIRM PROPER INSTALLATION & SAFE OPERATION IN ACCORDANCE WITH THE INTENT OF THE DRAWINGS & SPECIFICATIONS. SUBMIT ALL SPECIFIED TEST.
- D. SUBMIT EMERGENCY LIGHTING TESTING REPORT C/W VERIFICATION THAT EACH UNIT IS OPERATIONAL,
- CURRENT DRAW PER TERMINAL BLOCK & VOLTAGE DROP AT EACH FIELD UNIT, IF APPLICABLE.
- E. SUBMIT ELECTRICAL SAFETY AUTHORITY PERMIT, INSPECTION & RESULTS.
- F. INSTRUCT OWNER OR OWNER'S REPRESENTATIVE ON THE OPERATION OF ALL SYSTEMS. SUBMIT LETTER OUTLINING THAT EACH SYSTEM SPECIFIED HAS BEEN TESTED, COMMISSIONED & IS 100% OPERATIONAL
- G. SUBMIT FULL SIZE OF AS-BUILT DRAWINGS & SPECIFICATIONS. AS-BUILT DRAWINGS TO INCLUDE; REVISIONS TO THE DESIGN DURING THE PROGRESS OF WORK, REVISED LOCATIONS OF SHOW EQUIPMENT/FIXTURES/ETC., CABLE/CONDUIT ROUTING, LOCATION OF LIGHTING CONTROL COMPONENTS, MODIFIED SPECIFICATIONS, ETC.
- H. SUBMIT COMPLETE PROJECT BINDER, BINDER TO INCLUDE AS LISTED BELOW, IN ORDER. ORGANIZE BINDER, LABELED, NEATLY IN A THREE RING, HARD COVERED BINDER. SUBMIT ONE COPY FOR REVIEW, ONCE APPROVED/REVISED, SUBMIT THREE COPIES TO CONSULTANT:
- CONTACT INFORMATION FOR CONTRACTOR, SUBCONTRACTORS, SUPPLIERS, MANUFACTURERS
- ii. LETTER OUTLINING ALL WORK IS COMPLETED, ALL SYSTEMS ARE FULL COMMISSIONING AND
- 100% OPERATIONAL iii. WARRANTY LETTER
- iv. ISSUED FOR TENDER DOCUMENTS (8X11
- v. ISSUED FOR CONSTRUCTION DOCUMENTS (8X11)
- vi. APPROVED SHOP DRAWINGS
- vii. CONSTRUCTION ADMINISTRATION DOCUMENTATION RFI, SI, CO, CCO, CD, ETC. viii. PROGRESS CLAIMS, ACCOUNTING, ETC.
- ix. AS BUILT DRAWINGS C/W PANEL DIRECTORIES (FULL SIZE)
- x. MANUALS FOR ALL EQUIPMENT (DIGITAL COPY PRINTED)
- xi. CONSULTANT FINAL LETTER
- xii. PROJECT BINDER DIGITAL COPY ON USB.

DRAFTER DESIGNER PROJ M

xiii. PROGRAMMING

# 8. GENERAL PRODUCT REQUIREMENTS

- A. REFER TO FRONT-END SPECIFICATIONS FOR ADDITIONAL GENERAL PRODUCT REQUIREMENTS.
- B. ALL MATERIAL TO BE COMMERCIAL GRADE, NEW, WITHOUT DEFECT, CSA/ULC/CUL APPROVED, NEMA STANDARDS, DLC CERTIFICATION.
- C. ALL EQUIPMENT, DEVICES & FIXTURES TO MATCH EXISTING FINISH & INSTALLATION DETAILS UNLESS NOTED OTHERWISE.
- D. SUPPLY ALL EQUIPMENT OF A SPECIFIC SYSTEM BY A SINGLE MANUFACTURER. I.E. SUPPLY ALL RECEPTACLES BY A SINGLE MANUFACTURER, SUPPLY ALL POWER DISTRIBUTION EQUIPMENT BY A SINGLE MANUFACTURER, SUPPLY ALL LIGHTING CONTROL BY SINGLE MANUFACTURER, ETC. UNLESS
- E. SUPPLY ALL EQUIPMENT AS SPECIFIED. WHERE EQUIPMENT IS SPECIFIED OR EQUAL AN EQUAL CAN BE SUPPLIED IF IT MEETS THE GENERAL CONFORMITY OF THE PRODUCT SPECIFIED UNLESS NOTED OTHERWISE.
- F. ALL ELECTRICAL FITTINGS. DEVICES, BOXES, SUPPORTS & HARDWARE TO BE GALVANIZED OR HAVE A CORROSION RESISTANT PRIMER FACTORY INSTALLED.
- G. ALL POWER CONDUCTORS TO BE MINIMUM #12 AWG CU, T90 TYPE OR AC90 ARMOURED CABLE EQUAL. DO NOT USE ROMEX/LOMAX NMD90 CABLING OR EQUAL, NO EXCEPTIONS.
- H. ALL CABLING/CONDUIT TO BE FT6 RATED IN AIR RETURN PLENUM SPACES WHEN NOT ENCLOSED IN CONDUIT.

- I. ALL INTERIOR CABLING SPECIFIED TO BE COPPER, NO ALUMINUM CONDUCTORS UNLESS NOTED OTHERWISE.
- J. ALL RACEWAYS AS REQUIRED OR SPECIFIED TO BE EMT. PROVIDE MECHANICAL PROTECTION WHERE SUBJECT TO DAMAGE.
- K. PROVIDE MECHANICAL PROTECTION TO ALL EXPOSED CABLING/CONDUIT WHERE SUBJECT TO
- L. ALL INTERIOR DEVICE PLATES TO BE STAINLESS STEEL. SWITCHING, RECEPTACLES, COMMUNICATION,
- CONTROLS, BLANKS UNLESS NOTED OTHERWISE. M. INSTALL ALL AUXILIARY SYSTEM FIELD DEVICES WITH EMT OR EQUIVALENT CONDUIT FROM DEVICE TO
- ACCESSIBLE POINT TO ALLOW FOR FUTURE REWIRING.
- N. CONFIRM ALL ELECTRICAL EQUIPMENT SUPPLIED BY OTHERS IS SUITABLE FOR INSTALLATION &
- O. INSTALL NEW BREAKERS & CABLING AS SPECIFIED/REQUIRED. NEW BREAKERS TO MATCH TYPE, SPECIFICATION & KA RATING OF EXISTING BREAKERS IN THE SPECIFIC POWER PANEL.
- P. INSTALL ALL LABELS, NAMEPLATES & EQUIPMENT INSTRUCTION IN ENGLISH & FRENCH.
- Q. UTILIZE MANUFACTURE SUPPLIED BACK BOX WHERE REQUIRED AND/OR SPECIFIED
- R. EQUIPMENT IDENTIFICATION: IDENTIFY ALL EQUIPMENT, LAMACOID PLATES, WHITE BACKGROUND, BLACK TEXT AS SPECIFIED. IDENTIFY ALL EQUIPMENT IN ENGLISH. SUBMIT FOR APPROVAL PRIOR TO MANUFACTURER. SECURE ALL EXTERIOR LAMACOID LABELS WITH STAINLESS STEEL HARDWARE. SECURE ALL INTERIOR LAMACOID LABELS WITH MANUFACTURER'S ADHESIVE, CLEAN SURFACE BEFORE APPLICATION.
  - i. ELECTRICAL EQUIPMENT 10MM TEXT (MAXIMUM 2 LINE)
- ii. IF LAMACOID LABEL SPECIFICATIONS NOT SHOWN FOR SPECIFIC APPLICATION, CONFIRM LABEL DIMENSIONS
- S. COLOUR CODED CIRCUITS: ALL 120/208/240/347/600V CIRCUITS SHALL BE COLOUR CODED TO RED (PHASE A), BLACK (PHASE B), BLUE (PHASE C). NO OTHER COLOUR CURRENT CARRYING CONDUCTORS TO BE USED. ALL NEUTRALS TO BE WHITE. ALL BONDING CONDUCTORS TO BE GREEN.

# 9. GENERAL EXECUTION REQUIREMENTS

- A. ATTENTION: DEVICE CIRCUIT TAGS ARE NON-VERIFIED. CONTRACTOR TO VERIFY CIRCUITS & UPDATE CIRCUIT TAGS ON AS-BUILT DRAWINGS FOR ALL DEVICES SHOWN. NO CIRCUIT TAG ON DEVICE
- DENOTES UNKNOWN CIRCUIT FEED. USE EXTREME CAUTION. B. ATTENTION: 347V LIGHTING WITH SHARED NEUTRALS PRESENT THROUGHOUT BUILDING. USE EXTREME
- C. CONFIRM EQUIPMENT VOLTAGE LIGHTING FOR ALL AREAS BEFORE EQUIPMENT ORDERED. D. REFER TO FRONT-END SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- E. CONCEAL ALL WIRING, CABLE & CONDUIT IN ALL FINISHED AREAS, INTERIOR & EXTERIOR AREAS. RECESS INSTALL ALL DEVICES WHERE APPLICABLE. SURFACE MOUNTED DEVICES & SURFACE RUN CABLING/CONDUIT IS NOT PERMITTED UNLESS NOTED/WRITTEN APPROVAL. ALL SURFACE MOUNT CABLING TO BE INSTALLED IN CONDUIT (SERVICE ROOMS)/WIRE MOLD (PUBLIC SPACE). WRITTEN APPROVAL IS REQUIRED FOR ALL SURFACE MOUNT CABLING/CONDUIT. AREAS WHERE EXPOSED CONDUIT & DEVICE BOXES IS: ACCEPTABLE BUT SHOULD BE AVOIDED WHERE POSSIBLE IS:
- i. SERVICE ROOM(S)
- ii. STORAGE ROOM(S)
- F. SIZE ALL CONDUCTORS AS PER CODE REGARDING VOLTAGE DROP, REFER TO OESC D3 & 8-102 FOR
- REFERENCE. G. ADJUST DEVICE BOX TO ACCOUNT FOR BOX FILL.
- H. REPLACE/ADD/MODIFY ALL EXISTING SUSPENDED CEILING TILES & HARDWARE AS REQUIRED TO COMPLETE THE WORK SPECIFIED, MATCH EXISTING.
- I. MODIFY CEILING GRID BY REMOVING, ADDING, MODIFYING SUSPENDED CEILING CROSS-TEE ARRANGEMENT TO SUIT NEW LAYOUT.
- J. INSTALL CABLING, CONDUIT WITHIN THE CONDITIONED SPACE OF THE BUILDING, DO NOT INSTALL
- CABLING/CONDUIT IN ATTIC SPACE UNLESS REQUIRED. K. POWER ALL NEW CIRCUITS FROM NEW BREAKERS INSTALLED IN LOCAL 120/208/347/600V LIGHTING
- PANELS.
- L. VERIFY ALL LAYOUTS & MOUNTING HEIGHTS BEFORE WORK BEGINS. M. REFER TO PRODUCT SPECIFICATION/LAYOUT DRAWINGS FOR MOUNTING HEIGHT, IF NOT SPECIFIED MAINTAIN MOUNTING HEIGHT AS PER EXISTING DEVICES THROUGHOUT SPACE AND/OR PER CODE
- REQUIREMENT, CONFIRM MOUNTING HEIGHT. N. WHEN DEVICE BOXES, DEVICES OR EQUIPMENT ARE GROUPED, INSTALL AT SAME MOUNTING HEIGHT.
- MOUNTING HEIGHTS TO REMAIN CONSISTENT THROUGHOUT THE WORK.
- O. MAINTAIN 1-METER CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS & EQUIPMENT.
- P. INSTALL ALL EQUIPMENT TO ALLOW FOR SERVICING OF EQUIPMENT
- Q. RELOCATE ALL EQUIPMENT NAMEPLATES AS REQUIRED TO BE VISIBLE FROM FRONT OF EQUIPMENT. R. ALL EQUIPMENT, DEVICES, LIGHTING FIXTURES SHALL BE SECURED TO STRUCTURAL SECURE COMPONENTS, INSTALL BLOCKING AS REQUIRED. DO NOT USE DRYWALL ANCHORS, TOGGLE BOLTS
- S. INSTALL ALL CONDUIT WITH INSULATED GREEN BOND CONDUCTOR, RELYING ON CONDUIT FOR BOND
- IS NOT SUFFICIENT, NO EXCEPTIONS.
- T. SIZE ALL BOND/GROUND CONDUCTORS AS PER OESC & OESC TABLE 16. U. INSTALL ALL EQUIPMENT, DEVICES, RACEWAYS, CONDUIT & CABLING LEVEL, PLUMB, SQUARE &
- STRAIGHT WITH RESPECT TO BUILDING LINES.
- V. PROVIDE VAPOUR BARRIER BOXES FOR ELECTRICAL BOXES WHERE REQUIRED. W. INSTALL ALL ELECTRICAL EQUIPMENT & MECHANICAL EQUIPMENT WITH LAMACOID LABELLED WITH SOURCE OF POWER, EQUIPMENT IDENTIFICATION TAG, VOLTAGE & FULL LOAD AMPERAGE. MAINTAIN
- 10MM TEXT HEIGHT WITH BLACK BACKGROUND, WHITE TEXT UNLESS SPECIFIED OTHERWISE. X. IDENTIFY ALL JUNCTION BOXES WITH SOURCE OF POWER, VOLTAGE, CIRCUITS TERMINATED IN JUNCTION BOX, CIRCUITS PASSING THROUGH JUNCTION BOX. CLEARLY IDENTIFY WITH BLACK
- PERMANENT MARKER. Y. PRODUCT DIMENSIONS: LAYOUTS SHOWN ON THE DRAWINGS ARE BASED ON PUBLISHED DIMENSIONS OF VARIOUS MANUFACTURERS' EQUIPMENT AT TIME OF DESIGN. DIMENSION OF EQUIPMENT PROVIDED BY THE CONTRACTOR MAY CONFLICT WITH THE LAYOUTS SHOWN ON THE DRAWINGS. CONTRACTOR IS TO CONFIRM THAT THE EQUIPMENT BEING SUPPLIED WILL FIT THE SPACE ALLOTTED OR MAKE

ALTERNATE LAYOUT TO ACCOMMODATE THE PROVIDED EQUIPMENT SUBJECT TO APPROVAL.

- Z. MAINTAIN EQUIPMENT STANDARD MOUNTING HEIGHT THROUGHOUT
- AA. ALL CONDUIT/WIREMOLD INSTALLED TO BE PAINTED TO MATCH EXISTING WALL FINISH.
- AB. ALL PLASTIC OCTAGON BOX COVERS USED WHERE DEVICES HAVE BEEN REMOVED ARE TO BE PAINTED TO MATCH EXISTING.

# 10. FIRE PROTECTION REQUIREMENTS

- i. CONDUITS/CABLING MAY PENETRATE WALLS/CEILINGS/PARTITIONS, PROVIDED THEY ARE FIRE
- ii. OPENINGS FOR STEEL ELECTRICAL BOXES NOT EXCEEDING 103CM2 ARE PERMITTED PROVIDED THEY ARE FIRE STOPPED & DO NOT EXCEED 645CM2 TOTAL OVER 9.29M2 OF WALL OR
- iii. STEEL BOXES ON OPPOSITE SIDES OF RATED WALLS TO BE NO CLOSER THAN 600MM.
- C. PROVIDE FIRE/SMOKE RATED SEALS FOR ALL PENETRATIONS THROUGH FIRE RESISTANCE RATED WALL, FLOOR & ROOF ASSEMBLIES WITH APPROVED MATERIAL/PRODUCT. COMPLETE ALL WORK IN SUCH A MANNER TO MAINTAIN THE FIRE RATING OF THE STRUCTURE. SUBMIT SHOP DRAWING FOR

# 11.DEMOLITION

- A. DEVICES SHOWN WITH "E" INDICATE THE DEVICE IS EXISTING. REFER TO NEW LAYOUTS TO DETERMINE
- C. REMOVE EXISTING SURFACE MOUNT CONDUIT, CABLING AND EQUIPMENT. CONFIRM SCOPE WITH GENERAL CONTRACTOR.
- D. DEMOLITION OF DEVICE/CABLING TO INCLUDE DEVICE, BACK BOX (IF APPLICABLE) & ALL WIRING, CABLE & CONDUIT BACK TO THE NEAREST EXISTING JUNCTION BOX AS REQUIRED. RECORD EXISTING JUNCTION BOX LOCATION FOR EACH DEVICE ON AS BUILD DRAWING. IF NO JUNCTION BOX EXISTS
- E. UNINSTALL REMOVED/REPLACED ITEMS, CLEAN AREA & MOVE DEVICE TO DESIGNATE TEMPORARY
- F. COORDINATE/HAND OVER TO OWNER ANY REMOVED EQUIPMENT OR MATERIAL. CLEAN & PACKAGE ALL ITEMS SALVAGED THAT ARE TO BE TURNED OVER TO OWNER, RELOCATED OR REINSTALLED.
  - i. OCCUPANCY SENSORS/POWER PACKS TO BE CLEANED, PACKAGED INDIVIDUALLY, PACKED INTO SINGLE CARDBOARD BOX & TURNED OVER TO OWNER.
- ii. LED T8 LAMPS TO BE CLEANED, PACKAGED IN GROUPS, 30 MAXIMUM & PLACED INTO CARBOARD
- G. ALL EQUIPMENT/MATERIAL TO BE DISPOSED AS PER STANDARDS & REGULATIONS REGARDING
- H. SUBMIT DOCUMENTATION FROM DISPOSAL (METAL RECYCLING SUBCONTRACTOR
- REMOVAL/RELOCATION/DELETION OF EXISTING EQUIPMENT AS SPECIFIED. THIS INCLUDES BUT IS NOT LIMITED TO FLOORING, WALL REPAIR, PAINT, CEILING REPAIR, REPLACEMENT & PAINT, ETC.
- i. CLASSROOM GYPSUM CEILING TO BE PAINTED IN IT'S ENTIRETY. CONFIRM FINAL PAINT
- K. RECORD ALL JUNCTION BOXES ON AS-BUILT DRAWINGS.
- L. CONTRACTOR TO SUBMIT CERTIFICATE OF DISPOSAL AND RECYCLING FOR ALL LAMPS/FIXTURES DISPOSED

- A. INTERIOR LIGHTING SCOPE OF WORK INCLUDES BUT IS NOT LIMITED TO REMOVAL/RELOCATION AND
- ADDITION OF LIGHTING & CONTROLS AS PER LAYOUT DRAWINGS & SPECIFICATIONS.
- C. NL DENOTES NIGHT LIGHT. FIXTURE TO REMAIN ON & BYPASS LIGHTING CONTROLS.
- D. ADJUST LIGHTING LAYOUTS FOR OPTIMAL LIGHTING DISTRIBUTION, CONFIRM ALL LAYOUT
- E. INSTALL FIXTURES WITH INTEGRAL OCCUPANCY SENSORS SO THAT OCCUPANCY SENSOR IS
- G. CONSULTANT TO ISSUE LIGHTING CONTROL SETTINGS TO CONTRACTOR DURING SHOP DRAWING
- H. ALL LIGHTING CONTROLS (WHERE APPLICABLE) TO BE FAIL SAFE. IN THE EVENT OF A LIGHTING
- UTILIZE MANUFACTURE'S HARDWARE FOR SURFACE MOUNT & SUSPENDED INSTALLATIONS.
- AS PER LAYOUT.

J. PROVIDE SURFACE MOUNT KITS TO ALL SURFACE MOUNT TROFFER TYPE FIXTURES WHERE REQUIRED

M. UTILIZE 3500K COLOUR TEMPERATURE IN CLASSROOMS, OFFICES, DAYCARES, RESOURCE ROOMS,

L. INSTALL ALL SUSPENDED FIXTURES & FIXTURES INSTALLED IN SUSPENDED CEILING WITH SECURE

FOR TENDER ÉSC DE LA VÉRENDRYE LIGHTING UPGRADE INITIALS YYYY-MM-DD DRAWING TITLE 2019-11-27 K.IW SIGNED BY SIGN CHECKED BY 2019-11-27 SPECIFICATIONS 1269 PREMIER WAY 2019-11-27 THUNDER BAY (ONTARIO) CANADA P7R 0A3 TEL: 807 625-6700 | FAX: 807 623-4491 | WWW.WSP.COM AWING CHECKED BY 2019-11-27 | K.I\// 2019-11-27 DRAWING NUMBER ROJECT MANAGER l K.IW

OF

NTS | SHEET NUMBER

CIRCUITS/LIGHTING CONTROL

APPROVED MATERIAL:

- A. PENETRATIONS IN WALLS REQUIRING PROTECTED OPENING MUST BE FIRE STOPPED WITH AN
- B. INSTALL ALL DEVICES IN SUSPENDED CEILING C/W SAFETY CHAIN, SECURE HARDWARE TO STRUCTURE. DEVICE TO HAVE A DROP LESS THAN 300MM. INDEPENDENTLY SUPPORT ALL DEVICES

- IF DEVICES ARE TO REMAIN, BE REMOVED OR RELOCATED.
- B. VERIFY SCOPE OF DEMOLITION BEFORE WORK BEGINS.
- AND/OR REMOVED DEVICE IS THE ONLY DEVICE ON CIRCUIT REMOVE WIRING, CABLE & CONDUIT BACK TO PANEL, UPDATE PANEL DIRECTORY & MARK BREAKER AS SPARE.
- STORAGE AREA.
- CONFIRM WITH CONSULTANT WHAT IS TO BE INCLUDED IN EQUIPMENT/MATERIAL TO BE HANDED OVER.
- CONTAINERS & TURNED OVER TO OWNER.
- I. MAINTAIN STORAGE AREA IN AN ORGANIZED & CLEAN MANNER J. REPAIR ALL WALL, FLOOR & CEILING TO MATCH EXISTING AS REQUIRED DURING THE
- FINISH/COLOUR.
- 12.INTERIOR LIGHTING
- B. PROVIDE ALL ACCESSORY, POWER PACKS, CONTROLS, ETC. FOR A FULLY FUNCTIONING LIGHTING
- POSITIONED TOWARDS THE ENTRANCE TO THE SPACE. F. INSTALL ALL LIGHTING CONTROLS TO MATCH EXISTING.
- PHASE. UTILIZE WIRE MOLD, PAINT TO MATCH WHERE REQUIRED, WRITTEN APPROVAL FROM CONSULTANT REQUIRED.
- CONTROL FAILURE, LIGHTING TO REMAIN ON.
- K. PROVIDE DRYWALL KITS TO ALL RECESSED TROFFER TYPE FIXTURES WHERE REQUIRED AS PER
- ETC. UTILIZE 4000K ELSEWHERE.

N. IF RECONFIGURATION OF LIGHTING LAYOUTS RESULTS IN AN OVERLOADED CIRCUIT, ADD ADDITIONAL

2021-02-03 ISSUED FOR TENDER

YYYY-MM-DD DESCRIPTION

THE CONTRACTOR SHALL CHECK AND VERIEY ALL DIMENSIONS.
REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK THIS DRAWING IS NOT TO BE SCALED IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.

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Conseil scolaire de district catholique des Aurores boréales.ca

LIENT PROJECT NUMBER

SP PROJECT NUMBER 139-12438-82

# **ELECTRICAL SPECIFICATIONS (CONTINUED)**

- O. REFER TO MANUFACTURE'S INSTALLATION GUIDE LINES FOR THE INSTALLATION OF CREE SMART CAST LIGHTING FIXTURES & LIGHTING CONTROL DEVICES.
  - i. SMART CAST ENABLED FIXTURES & CONTROLS REQUIRE UN-SWITCHED POWER SUPPLY.
  - ii. SMART CAST ENABLED WALL MOUNT LIGHTING CONTROLS REQUIRE UN-SWITCHED 120-277V POWER SUPPLY.
  - iii. LIGHTING CONTROLS ARE WIRELESS BETWEEN SMART CAST ENABLED FIXTURES.
  - iv. LIGHTING CONTROLS ARE WIRED BETWEEN SMART CAST CONTROLLERS AND NON-SMART CAST ENABLED FIXTURES.

# P. STEP DOWN LIGHTING TRANSFORMER

- i. BUILDING LIGHTING IS POWERED BY 347V POWER SUPPLIES AND REQUIRES STEP DOWN TRANSFORMERS TO PROVIDE SUITABLE POWER TO 120-277V LIGHTING FIXTURES AS SPECIFIED AS WELL AS 120-277 LIGHTING CONTROL EQUIPMENT AS SPECIFIED. CONTRACTOR IS TO UTILIZE 347V STEP DOWN TO 120-277V TRANSFORMERS.
- ii. EACH TRANSFORMER TO PROVIDE POWER AS REQUIRED TO FIXTURES & LIGHTING CONTROLS WITHIN THAT LIGHTING CIRCUIT, STRING OF LIGHTS, CLUSTER OF FIXTURES.
- iii. TRANSFORMER TO BE SIZED TO NOT BE LOWERED MORE THAN 70% OF ELECTRICAL RATING AND FUSED PRIMARY/SECONDARY ACCORDINGLY.
- iv. TRANSFORMER TO BE LOCATED ABOVE THE SUSPENDED CEILING IN AN OFFICE/CLASSROOM OR EQUAL AREA NEAR THE DOORWAY AND FINAL LOCATION RECORDED ON AS BUILT DRAWINGS.
- v. STEP DOWN TRANSFORMER: 347V INPUT / 120-277V OUTPUT, FT6 RATED, FUSED, ENCLOSED CONSTRUCTION, COPPER WINDINGS, PANEL MOUNT FUSE HOLDER, HAMMOND POWER SOLUTIONS HPS FUSION GENERAL PURPOSE ENCLOSED TRANSFORMER FS\_\_KHP OR
- vi. INSTALL TRANSFORMER COMPLETE WITH 347V RATED LOCAL DISCONNECT SWITCH.
- Q. CONTRACTOR TO SUPPLY CREE SMART CAST CONFIGURATION TOOL PER NETWORK AS REQUIRED, BID TO INCLUDE FOUR (4) IN BID, CREE CCT-CWC-1.
- R. INSTALL ALL CREE FLEX SERIES FIXTURES COMPLETE WITH INNER OPTIC DESIGN "STRIPED", CREE FLX-STRD-4 FOR NON-SMART CAST ENABLED FIXTURES & CREE FLX-CMA-STRD-4 FOR SMART CAST ENABLED FIXTURES.
- S. FIXTURE TYPE EL: LINEAR FIXTURE, SURFACE MOUNT, LED TECHNOLOGY, 4' LENGTH, 120VAC, 30W, 4,000 LUMENS, 4000K COLOUR TEMPERATURE, CREE LS4C-40L-40K OR EQUAL. CONFIRM FIXTURE REQUIREMENTS & COORDINATE INSTALLATION WITH ELEVATOR SERVICE CONTRACTOR.
- T. FIXTURE TYPE F1: TROFFER FIXTURE, RECESSED/SURFACE MOUNT, LED TECHNOLOGY, SMART CAST ENABLED, 1'X4', 347V, 33W, 4,000 LUMENS, 3500K COLOUR TEMPERATURE, CREE FLX14-40L-35K-34-CMA-FD.
- U. FIXTURE TYPE F2: TROFFER FIXTURE, RECESSED/SURFACE MOUNT, LED TECHNOLOGY, SMART CAST ENABLED 2'X4', 347V, 41W, 5,000 LUMENS, 3500K COLOUR TEMPERATURE, CREE FLX24-50L-35K-34-CMA-FD.
- V. FIXTURE TYPE F3: TROFFER FIXTURE, RECESSED/SURFACE MOUNT, LED TECHNOLOGY, SMART CAST ENABLED 1'X4', 347V, 41W, 5,000 LUMENS, 3500K COLOUR TEMPERATURE, CREE -
- FLX14-50L-35K-34-CMA-FD.

  W. FIXTURE TYPE F4: TROFFER FIXTURE, RECESSED/SURFACE MOUNT, LED TECHNOLOGY, SMART CAST ENABLED 2'X4', 347V, 33W, 4,000 LUMENS, 3500K COLOUR TEMPERATURE, CREE -
- FLX24-40L-35K-34-CMA-FD.

  X. FIXTURE TYPE G: GYMNASIUM, HIGH BAY FIXTURE, SUSPENDED, LED TECHNOLOGY, POLYCARBONATE LENS, WIRE GUARD, MOUNTING HARDWARE, TWIST LOCK & WHITE CHORD ASSEMBLY, WIDE DISTRIBUTION OPTICS, 2 'X4', 347V, 269W, 48,000 LUMENS, 4000K COLOUR TEMPERATURE, DIM TO OFF
- i. INSTALL FIXTURE COMPETE WITH CHAIN, MOUNTING HARDWARE & SECURE CONNECTION &

CAPABILITIES, LITHONIA LIGHTING - IBG-48000LM-HEF-PFL-WD-347-GZ10-40K-90CRI-WGIBG46 OR EQUAL

- WHITE CHORD & TWIST LOCK ASSEMBLY.

  ii. CONFIRM FINAL MOUNTING HEIGHT, ORIENTATION AND PROGRAMMING. MATCH EXISTING
- MOUNTING HEIGHT, ORIENTATION AND PROGRAMMING. MATCH EXISTIN
- iii. CONTRACTOR TO PROTECT GYMNASIUM FLOORING BEFORE UTILIZING LIFT EQUIPMENT.
- iv. INSTALL COMPLETE WITH 0-10V DIMMER CONTROLS AS PER LAYOUT. DIMMER TO BE LUTRON DIVA 0-10V CONTROLS, REFER TO MANUFACTURER'S WIRING DIAGRAM FOR 0-10V DIMMING CONTROL. EXISTING MANUAL SWITCHING TO REMAIN. 0-10V CABLING TO BE SIZED ACCORDING TO MANUFACTURER'S RECOMMENDED GAUGE SIZE FOR DISTANCE. EXISTING MANUAL SWITCHES TO REMAIN FOR ON/OFF CONTROL AND 0-10V CONTROLS ADDED FOR DIMMING
- v. 0-10V DIMMERS TO BE INSTALLED IN NEW 3-GANG WIRE MOLD DEVICE BOX LOCATED ABOVE THE EXISTING SWITCHING, PAINTED TO MATCH.
- Y. FIXTURE TYPE L: SUSPENDED FIXTURE, LED TECHNOLOGY, SMART CAST ENABLED 1'X4', 120-277V, 32W, 3,400 LUMENS, 3500K COLOUR TEMPERATURE, CREE LN4-34L-35K-CMA. UTILIZE STEP DOWN TRANSFORMER.
- Z. FIXTURE TYPE N2: TROFFER FIXTURE, RECESSED/SURFACE MOUNT, LED TECHNOLOGY, 2'X4', 347V, 37W, 5.000 LUMENS, 3500K COLOUR TEMPERATURE, CREE FLX24-50L-35K-34-10V-FD.
- AA. FIXTURE TYPE N4: TROFFER FIXTURE, RECESSED/SURFACE MOUNT, LED TECHNOLOGY, 2'X4', 347V,
- 32W, 4,000 LUMENS, 3500K COLOUR TEMPERATURE, CREE FLX24-40L-35K-34-10V-FD.

  BB. FIXTURE TYPE R1: TROFFER FIXTURE, RECESSED/SURFACE MOUNT, LED TECHNOLOGY, SMART CAST ENABLED, 1'X4', 347V, 33W, 4,000 LUMENS, 4000K COLOUR TEMPERATURE, CREE FLX14-40L-40K-34-CMA-FD.
- CC. FIXTURE TYPE R2: TROFFER FIXTURE, RECESSED/SURFACE MOUNT, LED TECHNOLOGY, SMART CAST ENABLED 2'X4', 347V, 41W, 5,000 LUMENS, 4000K COLOUR TEMPERATURE, CREE FLX24-50L-40K-34-CMA-FD.
- DD. FIXTURE TYPE R3: TROFFER FIXTURE, RECESSED/SURFACE MOUNT, LED TECHNOLOGY, SMART CAST ENABLED 1'X4', 347V, 41W, 5,000 LUMENS, 4000K COLOUR TEMPERATURE, CREE FLX14-50L-40K-34-CMA-FD.
- EE. FIXTURE TYPE R4: TROFFER FIXTURE, RECESSED/SURFACE MOUNT, LED TECHNOLOGY, SMART CAST ENABLED 2'X4', 347V, 33W, 4,000 LUMENS, 4000K COLOUR TEMPERATURE, CREE -
- FLX24-40L-40K-34-CMA-FD.

  FF. FIXTURE TYPE S1: WALL MOUNT FIXTURE, SURFACE MOUNT, UP/DOWN LIGHTING, LED TECHNOLOGY, SMART CAST ENABLED, 120V, 65W, 5,920 LUMENS, 4000K COLOUR TEMPERATURE, CREE ST3-WI-4-M-H-40K-34-L-CMA-\_\_. COLOUR FINISH TO BE DETERMINED DURING SHOP DRAWING PHASE. UTILIZE LONGER LENGTH FIXTURE FOR COMBINED END TO END FIXTURE LAYOUT, REFER TO LAYOUT DRAWINGS.

- GG. FIXTURE TYPE S2: SUSPENDED FIXTURE, UP/DOWN LIGHTING, LED TECHNOLOGY, SMART CAST ENABLED, 120V, 75W, 6,800 LUMENS, 4000K COLOUR TEMPERATURE, CREE ST3-SI-4-H-H-40K-L-CMA-04-D-\_\_. CONFIRM SUSPENSION LENGTH. COLOUR FINISH TO BE DETERMINED DURING SHOP DRAWING PHASE. UTILIZE LONGER LENGTH FIXTURE FOR COMBINED END TO END FIXTURE LAYOUT, REFER TO LAYOUT DRAWINGS.
- HH. FIXTURE TYPE S3: WALL MOUNT FIXTURE, SURFACE MOUNT, UP/DOWN LIGHTING, LED TECHNOLOGY, SMART CAST ENABLED, 120V, 54W, 4,920 LUMENS, 4000K COLOUR TEMPERATURE, CREE ST3-WI-4-M-40K-34-L-CMA-\_\_. COLOUR FINISH TO BE DETERMINED DURING SHOP DRAWING PHASE. UTILIZE LONGER LENGTH FIXTURE FOR COMBINED END TO END FIXTURE LAYOUT, REFER TO LAYOUT DRAWINGS.
- II. FIXTURE TYPE S4: SUSPENDED FIXTURE, UP/DOWN LIGHTING, LED TECHNOLOGY, SMART CAST ENABLED, 120V, 54W, 4,920 LUMENS, 4000K COLOUR TEMPERATURE, CREE ST3-SI-4-M-M-40K-L-CMA-04-D-\_\_. CONFIRM SUSPENSION LENGTH. COLOUR FINISH TO BE DETERMINED DURING SHOP DRAWING PHASE. UTILIZE LONGER LENGTH FIXTURE FOR COMBINED END TO END FIXTURE LAYOUT, REFER TO LAYOUT DRAWINGS.
- JJ. FIXTURE TYPE S5: SUSPENDED FIXTURE, UP/DOWN LIGHTING, LED TECHNOLOGY, SMART CAST ENABLED, 120V, 65W, 5,920 LUMENS, 4000K COLOUR TEMPERATURE, CREE -ST3-SI-4-M-H-40K-L-CMA-04-D-\_\_. CONFIRM SUSPENSION LENGTH. COLOUR FINISH TO BE DETERMINED DURING SHOP DRAWING PHASE. UTILIZE LONGER LENGTH FIXTURE FOR COMBINED END TO END FIXTURE LAYOUT, REFER TO LAYOUT DRAWINGS.
- KK. FIXTURE TYPE U1: LINEAR FIXTURE, SUSPENDED/SURFACE MOUNT, LED TECHNOLOGY, 347V, 4' LENGTH, 347V, 30W, 4,000 LUMENS, 4000K COLOUR TEMPERATURE, CREE LS4C-40L-40K-34-10V-FD OR EQUAL.
- LL. FIXTURE TYPE U2: LINEAR FIXTURE, SUSPENDED/SURFACE MOUNT, LED TECHNOLOGY, 347V, 4' LENGTH, 347V, 37W, 5,000 LUMENS, 4000K COLOUR TEMPERATURE, CREE LS4C-50L-40K-34-10V- FD OR FOLIAL
- MM. FIXTURE TYPE U3: LINEAR FIXTURE, SUSPENDED/SURFACE MOUNT, LED TECHNOLOGY, 347V, 8' LENGTH, 347V, 53W, 8,000 LUMENS, 4000K COLOUR TEMPERATURE, CREE LS8C-80L-40K-34-10V- FD OR EQUAL.
- NN. FIXTURE TYPE U4: LINEAR FIXTURE, SUSPENDED/SURFACE MOUNT, LED TECHNOLOGY, 347V, 8' LENGTH, 347V, 68W, 10,000 LUMENS, 4000K COLOUR TEMPERATURE, CREE LS8C-100L-40K-34-10V- FD OR EQUAL.
- OO. FIXTURE TYPE U5: LINEAR FIXTURE, SURFACE MOUNT/SUSPENDED, LED TECHNOLOGY, 347V, 4' LENGTH, 347V, 59W, 7,000 LUMENS, 5000K COLOUR TEMPERATURE, LITHONIA LIGHTING ZL1D-L48-7000LM-FST-347-50K-80CRI-WH OR EQUAL. UTILIZE CONTINUOUS ROW WIRING HARNESS AT CONTRACTOR'S DISCRETION.
- PP. FIXTURE TYPE U6: LINEAR FIXTURE, SURFACE MOUNT/SUSPENDED, LED TECHNOLOGY, 347V, 8' LENGTH, 347V, 121W, 14,000 LUMENS, 5000K COLOUR TEMPERATURE, LITHONIA LIGHTING ZL1D-L96-14000LM-FST-347-50K-80CRI-WH OR EQUAL. UTILIZE CONTINUOUS ROW WIRING HARNESS AT CONTRACTOR'S DISCRETION.
- QQ. FIXTURE TYPE U7: LINEAR FIXTURE, SUSPENDED/SURFACE MOUNT, LED TECHNOLOGY, 347V, 4' LENGTH, 347V, 30W, 4,000 LUMENS, 3500K COLOUR TEMPERATURE, CREE LS4C-40L-35K-34-10V- FD OR EQUAL.
- RR. FIXTURE TYPE V: UTILITY FIXTURE, SURFACE MOUNT, LED TECHNOLOGY, 120V, 22W, 1,900 LUMENS, 5000K COLOUR TEMPERATURE, C-LITE C-VT-B-SMCL-19L-50K-GR OR EQUAL.
- SS. FIXTURE TYPE W: WALL MOUNT FIXTURE, SURFACE MOUNT, LED TECHNOLOGY, 347V, 32W, 4,000 LUMENS, 4000K COLOUR TEMPERATURE, CORE LITE LIGHTING DWI-WA-40L-840-1-D-347-STD-FC-\_\_-WM-4 OR EQUAL. COLOUR FINISH TO BE DETERMINED DURING
- SHOP DRAWING PHASE.

  TT. FIXTURE TYPE WP: FLOODLIGHT, SURFACE MOUNT, LED TECHNOLOGY, 0-10V DIMMING, 347V, 1,600 LUMENS, 4000K COLOUR TEMPERATURE, RAB LIGHTING AWL-LED-14W-C-4K-\_\_-DMS OR EQUAL. COLOUR FINISH TO BE DETERMINED DURING SHOP DRAWING PHASE.
- UU. LIGHTING CONTROL TYPE D: DIMMER, WALL MOUNT, SMART CAST ENABLED, LINE VOLTAGE, 120-277V INPUT, CREE CWD-CWC-WH.
  - i. INSTALL COMPLETE WITH MANUFACTURER SUPPLIED DECORA STYLE PLASTIC FACE PLACE, REFER TO LAYOUT DRAWINGS REGARDING GROUPED SWITCHING, CREE CWP-\_-WH. DRILL/TAB EXISTING 347V DEVICE BOX TO ACCEPT LIGHTING CONTROL.
  - ii. INSTALL COMPLETE WITH DECORA PLASTIC BLANK PLATE FILLER AS REQUIRED, LEVITON 80414-W OR EQUAL.
- iii. UTILIZE STEP DOWN TRANSFORMER
- VV. LIGHTING CONTROL TYPE F: OCCUPANCY SENSOR, FIXTURE MOUNT, LINE VOLTAGE, 120V-347V INPUT, LOW/HIGH BAY INTERCHANGEABLE LENS, PASSIVE INFRARED TECHNOLOGY, LEVITON OSFHU-ITW OR EQUAL. INSTALL SENSOR ON END OF FIXTURE CLOSER TO ENTRANCE WAY.
- WW. LIGHTING CONTROL TYPE SC: LIGHTING CONTROLLER MODULE, LINE VOLTAGE 120-347V INPUT, OCCUPANCY SENSING, DAYLIGHT HARVESTING SENSING, 0-10V OUTPUT DIMMING, REFER TO MANUFACTURER'S WIRING & INSTALLATION MANUAL, CREE- CSC-ZC-10V-CWC.

# 13.EMERGENCY & EGRESS LIGHTING

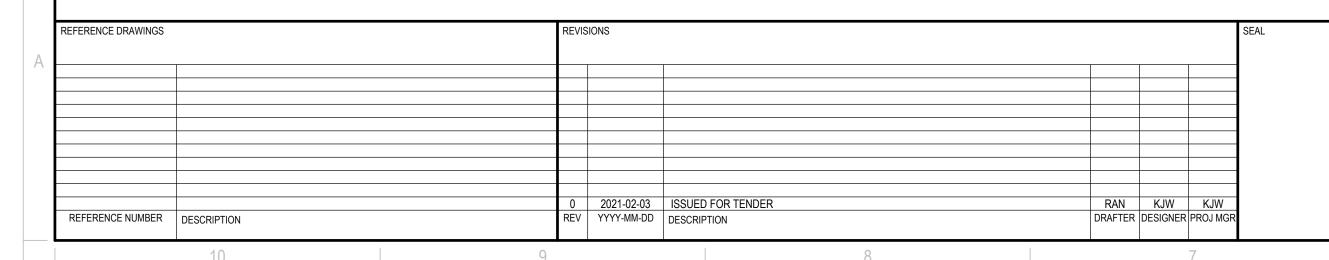
PER LAYOUT & SPECIFICATIONS.

- A. EMERGENCY LIGHTING & EGRESS LIGHTING SCOPE OF WORK INCLUDES BUT IS NOT LIMITED TO REPLACEMENT, REMOVAL & RELOCATION (IF APPLICABLE) OF EXISTING EMERGENCY LIGHTING/EGRESS LIGHTING & INSTALLATION OF NEW EMERGENCY LIGHTING/EGRESS LIGHTING AS
- B. ONCE WORK IS COMPLETED, TEST EMERGENCY & EGRESS LIGHTING SYSTEM EFFECTED BY WORK TO VERIFY PROPER OPERATION OF SYSTEM.
- C. WHERE SPECIFIED, CONTROL EMERGENCY LIGHTING BY A CENTRALIZED BATTERY UNIT LOCATED IN THE SERVICE ROOM THAT MONITORS ALL LIGHTING CIRCUIT THROUGH A LIGHTING RELAY MODULE. IN THE EVENT OF POWER BEING DURING OFF TO ANY LIGHTING CIRCUIT OR THE EXIT LIGHTING CIRCUIT, ALL EMERGENCY LIGHTING THROUGHOUT THE AREA TO BE ENERGIZED AS SPECIFIED. REFER TO MANUFACTURER'S WIRING DIAGRAM FOR INSTALLATION.
- D. INSTALL ALL DC POWER WITH #10 AWG COPPER CONDUCTORS.
- E. INSTALL EXIT SIGN ABOVE DOOR & WALL MOUNTED ONLY. DO NOT CEILING/SUSPEND MOUNT UNLESS WALL MOUNTING UNIT IS NOT POSSIBLE.
- F. CONFIRM THAT EXIT SIGN IS VISIBLE ON APPROACH TO EXIT.
- G. NEW EGRESS RUNNING MAN EXIT SIGNS ARE SMALLER THEN EXISTING BILINGUAL EXIT SIGNS BEING REPLACED. CONTRACTOR TO PATCH, PAINT AND MAKE SURFACE GOOD FOR NEW DEVICE. EVERY EFFORT TO BE TAKEN TO LOCATE NEW EXIT SIGN CENTERED.
- H. MAINTAIN CONSTANT MOUNTING HEIGHT FOR WALL MOUNTED EXIT SIGNS THROUGHOUT AREA.
- I. INSTALL EXIT SIGN C/W OCTAGON DEVICE BOX. DO NOT USE FIXTURE AS UNAPPROVED JUNCTION BOX.
- J. ADJUST EMERGENCY LIGHTING FOR OPTIMAL ILLUMINATION OF PATHWAY.
- K. EXIT SIGN DC POWER: SELF POWERED.

- L. EXIT SIGN AC POWER: POWER EXIT SIGNS WITH EXISTING EXIT SIGN CIRCUIT.
- M. ROUTE EMERGENCY LIGHTING INDEPENDENT OF CONDUCTORS, RACEWAYS & BOXES USED FOR OTHER CIRCUITS.
- N. INSTALL EMERGENCY LIGHTING FIXTURES C/W SPIDER BRACKET, MOUNTING HARDWARE TO ALLOW FOR HORIZONTAL INSTALLATION OF FIXTURE AS PER MANUFACTURER'S INSTALLATION INSTRUCTION.
- O. ADJUST REMOTE EMERGENCY LIGHTING FINAL LOCATION & LAMP ADJUSTMENT FOR OPTIMAL
- ILLUMINATION OF EGRESS PATH.
- P. ALL GYMNASIUM EMERGENCY / EGRESS DEVICES TO BE INSTALLED COMPLETE WITH NEW MECHANICAL PROTECTION CAGES SPECIFIC FOR THE DEVICE FROM THE DEVICE'S MANUFACTURER.
- Q. REFER TO LAYOUT IS EGRESS SIGNAGE REQUIRE DOUBLE FACE AND/OR OPTIONAL ARROW CONFIGURATION FOR EXIT/EGRESS LIGHTING SIGNAGE.
- R. BATTERY UNIT EM1: 347V 12VDC 70WDC EMERGENCY LIGHTING BATTERY UNIT, AUDIBLE AUTO-DIAGNOSTICS, DUAL 15W LED HEADS, ADJUST LAMP POSITION FOR OPTIMAL ILLUMINATION OF EGRESS PATH. EMERGI-LITE EHP-1275-2-L15-U OR EQUAL. INSTALL 4500 MM AFF. POWER UNIT FROM
- LOCAL LIGHTING CIRCUIT. SURFACE MOUNT CONDUIT IS ACCEPTABLE, PAINT TO MATCH.

  S. EXIT SIGN EM2: PICTOGRAM STYLE, 120-347VAC, METAL CONSTRUCTION, WHITE FINISH,
- SELF-POWERED. EMERGI-LITE ES-1-W-I OR EQUAL.
- T. REMOTE HEAD EM3: 24VDC 15W EMERGENCY LIGHTING REMOTE HEAD, WHITE FINISH, DOUBLE HEAD, LED LAMPS. EMERGI-LITE EHPRL-2-L15W OR EQUAL.
- U. EXIT SIGN EM4: PICTOGRAM STYLE, 120-347VAC, METAL CONSTRUCTION, TEXTURED ALUMINUM, SELF-POWERED. EMERGI-LITE EAE-1-TA-UI OR EQUAL.
- V. REMOTE HEAD EM5: 24VDC 6W EMERGENCY LIGHTING REMOTE HEAD, WHITE FINISH, DOUBLE HEAD, LED LAMPS. EMERGI-LITE EF26DS-M-LM OR EQUAL.
- W. BATTERY UNIT EM6: 347VAC 24VDC 720W DC EMERGENCY LIGHTING BATTERY UNIT, WHITE FINISH, AUDIBLE AUTO-DIAGNOSTICS, AC/DC TERMINAL BLOCK, 2-24V 6W LED HEADS, 8-ZONE RELAY PANEL EMERGI-LITE 24ESL-720W-U-ZCB/2-LM OR EQUAL.
- i. RELOCATE EXISTING EQUIPMENT TO HAVE SUFFICIENT ROOM FOR THE INSTALLATION OF THE
- NEW BATTERY UNIT.

  ii. INSTALL BATTERY UNIT & RELAY PANEL AT 2200MM AFF TO CENTER C/W MANUFACTURER PROVIDED SHELF.
- iii. REFER TO MANUFACTURER'S WIRING DIAGRAM FOR RELAY PANEL, SEPARATE POWER CONDUCTOR & NEUTRAL CONDUCTOR FROM EACH LIGHTING/EXIT SIGN CIRCUIT TO BE MONITORED BY THE RELAY PANEL.
- iv. INSTALL C/W MANUAL SWITCH TO ACTIVATE EMERGENCY LIGHTING TO SIMULATE A POWER FAILURE BY INTERRUPTING A LIGHTING CIRCUIT. INSTALL SWITCH AT 1500MM NEXT TO BATTERY UNIT & INSTALL C/W 10MM TEXT LAMACOID LABEL (RED BACKGROUND & BLACK TEXT) "EMERGENCY LIGHTING TESTING SWITCH". SWITCH TO BE TOGGLE SWITCH & INSTALLED IN A UTILITY BOX WITH STAINLESS STEEL PLATE. INSTALL C/W EMT CONDUIT BETWEEN SWITCH & BATTERY UNIT/RELAY PANEL.
- X. REMOTE HEAD EM7: 24VDC 6W EMERGENCY LIGHTING REMOTE HEAD, WHITE FINISH, DOUBLE HEAD, LED LAMPS. EMERGI-LITE EF9-D-M-LM OR EQUAL.
- Y. REMOTE HEAD EM8: 24VDC 6W EMERGENCY LIGHTING REMOTE HEAD, WHITE FINISH, SINGLE HEAD, LED LAMPS. EMERGI-LITE EF26-M-LM OR EQUAL.



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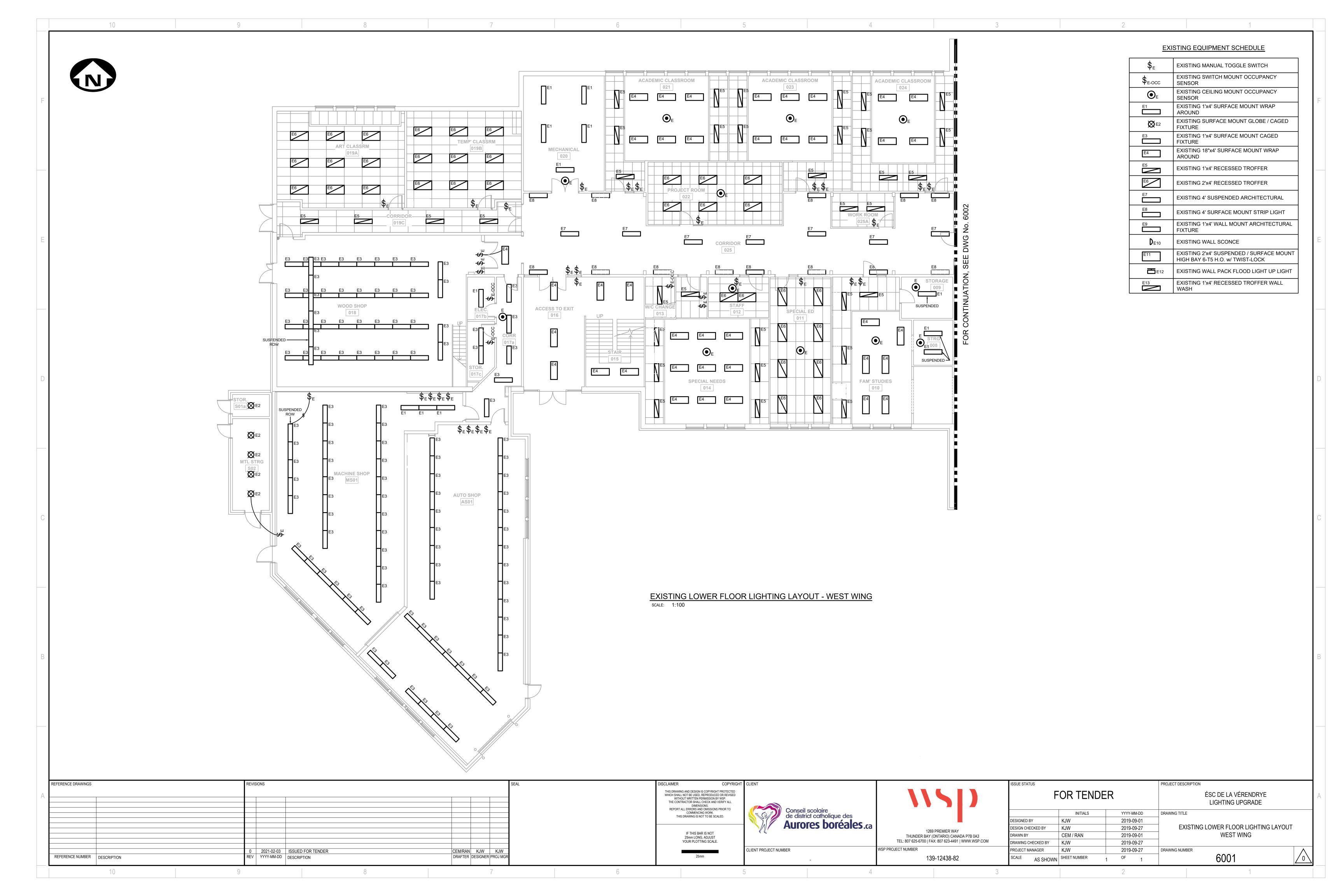
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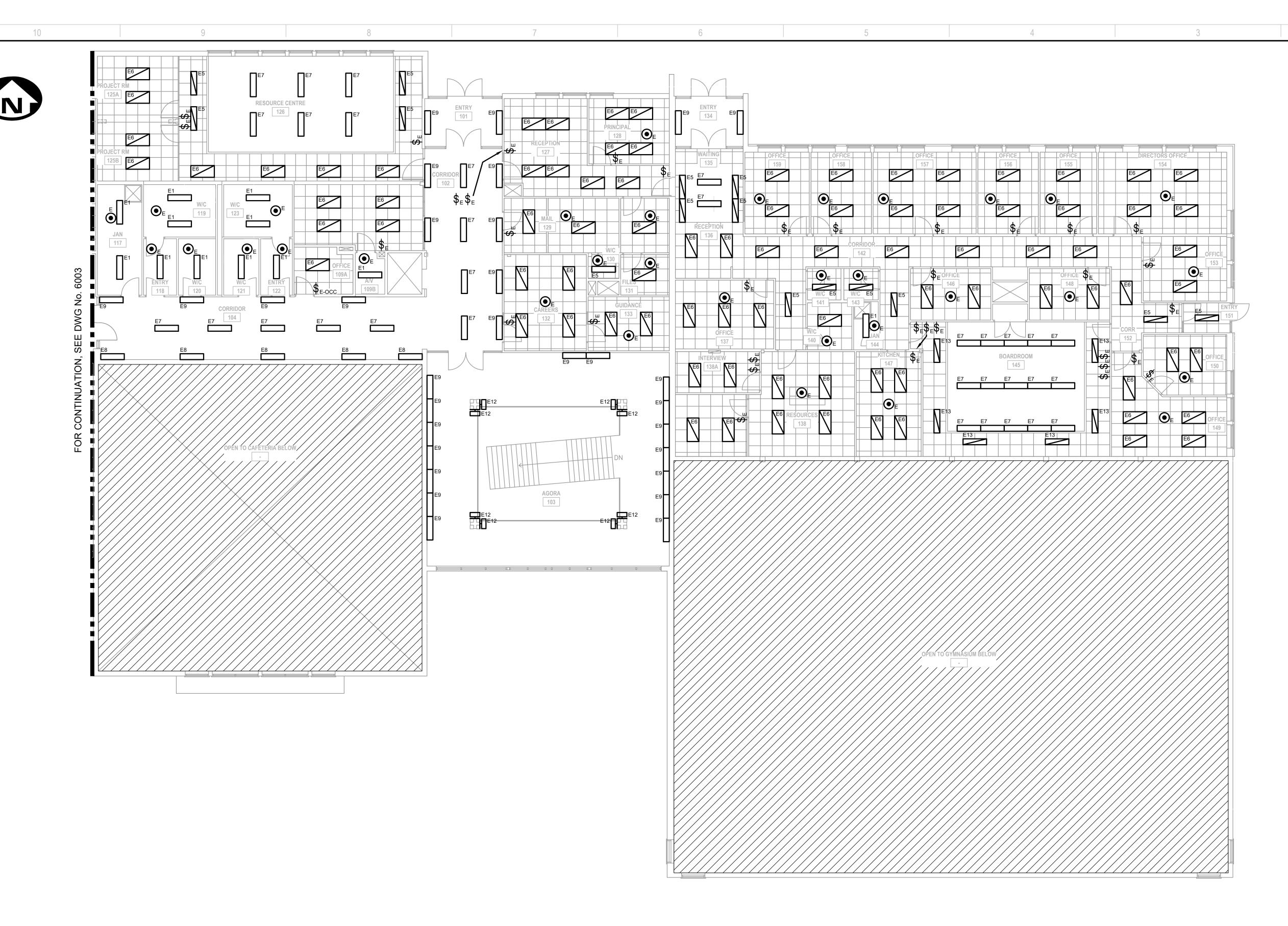
139-12438-82

FOR TENDER ÉSC DE LA VÉRENDRYE LIGHTING UPGRADE YYYY-MM-DD DRAWING TITLE 2019-11-27 K.IW SIGNED BY SIGN CHECKED BY KJW 2019-11-27 SPECIFICATIONS 2019-11-27 2019-11-27 AWING CHECKED BY l K.IW 2019-11-27 DRAWING NUMBER ROJECT MANAGER l K.IW NTS | SHEET NUMBER OF









## EXISTING MAIN FLOOR LIGHTING LAYOUT - EAST WING SCALE: 1:100

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REVISIONS

SEAL

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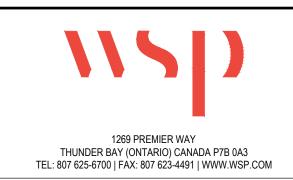
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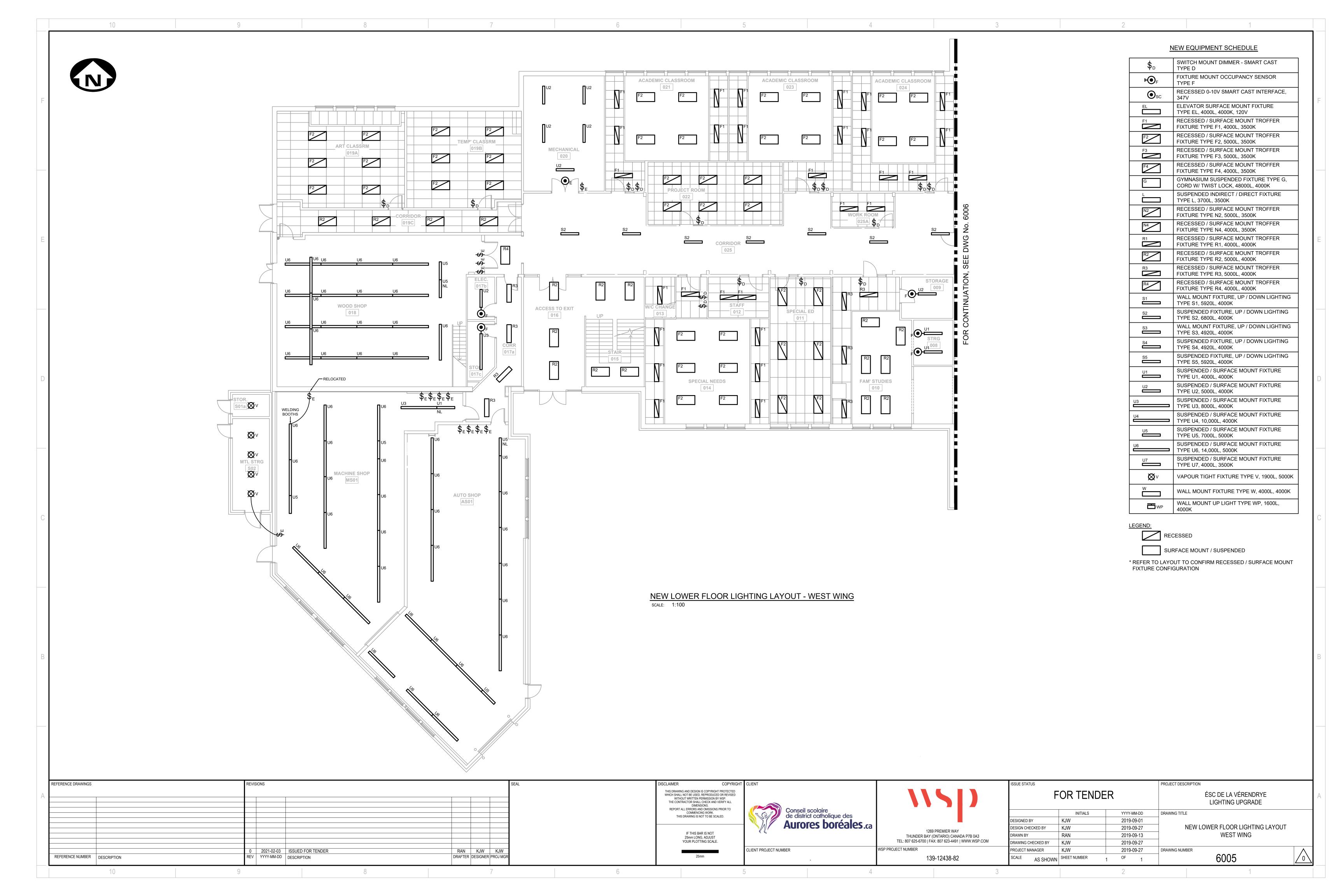


139-12438-82

ISSUE STATUS			PROJECT DESCRIPTION		
F	OR TENDE	:R	ÉSC DE LA VÉRENDRYE LIGHTING UPGRADE		
	INITIALS	YYYY-MM-DD	DRAWING TITLE		
DESIGNED BY	KJW	2019-09-01			
DESIGN CHECKED BY	KJW	2019-09-27	EXISTING MAIN FLOOR LIGHTING LAYOUT		
DRAWN BY	CEM / RAN	2019-09-01	EAST WING		
DRAWING CHECKED BY	KJW	2019-09-27			
PROJECT MANAGER	KJW	2019-09-27	DRAWING NUMBER		
SCALE AS SHOWN	SHEET NUMBER .	1 <sup>OF</sup> 1	6004	0	

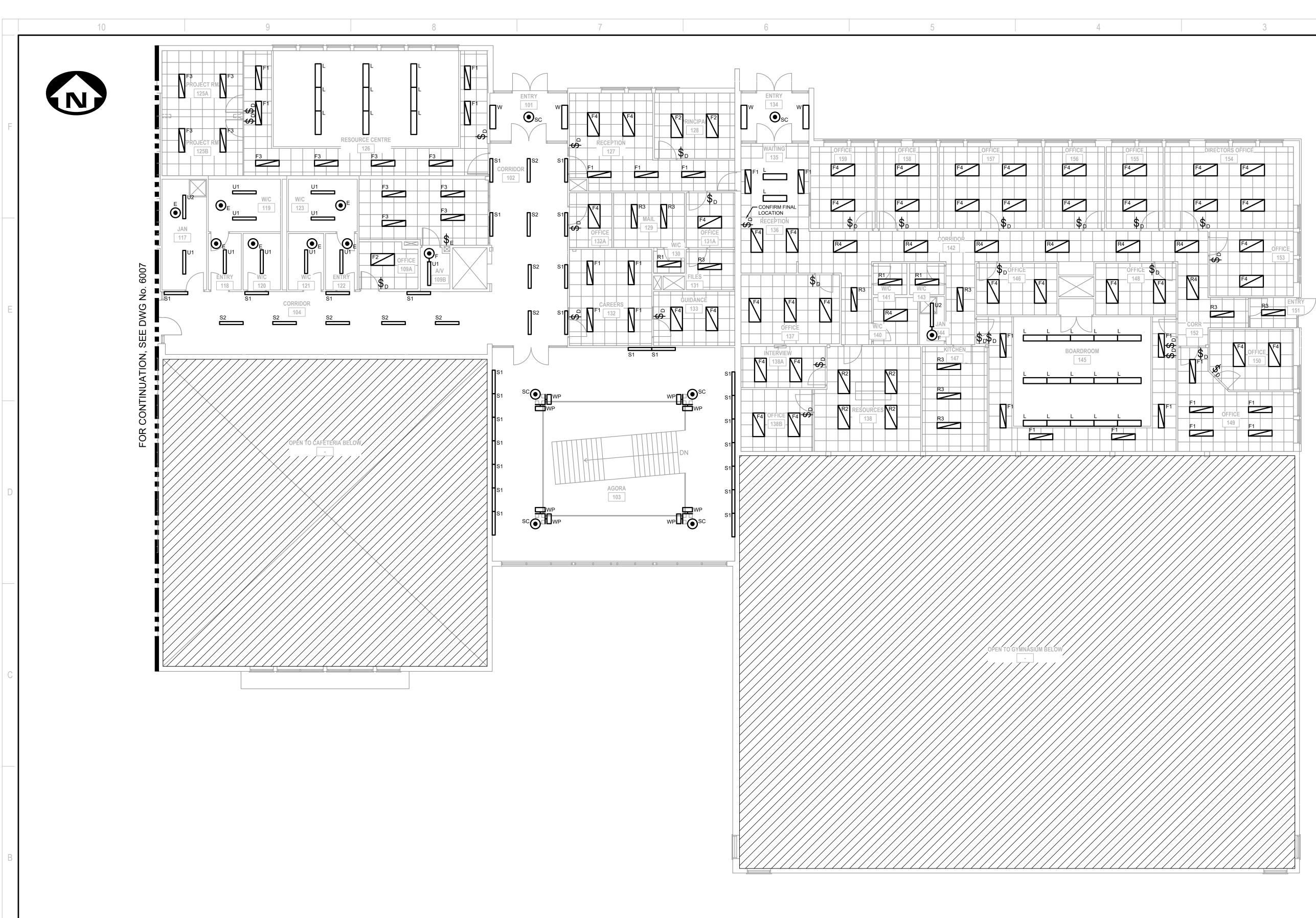
## **EXISTING EQUIPMENT SCHEDULE**

\$ <sub>E</sub>	EXISTING MANUAL TOGGLE SWITCH
\$ <sub>E-OCC</sub>	EXISTING SWITCH MOUNT OCCUPANCY SENSOR
<b>⊙</b> <sub>E</sub>	EXISTING CEILING MOUNT OCCUPANCY SENSOR
E1	EXISTING 1'x4' SURFACE MOUNT WRAP AROUND
<b>⊠</b> E2	EXISTING SURFACE MOUNT GLOBE / CAGED FIXTURE
E3	EXISTING 1'x4' SURFACE MOUNT CAGED FIXTURE
E4	EXISTING 18"x4' SURFACE MOUNT WRAP AROUND
E5	EXISTING 1'x4' RECESSED TROFFER
E6	EXISTING 2'x4' RECESSED TROFFER
E7	EXISTING 4' SUSPENDED ARCHITECTURAL
E8	EXISTING 4' SURFACE MOUNT STRIP LIGHT
E9	EXISTING 1'x4' WALL MOUNT ARCHITECTURAL FIXTURE
<b>D</b> E10	EXISTING WALL SCONCE
E11	EXISTING 2'x4' SUSPENDED / SURFACE MOUNT HIGH BAY 6-T5 H.O. w/ TWIST-LOCK
<b>□</b> E12	EXISTING WALL PACK FLOOD LIGHT UP LIGHT
E13	EXISTING 1'x4' RECESSED TROFFER WALL WASH









NEW MAIN FLOOR LIGHTING LAYOUT - EAST WING

## NEW EQUIPMENT SCHEDULE

<b>\$</b> <sub>□</sub>	SWITCH MOUNT DIMMER - SMART CAST TYPE D
₽₽F	FIXTURE MOUNT OCCUPANCY SENSOR TYPE F
Osc	RECESSED 0-10V SMART CAST INTERFACE, 347V
EL	ELEVATOR SURFACE MOUNT FIXTURE TYPE EL, 4000L, 4000K, 120V
F1	RECESSED / SURFACE MOUNT TROFFER FIXTURE TYPE F1, 4000L, 3500K
F2	RECESSED / SURFACE MOUNT TROFFER FIXTURE TYPE F2, 5000L, 3500K
F3	RECESSED / SURFACE MOUNT TROFFER FIXTURE TYPE F3, 5000L, 3500K
F4	RECESSED / SURFACE MOUNT TROFFER FIXTURE TYPE F4, 4000L, 3500K
G	GYMNASIUM SUSPENDED FIXTURE TYPE G, CORD W/ TWIST LOCK, 48000L, 4000K
L	SUSPENDED INDIRECT / DIRECT FIXTURE TYPE L, 3700L, 3500K
N2	RECESSED / SURFACE MOUNT TROFFER FIXTURE TYPE N2, 5000L, 3500K
N4	RECESSED / SURFACE MOUNT TROFFER FIXTURE TYPE N4, 4000L, 3500K
R1	RECESSED / SURFACE MOUNT TROFFER FIXTURE TYPE R1, 4000L, 4000K
R2	RECESSED / SURFACE MOUNT TROFFER FIXTURE TYPE R2, 5000L, 4000K
R3	RECESSED / SURFACE MOUNT TROFFER FIXTURE TYPE R3, 5000L, 4000K
R4	RECESSED / SURFACE MOUNT TROFFER FIXTURE TYPE R4, 4000L, 4000K
S1	WALL MOUNT FIXTURE, UP / DOWN LIGHTING TYPE S1, 5920L, 4000K
\$2	SUSPENDED FIXTURE, UP / DOWN LIGHTING TYPE S2, 6800L, 4000K
S3	WALL MOUNT FIXTURE, UP / DOWN LIGHTING TYPE S3, 4920L, 4000K
S4	SUSPENDED FIXTURE, UP / DOWN LIGHTING TYPE S4, 4920L, 4000K
S5	SUSPENDED FIXTURE, UP / DOWN LIGHTING TYPE S5, 5920L, 4000K
U1	SUSPENDED / SURFACE MOUNT FIXTURE TYPE U1, 4000L, 4000K
U2	SUSPENDED / SURFACE MOUNT FIXTURE TYPE U2, 5000L, 4000K
U3	SUSPENDED / SURFACE MOUNT FIXTURE TYPE U3, 8000L, 4000K
U4	SUSPENDED / SURFACE MOUNT FIXTURE TYPE U4, 10,000L, 4000K
U5	SUSPENDED / SURFACE MOUNT FIXTURE TYPE U5, 7000L, 5000K
U6	SUSPENDED / SURFACE MOUNT FIXTURE TYPE U6, 14,000L, 5000K
U7	SUSPENDED / SURFACE MOUNT FIXTURE TYPE U7, 4000L, 3500K
×	VAPOUR TIGHT FIXTURE TYPE V, 1900L, 5000K
W	WALL MOUNT FIXTURE TYPE W, 4000L, 4000K
₩P	WALL MOUNT UP LIGHT TYPE WP, 1600L, 4000K
<b>□</b> WP	

LEGEND: RECESSED

\* REFER TO LAYOUT TO CONFIRM RECESSED / SURFACE MOUNT

SURFACE MOUNT / SUSPENDED

FIXTURE CONFIGURATION

REFERENCE DRAWINGS RAN KJW KJW
DRAFTER DESIGNER PROJ MGR 0 2021-02-03 ISSUED FOR TENDER
REV YYYY-MM-DD DESCRIPTION

REFERENCE NUMBER DESCRIPTION

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Conseil scolaire de district catholique des **Aurores boréales.**ca WSP PROJECT NUMBER CLIENT PROJECT NUMBER

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139-12438-82

FOR TENDER ÉSC DE LA VÉRENDRYE LIGHTING UPGRADE YYYY-MM-DD DRAWING TITLE 2019-09-01 KJW ESIGNED BY NEW MAIN FLOOR LIGHTING LAYOUT ESIGN CHECKED BY KJW 2019-09-27 **EAST WING** 2019-09-13 2019-09-27 AWING CHECKED BY ROJECT MANAGER KJW 2019-09-27 DRAWING NUMBER 6008 AS SHOWN SHEET NUMBER OF

ROOM IUMBER	ROOM TYPE	EXISTING FIXTURE TYPE	EXISTING CONTROLS	DEMOLITION SCOPE OF WORK	NEW EQUIPMENT SCOPE OF WORK	ADDITIONAL REQUIREMENTS
123	WASH/CHANGE ROOM	WRAP AROUND FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE FIXTURE(S)	INSTALL NEW SURFACE MOUNT FIXTURE(S)	REPAIR & PAINT GYPSUM CEILING
125A 125B	PROJECT ROOM PROJECT ROOM	RECESSED TROFFER(S)  RECESSED TROFFER(S)	MANUAL WALL SWITCH(S)  MANUAL WALL SWITCH(S)	REMOVE TROFFER(S) MANUAL WALL SWITCH(S), OBSOLETE CABLING REMOVE TROFFER(S) MANUAL WALL SWITCH(S), OBSOLETE CABLING	INSTALL NEW RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL INSTALL NEW RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTROL, ADD CEILING TILE(S)  SUPPLY 120-277 POWER TO LIGHTING CONTROL, ADD CEILING TILE(S)
126	RESOURCE CENTRE	RECESSED TROFFER(S), SUSPENDED FIXTURE(S)	MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE RECESSED TROFFER FIXTURE(S), SUSPENDED FIXTURE(S), MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S),	INSTALL NEW RECESSED TROFFER FIXTURE(S) , NEW SUSPENDED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTROL, ADD CEILING TILE(S), REPAIR & PAINT GYPSUM CEILING
127	RECEPTION AREA	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S)	OBSOLETE CABLING  REMOVE TROFFER(S) MANUAL WALL  SWITCH(S), CEILING MOUNT OCCUPANCY  SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTROL, ADD CEILING TILE(S), INSTALL BLANK PLATE(S) OVER REMOVED MANUAL SWITCH(S)
128	PRINCIPAL'S OFFICE	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE TROFFER(S) MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTROL, ADD CEILING TILE(S)
129	MAIL ROOM	RECESSED TROFFER(S)	CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE TROFFER(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER FIXTURE(S)	REPLACE CEILING TILE(S), ADD CEILING TILE(S)
130	WASH/CHANGE ROOM	SURFACE MOUNT FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE SURFACE MOUNT FIXTURE(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER FIXTURE(S)	REPLACE CEILING TILE(S), ADD CEILING TILE(S)
131	FILE ROOM	RECESSED TROFFER(S)	CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE TROFFER(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER FIXTURE(S)	REPLACE CEILING TILE(S), ADD CEILING TILE(S)
131A	OFFICE	RECESSED TROFFER(S)	CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE TROFFER(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTROL, RETROFIT SWITCH MOUNT LIGHTING CONTROL INTO EXISTING WALL
132	CAREERS ROOM	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE TROFFER(S) MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTROL, REPLACE CEILING TILE(S)
132A	OFFICE	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S)	REMOVE TROFFER(S) MANUAL WALL SWITCH(S), OBSOLETE CABLING	INSTALL NEW RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTROL
133	GUIDANCE OFFICE	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE TROFFER(S) MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTROL, REPLACE CEILING TILE(S)
134	ENTRY	SURFACE MOUNT WALL MOUNT FIXTURE(S)	MANUAL WALL SWITCH(S)	REMOVE FIXTURE(S), REMOVE MANUAL WALL SWITCH(S)	INSTALL NEW WALL MOUNT FIXTURE(S), INSTALL NEW LIGHTING CONTROL(S)	INSTALL BLANK PLATE(S) OVER REMOVED MANUAI SWITCH(S)
135	WAITING AREA	RECESSED TROFFER(S), SUSPENDED FIXTURE(S)	MANUAL WALL SWITCH(S)	REMOVE TROFFER(S), SUSPENDED FIXTURE(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S), INSTALL NEW SUSPENDED FIXTURE(S)	INSTALL BLANK PLATE(S) OVER REMOVED MANUAI SWITCH(S), ADD CEILING TILE(S)
136	RECEPTION AREA	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S)  MANUAL WALL SWITCH(S),	REMOVE TROFFER(S) MANUAL WALL SWITCH(S), OBSOLETE CABLING REMOVE TROFFER(S) MANUAL WALL	INSTALL NEW RECESSED TROFFER(S)	INSTALL BLANK PLATE(S) OVER REMOVED MANUAI SWITCH(S)
137	OFFICE	RECESSED TROFFER(S)	CEILING MOUNT OCCUPANCY SENSOR(S)	SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTROL, REPLACE CEILING TILE(S)
138	RESOURCE ROOM	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE TROFFER(S) MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S)	REPLACE CEILING TILE(S), INSTALL BLANK PLATE(S) OVER REMOVED MANUAL SWITCH(S)
138A	INTERVIEW ROOM	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S)	REMOVE TROFFER(S) MANUAL WALL SWITCH(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTROL, INSTALL BLANK PLATE(S) OVER REMOVED MANUAL SWITCH(S)
138B	OFFICE	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S)	REMOVE TROFFER(S) MANUAL WALL SWITCH(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTROL
140	WASH/CHANGE ROOM	RECESSED TROFFER(S)	CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE TROFFER(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S)	INSTALL BLANK PLATE(S) OVER REMOVED MANUAI SWITCH(S), REPLACE CEILING TILE(S)
141	WASH/CHANGE ROOM	RECESSED TROFFER(S)	CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE TROFFER(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S)	INSTALL BLANK PLATE(S) OVER REMOVED MANUAL SWITCH(S), REPLACE CEILING TILE(S)
142	CORRIDOR	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S)	REMOVE TROFFER(S) MANUAL WALL SWITCH(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S)	INSTALL BLANK PLATE(S) OVER REMOVED MANUA SWITCH(S)
143	WASH/CHANGE ROOM	RECESSED TROFFER(S)	CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE TROFFER(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S)	INSTALL BLANK PLATE(S) OVER REMOVED MANUA SWITCH(S), REPLACE CEILING TILE(S)
144	JANITOR'S ROOM	SURFACE MOUNT UTILITY FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE UTILITY FIXTURE(S), OCCUPANCY SENSOR(S) SWITCH MOUNT, OBSOLETE CABLING	INSTALL NEW SURFACE MOUNT FIXTURE(S) WITH FIXTURE MOUNT OCCUPANCY SENSOR(S)	REMOVE ALL OBSOLETE CABLING & DEVICES BOXES
145	BOARDROOM	RECESSED TROFFER(S), SUSPENDED FIXTURE(S)	MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE RECESSED TROFFER FIXTURE(S), SUSPENDED FIXTURE(S), MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER FIXTURE(S), NEW SUSPENDED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTROL, ADD CEILING TILE(S), REPAIR & PAINT GYPSUM CEILING, INSTALL BLANK PLATE(S) OVER REMOVED MANUAL SWITCH(S)
146	OFFICE	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE TROFFER(S) MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTROL, REPLACE CEILING TILE(S)
147	KITCHEN	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE TROFFER(S) MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S)	REPLACE CEILING TILE(S), INSTALL BLANK PLATE(S) OVER REMOVED MANUAL SWITCH(S), REPLACE CEILING TILE(S), ADD CEILING TILE(S)
148	OFFICE	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE TROFFER(S) MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTROL, REPLACE CEILING TILE(S)
149	OFFICE	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE TROFFER(S) MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTROL, REPLACE CEILING TILE(S), ADD CEILING TILE(S)
150	OFFICE	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE TROFFER(S) MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTROL, REPLACE CEILING TILE(S)
151	ENTRY	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S)	REMOVE TROFFER(S) MANUAL WALL SWITCH(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S)	INSTALL BLANK PLATE(S) OVER REMOVED MANUAI SWITCH(S)
152	CORRIDOR	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S)	REMOVE TROFFER(S) MANUAL WALL SWITCH(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S)	INSTALL BLANK PLATE(S) OVER REMOVED MANUA SWITCH(S)
153	OFFICE	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE TROFFER(S) MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTROL, REPLACE CEILING TILE(S)
154	DIRECTOR'S OFFICE	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE TROFFER(S) MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTROL, REPLACE CEILING TILE(S)
155	OFFICE	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE TROFFER(S) MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTROL, REPLACE CEILING TILE(S)
156	OFFICE	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE TROFFER(S) MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTROL, REPLACE CEILING TILE(S)
157	OFFICE	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE TROFFER(S) MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTROL, REPLACE CEILING TILE(S)
158	OFFICE	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE TROFFER(S) MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTROL, REPLACE CEILING TILE(S)
159	OFFICE	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE TROFFER(S) MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW RECESSED TROFFER(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTROL, REPLACE CEILING TILE(S)
AS01	AUTO SHOP	SURFACE MOUNT UTILITY FIXTURE(S)	MANUAL WALL SWITCH(S)	REMOVE FIXTURE(S)	INSTALL NEW SURFACE MOUNT FIXTURE(S)	REPAIR & PAINT GYPSUM CEILING, ALTERNATE FIXTURE SWITCHING IN EACH ROW AS EXISTING
AS01	AUTO SHOP MEZZANINE	SURFACE MOUNT UTILITY FIXTURE(S)	MANUAL WALL SWITCH(S)	REMOVE FIXTURE(S)	INSTALL NEW SURFACE MOUNT FIXTURE(S)	FIXTURES. INSTALL NIGHT LIGHT AS PER LAYOUT REPAIR & PAINT GYPSUM CEILING.
MS01	MACHINE SHOP	SURFACE MOUNT UTILITY FIXTURE(S)	MANUAL WALL SWITCH(S)	REMOVE FIXTURE(S)	INSTALL NEW SURFACE MOUNT FIXTURE(S)	REPAIR & PAINT GYPSUM CEILING, ALTERNATE FIXTURE SWITCHING IN EACH ROW AS EXISTING FIXTURES. INSTALL NIGHT LIGHT AS PER LAYOUT RELOCATE SWITCH FOR WELDING BOOTH. LOWER MOUNTING HEIGHT OF FIXTURES ABOVE WELDING BOOTHS, CONFIRM FINAL HEIGHT.
S01A	STORAGE MATERIAL	SPOT VAPOUR TIGHT FIXTURE(S) SPOT VAPOUR TIGHT	TOGGLE SWITCH	REMOVE VAPOUR TIGHT FIXTURE(S),	INSTALL NEW RECESSED VAPOUR TIGHT FIXTURE(S) INSTALL NEW RECESSED VAPOUR TIGHT	NA 
S02	STORAGE	FIXTURE(S)	TOGGLE SWITCH	REMOVE VAPOUR TIGHT FIXTURE(S),	FIXTURE(S)	NA

FOR TENDER

KJW

KJW

KJW

AS SHOWN SHEET NUMBER

DESIGNED BY

ESIGN CHECKED BY

RAWING CHECKED BY

PROJECT MANAGER

ÉSC DE LA VÉRENDRYE LIGHTING UPGRADE

**ROOM MATRIX** 

6009

DRAWING TITLE

DRAWING NUMBER

YYYY-MM-DD 2019-09-01

2019-09-27

2019-09-18

2019-09-27

2019-09-27

OF

ROOM NUMBER	ROOM TYPE	EXISTING FIXTURE TYPE	EXISTING CONTROLS	DEMOLITION SCOPE OF WORK	NEW EQUIPMENT SCOPE OF WORK	ADDITIONAL REQUIREMENTS
037	MECHANICAL ROOM	SURFACE MOUNT WRAP AROUND(S)	MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE SURFACE MOUNT WRAP AROUND(S), REMOVE MANUAL WALL SWITCH(S), REMOVE CEILING OCCUPANCY SENSOR(S)	INSTALL NEW SURFACE MOUNT FIXTURE(S) WITH FIXTURE MOUNT OCCUPANCY SENSOR(S)	REMOVE ALL OBSOLETE CABLING & DEVICE BOXES, INSTALL BLANK PLATE(S) OVER REMO SWITCH(S), REPAIR & PAINT GYPSUM CEILIN COORDINATE FINAL LAYOUT BEFORE WOR BEGINS
038	ELECTRICAL ROOM	SURFACE MOUNT WRAP AROUND(S)	MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE SURFACE MOUNT WRAP AROUND(S), REMOVE MANUAL WALL SWITCH(S), REMOVE CEILING OCCUPANCY SENSOR(S)	INSTALL NEW SURFACE MOUNT FIXTURE(S) WITH FIXTURE MOUNT OCCUPANCY SENSOR(S)	REMOVE ALL OBSOLETE CABLING & DEVICE BOXES, INSTALL BLANK PLATE(S) OVER REMO SWITCH(S), REPAIR & PAINT GYPSUM CEILIN COORDINATE FINAL LAYOUT BEFORE WOF BEGINS
039A	NEW OFFICE	RECESSED TROFFER(S)	CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)	REMOVE TROFFER(S), CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING	INSTALL NEW SURFACE/RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO NEW LOCATIC LIGHTING CONTROL, REPLACE CEILING TILE
039B	NEW OFFICE	RECESSED TROFFER(S)	CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)	REMOVE TROFFER(S), CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING	INSTALL NEW SURFACE/RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO NEW LOCATIC LIGHTING CONTROL, REPLACE CEILING TILE
040	IT ROOM	SURFACE MOUNT / SUSPENDED WRAP AROUND(S)	MANUAL WALL SWITCH(S)	REMOVE FIXTURE(S)	INSTALL NEW SURFACE/SUSPENDED MOUNT FIXTURE(S)	NA
041	GYMNASIUM	SURFACE MOUNT STRIP FIXTURE(S) / SUSPENDED HIGH BAY FIXTURE(S)	MANUAL WALL SWITCH(S)	REMOVE SURFACE MOUNT STRIP FIXTURE(S) , REMOVE HIGH BAY FIXTURE(S),	INSTALL NEW HIGH BAY FIXTURE(S) , SWITCH MOUNT LIGHTING CONTROLS	INSTALL 0-10V LIGHTING CONTROL AS SPECI GYMNASIUM FLOOR TO BE PROTECTED DUF WORK
041A	GYM STORAGE	- (-)		NO WOR		
041B 042	BOOK STORAGE  CORRIDOR	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S)	NO WORK REMOVE TROFFER(S), MANUAL WALL	( INSTALL NEW RECESSED FIXTURE(S)	INSTALL BLANK PLATE(S) OVER REMOVE
043	CHANGE ROOM	WRAP AROUND FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)	SWITCH(S)  REMOVE WRAP AROUND FIXTURE(S)	INSTALL NEW SURFACE MOUNT FIXTURE(S)	MANUAL SWITCH(S)  REPAIR & PAINT GYPSUM CEILING
045	OFFICE	RECESSED TROFFER(S)	CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)	REMOVE TROFFER(S), CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING	INSTALL NEW SURFACE/RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO NEW LOCATION LIGHTING CONTROL, RELOCATE CEILING TILE MODIFY CEILING TILE(S), INSTALL BLANK PLATE OVER REMOVED MANUAL SWITCH(S),
046	FIRST AID ROOM	WRAP AROUND FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)	REMOVE WRAP AROUND FIXTURE(S)	INSTALL NEW SURFACE MOUNT FIXTURE(S)	REPAIR & PAINT GYPSUM CEILING
047	WASH/CHANGE	WRAP AROUND FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE WRAP AROUND FIXTURE(S)	INSTALL NEW SURFACE MOUNT	REPAIR & PAINT GYPSUM CEILING
048	ROOM CHANGE ROOM	WRAP AROUND FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)	REMOVE WRAP AROUND FIXTURE(S)	INSTALL NEW SURFACE MOUNT FIXTURE(S)	REPAIR & PAINT GYPSUM CEILING
050	FITNESS ROOM	RECESSED TROFFER(S) / WRAP AROUND FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)	REMOVE TROFFER(S), CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING	INSTALL NEW SURFACE/RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO NEW LOCATION LIGHTING CONTROL, RELOCATE CEILING TILE MODIFY CEILING TILE(S), INSTALL BLANK PLATE OVER REMOVED MANUAL SWITCH(S),
051	WORK ROOM	RECESSED TROFFER(S)	CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)	REMOVE TROFFER(S), CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING	INSTALL NEW RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONT RELOCATE CEILING TILE(S)
053	TECHNICIAN ROOM	WRAP AROUND FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)	REMOVE WRAP AROUND FIXTURE(S), CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING	INSTALL NEW SURFACE FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONT
054	VESTIBULE	SURFACE MOUNT WALL MOUNT FIXTURE(S)	MANUAL WALL SWITCH(S)	REMOVE FIXTURE(S), REMOVE MANUAL WALL SWITCH(S)	INSTALL NEW WALL MOUNT FIXTURE(S), INSTALL NEW LIGHTING CONTROL(S)	INSTALL BLANK PLATE(S) OVER REMOVED MA SWITCH(S)
101	ENTRY CORRIDOR	SURFACE MOUNT WALL MOUNT FIXTURE(S)  SURFACE WALL MOUNT / SUSPENDED / INDIRECT LIGHTING (IN BULKHEAD)	MANUAL WALL SWITCH(S)  MANUAL WALL SWITCH(S)	REMOVE FIXTURE(S), REMOVE MANUAL WALL SWITCH(S)  REMOVE FIXTURE(S), REMOVE MANUAL WALL SWITCH(S)	INSTALL NEW WALL MOUNT FIXTURE(S), INSTALL NEW LIGHTING CONTROL(S)  INSTALL NEW FIXTURE(S)	INSTALL BLANK PLATE(S) OVER REMOVED MA SWITCH(S) REPAIR & PAINT GYPSUM CEILING, INSTALL E PLATE(S) OVER REMOVED SWITCH(S)
103	AGORA	FIXTURE(S)  SURFACE WALL MOUNT FIXTURE(S) / UP LIGHTING	MANUAL WALL SWITCH(S)	REMOVE FIXTURE(S), REMOVE MANUAL WALL SWITCH(S)	INSTALL NEW FIXTURE(S), INSTALL NEW LIGHTING CONTROL(S)	INSTALL BLANK PLATE(S) OVER REMOVED MA SWITCH(S), REPAIR WALL FINISH AT FLOOD L
104	CORRIDOR	FLOOD FIXTURE(S)  SURFACE WALL MOUNT / SUSPENDED / INDIRECT	MANUAL WALL SWITCH(S)	REMOVE FIXTURE(S), REMOVE MANUAL	INSTALL NEW FIXTURE(S), INSTALL NEW	TO MATCH EXISTING, REPAIR & PAINT GYPS  REPAIR & PAINT GYPSUM
105	BIOLOGY ROOM	LIGHTING (IN BULKHEAD) FIXTURE(S)  RECESSED TROFFER(S) /	CEILING MOUNT OCCUPANCY SENSOR(S),	WALL SWITCH(S)  REMOVE TROFFER(S), WRAP AROUND FIXTURE(S), CEILING MOUNT OCCUPANCY	LIGHTING CONTROL(S)  INSTALL NEW SURFACE/RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING	REPAIR & PAINT GYPSUM CEILING, SUPPLY 12
		WRAP AROUND FIXTURE(S)	MANUAL WALL SWITCH(S)  CEILING MOUNT	SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING REMOVE TROFFER(S), CEILING MOUNT	CONTROL  INSTALL NEW RECESSED FIXTURE(S),	POWER TO LIGHTING CONTROL
106	PROJECT ROOM	RECESSED TROFFER(S)  RECESSED TROFFER(S)	OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)  CEILING MOUNT OCCUPANCY SENSOR(S),	OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING REMOVE TROFFER(S), CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL	SWITCH MOUNT LIGHTING CONTROL  INSTALL NEW RECESSED FIXTURE(S)	SUPPLY 120-277 POWER TO LIGHTING CONT  INSTALL BLANK PLATE(S) OVER REMOVE
107	PREP ROOM	RECESSED TROFFER(S) /	MANUAL WALL SWITCH(S)  CEILING MOUNT	SWITCH(S), OBSOLETE CABLING  REMOVE TROFFER(S), WRAP AROUND FIXTURE(S), CEILING MOUNT OCCUPANCY	INSTALL NEW SURFACE/RECESSED	MANUAL SWITCH(S), REPLACE CEILING TILI REPAIR & PAINT GYPSUM CEILING, SUPPLY 1:
108	CHEMISTRY ROOM	WRAP AROUND FIXTURE(S)	OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)	SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING REMOVE WRAP AROUND FIXTURE(S),	FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL INSTALL NEW SURFACE MOUNT	POWER TO LIGHTING CONTROL  INSTALL BLANK PLATE(S) OVER REMOVE
109	STAIRWELL	WRAP AROUND FIXTURE(S)	MANUAL WALL SWITCH(S)  OCCUPANCY SENSOR(S)	MANUAL WALL SWITCH(S)  REMOVE TROFFER(S), OCCUPANCY	FIXTURE(S)  INSTALL NEW RECESSED FIXTURE(S),	MANUAL SWITCH(S)
109A 	OFFICE  A/V ROOM	RECESSED TROFFER(S)  WRAP AROUND FIXTURE(S)	SWITCH MOUNT  CEILING MOUNT	SENSOR(S) SWITCH MOUNT, OBSOLETE CABLING REMOVE WRAP AROUND FIXTURE(S),	SWITCH MOUNT LIGHTING CONTROL  INSTALL NEW SURFACE MOUNT	SUPPLY 120-277 POWER TO LIGHTING CONT REPAIR & PAINT GYPSUM CEILING, INSTALL E
			OCCUPANCY SENSOR(S)	CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING REMOVE TROFFER(S), MANUAL WALL	FIXTURE(S)  INSTALL NEW RECESSED FIXTURE(S),	PLATE(S) OVER REMOVED MANUAL SWITCH SUPPLY 120-277 POWER TO LIGHTING CONT
110	PROJECT ROOM	RECESSED TROFFER(S) SURFACE	MANUAL WALL SWITCH(S)  CEILING MOUNT	SWITCH(S)	SWITCH MOUNT LIGHTING CONTROL  INSTALL/RELOCATE NEW	ADD CEILING TILE(S)
111	MECHANICAL ROOM	MOUNT/SUSPENDED WRAP AROUND FIXTURE(S) SURFACE CEILING MOUNT /	OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)	REMOVE FIXTURE(S)	SURFACE/SUSPENDED MOUNT FIXTURE(S)	REPAIR & PAINT GYPSUM CEILING, COORDIN FINAL LAYOUT BEFORE WORK BEGINS.
112	CORRIDOR	SUSPENDED / INDIRECT LIGHTING (IN BULKHEAD) FIXTURE(S)	MANUAL WALL SWITCH(S)	REMOVE FIXTURE(S), REMOVE MANUAL WALL SWITCH(S)	INSTALL NEW FIXTURE(S)	INSTALL BLANK PLATE(S) OVER REMOVED MA SWITCH(S)
112A	WORK ROOM	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S)	REMOVE TROFFER(S), MANUAL WALL SWITCH(S) REMOVE TROFFER(S), MANUAL WALL	INSTALL NEW RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONT ADD CEILING TILE(S)  SUPPLY 120-277 POWER TO LIGHTING CONT
112B	WORK ROOM  ACADEMIC	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S)  CEILING MOUNT	REMOVE TROFFER(S), MANUAL WALL SWITCH(S) REMOVE TROFFER(S), WRAP AROUND FIXTURE(S), CEILING MOUNT OCCUPANCY	INSTALL NEW RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL INSTALL NEW SURFACE/RECESSED	SUPPLY 120-277 POWER TO LIGHTING CONT ADD CEILING TILE(S)  REPAIR & PAINT GYPSUM CEILING, SUPPLY 1.
113	CLASSROOM	WRAP AROUND FIXTURE(S)	OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S) CEILING MOUNT	SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING REMOVE TROFFER(S), CEILING MOUNT	FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	POWER TO LIGHTING CONTROL
114	PROJECT ROOM	RECESSED TROFFER(S)	OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)  CEILING MOUNT	OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING REMOVE TROFFER(S), WRAP AROUND	INSTALL NEW RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONT
115	ACADEMIC CLASSROOM	RECESSED TROFFER(S) / WRAP AROUND FIXTURE(S)	OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)	FIXTURE(S), CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING	INSTALL NEW SURFACE/RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	REPAIR & PAINT GYPSUM CEILING, SUPPLY 12 POWER TO LIGHTING CONTROL
116	COMPUTER LAB	RECESSED TROFFER(S) / WRAP AROUND FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)	REMOVE TROFFER(S), WRAP AROUND FIXTURE(S), CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING	INSTALL NEW SURFACE/RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	REPAIR & PAINT GYPSUM CEILING, SUPPLY 12 POWER TO LIGHTING CONTROL
117	JANITOR'S ROOM	WRAP AROUND FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE FIXTURE(S)	INSTALL NEW SURFACE MOUNT FIXTURE(S)	REPAIR & PAINT GYPSUM CEILING
118	ENTRY	WRAP AROUND FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE FIXTURE(S)	INSTALL NEW SURFACE MOUNT FIXTURE(S)	REPAIR & PAINT GYPSUM CEILING
119	WASH/CHANGE ROOM	WRAP AROUND FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE FIXTURE(S)	INSTALL NEW SURFACE MOUNT FIXTURE(S)	REPAIR & PAINT GYPSUM CEILING
120	WASH/CHANGE ROOM	WRAP AROUND FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE FIXTURE(S)	INSTALL NEW SURFACE MOUNT FIXTURE(S)	REPAIR & PAINT GYPSUM CEILING
121	WASH/CHANGE ROOM	WRAP AROUND FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE FIXTURE(S)	INSTALL NEW SURFACE MOUNT FIXTURE(S)	REPAIR & PAINT GYPSUM CEILING
	110 0		CEILING MOUNT		INSTALL NEW SURFACE MOUNT	

NUMBER	ROOM TYPE	TYPE	EXISTING CONTROLS	DEMOLITION SCOPE OF WORK	WORK	ADDITIONAL REQUIREMENTS
001	ENTRY	SURFACE MOUNT WALL MOUNT FIXTURE(S)	MANUAL WALL SWITCH(S)	REMOVE FIXTURE(S), REMOVE MANUAL WALL SWITCH(S)	INSTALL NEW SURFACE MOUNT FIXTURE(S)	INSTALL BLANK PLATE(S) OVER REMOVED MANUAL SWITCH(S), REPAIR & PAINT GYPSUM CEILING
001A	ENTRY	SURFACE MOUNT WALL MOUNT FIXTURE(S)	MANUAL WALL SWITCH(S)	REMOVE FIXTURE(S), REMOVE MANUAL WALL SWITCH(S)	INSTALL NEW SURFACE MOUNT FIXTURE(S)	INSTALL BLANK PLATE(S) OVER REMOVED MANUAL SWITCH(S), REPAIR & PAINT GYPSUM
002	AGORA	SURFACE MOUNT WALL MOUNT FIXTURE(S)	MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE ALL FIXTURE(S), CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING	INSTALL NEW FIXTURE(S), INSTALL NEW LIGHTING CONTROL(S)	CEILING  REMOVE ALL OBSOLETE CABLING & DEVICES BOXES, INSTALL BLANK PLATE(S) OVER REMOVE SWITCH(S), SUPPLY 120-277 POWER TO LIGHTIN
002A	CORRIDOR	SURFACE WALL MOUNT / SUSPENDED	MANUAL WALL SWITCH(S)	REMOVE FIXTURE(S), REMOVE MANUAL WALL SWITCH(S)	INSTALL NEW FIXTURE(S), INSTALL NEW LIGHTING CONTROL(S)	CONTROL, INSTALL BLANK PLATE(S) OVER REMOVED MANUAL SWITCH(S), REPAIR & PAINT GYPSUM CEILING
003	CAFETERIA	RECESSED TROFFER, SURFACE MOUNT WALL MOUNT, SUSPENDED, WALL SCONCE FIXTURE(S)	MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE ALL FIXTURE(S), CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING	INSTALL NEW RECESSED & SURFACE MOUNT / SUSPENDED FIXTURE(S), INSTALL NEW LIGHTING CONTROL(S)	SUPPLY 120-277 POWER TO LIGHTING CONTROI INSTALL BLANK PLATE(S) (PLASTIC/PAINTED TO MATCH) OVER REMOVED WALL SCONCES
004	MUSIC/DRAMA ROOM	RECESSED TROFFER(S)	CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)	REMOVE FIXTURE(S)	INSTALL NEW RECESSED FIXTURE(S)	REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
005	PRACTICE ROOM	RECESSED TROFFER(S)	CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)	REMOVE FIXTURE(S)	INSTALL NEW RECESSED FIXTURE(S)	REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
006	RADIO ROOM	RECESSED TROFFER(S)	CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)	REMOVE FIXTURE(S)	INSTALL NEW RECESSED FIXTURE(S)	REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
007	STAGE	SURFACE MOUNT UTILITY FIXTURE(S)	MANUAL WALL SWITCH(S)	REMOVE FIXTURE(S)	INSTALL NEW SURFACE MOUNT FIXTURE(S)	REPAIR & PAINT GYPSUM CEILING
800	STORAGE ROOM	WRAP AROUND FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE WRAP AROUND FIXTURE(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	INSTALL NEW SUSPENDED FIXTURE(S) WITH FIXTURE MOUNT OCCUPANCY SENSOR(S) INSTALL NEW SUSPENDED FIXTURE(S)	REMOVE ALL OBSOLETE CABLING & DEVICES BOXES.
009	STORAGE ROOM	WRAP AROUND FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE WRAP AROUND FIXTURE(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE CABLING	WITH FIXTURE MOUNT OCCUPANCY SENSOR(S)	REMOVE ALL OBSOLETE CABLING & DEVICES BOXES.
010	FAM' STUDIES ROOM	RECESSED TROFFER(S) / WRAP AROUND FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)	REMOVE TROFFER(S), WRAP AROUND FIXTURE(S), CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING	INSTALL NEW SURFACE/RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	REPAIR & PAINT GYPSUM CEILING, SUPPLY 120-2 POWER TO LIGHTING CONTROL
011	SPEC. ED. ROOM	RECESSED TROFFER(S)	CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)	REMOVE TROFFER(S), CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING	INSTALL NEW RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTRO REPLACE CEILING TILE(S), ADD CEILING TILE(S
012	STAFF ROOM	RECESSED TROFFER(S)	CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)	REMOVE TROFFER(S), CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING	INSTALL NEW RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTRO REPLACE CEILING TILE(S), ADD CEILING TILE(S
013	WASH/CHANGE ROOM	RECESSED TROFFER(S)	OCCUPANCY SENSOR(S) SWITCH MOUNT	REMOVE TROFFER(S), OCCUPANCY SENSOR(S) SWITCH MOUNT, OBSOLETE CABLING  REMOVE TROFFER(S), WRAP AROUND	INSTALL NEW RECESSED FIXTURE(S)	INSTALL BLANK PLATE(S) OVER REMOVED OCCUPANCY SENSOR(S) SWITCH MOUNT
014	SPECIAL NEEDS ROOM	RECESSED TROFFER(S) / WRAP AROUND FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)	REMOVE TROFFER(S), WRAP AROUND FIXTURE(S), CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING	INSTALL NEW SURFACE/RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	REPAIR & PAINT GYPSUM CEILING, SUPPLY 120-2 POWER TO LIGHTING CONTROL
015	STAIRWELL	WRAP AROUND FIXTURE(S)	MANUAL WALL SWITCH(S)	REMOVE WRAP AROUND FIXTURE(S), MANUAL WALL SWITCH(S)	INSTALL NEW SURFACE MOUNT FIXTURE(S)	INSTALL BLANK PLATE(S) OVER REMOVED MANUAL SWITCH(S)
016	ACCESS TO EXIT	WRAP AROUND FIXTURE(S)	MANUAL WALL SWITCH(S)	REMOVE WRAP AROUND FIXTURE(S), MANUAL WALL SWITCH(S)	INSTALL NEW SURFACE MOUNT FIXTURE(S)	INSTALL BLANK PLATE(S) OVER REMOVED MANUAL SWITCH(S)
017A	CORRIDOR	SURFACE MOUNT UTILITY FIXTURE(S)  SURFACE MOUNT UTILITY	CEILING MOUNT OCCUPANCY SENSOR(S) OCCUPANCY SENSOR(S)	REMOVE FIXTURE(S), OCCUPANCY SENSOR(S), OBSOLETE CABLING REMOVE UTILITY FIXTURE(S),	INSTALL NEW SURFACE MOUNT FIXTURE(S)  INSTALL NEW SURFACE MOUNT FIXTURE(S) WITH FIXTURE MOUNT	REPAIR & PAINT GYPSUM CEILING  REMOVE ALL OBSOLETE CABLING & DEVICES
017B	ELECTRICAL ROOM	FIXTURE(S)  SURFACE MOUNT UTILITY	SWITCH MOUNT  OCCUPANCY SENSOR(S)	OCCUPANCY SENSOR(S) SWITCH MOUNT, OBSOLETE CABLING REMOVE UTILITY FIXTURE(S),	FIXTURE(S) WITH FIXTURE MOUNT OCCUPANCY SENSOR(S)  INSTALL NEW SURFACE MOUNT	BOXES, INSTALL BLANK PLATE(S) OVER REMOV SWITCH(S)  REMOVE ALL OBSOLETE CABLING & DEVICES
017C	STORAGE ROOM	FIXTURE(S)  SURFACE MOUNT UTILITY	SWITCH MOUNT `	OCCUPANCY SENSOR(S) SWITCH MOUNT, OBSOLETE CABLING	FIXTURE(S) WITH FIXTURE MOUNT OCCUPANCY SENSOR(S) INSTALL NEW SURFACE MOUNT	BOXES, INSTALL BLANK PLATE(S) OVER REMOV SWITCH(S)
018	WOOD SHOP	FIXTURE(S)	MANUAL WALL SWITCH(S)	REMOVE FIXTURE(S)	FIXTURE(S)	REPAIR & PAINT GYPSUM CEILING, INSTALL NIG LIGHT AS PER LAYOUT
018A	MEZZANINE			NO WORK REMOVE TROFFER(S), MANUAL WALL	( INSTALL NEW RECESSED FIXTURE(S).	SUPPLY 120-277 POWER TO LIGHTING CONTRO
019A	ART CLASSROOM	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S)	SWITCH(S)  REMOVE TROFFER(S), MANUAL WALL	SWITCH MOUNT LIGHTING CONTROL  INSTALL NEW RECESSED FIXTURE(S),	ADD CEILING TILE(S) SUPPLY 120-277 POWER TO LIGHTING CONTRO
019B	TEMP' CLASSROOM	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S)	SWITCH(S)  REMOVE TROFFER(S), MANUAL WALL	SWITCH MOUNT LIGHTING CONTROL	ADD CEILING TILE(S) INSTALL BLANK PLATE(S) OVER REMOVED MANU
019C 020	MECHANICAL POOM	RECESSED TROFFER(S)  SURFACE MOUNT/SUSPENDED WRAP	MANUAL WALL SWITCH(S)  CEILING MOUNT OCCUPANCY SENSOR(S),	SWITCH(S)  REMOVE FIXTURE(S)	INSTALL NEW RECESSED FIXTURE(S)  INSTALL/RELOCATE NEW SURFACE/SUSPENDED MOUNT	SWITCH(S)  REPAIR & PAINT GYPSUM CEILING, COORDINAT
	ROOM ACADEMIC	AROUND FIXTURE(S)  RECESSED TROFFER(S) /	MANUAL WALL SWITCH(S)  CEILING MOUNT	REMOVE TROFFER(S), WRAP AROUND	FIXTURE(S)  INSTALL NEW SURFACE/RECESSED	FINAL LAYOUT BEFORE WORK BEGINS.
021	CLASSROOM	WRAP AROUND FIXTURE(S)	OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S) CEILING MOUNT	FIXTURE(S), CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING REMOVE TROFFER(S), CEILING MOUNT	FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	REPAIR & PAINT GYPSUM CEILING, SUPPLY 120-2 POWER TO LIGHTING CONTROL SUPPLY 120-277 POWER TO LIGHTING CONTRO
022	PROJECT ROOM	RECESSED TROFFER(S)	OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)  CEILING MOUNT	OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING REMOVE TROFFER(S), WRAP AROUND	INSTALL NEW RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL  INSTALL NEW SURFACE/RECESSED	REPLACE CEILING TILE(S)
023	ACADEMIC CLASSROOM	RECESSED TROFFER(S) / WRAP AROUND FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)	FIXTURE(S), CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING	INSTALL NEW SURFACE/RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	REPAIR & PAINT GYPSUM CEILING, SUPPLY 120-2 POWER TO LIGHTING CONTROL
024	ACADEMIC CLASSROOM	RECESSED TROFFER(S) / WRAP AROUND FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S)	REMOVE TROFFER(S), WRAP AROUND FIXTURE(S), CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING	INSTALL NEW SURFACE/RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	REPAIR & PAINT GYPSUM CEILING, SUPPLY 120-2 POWER TO LIGHTING CONTROL
025	CORRIDOR	SURFACE CEILING MOUNT / SUSPENDED / INDIRECT LIGHTING (IN BULKHEAD) FIXTURE(S)	MANUAL WALL SWITCH(S)	REMOVE FIXTURE(S), REMOVE MANUAL WALL SWITCH(S)	INSTALL NEW FIXTURE(S)	INSTALL BLANK PLATE(S) OVER REMOVED MANU SWITCH(S)
025A	WORK ROOM	RECESSED TROFFER(S)	MANUAL WALL SWITCH(S)	REMOVE TROFFER(S), MANUAL WALL SWITCH(S)	INSTALL NEW RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	SUPPLY 120-277 POWER TO LIGHTING CONTRO
026	JANITOR'S ROOM	SURFACE MOUNT WRAP AROUND(S)	MANUAL WALL SWITCH(S), CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE SURFACE MOUNT WRAP AROUND(S)	INSTALL NEW SURFACE MOUNT FIXTURE(S)	REPAIR & PAINT GYPSUM CEILING
027	ENTRY	WRAP AROUND FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE FIXTURE(S)	INSTALL NEW SURFACE MOUNT FIXTURE(S)	REPAIR & PAINT GYPSUM CEILING
028	WASH/CHANGE ROOM	WRAP AROUND FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE FIXTURE(S)	INSTALL NEW SURFACE MOUNT FIXTURE(S)	REPAIR & PAINT GYPSUM CEILING
029	WASH/CHANGE ROOM	WRAP AROUND FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE FIXTURE(S)	INSTALL NEW SURFACE MOUNT FIXTURE(S)	REPAIR & PAINT GYPSUM CEILING
UZJ	WASH/CHANGE	WRAP AROUND FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE FIXTURE(S)	INSTALL NEW SURFACE MOUNT FIXTURE(S)	REPAIR & PAINT GYPSUM CEILING
030	ROOM		OFILINIO MOLINIT	I	INSTALL NEW SURFACE MOUNT	REPAIR & PAINT GYPSUM CEILING
	ENTRY	WRAP AROUND FIXTURE(S)	CEILING MOUNT OCCUPANCY SENSOR(S)	REMOVE FIXTURE(S)	FIXTURE(S)	
030		WRAP AROUND FIXTURE(S) WRAP AROUND FIXTURE(S)		REMOVE FIXTURE(S)  REMOVE FIXTURE(S)	FIXTURE(S) INSTALL NEW SURFACE MOUNT FIXTURE(S)	REPAIR & PAINT GYPSUM CEILING
030	ENTRY WASH/CHANGE	( )	OCCUPANCY SENSOR(S) CEILING MOUNT	REMOVE FIXTURE(S)  REMOVE TROFFER(S), WRAP AROUND	INSTALL NEW SURFACE MOUNT	REPAIR & PAINT GYPSUM CEILING  REPAIR & PAINT GYPSUM CEILING, SUPPLY 120-2 POWER TO LIGHTING CONTROL, RELOCATE CEILING TILE(S), MODIFY CEILING TILE(S), REPLA CEILING TILE(S), INSTALL BLANK PLATE(S) OVER
030 031 032 033	ENTRY WASH/CHANGE ROOM	WRAP AROUND FIXTURE(S)  RECESSED TROFFER(S) /	OCCUPANCY SENSOR(S)  CEILING MOUNT OCCUPANCY SENSOR(S)  MANUAL WALL SWITCH(S) (CONFIRM ONSITE), CEILING MOUNT OCCUPANCY	REMOVE FIXTURE(S)  REMOVE TROFFER(S), WRAP AROUND FIXTURE(S), CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S),	INSTALL NEW SURFACE MOUNT FIXTURE(S)  INSTALL NEW SURFACE/RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING	REPAIR & PAINT GYPSUM CEILING  REPAIR & PAINT GYPSUM CEILING, SUPPLY 120-2 POWER TO LIGHTING CONTROL, RELOCATE CEILING TILE(S), MODIFY CEILING TILE(S), REPLA CEILING TILE(S), INSTALL BLANK PLATE(S) OVE REMOVED MANUAL SWITCH(S)  REPAIR & PAINT GYPSUM CEILING, SUPPLY 120-2 POWER TO LIGHTING CONTROL, RELOCATE CEILING TILE(S), MODIFY CEILING TILE(S), REPLA
030 031 032	ENTRY WASH/CHANGE ROOM STAFF ROOM	WRAP AROUND FIXTURE(S)  RECESSED TROFFER(S) / WRAP AROUND FIXTURE(S)	OCCUPANCY SENSOR(S)  CEILING MOUNT OCCUPANCY SENSOR(S)  MANUAL WALL SWITCH(S) (CONFIRM ONSITE), CEILING MOUNT OCCUPANCY SENSOR(S)  MANUAL WALL SWITCH(S) (CONFIRM ONSITE), CEILING MOUNT OCCUPANCY	REMOVE FIXTURE(S)  REMOVE TROFFER(S), WRAP AROUND FIXTURE(S), CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING  REMOVE TROFFER(S), CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL	INSTALL NEW SURFACE MOUNT FIXTURE(S)  INSTALL NEW SURFACE/RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL  INSTALL NEW SURFACE/RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING	REPAIR & PAINT GYPSUM CEILING  REPAIR & PAINT GYPSUM CEILING, SUPPLY 120-2 POWER TO LIGHTING CONTROL, RELOCATE CEILING TILE(S), MODIFY CEILING TILE(S), REPLA CEILING TILE(S), INSTALL BLANK PLATE(S) OVE REMOVED MANUAL SWITCH(S)  REPAIR & PAINT GYPSUM CEILING, SUPPLY 120-2 POWER TO LIGHTING CONTROL, RELOCATE CEILING TILE(S), MODIFY CEILING TILE(S), REPLA CEILING TILE(S), INSTALL BLANK PLATE(S) OVE
030 031 032 033	ENTRY  WASH/CHANGE ROOM  STAFF ROOM  STAFF WORK AREA  WASH/CHANGE	WRAP AROUND FIXTURE(S)  RECESSED TROFFER(S) / WRAP AROUND FIXTURE(S)  RECESSED TROFFER(S)	OCCUPANCY SENSOR(S)  CEILING MOUNT OCCUPANCY SENSOR(S)  MANUAL WALL SWITCH(S) (CONFIRM ONSITE), CEILING MOUNT OCCUPANCY SENSOR(S)  MANUAL WALL SWITCH(S) (CONFIRM ONSITE), CEILING MOUNT OCCUPANCY SENSOR(S)  CEILING MOUNT	REMOVE FIXTURE(S)  REMOVE TROFFER(S), WRAP AROUND FIXTURE(S), CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING  REMOVE TROFFER(S), CEILING MOUNT OCCUPANCY SENSOR(S), MANUAL WALL SWITCH(S), OBSOLETE CABLING  REMOVE TROFFER(S), CEILING MOUNT OCCUPANCY SENSOR(S), OBSOLETE	INSTALL NEW SURFACE MOUNT FIXTURE(S)  INSTALL NEW SURFACE/RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL  INSTALL NEW SURFACE/RECESSED FIXTURE(S), SWITCH MOUNT LIGHTING CONTROL	REPAIR & PAINT GYPSUM CEILING  REPAIR & PAINT GYPSUM CEILING, SUPPLY 120-2 POWER TO LIGHTING CONTROL, RELOCATE CEILING TILE(S), MODIFY CEILING TILE(S), REPLA CEILING TILE(S), INSTALL BLANK PLATE(S) OVE REMOVED MANUAL SWITCH(S)  REPAIR & PAINT GYPSUM CEILING, SUPPLY 120-2 POWER TO LIGHTING CONTROL, RELOCATE CEILING TILE(S), MODIFY CEILING TILE(S), REPLA CEILING TILE(S), INSTALL BLANK PLATE(S) OVE REMOVED MANUAL SWITCH(S)

ROOM NUMBER ROOM TYPE EXISTING FIXTURE TYPE EXISTING CONTROLS DEMOLITION SCOPE OF WORK WORK

ADDITIONAL REQUIREMENTS

139-12438-82

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RAN KJW KJW
DRAFTER DESIGNER PROJ MGR

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