

TOWN OF CARLETON PLACE
REQUEST FOR QUOTATION
RTU Replacement Arena and Carambeck CC

PM – 05 -2026

The Town Carleton Place is accepting Quotes for the supply and installation of:

MECHANICAL
75 NEELIN STREET, CARLETON PLACE, ONTARIO, K7C 4H1
AND
351 BRIDGE STREET, CARLETON PLACE, ONTARIO, K7C 3H9

The purpose of this request is to prompt a response from Proponents actively engaged in the provision of HVAC and Mechanical installations.

If you are in a position to submit a Quote, the completed Form of Proposal and all required attachments and schedules, must be returned via email to rrankin@carletonplace.ca prior to the closing date. You are encouraged to make a full copy of the submitted documents for your file.

During the period for Proposal preparation, any questions concerning the requirements or intent of the statements contained herein should be directed to **Ross Rankin, Property and Project Manager at 613-257- 6256 or via email rrankin@carletonplace.ca**

This Request for Quotation is advertised with a closing date of **2:00 pm, local time, Thursday June 10, 2026.**

We look forward to your response.

Sincerely,

Ross Rankin, CRFP
Property and Project Manager

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Proposals will be received via email to rrankin@carletonplace.ca by

2:00 O'CLOCK NOON, LOCAL TIME (EASTERN) THURSDAY June 4, 2026 for
supply and installation of:

**RTU EQUIPMENT
75 NEELIN STREET, CARLETON PLACE, ONTARIO, K7C 4H1
AND**

351 BRIDGE STREET, CARLETON PLACE, ONTARIO, K7C 3H9

A Site inspection is scheduled for **Wednesday May 13, 2026 at 2:00 pm** accompanied by Ross Rankin, (phone) 613-257-6256, (email) rrankin@carletonplace.ca or designate. Is mandatory prior to submitting a Proposal for supply and installation of this equipment.

The lowest or any Quote will not necessarily be accepted.

Ross Rankin,
Property and Project Manager

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I N D E X

- 1) INFORMATION TO PROPONENTS
- 2) FORM OF PROPOSAL
- 3) TERMS OF REFERENCE
- 4) SPECIFICATIONS & DRAWINGS

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SECTION 1

INFORMATION TO PROPOSERS

TOWN OF CARLETON PLACE
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1. Delivery and Opening of Proposals

Proposals indicating the Name of Proponent, the Proposal Name & File Number, and the Proposal Closing Date & Time shall be received by the Property and Project Manager. Ross Rankin, via email to rrankin@carletonplace.ca until 2:00 o'clock pm., local time, Wednesday June 10, 2026. Late Proposals will not be accepted and will be returned unopened.

The Town of Carleton Place reserves the right to reject any or all Proposals. The lowest or any Proposal will not necessarily be accepted.

2. Errors, Omissions, Clarifications

All questions and requests for clarification, including Terms of Reference and technical information, relating to the Request for Proposal process and/or identification of any errors or omissions in the Request for Proposal documents shall be directed to Ross Rankin, Property and Project Manager, via email rrankin@carletonplace.ca.

The Property and Project Manager may, at his sole discretion, issue a written addendum. The Property and Project Manager will not make oral interpretations or clarifications, as to the meaning of the Proposal documents.

3. Informal Proposals

Proposals shall conform to the terms and conditions set out herein. Proposals which are incomplete, conditional, or obscure, or which contain additions not called for, erasures, alterations, or irregularities of any kind, may be rejected as informal. The Form of Proposal must be legibly signed in ink by an authorized officer of the firm.

4. Ability and Experience of Proponents

No Proposal will be considered from any Proponent unless known to have a background of experience in a related enterprise of a character similar to that covered by this document.

Important - Demonstrable successful experience in the supply and installation of commercial HVAC equipment by the Proponent is required. Details should be provided as part of the references submitted with the Proposal.

5. Conditions and Requirements for Performance

The Proponent is required to submit their Proposal upon the express conditions that they shall satisfy themselves by personal examination of the proposed location for the lighting, or by such other means, as they may prefer, as to the actual conditions of the location and requirements for the lighting.

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Each Proponent by careful examination of the RFQ documents and any subsequent addenda shall satisfy themselves as to the nature of the flooring required as well as all conditions which might affect the execution of the contract and will make the necessary changes to their proposal.

6. Agreement

The Proponent agrees that the Town of Carleton Place's Letter of Acceptance issued to the successful Proponent, along with the Quotation Document submitted in response to, and in compliance with, the RFQ shall constitute the basis of the Agreement. If any other document is required, Proponents shall clearly identify this requirement in the Quotation as submitted. It is preferred that a sample document be included with the Quotation for review. In the absence of notification from the Proponent of the requirement for additional documents, it shall be deemed that the documentation outlined in the first sentence of this paragraph shall constitute the whole of the agreement.

7. Proposal Left Open

The Proponent shall keep their Quotation open for acceptance for ninety (90) days after the closing date.

8. Right to Accept or Reject Proposals

The Town of Carleton Place reserves the right to reject any or all Quotation or to accept any Quotation should it be deemed in the interests of the Town of Carleton Place to do so and if only one Quotation is received, the Town of Carleton Place reserves the right to reject it.

Notwithstanding the foregoing, in the event that a preferred Quotation does not exactly and entirely meet the Town of Carleton Place's requirements, the Town of Carleton Place reserves the right to enter into negotiations with the selected Proponent to arrive at a mutually satisfactory arrangement with respect to any modifications to the Quotation.

9. Schedule

A- Release of RFQ	May 6, 2026
B- Mandatory Site Visit	May 13, 2026
C- Written Questions Received	May 19, 2026
D- Response to Written Questions	May 22, 2026
E- Submission of Proposal	June 10, 2026
F- Proposal Review and Award	June 24, 2026
G- Delivery & Installation	September 15, 2026
H –Substantial Completion	October 15, 2026

The Town of Carleton Place reserves the right to alter the scheduling of items "C" to "H".

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10. Indemnity

The Proponent shall defend, indemnify and save harmless The Town of Carleton Place, its elected officials, officers, employees and agents from and against any and all claims of any nature, actions, causes of action, losses, expenses, fines, costs (including legal costs), interest or damages of every nature and kind whatsoever, including but not limited to bodily injury, sickness, disease or death or to damage to or destruction of tangible property including loss of revenue or incurred expense resulting from disruption of service, arising out of or allegedly attributable to the negligence, acts, errors, omissions, misfeasance, nonfeasance, fraud or willful misconduct of the Proponent, its directors, officers, employees, agents, contractors and subcontractors, or any of them, in connection with or in any way related to the delivery or performance of this Contract. This indemnity shall be in addition to and not in lieu of any insurance to be provided by the Proponent in accordance with this Contract and shall survive this Contract.

The Proponent agrees to defend, indemnify and save harmless The Town of Carleton Place from and against any and all claims of any nature, actions, causes of action, losses, expenses, fines, costs (including legal costs), interest or damages of every nature and kind whatsoever arising out of or related to the Supplier's status with WSIB. This indemnity shall be in addition to and not in lieu of any proof of WSIB status and compliance to be provided by the Supplier in accordance with this Contract and shall survive this Contract.

11. Insurance Policy & Certificate

Evidence of insurance covering all of the following areas, in a form satisfactory to the Town, shall be provided prior to and maintained during the Contract:

Commercial General Liability issued on an occurrence basis for an amount of not less than \$5,000,000. per occurrence / \$5,000,000. annual aggregate for any negligent acts or omissions by the Contractor relating to their obligations under the Contract. Such insurance shall include, but is not limited to bodily injury and property damage including loss of use; personal injury; contractual liability; premises, property & operations; non-owned automobile; broad form property damage; owners & Contractors protective; occurrence property damage; products & completed operations; employees as Additional Insured(s); contingent employers liability; tenants legal liability; cross liability and severability of interest clause.

Such insurance shall add the Corporation of the Town of Carleton Place as additional insured with respect to the operations of the Contractor. This insurance shall be non-contributing with and apply as primary and not as excess of any insurance available to the Town and contain a waiver of subrogation in favour of the Town. The Contractor shall indemnify and hold the Corporation of the Town of Carleton Place harmless from and against any liability, loss, claims, demands, costs and expenses, including reasonable legal fees, occasioned wholly or in part by any negligence or acts or omissions whether willful or otherwise by the Contractor, its agents, officers, employees or other persons for whom the Contractor is legally responsible.

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Environmental Impairment Liability with a limit of not less than \$1,000,000 per Incident /Annual Aggregate. Coverage shall include Third Party Bodily Injury and Property Damage including on-site and off-site clean-up. If coverage is written on a claim made basis, the policy shall be maintained for a period of 2 years following completion of the contract or a 2-year extended reporting period shall be executed.

Such insurance shall add the Corporation of the Town of Carleton as additional insured with respect to the operations of the Contractor. This insurance shall be non-contributing with and apply as primary and not as excess of any insurance available to the Town and contain a waiver of subrogation in favour of the Town. The Contractor shall indemnify and hold the Corporation of the Town of Carleton Place harmless from and against any liability, loss, claims, demands, costs and expenses, including reasonable legal fees, occasioned wholly or in part by any negligence or acts or omissions whether willful or otherwise by the Contractor, its agents, officers, employees or other persons for whom the Contractor is legally responsible.

Automobile Liability Insurance with respect to owned or leased vehicles used directly or indirectly in the performance of the services, covering liability for bodily injury, death and damage to property with a limit of not less than \$5,000,000 inclusive for each and every loss.

The Policies shown above shall not be cancelled or materially changed unless the Insurer notifies the Town in writing at least sixty (60) days prior to the effective date of the cancellation or change. The insurance must be with a recognized company registered within the Province of Ontario and acceptable to the Town.

It is further agreed that any deductible or the self-insured retention (SIR) is the sole responsibility of the Contractor. The deductible shall be subject to approval by the Town and cannot for any of the above referenced insurance exceed \$100,000. It is also the Contractor's responsibility to maintain physical damage coverage on its equipment, either through insurance or self-insurance and at no time will the Town be liable for such damage.

If the Contractor fails to provide or maintain insurance as required in the above insurance provisions, then the Town shall have the right, at its option and discretion and in addition to any rights the Town may have, to provide and maintain such insurance and give evidence thereof to the Contractor. The cost thereof shall be payable by the Contractor on demand. If the amount owing is not paid to the Town within 30 days, the Town shall be entitled to offset the damages so assessed against any monies that the Town may owe the

Contractor under this Contract. The Contractor shall not do or omit to be done anything whereby any policy of insurance required by the Town shall be rendered cancelable or the amount payable pursuant to its terms rendered non-payable.

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Prior to execution of the contract, the Contractor shall provide the Town with a certificate of insurance evidencing the required coverage. The Contractor shall also provide the Town with an updated certificate of insurance prior to any policy renewal terms.

12. Occupational Health and Safety

The successful Proponent shall ensure that all Services are provided in a manner that complies with the Occupational Health and Safety Act, R.S.O. 1990, c.O.1, as amended, and the regulations made thereunder.

WORKPLACE SAFETY AND INSURANCE BOARD

All of the Contractor's personnel must be covered by the insurance plan under the Workplace Safety and Insurance Act. Upon execution of the Contract, and prior to the beginning of every year thereafter for the duration of the Term of the Contract, and at any other time when requested by the Town, a Letter of Good Standing from the Workplace Safety and Insurance Board shall be provided to the Town indicating that all payments have been made by the Contractor to the Board.

Prior to final payment, a Certificate of Clearance must be issued indicating that all payments by the Contractor to the Board in conjunction with this Contract have been made and that the Town shall not be liable to the Board for future payments in connection with the Contractor's fulfillment of the Contract. Certificates of Clearance must be submitted within thirty (30) days of the conclusion of each year for the duration of the Term of the Contract or at any time upon request by the Town.

13. Subletting

The successful Proponent shall keep the work under their personal control, and shall not assign, transfer or sublet any portion without first obtaining the written consent of the Property and Project Manager, or his designate. The consent of the Property and Project Manager of any such assignment, transfer or subletting, shall not, however, relieve the successful Proponent of any responsibility for the proper commencement, execution and completion of the work according to the terms of the contract, and the successful Proponent shall, either in person or through an accredited agent, receive all notices, communications, orders, instructions or legal service as if the Proponent were performing the work with their own plant and employees.

14. Job Showing

Proponents will be required to attend a Job Showing at Town Hall located at 75 Neelin Street and 351 Bridge Street in the Town of Carleton Place on **May 13, 2026 at 2:00 pm**. Any costs associated with attendance are the responsibility of the Proponent (see Paragraph 15 below).

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15. Incurred Costs

The Town of Carleton Place will not be liable nor reimburse any Proponent for costs incurred in the preparation of Proposals, inspections, demonstrations, or any other services that may be required as part of the evaluation process. **Whenever possible, at the sole determination of the Town of Carleton Place, additional information and/or clarifications will be obtained by telephone or other electronic means.**

16. Alterations to Documents

No electronic reproduction or alteration of the original document will be permitted under any circumstance. The Proponent shall not change the wording of the Proposal after submission; and no words or comments shall be added to the general conditions or detailed specifications unless requested by the Property and Project Manager for the purpose of clarification.

17. Confidentiality & Post-Award Comment

No Proponent shall have the right to review or receive any information with respect to a Proposal, documentation, or information submitted by any other Proponent. The content of the Proposal, and all documentation, and information shall be held in confidence by the Town of Carleton Place, subject only to the provision of freedom of information and privacy legislation, including without limitation, the *Municipal Freedom of Information and Protection of Privacy Act*. Post-Award Comment by the Town of Carleton Place regarding this Request for Proposal will be limited to written notification to all Proponents of the successful Proponent's name and address **only**. In submitting a Proposal, Proponents acknowledge and agree to this provision.

18. Municipal Freedom of Information & Protection of Privacy Act

The Town of Carleton Place is governed by the provisions of the Municipal Freedom of Information and Protection of Privacy Act. The Act gives persons a right of access to information held by the Town. The right of access is subject to the exemptions contained in the Act.

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SECTION 2

FORM OF PROPOSAL

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FORM OF PROPOSAL

ELECTRICAL

Mr. Ross Rankin,
Property and Project Manager
175 Bridge Street
Carleton Place, ON K7C 2V8

I/We the undersigned, hereby submit the attached Quotation to satisfy the requirements laid out by the Town of Carleton Place.

I/We have reviewed and understand the Information to Proponents (Section 1) of the RFQ and agree to the terms and conditions contained therein in submitting this Quotation.

I/We have submitted all Pricing Schedules (**in Canadian Dollars**), Product Information, and other information requested with the Proposal (required to qualify).

I/We agree that this Quotation shall be irrevocable from the time and date that the Quotations are opened in accordance with the time period stated in Paragraph 1 of the Information to Proponents.

I/We agree that this Proposal is made without any connection, knowledge, comparison of figures or arrangements with any other person or persons submitting a Proposal for the same purpose and is in all respects fair and without collusion or fraud.

It is further understood and agreed that the lowest or any Proposal will not necessarily be accepted and that the Town of Carleton Place reserves the right in its absolute discretion to reject any or all Proposals, or accept the Proposal deemed most acceptable to the Town of Carleton Place. The Town of Carleton Place Public further reserves the right to negotiate further with the successful Proponent to finalize the terms and conditions of the Proposal.

I/We agree that the Town of Carleton Place's Public Purchase Order and Request for Proposal Document; as well as the Proposal submitted shall constitute the whole of the Agreement with the successful Proponent unless stated below:

This **"Form of Quotation"** must be completed, legibly signed in ink, and returned as part of the Proposal submission to qualify

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FORM OF Quotation (cont'd)

BID AMOUNT

Option 1	Bid Amount
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Option 2	Bid Amount
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Note: Quoted Prices are in Canadian Dollars and do not include Harmonized Sales Taxes.

It is understood that the pricing above is the total price for all items in the requested quantities, freight and installation per the specifications listed in Section 3.

In the case of a mathematical discrepancy in the bid pricing per category, the Unit Prices bid for each item shall prevail.

NAME OF COMPANY

(SEAL)

ADDRESS

CITY

POSTAL CODE

SIGNING OFFICER SIGNATURE

WITNESS' SIGNATURE (must be present if
Corporate Seal is not affixed to Form of Proposal)

SIGNING OFFICER (PRINT NAME)

TELEPHONE NUMBER

EMAIL of SIGNING OFFICER

DATE

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SECTION 3

TERMS OF REFERENCE

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TERMS OF REFERENCE

RTUs

1. Introduction

The Town of Carleton Place intends to receive bids for purchase and installation of a total of four RTUs which will include acquisition, freight and installation of such RTUs at 75 Neelin Street, Carleton Place, ON and 351 Bridge Street Carleton Place, ON.

The areas shown on drawing E2 and ME3 attached are the areas to be quoted.

Bidders are required to provide with their RFQ submission a projected Project Timeline and Installation schedule for the RTUs showing anticipated total number of days/hours **each component** of the Work shall require. The exact installation schedule will be approved by the Property and Project Manager upon the awarding of the contract and may include daytime as well as evening and weekend work (if required). No allowance will be given for premiums associated with evening and weekend work.

2. Familiarity with Requirements – Proponent’s Responsibility

Proponents should address any questions regarding technical information or clarification of the Terms of Reference to Ross Rankin, Property and Project Manager by email to rrankin@carletonplace.ca no later than 12:00 noon May 29, 2026.

3. General

The successful Proponent will make safe all electrical prior to demolition.

The flooring will **not** be removed and the new flooring will be installed on top.

The Town has established a budget for the acquisition, freight and installation of the RTUs as specified in the attached **Appendix A –Carleton Place Arena & Carambeck CC – Replace Rooftop Unit Specifications**. It is agreed and understood that the Town may elect to modify the quantities listed in each Category based on budget considerations, at its sole discretion.

Scope of work includes:

- As indicated in **ME-1, ME-2, ME-3, ME-4 and ME-5**.
- Ensuring the delivery of the said rtuS to the worksite no later than September 15, 2026.
- Ensuring installation occurs as scheduled.
- Unpacking all materials and providing quality control to ensure that all ordered items arrived in new condition.

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- Following up on missing or damaged items including arranging for the return of damaged goods and ensuring replacement items are delivered in time for the installation.
- Disposal of packing materials
- Installation of all works in accordance to the Town's specifications.
- Handling all warrantee issues on behalf of the Town for the duration of the Bidder's warrantee.
- In the case of a mathematical discrepancy in the bid pricing, the Unit Prices bid for each item shall prevail.

4. Direction of Installation, Manuals & Training

The successful Proponent shall comply with the Manufacturer's Instructions for preparation and installation of the acquired RTUs. The Proponent must ensure that the installation process used does not negate any applicable warranties. The Proponent shall provide the Town with a copy of the Manufacturer's Installation Instructions, Warranties and other documentation per item type acquired.

The installation schedule will need to be approved upon the awarding of the contract(s) by the Property and Project Manager or their designate. Installation may therefore occur every day of the week except statutory holidays and may include daytime as well as evening and weekend work (if required). No allowance will be given for premiums associated with evening and weekend work.

The Town of Carleton Place will be responsible for controlling access to the work area.

The successful Proponent will provide a competent Supervisor **onsite for the entire installation period** to direct and supervise the installation.

Supervision of the installation shall not be considered complete until the installation is completed, inspected, and approved by the Property and Project Manager, or his designate. Bidder must clearly indicate the length of warranty and whether or not it is a bidder warranty or a manufacturer's warranty, or both. The bidder must also provide documentation on the warranties for each quoted item type.

5. Pricing – to be submitted in Canadian Dollars

Proponents shall provide Pricing Schedules (HST extra) for supply, delivery and installation of all works

All other applicable pricing should be detailed. (HST extra)

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6. Installation Time Period

Bidders are required to provide with their RFQ submission a projected Project Timeline and Installation schedule for the RTUs showing anticipated total number of days the Work shall require. The exact installation schedule will be approved by the Project and Property Manager upon the awarding of the contract and may include daytime as well as evening and weekend work (if required). No allowance will be given for premiums associated with evening and weekend work.

7. Proposal Content

To aid the Town of Carleton Place in evaluation of the Quotations submitted, the following components are to be included in the Quotation documents. The order is to be maintained in the Quotation Submission. Pages are to be numbered.

Title Page - Showing RFQ name and file number, closing date and time, Proponent's name, address, telephone number and name of Contact Person (with email address).

Table of Contents - Include page numbers.

Letter of Introduction - One page, introducing the Proponent and signed by the person(s) authorized to sign on behalf of, and bind the Proponent to, statements made in response to this RFQ.

Form of Proposal - As included in Section 2 of the Request for Proposal – alterations not permitted. Signed and witnessed as required – **original signatures in legible ink must be present in the Proposal Document set marked "Original"**.

Proponent's Response –

Summary – Past successful experience by the Proponent in such installations should be listed.

Pricing – Provide detailed Pricing Schedules.

Methodology and Work Plan – Provide details of proposed schedule recognizing that desired completion is on or before October 15, 2026. Provide details of ideal Crew Size for installation including any required skills. Provide details of any requirements for site preparation to be performed by the Town prior to the start of installation..

References – Provide a list of references (minimum of three (3) preferred) for which the Proponent has supplied RTUs for municipal or commercial buildings in the past five (5) years. Full Contact details including Contact Name and Coordinates to be included.

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Proponents should also include any other information or documentation that they deem to be of assistance to the Town of Carleton Place during the Evaluation Process.

8. Evaluation

The Town of Carleton Place will evaluate all Quotationss received on the basis of defined evaluation criteria. These criteria will not be made available to prospective Proponents. The evaluation criteria will reflect the submission requirements above and include:

- Quality and clarity of the submission;
- The degree to which all objectives of the Town of Carleton Place are met;
- Nature and suitability of solution(s);
- Commitment to required timeline;
- Pricing;
- Successful Approved Installations.

The above list of criteria represents areas which are to be specifically addressed in the Proposal. The evaluation process will not be limited to these areas. Other criteria not specifically listed above will also receive consideration. The order in which the criteria are listed does not indicate the weighting of the evaluation.

As noted, the Town of Carleton Place reserves the right, in its sole and absolute discretion to select a preferred Proponent with which to negotiate a final contract, terminate the Quotation call and negotiate with one or more Proponents, or reject any and all Quotations. The Town of Carleton Place will not necessarily select the Proposal with the lowest proposed cost; or any other Quotation.

Proponents are reminded that there is no recourse to the Town of Carleton Place Public for its decision and the Town of Carleton Place will not provide any compensation to Proponents for costs incurred in the preparation of Quotations; or preparation for, or attendance at, any interview or demonstration requested as part of the evaluation process for Quotations received. The Town of Carleton Place will attempt to obtain any further required information or clarification by electronic means whenever possible.

The Town of Carleton Place will endeavour to complete the evaluation process in the shortest time possible. **The Town of Carleton Place reserves the right to contact Proponents to seek clarification of the Quotations, as submitted, to assist in the evaluation process.**

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APPENDIX A

100 – 2607 ME – 2026 – 04 – 30 Issued for Tender

ME-1, ME-2, ME-3, ME-4 and ME-5.

An exact copy of all working documents including, without limitations, the original of the present document or plan is kept on file by J.R.P. Engineering. Any modification carried out to this document or plan or to accompanying documents without written authorization by the engineer is prohibited.

Authorized modifications must be signed and sealed by an engineer and this engineer will be completely responsible for these modifications. J.R.P. Engineering is not and will not be responsible for the consequences of these modifications or for modifications carried out without its consent.

0	ISSUED FOR TENDER	APRIL 30, 2026
No.	DESCRIPTION	DATE

REVISIONS

client:
TOWN OF CARLETON PLACE
175 BRIDGE STREET
CARLETON PLACE, ON K7C 2V8

project:
CARLETON PLACE ARENA & CAMAMBECK COMMUNITY CENTRE – REPLACE ROOFTOP UNITS
75 NEELIN STREET & 351 BRIDGE STREET
CARLETON PLACE, ON

drawing title:
MECHANICAL LEGEND, GENERAL NOTES, EQUIPMENT SCHEDULE, TYPICAL DETAIL, & DRAWING LIST

scale:	AS NOTED	drawn by:	P.P. / M.G.
designed by:	P.P. / M.G.	reviewed by:	JRP ENG.
approved by:	JRP ENG.	date:	APRIL 2026

project no.:	100-2607	drawing no.:	ME-1 of 5
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GENERAL NOTES:

- ALL MECHANICAL/ELECTRICAL EQUIPMENT SHOWN IN THIN SOLID LINES IS EXISTING TO REMAIN.
- ALL MECHANICAL/ELECTRICAL EQUIPMENT SHOWN IN THICK SOLID LINES IS NEW TO BE PROVIDED UNDER THIS CONTRACT. FOR ELECTRICAL ITEMS, TO BE PROVIDED TOGETHER WITH ALL ASSOCIATED CONDUITS AND WIRING.
- ALL MECHANICAL/ELECTRICAL EQUIPMENT SHOWN IN DASHED LINES WITH LETTER 'R' IS EXISTING TO BE RELOCATED AS SHOWN. FOR ELECTRICAL ITEMS, EXTEND ALL CONDUITS AND WIRING TO SUIT.
- ALL MECHANICAL/ELECTRICAL EQUIPMENT SHOWN IN DASHED LINES WITH LETTER 'X' IS EXISTING TO BE REMOVED BACK TO SOURCE. FOR ELECTRICAL ITEMS, THEY ARE TO BE REMOVED C/W ALL CONDUIT, WIRING AND ASSOCIATED HARDWARE BACK TO NEAREST J/B.
- THIS DRAWING WAS BASED ON PARTIAL SITE REVIEW. ALL EQUIPMENT, DUCTS, PIPING AND ALL ACCESSORIES' SIZES, LOCATIONS AND DETAILS OF INSTALLATIONS TO BE CONFIRMED BY MECHANICAL CONTRACTOR ON SITE.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ROOF, WALL AND BUILDING ENVELOPE CUTTING, PATCHING AND REPAIRS, AS REQUIRED FOR EXECUTION OF WORK INCLUDED IN THIS CONTRACT.
- PROVIDE ALL NEW EQUIPMENT, CONTROLS, DUCTWORK, PIPING, VALVES AND ACCESSORIES AS SHOWN AND NOTED ON DETAILS AND AS REQUIRED FOR COMPLETE FUNCTIONING SYSTEMS.
- PROVIDE ADDITIONAL DUCTWORK, PIPING, FITTINGS AND OFFSETS WHERE REQUIRED TO SUIT EXISTING CONDITIONS AND TO AVOID COLLISIONS WITH EXISTING SYSTEMS AND BUILDING STRUCTURE.
- NOT ALL MECHANICAL/ELECTRICAL ELEMENTS SHOWN, AFFECTED AREAS ONLY.
- SEISMIC RESTRAINT SYSTEM (SRS) – PROVIDE DESIGN, SUPPLY AND INSTALLATION OF COMPLETE SRS FOR ALL SYSTEMS, EQUIPMENT SPECIFIED FOR INSTALLATION ON THIS PROJECT AS PER ONTARIO BUILDING CODE LATEST EDITION.
- HATCHED AREA INDICATED ON FLOOR PLANS NOT IN CONTRACT.
- FIRE ALARM SYSTEM DEVICES SHALL BE INSTALLED AS PER CAN/ULC S524 AND SHALL BE VERIFIED AS PER CAN/ULC S537.
- FOR ANY REQUIRED SHUT DOWN, CONTRACTOR TO COORDINATE WITH SITE MANAGER AND OBTAIN APPROVAL BEFORE SHUT DOWN CAN BE PERFORMED.
- FIRE ALARM SYSTEM TO REMAIN OPERATIONAL FOR DURATION OF THIS PROJECT, PROVIDE DUST PROTECTION. PROVIDE FIRE WATCH IF REQUIRED.
- PROVIDE NEW BREAKERS AS REQUIRED IN EXISTING ELECTRICAL PANELS TO ACCOMMODATE NEW CONNECTIONS, ALSO PROVIDE BLANK PLATES WHERE CIRCUIT BREAKERS ARE NOT INSTALLED, PROVIDE NEW TYPED PANEL LEGEND TYPICAL FOR ALL PANELS TOUCHED BY THIS CONTRACT. TURN OVER TO THE OWNER ALL BREAKERS REMOVED UNDER THIS CONTRACT.
- ALL EXISTING AND NEW CONDUITS AND WIRING PASSING THRU FLOOR AND FIRE RATED WALLS TO BE FIRESTOPPED USING FIRE RETARDANT MASTIC SEALANT, CAN/ULC-S115 RATED PRODUCT.
- ALL WIRING TO BE R/RW90, MINIMUM SIZE #12AWG COPPER, IN EMT CONDUIT UNLESS OTHERWISE NOTED.
- ALL ELECTRICAL CIRCUITS ARE SHOWN FOR GROUPING PURPOSES ONLY, CONTRACTOR TO USE AVAILABLE CIRCUITS IN EXISTING ELECTRICAL PANELS. REUSE EXISTING AND/OR PROVIDE NEW ELECTRICAL BREAKERS AS REQUIRED.
- REGROUP CIRCUITS AS REQUIRED.
- COORDINATE ALL MECHANICAL/ELECTRICAL WORK WITH ARCHITECTURAL CONTRACTORS.

ELECTRICAL LEGEND

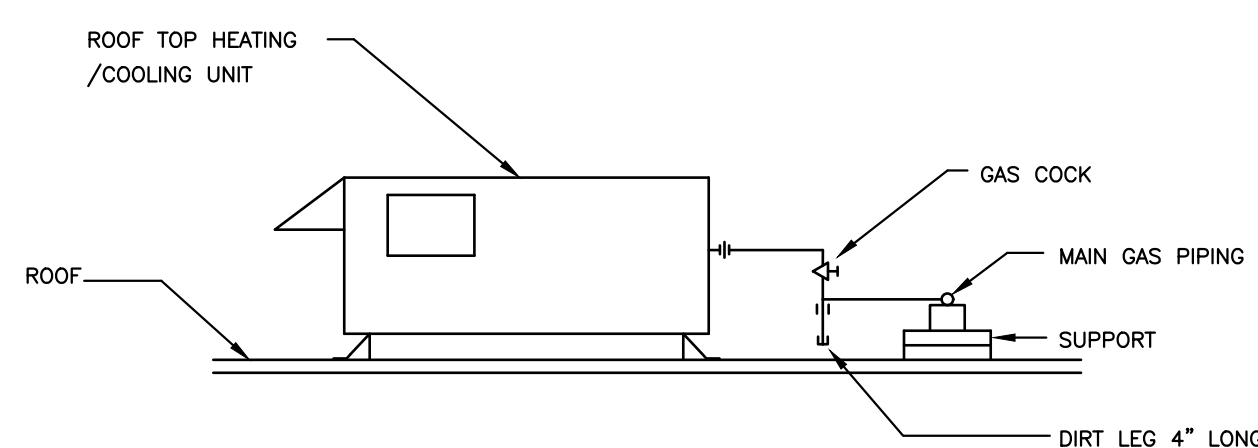
ITEM	DESCRIPTION
	T-BAR CEILING LIGHT FIXTURE
	EMERGENCY NIGHT LIGHTING FIXTURE
	2X2 T-BAR CEILING LIGHT FIXTURE
	DOWNLIGHT
	CEILING/WALL MOUNTED EXIT SIGN
	SWITCH
	WALL/CEILING MOUNTED OCCUPANCY SENSOR
	ALARM PANEL
	ELECTRICAL PANEL
	CARD READER
	JUNCTION BOX
	DUPLEX RECEPTACLE WALL MOUNTED
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
	SPECIALTY RECEPTACLE
	QUAD RECEPTACLE
	DEDICATED 5-20R DUPLEX RECEPTACLE
	DIRECT CONNECTION
	FLOOR/CEILING MOUNTED RECEPTACLE
	TRANSFORMER
	NON-FUSED/FUSED DISCONNECT SWITCH
	1Ø/3Ø MOTOR DIRECT CONNECTION

NOT ALL SYMBOLS SHOWN IN LEGEND ARE NECESSARILY USED IN THE DRAWING SET.

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	CLEAN OUT
	PLUMBING VENT THROUGH ROOF
	FLOOR DRAIN
	FUNNEL DRAIN
	HUB DRAIN
	D.C.W. PIPING
	D.H.W. PIPING
	SANITARY UNDERGROUND
	SANITARY UNDER FLOOR
	SANITARY VENT PIPING
	GATE VALVE
	BALL VALVE
	SOLENOID VALVE
	GAS VALVE
	GAS SHUT OFF VALVE
	ELECTRIC CONVECTOR
	DRAWING NOTE

NOT ALL SYMBOLS SHOWN IN LEGEND ARE NECESSARILY USED IN THE DRAWING SET.



1 TYPICAL DETAIL – GAS CONNECTION TO ROOFTOP UNIT
ME-1 NTS

DRAWING LIST

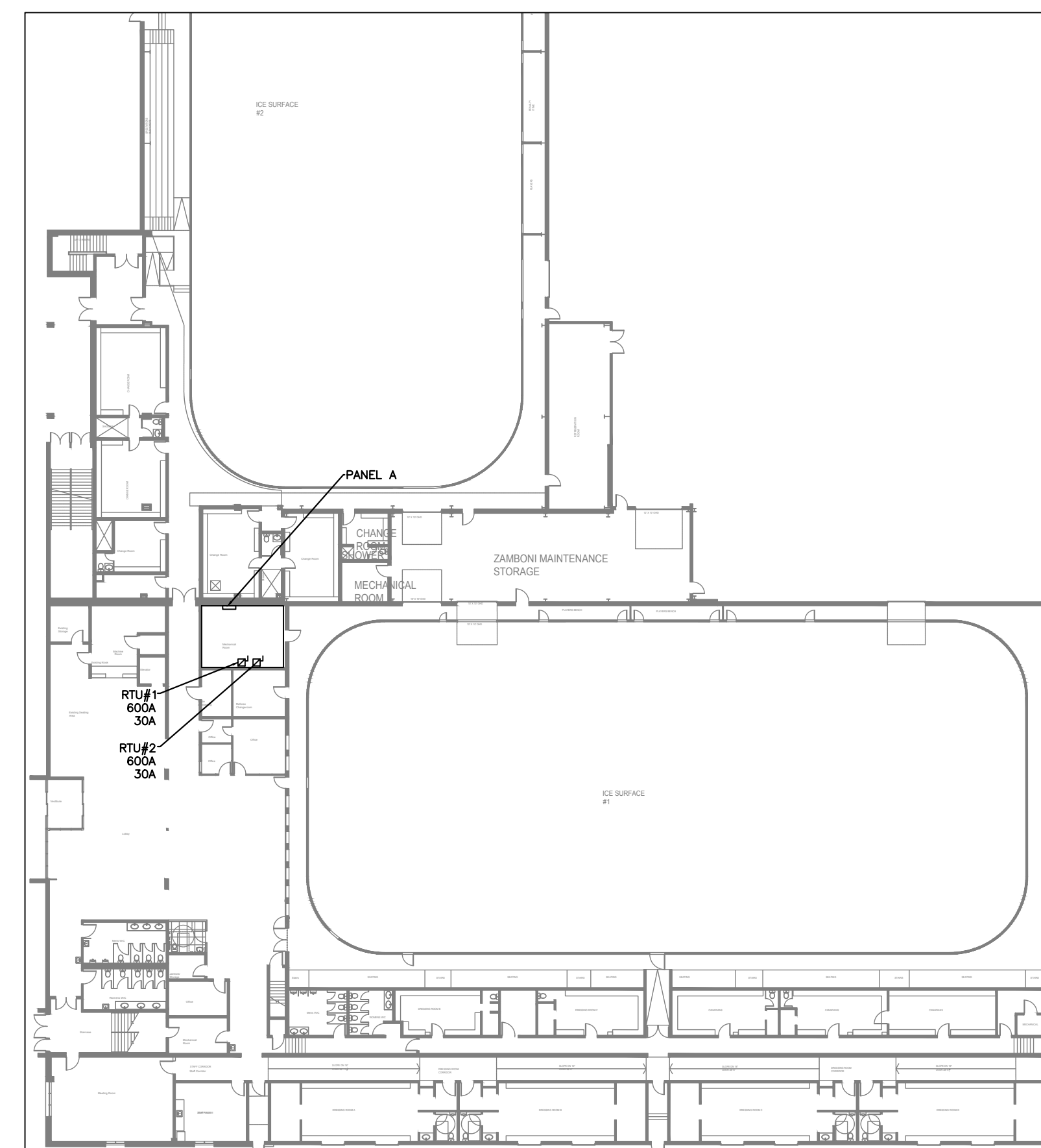
DRAWING NUMBER	DESCRIPTION
ME-1	MECHANICAL/ELECTRICAL LEGEND, GENERAL NOTES, EQUIPMENT SCHEDULE, TYPICAL DETAIL, & DRAWING LIST
ME-2	CARLETON PLACE ARENA – ROOFTOP REPLACEMENT, OPTION #1
ME-3	CARLETON PLACE ARENA – ROOFTOP REPLACEMENT, OPTION #2
ME-4	CARAMBECK COMMUNITY CENTRE – ROOFTOP REPLACEMENT, OPTION #1
ME-5	CARAMBECK COMMUNITY CENTRE – ROOFTOP REPLACEMENT, OPTION #2
ME-6	MECHANICAL SPECIFICATIONS
ME-7	ELECTRICAL SPECIFICATIONS

ROOFTOP UNIT SCHEDULE

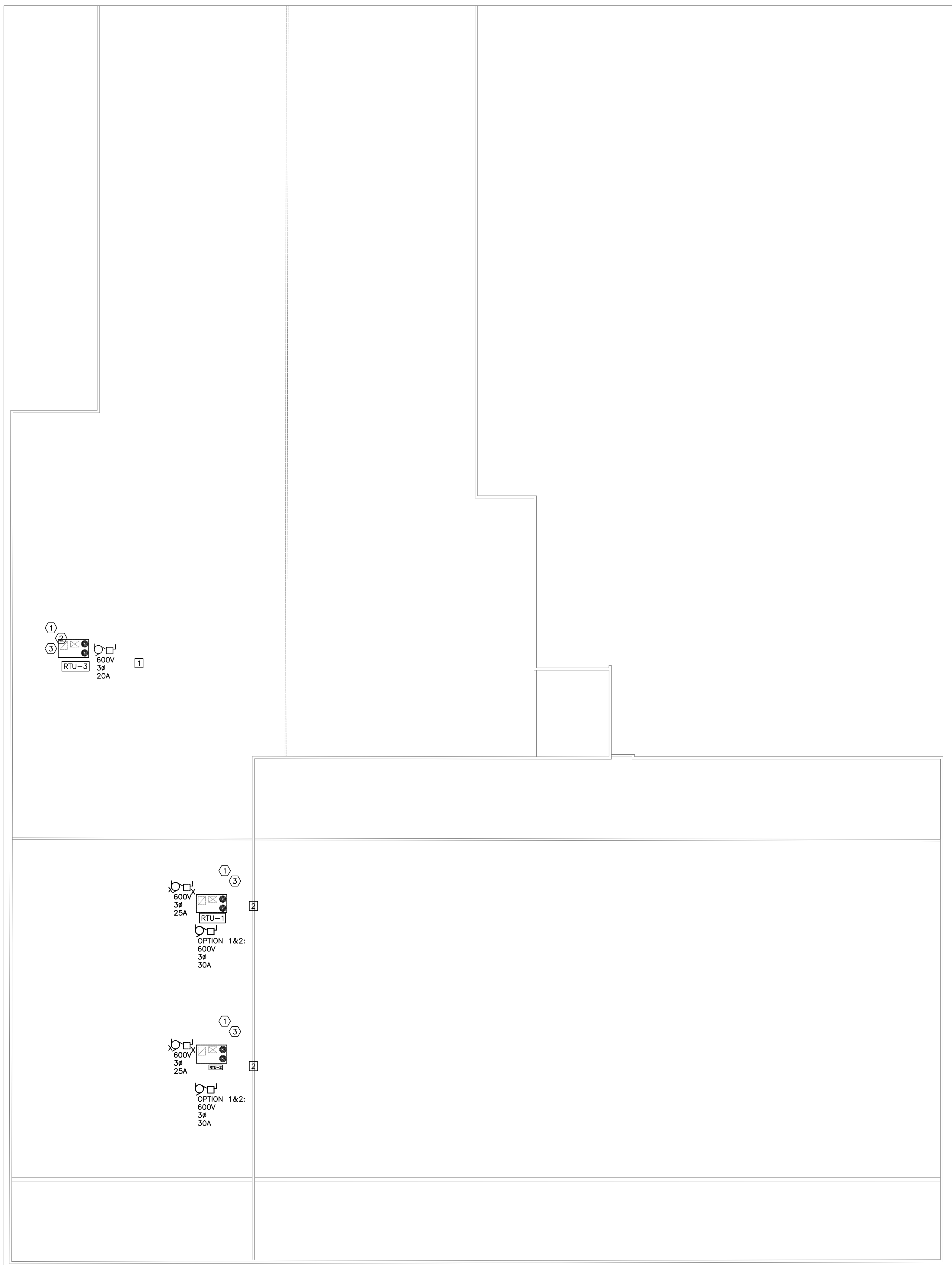
No.	MODEL	NOMINAL COOLING CAPACITY [TON]	IEER / EER	AHRI RATED AIR FLOW [CFM]	INPUT [BTU/HR]	OUTPUT [BTU/HR]	ELECTICAL VOLT/PHASE	MCA [A]	MOP [A]	REMARKS
RTU-1, RTU-2 (OPTION #1)	LENNOX LGX120S5M-J 12.5T GE	12.5	14/10.8	5,000	156,000 (LOW) / 240,000 (HIGH)	110,300 (LOW) / 151,100 (HIGH)	575V / 3Ø	24	30	REFRIGERANT: 454B. PROVIDE COMPLETE WITH FOLLOWING OPTIONS: RETURN AIR ADAPTOR PLATE (FIELD-INSTALLED), PVC DRAIN TRAP (FIELD-INSTALLED), BACNET MODULE (FIELD-INSTALLED), 2" MERV8 FILTER (FIELD-INSTALLED), HIGH-PERFORMANCE ECONOMIZER, SINGLE SENSIBLE ECONOMIZER CONTROL, SUPPLY FAN: MULTI-STAGE AIR VOLUME, BELT-DRIVEN, 80A NON-FUSED DISCONNECT, SUPPLY FAN MOTOR: 5HP, BAROMETRIC RELIEF DAMPER. WEIGHT: 1,171 LB.
RTU-1, RTU-2 (OPTION #2)	LENNOX LDT152H5E-J 12.5T	12.5	15/10.9	5,000	156,000 (LOW) / 240,000 (HIGH) – NG	124,800 (LOW) / 194,000 (HIGH) – NG 73,000 – NG (LOW) / 128,000 (HIGH) – HP	575V / 3Ø	24	30	REFRIGERANT: 454B. PROVIDE COMPLETE WITH FOLLOWING OPTIONS: HIGH-PERFORMANCE ECONOMIZER, SINGLE SENSIBLE HIGH-PERFORMANCE ECONOMIZER CONTROL, SUPPLY FAN: MULTI-SPEED ECM, DIRECT DRIVE, FAN MOTOR: 3.75 HP DIRECTPLUS WITH MSAV, 80A NON-FUSED DISCONNECT SWITCH, BACNET IP AND MS/TP, BAROMETRIC RELIEF DAMPER, RETURN AIR ADAPTOR PLATE, 2" MERV8 FILTER, AND PVC DRAIN TRAP (FIELD-INSTALLED). WEIGHT: 1,342 LB.
RTU-3 (OPTION #1)	LENNOX LGX092S5M-J 7.5T GE	7.5	14.6/11.1	3,000	117,000 (LOW) / 180,000 (HIGH) – NG	93,600 (LOW) / 144,000 (HIGH)	575V / 3Ø	16	20	REFRIGERANT: 454B. PROVIDE COMPLETE WITH FOLLOWING OPTIONS: CURB ADAPTOR (C1ACURB30B, FIELD-INSTALLED), PVC DRAIN TRAP (FIELD-INSTALLED), BACNET MODULE (FIELD-INSTALLED), 2" MERV8 FILTER (FIELD-INSTALLED), HIGH-PERFORMANCE ECONOMIZER, SINGLE SENSIBLE ECONOMIZER CONTROL, SUPPLY FAN: MULTI-STAGE AIR VOLUME, BELT-DRIVEN, 80A NON-FUSED DISCONNECT, SUPPLY FAN MOTOR: 2HP, BAROMETRIC RELIEF DAMPER. WEIGHT: 1,021 LB.
RTU-3 (OPTION #2)	LENNOX LDT152H5E-J 12.5T	7.5	16.8/12.1	3,000	117,000 (LOW) / 180,000 (HIGH) – NG	93,600 (LOW) / 146,000 (HIGH) – NG 46,000 (LOW) / 86,000 (HIGH) – HP	575V / 3Ø	18	20	REFRIGERANT: 454B. PROVIDE COMPLETE WITH FOLLOWING OPTIONS: CURB ADAPTOR (C1ACURB30B, FIELD-INSTALLED), HIGH-PERFORMANCE ECONOMIZER, SINGLE SENSIBLE HIGH-PERFORMANCE ECONOMIZER CONTROL, SUPPLY FAN: MULTI-SPEED ECM, DIRECT DRIVE, FAN MOTOR: 3.75 HP DIRECTPLUS WITH MSAV, 80A NON-FUSED DISCONNECT SWITCH, BACNET IP AND MS/TP, BAROMETRIC RELIEF DAMPER, RETURN AIR ADAPTOR PLATE, 2" MERV8 FILTER, AND PVC DRAIN TRAP (FIELD-INSTALLED). WEIGHT: 1,216 LB.
RTU-4 (OPTION #1)	LENNOX LGX240S5M-Y 20T GE	20	14/10.8	8,000	312,000 (LOW) / 480,000 (HIGH) – NG	252,700 (LOW) / 384,000 (HIGH)	208V / 3Ø	102	125	REFRIGERANT: 454B. PROVIDE COMPLETE WITH FOLLOWING OPTIONS: 24" DOWNFLOW-HYBRID CURB (C1ACURB30B, FIELD-INSTALLED), PVC DRAIN TRAP (FIELD-INSTALLED), BACNET MODULE (FIELD-INSTALLED), 2" MERV4 FILTER (FIELD-INSTALLED), HIGH-PERFORMANCE ECONOMIZER, SINGLE SENSIBLE ECONOMIZER CONTROL, SUPPLY FAN: MULTI-STAGE AIR VOLUME, BELT-DRIVEN, 150A NON-FUSED DISCONNECT, SUPPLY FAN MOTOR: 5HP, BAROMETRIC RELIEF DAMPER. WEIGHT: 2,646 LB.
RTU-4 (OPTION #2)	LENNOX LDT240H5M-Y 20T	20	15.3/10.9	8,000	156,000 (LOW) / 480,000 (HIGH) – NG	126,000 (LOW) / 389,000 (HIGH) – NG 128,000 (LOW) / 224,000 (HIGH) – HP	208V / 3Ø	94	110	REFRIGERANT: 454B. PROVIDE COMPLETE WITH FOLLOWING OPTIONS: 24" DOWNFLOW-HYBRID CURB (C1ACURB30B, FIELD-INSTALLED), HIGH-PERFORMANCE ECONOMIZER, SINGLE SENSIBLE HIGH-PERFORMANCE ECONOMIZER CONTROL, SUPPLY FAN: MULTI-SPEED ECM, DIRECT DRIVE, FAN MOTOR: 5 HP DIRECTPLUS WITH MSAV, 150A NON-FUSED DISCONNECT SWITCH, BACNET IP AND MS/TP, BAROMETRIC RELIEF DAMPER, RETURN AIR ADAPTOR PLATE, 2" MERV8 FILTER, AND PVC DRAIN TRAP (FIELD-INSTALLED). WEIGHT: 2,943 LB.

An exact copy of all working documents including, without limitations, the original of the present document or plan is kept on file by J.R.P. Engineering. Any modification carried out to this document or plan or to accompanying documents without written authorization by the engineer is prohibited.

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2 CARLETON PLACE ARENA – GROUND FLOOR KEYPLAN
 ME-2 1/32" = 1'-0"



1 CARLETON PLACE ARENA – PARTIAL ROOF PLAN – ROOFTOP UNIT REPLACEMENT
 ME-2 1/8" = 1'-0"

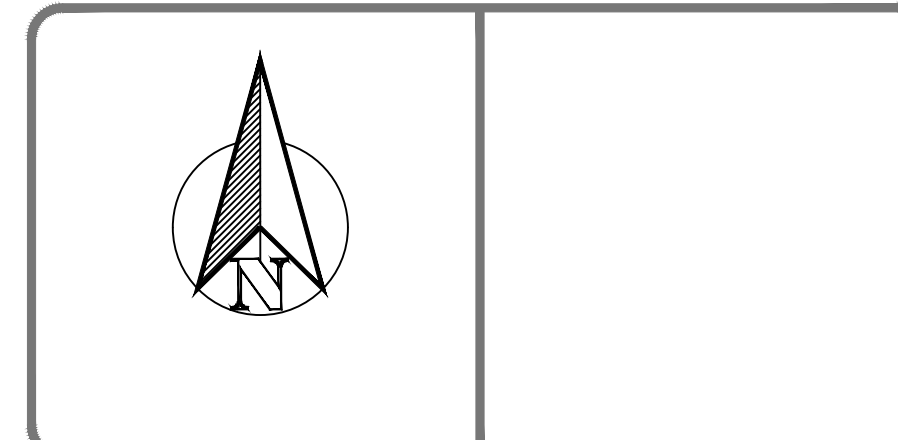
MECHANICAL DRAWING NOTES:

- ① TYPICAL: DISCONNECT AND REMOVE EXISTING ROOFTOP UNIT (RTU-1, RTU-2, AND RTU-3). MECHANICAL CONTRACTOR TO DISCONNECT NATURAL GAS PIPING CONNECTION (NOT SHOWN), EXISTING NATURAL GAS SUPPLY PIPEWORK TO REMAIN FOR RE-USE.
- ② PROVIDE AND INSTALL TRANSITION CURB, REFER TO EQUIPMENT SCHEDULE ON DRAWING SHEET M-1 FOR DETAILS. CONTRACTOR TO CARRY FOR SEISMIC RESTRAINT AND SIGN-OFF LETTER FROM SEISMIC ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
- ③ TYPICAL: PROVIDE AND INSTALL ROOFTOP UNIT (RTU-1, RTU-2, AND RTU-3). REFER TO EQUIPMENT SCHEDULE ON DRAWING SHEET M-1 (OPTION #1 / OPTION#2). MECHANICAL CONTRACTOR TO MODIFY/EXTEND EXISTING NATURAL GAS SUPPLY PIPEWORK CONNECTION (NOT SHOWN) AS REQUIRED TO SUIT NEW ROOFTOP UNIT APPLIANCE. ALL WORK AND MATERIALS TO LATEST EDITION OF CSA B149.1 BY CERTIFIED CONTRACTOR. REFER TO TYPICAL DETAIL ON DRAWING SHEET M-1.
- ③ GENERAL NOTE (ROOFING): ALL ROOFING WORK AND MATERIALS BY BASE BUILDING ROOFING CONTRACTOR (SNETSINGER CONSULTANTS LTD. – CONTACT: DAVID SNETSINGER, 613-860-1115, SNETCON@MYHIGHSPEED.CA)

ELECTRICAL DRAWING NOTES:

- ① RTU 3. RE&RE EXISTING ELECTRICAL CONNECTION TO EXISTING RTU. C/W ALL CONDUIT AND WIRING.
- ② RTU 1&2: DISCONNECT AND REMOVE EXISTING ELECTRICAL CONNECTIONS TO RTU 1&2. C/W ALL CONDUIT AND WIRING. REPLACE EXISTING 30A DISCONNECT IN GROUND FLOOR MAIN ELECTRICAL ROOM WITH NEW 30A/F30 DISCONNECT. C/W ALL CONDUIT AND WIRING. NEW WIRE SIZE: 4#10AWG+GND – 21MMC (OR TECH)

No.	DESCRIPTION	DATE
0	ISSUED FOR TENDER	APRIL 30, 2026



client:
TOWN OF CARLETON PLACE
 175 BRIDGE STREET
 CARLETON PLACE, ON K7C 2V8

project:
CARLETON PLACE ARENA & CAMAMBECK COMMUNITY CENTRE – REPLACE ROOFTOP UNITS
 75 NEELIN STREET & 351 BRIDGE STREET
 CARLETON PLACE, ON

drawing title:
MECHANICAL & ELECTRICAL
CARLETON PLACE ARENA – ROOFTOP UNIT REPLACEMENT

scale:	AS NOTED	drawn by:	P.P. / M.G.
designed by:	P.P. / M.G.	reviewed by:	JRP ENG.
approved by:	JRP ENG.	date:	APRIL 2026

project no.: 100-2607
 drawing no.: ME-2 of 5

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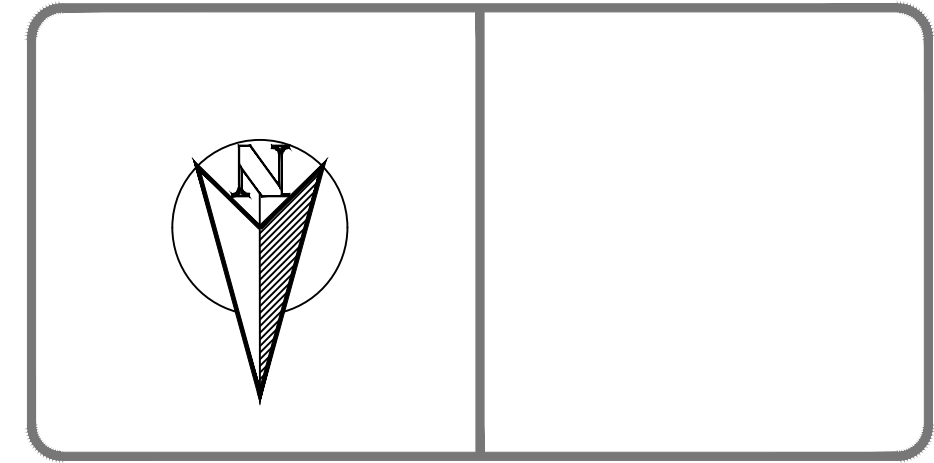
ELECTRICAL DRAWING NOTES:

- 1 OPTION 1:
RE&RE EXISTING ELECTRICAL CONNECTION TO RTU#4.
EXISTING CONDUIT AND WIRING TO BE-USED.
CONTRACTOR TO REPLACE EXISTING SQUARE D
POWERPACT QBA32150 WITH NEW 208V 125A 3P
BREAKER. C/W ALL CONDUIT, WIRING AND ASSOCIATED
HARDWARE.
- 2 OPTION 2:
RE&RE EXISTING ELECTRICAL CONNECTION TO RTU#4.
EXISTING CONDUIT AND WIRING TO BE-USED.
CONTRACTOR TO PROVIDE NEW 125A/F110 DISCONNECT
SWITCH IN ELECTRICAL ROOM OR AT THE UNIT IN A
NEMA 4R ENCLOSURE. C/W ALL CONDUIT, WIRING AND
ASSOCIATED HARDWARE. EXISTING 150A BREAKER IN
PANEL TO REMAIN.

MECHANICAL DRAWING NOTES:

- 1 TYPICAL: DISCONNECT AND REMOVE EXISTING ROOFTOP UNIT (RTU-4). MECHANICAL CONTRACTOR TO DISCONNECT NATURAL GAS PIPING CONNECTION (NOT SHOWN), EXISTING NATURAL GAS SUPPLY PIPEWORK TO REMAIN FOR RE-USE.
- 2 PROVIDE AND INSTALL NEW ROOF CURB, REFER TO EQUIPMENT SCHEDULE ON DRAWING SHEET M-1 FOR DETAILS. CONTRACTOR TO CARRY FOR SEISMIC RESTRAINT AND SIGN-OFF LETTER FROM SEISMIC ENGINEER LICENSED IN THE PROVINCE OF ONTARIO. PRIOR TO INSTALLATION OF NEW ROOF CURB, CONTRACTOR TO CARRY FOR STRUCTURAL ENGINEER TO REVIEW EXISTING ROOF STRUCTURE TO ENSURE IT IS SUFFICIENT TO SUPPORT REPLACEMENT EQUIPMENT.
- 3 TYPICAL: PROVIDE AND INSTALL ROOFTOP UNIT (RTU-4), REFER TO EQUIPMENT SCHEDULE ON DRAWING SHEET M-1 (OPTION #1 / OPTION#2). MECHANICAL CONTRACTOR TO MODIFY/EXTEND EXISTING NATURAL GAS SUPPLY PIPEWORK CONNECTION (NOT SHOWN) AS REQUIRED TO SUIT NEW ROOFTOP UNIT APPLIANCE. ALL WORK AND MATERIALS TO LATEST EDITION OF CSA B149.1 BY CERTIFIED CONTRACTOR, REFER TO TYPICAL DETAIL ON DRAWING SHEET M-1.
- 4 GENERAL NOTE (ROOFING): ALL ROOFING WORK AND MATERIALS BY BASE BUILDING ROOFING CONTRACTOR (SNETSINGER CONSULTANTS LTD. - CONTACT: DAVID SNETSINGER, 613-860-1115, SNETCON@HIGHSPPEED.CA)

No.	DESCRIPTION	DATE
0	ISSUED FOR TENDER	APRIL 30, 2026



client:
TOWN OF CARLETON PLACE
175 BRIDGE STREET
CARLETON PLACE, ON K7C 2V8

project:
CARLETON PLACE ARENA & CAMAMBECK COMMUNITY CENTRE – REPLACE ROOFTOP UNITS
75 NEELIN STREET & 351 BRIDGE STREET
CARLETON PLACE, ON

drawing title:
MECHANICAL & ELECTRICAL
CARAMBECK COMMUNITY CENTRE – ROOFTOP UNIT REPLACEMENT

scale:	AS NOTED	drawn by:	P.P. / M.G.
designed by:	P.P. / M.G.	reviewed by:	JRP ENG.
approved by:	JRP ENG.	date:	APRIL 2026

project no.: 100-2607
drawing no.: ME-3 of 5

GENERAL INSTRUCTIONS (ELECTRICAL)

CONDITIONS OF CONTRACT

- THE OWNERS INSTRUCTIONS TO BIDDERS AND THE GENERAL CONDITIONS OF THE DESIGNERS SPECIFICATIONS ARE AN INTEGRAL PART OF THIS CONTRACT AND SHALL BE READ IN CONJUNCTION HEREWITH. THESE INSTRUCTIONS TO BIDDERS AND GENERAL CONDITIONS SHALL BE FULLY BINDING ON THE GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS TO THE FULL SATISFACTION OF THE DESIGNER, ENGINEER OR OWNER.
- THE RESPONSIBILITY AND SCOPE OF EACH SUB-TRADE RESTS SOLELY WITH THE CONTRACTOR. EXTRAS WILL NOT BE CONSIDERED BASED ON THE GROUNDS OF DIFFERENCE IN INTERPRETATION OF SPECIFICATIONS AND DRAWINGS AS TO WHICH TRADE INVOLVED SHALL PROVIDE CERTAIN SPECIALTIES OR MATERIALS.
- IT IS A CONDITION OF THIS CONTRACT, THAT THE CONTRACTOR WILL, IN THE PERFORMANCE OF THE SERVICES FOR THE OWNER AS DESCRIBED IN THIS CONTRACT, PERFORM WORK IN ACCORDANCE WITH ONTARIO BUILDING CODE LATEST EDITION, THE ONTARIO HYDRO ELECTRICAL SAFETY CODE, THE SEWAGE SYSTEMS ENVIRONMENTAL PROTECTION ACT ONTARIO, WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS), O.REG 644/88, THE ONTARIO GAS UTILIZATION CODE, AND ANY OTHER FEDERAL, PROVINCIAL OR LOCAL APPLICATION, INCLUDING HOURS OF WORK, RATES OF PAY, JOB SAFETY AND ALL OTHER MATTERS IN WHICH THE MUNICIPAL OR FEDERAL AUTHORITIES HAVE JURISDICTION, PROVIDED THAT IN ANY CASE OF CONFLICT OR DISCREPANCY, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
- COMPLY WITH STANDARD FOR BUILDING CONSTRUCTION OPERATIONS, ISSUED BY THE ONTARIO FIRE MARSHALL'S OFFICE AND ALL APPLICABLE FIRE SAFETY CODES, LAWS, AND REGULATIONS.
- IT IS INCUMBENT UPON THE CONTRACTOR TO INFORM ITSELF OF ANY SUCH LEGISLATION AND THE CONTRACTOR AGREES THAT IN THE EVENT OF NON-COMPLIANCE WITH THIS LEGISLATION, IT WILL INDEMNIFY AND HOLD HARMLESS THE OWNER FROM ANY COSTS AND DAMAGES RESULTING FROM SUCH NON-COMPLIANCE.
- ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH STANDARDS OF GOOD PRACTICE SUCH AS, BUT NOT LIMITED TO, SMAONA AND ASHRAE, MEET OR EXCEED REQUIREMENTS OF CONTRACT DOCUMENTS, SPECIFIED STANDARDS, CODES AND REFERENCED DOCUMENTS DESCRIBED IN THESE INSTRUCTIONS.

EXAMINATION OF WORK

- THIS PROJECT INVOLVES RENOVATIONS TO EXISTING BUILDING, THEREFORE EXAMINE THE SITE AND LOCAL CONDITIONS TO DETERMINE THE DIFFICULTIES IN CARRYING OUT THE WORK INDICATED AND SPECIFIED PRIOR TO SUBMITTING FINAL PRICE.

INTENT

- IT IS THE INTENT OF THIS SPECIFICATION AND DRAWINGS TO PROVIDE FOR A COMPLETE AND FULLY OPERATING SYSTEM IN COMPLETE ACCORD WITH ALL APPLICABLE CODES. THESE DOCUMENTS MAY NOT SHOW OR DESCRIBE EACH AND EVERY ITEM REQUIRED FOR THE COMPLETE INSTALLATION; THEREFORE, THE CONTRACTOR SHALL MAKE PROVISIONS FOR ALL LABOUR, MATERIAL AND EQUIPMENT DEEMED NECESSARY TO COMPLETE THE WORK INDICATED OR REASONABLY IMPLIED ON ALL DRAWINGS.

LIABILITY

- THIS CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR LAYING OUT HIS WORK AND FOR ANY DAMAGE OR EXTRA COSTS CAUSED TO THE OWNER OR OTHER CONTRACTORS BY IMPROPER LOCATION OR CARRYING OUT OF HIS WORK. CARRY ALL NECESSARY INSURANCE COVERAGE.

PERMITS, CERTIFICATES, FEES, ETC.

- GIVE ALL NOTICES, OBTAIN ALL PERMITS AND PAY ALL FEES SO THAT THE WORK SPECIFIED HEREIN MAY BE CARRIED OUT, EXCEPT FOR OCCUPANCY PERMIT WHICH WILL BE OBTAINED BY THE OWNER, AT THE ENGINEER'S REQUEST. FURNISH ANY CERTIFICATES AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH THE LAWS AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION.

GUARANTEE

- THE CONTRACTOR, AS A CONDITION PRECEDENT TO FINAL PAYMENT AFTER COMPLETION OF THIS WORK SHALL GIVE THE OWNER A WRITTEN GUARANTEE WARRANTING ALL APPARATUS FURNISHED UNDER THE CONTRACT TO REMAIN IN PERFECT SERVICEABLE CONDITION FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL PERFORMANCE OF HIS WORK AS ESTABLISHED BY THE PROJECT MANAGER AND ENGINEER.

DOCUMENTS REQUIRED

- MAINTAIN AT JOB SITE ONE COPY OF EACH OF THE FOLLOWING DOCUMENTS:
 - DRAWINGS.
 - SPECIFICATIONS.
 - ADDENDA.
 - CHANGE ORDERS.
 - OTHER MODIFICATIONS TO CONTRACT.
 - FIELD TEST REPORTS.
 - MANUFACTURERS' INSTALLATION AND APPLICATION INSTRUCTIONS.

EXTRA WORK

- NO EXTRA WORK IS TO BE CARRIED OUT WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER OR THE OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL PROVIDE QUOTATIONS FOR EXTRA WORK AS DIRECTED UNDER CONTEMPLATED CHANGE NOTICES (CCN'S) ISSUED IN WRITING BY THE ENGINEER OR THE OWNER'S REPRESENTATIVE.
- CONTRACTOR TO SUBMIT ITEMIZED BREAKDOWN FOR BOTH MATERIAL AND LABOUR FOR ALL CONTEMPLATED CHANGE NOTICES. CONTRACTOR WILL USE THE CCN FORMS PROVIDED WITH THE TENDER DOCUMENTS. ALL COLUMNS TO BE USED WHERE APPLICABLE AND EXTENSIONS MADE.
- AT THE START OF THE PROJECT THE CONTRACTOR SHALL SUBMIT FOR REVIEW THE HOURLY LABOUR RATE THAT IS PROPOSED FOR PRICING ON ALL EXTRA WORK THAT MAY ARISE ON THE PROJECT.
- LABOUR RATE TO INCLUDE ONLY:
 - PAY AND VACATION PAY.
 - WELFARE AS PER UNION COLLECTIVE AGREEMENT (ACCEPTED ONLY IF CONTRACTOR IS A UNION CONTRACTOR).
 - E.I. OR C.P.P. AS PER FEDERAL GOVERNMENT REQUIREMENTS.
 - W.C.B. PAYMENTS AS PER ONTARIO REGULATIONS.
 - INSURANCE AS PER REQUIREMENTS OR REGULATING BODY.
- MATERIAL WILL BE PRICED AT THE CONTRACTOR'S COST. COPIES OF SUPPLIER'S INVOICES MAY BE REQUIRED TO SUBSTANTIATE MATERIAL COSTS WHEN REQUESTED.
- THE AMOUNT OF MARK-UP ALLOWED FOR PROFIT AND OVERHEAD WILL BE IN ACCORDANCE WITH THOSE IN THE CONTRACT DOCUMENTS WITH THE TENDER, TO BE MODIFIED TO REFLECT THE ALLOWED PROFIT AND OVERHEAD STATED IN THE CONTRACT DOCUMENTS.
- THE MARK-UPS APPLY TO THE NET WHERE A CHANGE INCLUDES BOTH EXTRAS AND CREDITS.
- COST OF WORK BY A SUB-TRADE TO THE DIVISION 26 CONTRACTOR WILL BE DETERMINED BY THE SUB-TRADE USING THE SAME ITEMIZED BREAKDOWN FORMAT AND THE SAME CCN FORM.
- A MARK-UP OF 5% WILL BE PERMITTED BY THE DIVISION 26 CONTRACTOR FOR SUB-TRADE WORK.

PROGRESS BILLING

- CONTRACTOR TO SUBMIT ITEMIZED BREAKDOWN FOR THE PROJECT BASED ON THE CONTRACT PRICE AGREED TO FOR THIS PROJECT. CONTEMPLATED CHANGE NOTICES ONCE AUTHORIZED BY THE OWNER WILL BE ADDED TO THE MONTHLY PROGRESS CLAIM.
- CLAIMS FOR PAYMENT SHALL BE SUBMITTED FOR REVIEW PRIOR TO THE END OF THE PAY PERIOD TO ALLOW FOR A TIMELY REVIEW BY THE ENGINEER.
- CONTRACTOR SHALL SUBMIT PROGRESS CLAIMS FOR REVIEW AND PAYMENT AUTHORIZATION IN ACCORDANCE WITH THE TERMS OF THE CONTRACT.

AS-BUILT AND RECORD DRAWINGS

- OWNERS REPRESENTATIVE WILL PROVIDE TWO(2) SETS OF DRAWINGS AT THE START OF CONSTRUCTION TO ALLOW THE CONTRACTOR TO KEEP AND MAINTAIN ACCURATE AS-BUILT DRAWINGS.
- ONE SET SHALL BE KEPT ON SITE TO RECORD THE INFORMATION REFLECTING CHANGES AND INSTALLATION ON A DAILY BASIS DURING CONSTRUCTION. AT THE END OF THE PROJECT ALL INFORMATION FROM THE CONSTRUCTION SET SHALL BE TRANSFERRED ONTO THE CLEAN SET AND SENT TO THE ENGINEER FOR THE FINAL REVIEW.
- FAILURE TO KEEP UP TO DATE AS-BUILT DRAWING MAY JEOPARDIZE MONTHLY PROGRESS PAYMENTS. AS-BUILT DRAWING WILL BE REVIEWED AT THE SAME TIME AS MONTHLY PROGRESS PAYMENT INSPECTIONS ARE CONDUCTED.

SHOP DRAWINGS

- BEFORE FABRICATION OR DELIVERY OF ANY MATERIALS OR EQUIPMENT, SUBMIT ELECTRONIC COPIES OF SHOP DRAWINGS AND DATA SHEETS COVERING ALL ITEMS OF EQUIPMENT FURNISHED AND INTENDED FOR INSTALLATION UNDER THIS CONTRACT FOR APPROVAL BY THE ENGINEER.

TEMPORARY AND TRIAL USAGE

- TEMPORARY OR TRIAL USAGE BY THE OWNER OF ANY MACHINERY, APPARATUS, EQUIPMENT OR ANY OTHER WORK OR MATERIALS SUPPLIED UNDER THE CONTRACT BEFORE FINAL WRITTEN ACCEPTANCE BY THE ENGINEER IS NOT TO BE CONSTRUED AS EVIDENCE OF THE ACCEPTANCE OF SAME BY THE OWNER. THE OWNER SHALL HAVE THE PRIVILEGE OF SUCH TEMPORARY AND TRIAL USAGE AS SOON AS THIS CONTRACTOR CLAIMS THAT SAID WORK IS COMPLETED. ANY DAMAGE CAUSED BY PROTECTIVE MATERIAL OR WORKMANSHIP THROUGH TEMPORARY OR TRIAL USAGE BY THE OWNER SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- ANY PERMANENT EQUIPMENT USED TEMPORARILY FOR TEMPORARY HEAT OR OTHERWISE WILL BE COMPLETELY REPAIRED, REPLACED, AND CLEANED TO THE FULL SATISFACTION OF THE OWNER.

EXPLOSIVES ACTUATED FASTENING DEVICES

- DO NOT EMPLOY POWER GUNS USING EXPLOSIVES, UNLESS EXPRESSLY PERMITTED BY THE PROJECT MANAGER, COMPLY WITH REQUIREMENTS OF CSA 2-166 (SAFETY CODE FOR EXPLOSIVE ACTUATED TOOLS).

STORAGE

- THE SECURITY OF THE CONTRACTOR'S EQUIPMENT AND MATERIALS SHALL BE HIS RESPONSIBILITY. CONTRACTOR SHALL LIAISE WITH THE BUILDING OPERATOR AS NECESSARY.

SIGNS

- PROVIDE WARNING SIGNS IN LOCATIONS WHERE RENOVATIONS AND ALTERATION WORK IS ADJACENT TO AREAS AFFECTING THE PUBLIC.

EQUIPMENT AND SITE CLEANLINESS

- DUCTS AND EQUIPMENT SHALL BE THOROUGHLY CLEANED OF DIRT, CUTTINGS AND OTHER FOREIGN SUBSTANCES. DISCONNECT, CLEAN AND RECONNECT WHENEVER NECESSARY FOR THE PURPOSE OF LOCATING AND REMOVING OBSTRUCTIONS. REPAIR WORK DAMAGED IN THE COURSE OF REMOVING OBSTRUCTIONS.
- THE CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE FROM THE ACCUMULATION OF WASTE MATERIAL TO THE SATISFACTION OF THE PROJECT MANAGER. PLACE DUST PROTECTION IN THE FORM OF COVER SHEETS OVER EQUIPMENT AND FURNITURE TO ENSURE NO DUST INFILTRATION. CLEANING TO BE COMPLETED AT THE END OF EACH SHIFT TO THE SATISFACTION OF THE PROJECT MANAGER.

OPERATING AND MAINTENANCE DATA

- FURNISH THREE (3) SETS OF OPERATING AND MAINTENANCE DATA FOR ALL NEW EQUIPMENT AND SYSTEMS. DATA SHALL BE ASSEMBLED IN BOOKLET FORM WITH HARD COVER AND INDEX. IDENTIFY FRONT COVER WITH NAME AND LOCATION OF THE PROJECT, CONSULTING ENGINEER AND CONTRACTOR. SUBMIT ONE COPY TO THE ENGINEER FOR APPROVAL.

MATERIALS

- MATERIALS AND EQUIPMENT INSTALLED SHALL BE NEW, FULL WEIGHT AND OF BEST QUALITY SPECIFIED. USE SAME BRAND OF MANUFACTURER FOR EACH SPECIFIC APPLICATION. STATICALLY AND DYNAMICALLY BALANCE ROTATING EQUIPMENT FOR MINIMUM VIBRATION AND LOW OPERATING NOISE LEVEL. REPLACE MATERIAL OR WORKMANSHIP BELOW SPECIFIED QUALITY AND RELOCATE WORK WRONGLY PLACED TO THE SATISFACTION OF THE ENGINEER.

APPROVALS

- THE PRICE SUBMITTED FOR THIS CONTRACT SHALL BE BASED ON THE USE OF MATERIALS AND EQUIPMENT AS SPECIFIED. IF THIS CONTRACTOR WISHES TO QUOTE ON EQUIVALENT MATERIALS AND EQUIPMENT, HE MUST QUOTE ON PRODUCTS APPROVED BY THE ENGINEER, IN WRITING, AS AN EQUIVALENT TO THE PRODUCT SPECIFIED. THIS CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY ADDITIONAL WORK OR MATERIALS REQUIRED BY ALL OTHER CONTRACTORS TO ACCOMMODATE APPROVED EQUIVALENT MATERIALS OR EQUIPMENT. EXTRAS WILL NOT BE APPROVED TO COVER SUCH WORK.

CUTTING AND PATCHING

- THE CONTRACTOR IS RESPONSIBLE FOR THIS WORK AND SHALL CO-ORDINATE LOCATIONS FOR ALL HOLES FOR PIPES, DUCTS THROUGH FLOORS AND ROOF, ETC., AND PROVIDE SLEEVES REQUIRED TO EXECUTE THE INSTALLATION. X-RAY FLOORS AND STRUCTURAL WALLS BEFORE CUTTING TO LOCATE EXISTING REBAR AND CONDUITS, AND MUST OBTAIN PROJECT MANAGER'S APPROVAL FOR PROPOSED CUTTING BEFORE PROCEEDING. PROVIDE ULG APPROVED FIRE STOPPING SYSTEM FOR ALL PENETRATIONS THROUGH RATED ASSEMBLIES.

SHUTDOWNS

- ANY SHUTDOWN THAT MAY BE REQUIRED OF EXISTING EQUIPMENT MUST HAVE PRIOR APPROVAL FROM THE PROJECT MANAGER AND ENGINEER. PROVIDE A MINIMUM OF 48 HOURS NOTICE.

MATERIALS REMOVED

- ALL MATERIALS REMOVED DURING DEMOLITION SHALL BECOME THE PROPERTY OF THE OWNER AND STOCKPILED AS DIRECTED ON SITE. MATERIAL REJECTED BY THE OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.

ELECTRICAL SPECIFICATIONS

MINIMUM STANDARDS

- ELECTRICAL INSTALLATION: TO CSA C22.1-LATEST EDITION
- LIGHTING FIXTURES: TO CSA C22.2 No. 9-LATEST EDITION
- FIXTURE BALLAST: TO CSA C22.2 No. 74-LATEST EDITION
- ONTARIO BUILDING CODE-LATEST EDITION
- ONTARIO ELECTRICAL SAFETY CODE-LATEST EDITION.

MOUNTING HEIGHTS

- INSTALL ELECTRICAL EQUIPMENT AT FOLLOWING HEIGHTS UNLESS INDICATED OTHERWISE:
 - LOCAL SWITCHES: 1100mm
 - WALL RECEPTACLES:
 - GENERAL: 400mm
 - ABOVE COUNTERS: 175mm
 - PANEL BOARDS: 1800mm FROM TOP
 - TELECOMMUNICATION OUTLETS: 400mm

DEMOLITION

- CONTRACTOR TO CO-ORDINATE WITH OTHER TRADES TO ENSURE THAT ELECTRICAL EQUIPMENT AND FEEDERS ASSOCIATED WITH MECHANICAL EQUIPMENT AND/OR IS LOCATED IN WALLS BEING DEMOLISHED IS ALSO BEING REMOVED.
- EXISTING EQUIPMENT SHOWN AS RELOCATED TO BE CLEANED AND MADE OPERATIONAL BY THIS CONTRACTOR PRIOR TO ITS RELOCATION.
- CONTRACTOR TO REPLACE BROKEN AND DISCOLOURED LIGHT FIXTURE ACRYLIC LENSES AS INDICATED BY THE ENGINEER.

EQUIPMENT SHUT-DOWN

- ANY SHUTDOWN THAT MAY BE REQUIRED OF EXISTING EQUIPMENT, MUST HAVE PRIOR APPROVAL FROM THE ENGINEER.

IDENTIFICATION

- IDENTIFY WITH LAMACOID NAMEPLATES ALL ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS AND/OR MENTIONED IN THE SPECIFICATION SUCH AS MOTORS, SWITCHES, STARTERS, PANEL BOARDS, TRANSFORMERS, CONTROLS, AND SPECIAL RECEPTACLES, REGARDLESS OF WHETHER OR NOT THE ELECTRICAL EQUIPMENT WAS FURNISHED UNDER THIS SECTION OF THE SPECIFICATION. IDENTIFICATION REVIEWED BY ENGINEER.
- UNLESS OTHERWISE SPECIFIED, NAMEPLATES SHALL BE RIGID LAMACOID, MINIMUM 1.5mm THICK WITH BLACK LETTERS ENGRAVED ON A WHITE BACKGROUND. NAMEPLATES TO BE NEATLY PLACED, AND SQUARE TO SURROUNDING BUILDING OR EQUIPMENT LINES, AND FASTENED IN PLACE WITH MECHANICAL FASTENERS (SCREWS OR POP RIVETS) AS REVIEWED BY ENGINEER.
- PROVIDE NEATLY TYPED UPDATED CIRCUIT DIRECTORIES IN A PLASTIC HOLDER ON THE INSIDE DOOR OF PANEL BOARDS, WITH COPY IN MANUAL.

- IDENTIFY ALL PULL AND JUNCTION BOXES, WITH P-TOUCH LABEL IDENTIFICATION, INDICATING SOURCE PANEL AND CIRCUIT NUMBERS.
- IDENTIFY ALL RECEPTACLES AND SWITCHES WITH P-TOUCH LABELS, BLACK LETTERING ON TRANSPARENT TAPE, INDICATING SOURCE PANEL AND CIRCUIT NUMBER. LABELS TO BE LOCATED ON FRONT OF COVERPLATE.

LOCATION OF OUTLETS

- LOCATE OUTLETS AS SHOWN ON DRAWINGS. REFER TO INTERIOR DESIGNER DRAWINGS FOR LOCATION OF OUTLETS WHICH ARE DIMENSIONED OR OTHERWISE LOCATED.
- DO NOT INSTALL OUTLETS BACK-TO-BACK IN WALL; ALLOW MINIMUM 150mm HORIZONTAL CLEARANCE BETWEEN BOXES, AND LOCATE IN SEPARATE STUD CAVITIES WHEREVER POSSIBLE.
- CHANGE LOCATION OF OUTLETS AT NO EXTRA COST OR CREDIT, PROVIDING DISTANCE DOES NOT EXCEED 3 METERS AND INFORMATION IS GIVEN BEFORE INSTALLATION.

ELECTRIC MOTORS AND WIRING

- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO SUPPLY ALL MOTOR STARTERS, EXCEPT ON PRE-WIRED PACKAGED EQUIPMENT, DISCONNECT SWITCHES FOR ALL MOTORS FOR THE PROJECT, AND ALL WIRING TO STARTERS AND MOTORS EXCEPT WHERE SHOWN OR NOTED OTHERWISE. EQUIPMENT REQUIRING CONNECTION TO AN ELECTRICAL POWER SOURCE SHALL BE CSA OR HYDRO APPROVED FOR USE AT LOCATION OF INSTALLATION. THE MECHANICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL LOW VOLTAGE CONTROL WIRING WITHIN EACH CONDUIT FOR A COMPLETE AND OPERATING INSTALLATION UNLESS OTHERWISE SPECIFIED.

WIRING

- ALL WIRING TO BE COPPER, R90 XLPE, STRANDED WITH 'BRADY LABEL' MAKING SLEEVES AT EACH END, UNLESS OTHERWISE NOTED ON DRAWINGS. WIRING TO BE COLOUR CODED AS PER CODE. MINIMUM WIRE SIZE TO BE NO.12 AWG FOR POWER AND LIGHTING.
- LEAVE ADEQUATE LENGTHS OF WIRE IN JUNCTION BOXES FOR CONNECTIONS TO EQUIPMENT.
- BE WIRING IN WALLS ONLY.
- RUN A GREEN INSULATED GROUND WIRE SIZED AS PER CODE IN ALL CONDUIT RUNS. DO NOT RELY ON CONDUIT AS GROUND.

CONDUITS

- EACH LENGTH OF CONDUIT TO BE NEW AND BEAR CSA STAMP OF APPROVAL.
- ALL CONDUITS RUN ABOVE THE SUSPENDED CEILING TO BE 'EMT'.
- PROVIDE NYLON PULLROPS IN ALL EMPTY CONDUIT RUNS.
- MODULAR TO MATCH EXISTING; NOCOM MODULAR WIRING CABLES SYSTEM FOR CONNECTION OF FLOURESCENT TROFFER LIGHT FIXTURES, CONSISTENT WITH BASE BUILDING.
- SMART-CONNECT CABLES: START, JOINER, DROP, SWITCH DROP CABLES AS REQUIRED.
- CONNECTORS: MOULDED PVC RECEPTACLES AND ADAPTERS.
- REMOVE AND RECONNECT AS REQUIRED TO OBTAIN LIGHTING CIRCUITS INDICATED AND ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- TERMINATE STARTER AND DROP CABLES AT LIGHT SWITCHES AND LIGHT FIXTURES NOT OUTFITTED WITH NOCOM RECEPTACLES.
- TURN OVER UNUSED CABLES TO BUILDING OWNER.

OUTLET BOXES

- ELECTRO-GALVANIZED STEEL, COATING EQUAL TO THAT TO THE CONDUIT.
- MINIMUM 37 mm DEEP 100 mm SQUARE OR OCTAGONAL AS REQUIRED.
- EQUIP WITH PLASTER RINGS DEEP ENOUGH FOR WALL FINISH MATERIAL TO FIT OVER THE BOX AND WITHIN 6 mm OF THE COVER OPENING.

PULL BOXES

- PROVIDE PULLBOXES WHERE RUNS EXCEED 30 METERS IN LENGTH AND HAVE MORE THAN 2-90° BENDS.

WIRING DEVICES

- RECEPTACLES:
 - DUPLEX RECEPTACLES, CSA TYPE 5-15R 125 VOLT, 15A 'U' GROUND WITH FOLLOWING WITH THE FOLLOWING FEATURES:
 - RECEPTACLES OF SPECIFICATION GRADE.
 - RECEPTACLES OF ONE MANUFACTURER THROUGHOUT PROJECT.
 - UNBRANDED NYLON FACE.
 - SUITABLE FOR NO. 10 AWG FOR BACK AND SIDE WIRING.
 - BREAK-OFF LINKS FOR USE AS SPLIT RECEPTACLES.
 - EIGHT (8) BACK WIRED ENTRANCES, FOUR(4) SIDE WIRING SCREWS.
 - DOUBLE WIPE CONTACTS AND RIVETED GROUNDING CONTACTS.
 - COLOUR: REFER TO ARCHITECTURAL FINISHES
 - RECEPTACLE TO BE DECORA TYPE.
- SWITCHES:
 - TO CSA C22.2 NO. 111-M1986 (R1992)
 - 15A, 120 VOLT SINGLE POLE, 3 WAY SWITCHES, AS INDICATED.
 - MANUALLY OPERATED GENERAL PURPOSE AC SWITCHES WITH THE FOLLOWING FEATURES:
 - TERMINAL HOLES APPROVED FOR NO. 10 AWG WIRE.
 - SILVER ALLOY CONTACTS.
 - UREA OR MELAMINE MOULDING FOR PARTS SUBJECT TO CARBON TRACKING
 - SUITABLE FOR BACK AND SIDE WIRING.
 - IVORY TOGGLE.
 - TOGGLE OPERATED LOCKING FULLY RATED FOR TUNGSTEN FILAMENT AND FLUORESCENT LAMPS, AND UP TO 80% OF RATED CAPACITY OF MOTOR LOADS.
 - SWITCHES OF ONE MANUFACTURER THROUGH OUT.
 - SWITCHES TO BE DECORA TYPE.
- ISOLATED GROUND RECEPTACLES:
 - DUPLEX RECEPTACLES, CSA TYPE 5-15R 125 VOLT, 15A, ISOLATED GROUND, WITH THE FOLLOWING FEATURES:
 - ORANGE UREA MOULDED HOUSING.
 - SUITABLE FOR NO. 10 AWG FOR BACK AND SIDE WIRING.
 - BREAK-OFF LINKS FOR USE AS SPLIT RECEPTACLES.
 - EIGHT BACK WIRED ENTRANCES, FOUR(4) SIDE WIRING SCREWS.
 - DOUBLE WIPE CONTACTS AND RIVETED GROUNDING CONTACTS.
 - RECEPTACLES SPECIFICATION GRADE.
 - RUN ADDITIONAL GREEN ISOLATED GROUND WIRE PER CIRCUIT FROM PANEL TO EACH WIRING

PANEL BOARDS

- TO CSA C22.2 No. 29-M1989
- TO CSA C22.2 No. 5.1-M91
- MINIMUM 125AMP, 120/208 VOLT, 3 PHASE, 4 WIRE PANEL BOARD RATED 10,000A (SYMMETRICAL) INTERRUPTING CAPACITY, OR AS INDICATED
- COPPER BUS WITH COPPER NEUTRAL OF SAME AMPERE RATING AS MAINS.
- MAINS: SUITABLE FOR BOLT ON BREAKERS
- TRIM AND DOOR FINISH: BAKED GREY ENAMEL WITH TWO(2) KEYS FOR DOOR LOCK
- PANEL BOARD MAINS, NUMBER OF CIRCUITS AND NUMBER OF BRANCH BREAKERS AS INDICATED.

CIRCUIT BREAKERS

- PROVIDE CIRCUIT BREAKERS IN PANEL BOARD AS INDICATED.
- BRANCH CIRCUIT BREAKERS QUICK MAKE, QUICK BREAK, AMBIENT COMPENSATED, COMMON TRIP ON ALL MULTIPOLE BREAKERS, TRIP INDICATING CLEARLY SHOWN BY BREAKER HANDLE TAKING POSITION MIDWAY BETWEEN ON AND OFF.
- BREAKER INTERRUPTING CAPACITY:
 - 250V PANELBOARDS AND CDP PANELBOARDS: 10kA SYMMETRICAL (OR AS INDICATED)
 - 600V CDP PANELBOARDS: 25kA SYMMETRICAL (OR AS INDICATED)

TELEPHONE, DATA AND CABLEVISION

- COMPLETE EMPTY RACEWAYS SYSTEM CONSISTS OF OUTLET BOXES, CONDUITS, FISH WIRES.
- CONDUITS:
 - 21mm 'EMT' RISERS BETWEEN DOUBLE GANGED DEVICES BOXES AND CEILING PLENUM BY DIVISION 26. EXACT LOCATION TO BE DETERMINED BY SITE OR AS INDICATED
 - FISH WIRE: POLYPROPYLENE TYPE.
- COVERPLATES INSTALLED BY OTHERS.

COVERPLATES

- POLISHED STAINLESS STEEL COVER PLATES, THICKNESS 1.0mm FOR WIRING DEVICES MOUNTED IN A FLUSH MOUNTED BOX.
- INSTALL COVER PLATES ONLY AFTER PAINTING AND OTHER WORK IS FINISHED.
- INSTALL SUITABLE COMMON COVER PLATES WHERE WIRING DEVICES ARE GROUPED.
- COVER PLATES FOR WIRING DEVICES. COMMUNICATION OUTLET COVERLETS PROVIDED BY SYSTEM CONTRACTOR.
- COVER PLATES FROM ONE MANUFACTURER THROUGHOUT PROJECT.

DISCONNECT SWITCH

- DISCONNECT SWITCH TO BE RATED HORSEPOWER AND BE EQUIPPED WITH PROVISIONS FOR THREE(3) LOCKING DEVICES AND TO BE CEMA 1 UNLESS OTHERWISE INDICATED, AMPERAGE AS INDICATED ON DRAWINGS AND MOUNTED 1500mm ABOVE FINISHED FLOOR TO CENTRELINE OF HANDLE.

FUSES

- FUSE TYPE REFERENCE J1, HAS BEEN ADOPTED FOR USE IN THIS SPECIFICATION.
- FUSES: PRODUCT OF ONE MANUFACTURER.
- HRCI-J FUSES.
- TYPE J1, TIME DELAY, CAPABLE OF CARRYING 500% OF ITS RATED CURRENT FOR 10 SECOND MINIMUM.
- INSTALL FUSES IN MOUNTING DEVICES IMMEDIATELY BEFORE ENERGIZING CIRCUIT.

TRANSFORMERS

- ELECTRICAL CHARACTERISTICS:
 - 3 PHASE, 600 VOLT INPUT, 120/208 VOLT OUTPUT, 60Hz, kVA RATINGS AS INDICATED ON SINGLE LINE DIAGRAM/DRAWING
 - VOLTAGE TAPS: STANDARD.
 - CAPABILITY TO DELIVER FULL NAMEPLATE kVA
 - NEUTRAL CONNECTION SHALL BE RATED AT TWICE THE CAPACITY OF THE SECONDARY PHASE CURRENT.
- GENERAL CHARACTERISTICS:
 - THREE PHASE COMMON CORE CONSTRUCTION.
 - CONVECTION AIR COOLED, ESMAC 2R SPRINKLER-PROOF ENCLOSURE, REMOVABLE FRONT COVER.
 - COPPER WINDINGS.
 - INSULATION: CLASS 'H', 150°C TEMPERATURE RISE.
 - BASIC IMPULSE LEVEL (BIL): 10kV.
 - TYPE ANN.
 - SOUND LEVEL: MAX. 45db AT 5 FEET.
 - VOLTAGE CLASS: 1.2kV.
 - ANTI-VIBRATION PADS SHALL BE USED BETWEEN CORE AND ENCLOSURE.
 - FULL LOAD EFFICIENCY AT 170°C: 97%.
 - MAGNETIZING INRUSH CURRENT: MAXIMUM 10 TIMES FULL LOAD RATING.

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0	ISSUED FOR TENDER	APRIL 30, 2026
No	DESCRIPTION	DATE

REVISIONS

client:

TOWN OF CARLETON PLACE

175 BRIDGE STREET
CARLETON PLACE, ON K7C 2V8

project:

CARLETON PLACE ARENA & CAMAMBECK COMMUNITY CENTRE
- REPLACE ROOFTOP UNITS

75 NEELIN STREET & 351 BRIDGE STREET
CARLETON PLACE, ON

drawing title:

ELECTRICAL SPECIFICATIONS

scale:	AS NOTED	drawn by:	P.P. / M.G.
designed by:	P.P. / M.G.	reviewed by:	JRP ENG.
approved by:	JRP ENG.	date:	APRIL 2026

project no.:

100-2607

drawing no.:

ME-5
of 5