



TOWNSHIP OF
**NORTH
STORMONT**
A good place to grow

CONTRACT FOR

***North Stormont Arena
Fire Alarm System***

CONTRACT NO. RFQ Rec 001-2021

01 February 2021

Andre Brisson – Chief Building Official
P.O Box 99 – 15 Union St.
Berwick, Ontario
K0C 1G0
T: 613-984-2821

The Tenderer is advised that the following **CHECK LIST** is provided to assist in the completion of an accurate and acceptable Tender Form. While every effort has been made to include all the information necessary, this **CHECK LIST** may not be complete, therefore the Tenderer is reminded to check all the tendering requirements outlined in Section A, General Special Provisions, prior to delivery of the completed Tender Form.

TENDERER'S CHECK LIST

- Tenderer's name and address on page 2
- Addenda numbers inserted on page 4 (as applicable)
- All tender items bid
- TOTAL TENDER AMOUNT BID indicated on page 5
- SUMMARY OF FIRE ALARM SYSTEM PRODUCT on Page 6
- Erasures, over-writing or strike-outs initialed by person signing on behalf of the Tenderer
- Tender Form dated, signed and witnessed on last page
- Tender Deposit included in the form of a certified cheque or Bid Bond
- Approved Tender Envelope as supplied by the Township of North Stormont to be used and clearly marked as to contents: "Tender for Contract".
 - Deliver approved Tender envelope and contents to Andre Brisson – Chief Building Official, 15 Union St., P. O. Box 99, Berwick, Ontario K0C 1G0 before 14:00, Local Time, **Friday, February 26th, 2021**
- For queries during preparation of tenders, contact:

Matt Morris P.Eng.
MORRIS Engineering Ltd.
Tel.: 613-499-2077
matt@morriseng.ca

* Please note, due to COVID-19 restrictions the office is closed to the public. Tender Packages are to be dropped off in our locked mailbox located at the front door. The mailbox is viewed daily and the package will be stamped upon receipt.

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TOWNSHIP OF
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TENDER FORM

CONTRACT FOR

***North Stormont Arena
Fire Alarm System***

CONTRACT NO. RFQ Rec 001-2021

01 February 2021

CONTRACT NO. **RFQ Rec 001-2021**

Tender for the: **North Stormont Arena
Fire Alarm System**

NAME OF TENDERER (Firm or Individual)

ADDRESS OF TENDERER

TELEPHONE NUMBER OF TENDERER

NAME OF PERSON SIGNING FOR TENDERER

OFFICE OF PERSON SIGNING FOR TENDERER

NOTE: *If the Tender is submitted by or on behalf of any Corporation, it must be signed in the name of such Corporation by some duly authorized officer or agent thereof. The said officer or agent shall subscribe their own name and office and affix the seal of the Corporation thereto.*

Sealed Tenders, duly completed on the loosely bound Tender Form provided with the Tender Documents and submitted within the "Approved Tender Envelope" as supplied by the Township, complete with attached statements and information requested in the Tender Form, will be received as follows:

CONTRACT NO. RFQ Rec 001-2021

**Tender for the: North Stormont Arena
Fire Alarm System**

TENDERS TO BE RECEIVED BY:

*Andre Brisson – Chief Building Official
15 Union St.
P. O. Box 99
Berwick, Ontario
K0C 1G0*

BEFORE: 14:00 LOCAL TIME Friday, February 26th, 2021

Deposit Required with Tender: as specified in General Special Provisions

Bond Required for Contract: Not Applicable

The Corporation of The Township of North Stormont (the Township) reserves the right to reject any or all Tenders if it is deemed advisable to do so, and the lowest or any tender will not necessarily be accepted.

*The Mayor and Council
Corporation of The Township of North Stormont*

Madam/Sir:

The Tenderer has carefully examined and understands and accepts the Provisions, Specifications, Conditions and Drawings referred to in the Schedule of Provisions, Specifications, Conditions and Drawings and Addenda Nos. _____ to _____ attached hereto as part of this Tender, and has carefully examined the site, including the nature of the utilities and location of the work to be done under this Contract and, for the prices set forth in this Tender, hereby offers to furnish all labour, materials, machinery, tools, apparatus, and other means of construction necessary to complete the work in strict accordance with the Provisions, Specifications, Conditions and Drawings referred to in the said Schedule.*

Notification of acceptance and delivery of the Form of Agreement shall be made by the Township by prepaid and registered post or express post addressed to the Tenderer at the address contained in the Tender Form and, upon such notification of acceptance, the Tenderer shall complete the Form of Agreement between the parties, execute the Contract and furnish the necessary proof of insurance within 14 days of mailing of said notification to the Tenderer.

Attached to this Tender is a certified cheque or bid bond in the amount required by the General Special Provisions and made payable to: The Corporation of The Township of North Stormont. The proceeds of this cheque or bid bond shall, upon acceptance of the Tender, constitute a deposit which shall be forfeited to the Township if the Tenderer fails to file with the Township the Form of Agreement duly executed, together with the Performance Bond, proof of insurance and proof of Workers' Compensation Board coverage, all as specified.

The Tenderer will insert the numbers of the Addenda received by them during the tendering period and taken into account by them in their Tender.

TENDER SUMMARY

DESCRIPTION	CONTRACTOR'S TOTAL BID IN FIGURES (HST EXCLUDED)
TOTAL TENDER AMOUNT BID FOR FIRE ALARM SYSTEM AS PER APPROVED DESIGN	\$ _____

The Contractor further agrees that all extra work not provided for above shall be based on actual cost of labour and materials plus 10 percent or on negotiated prices.

The Contractor further agrees to provide credit for omission of work based on the actual cost used to determine the total tender bid without any provisions for profit and overhead.

TENDER ATTACHMENTS

The Tender Submission shall include the following items:

- .1 Completed Tender Form.*
- .2 Samples of products which most closely meets the specification. Bidder shall be responsible for round-trip shipping of the sample to the Township.*
- .3 Shop drawings and product data for the submitted samples.*
- .4 Shop drawings of proposed attachment to existing structure, if applicable.*
- .5 Manufacturers standard warranty documents.*

SUMMARY OF DEVIATIONS FROM SPECIFICATION

<i>PRODUCT TYPE</i>	<i>DESCRIPTION</i>
<i>Fire Alarm System Manufacturer</i>	
<i>Pull Station Model Number</i>	
<i>Heat Detector Model Number(s)</i>	
<i>Smoke Detector Model Number(s)</i>	
<i>Horn/Strobe Model Number(s)</i>	

SCHEDULE OF PROVISIONS, SPECIFICATIONS, CONDITIONS AND DRAWINGS

The work specified in the Contract will be performed in strict accordance with the following:

- SECTION A General Special Provisions
- SECTION B Drawings
- FA1 – GENERAL NOTES & FIRE ALARM SCHEMATIC
- FA2 – FIRE ALARM SYSTEM –
 GROUND FLOOR PLAN – ENTRANCE/LOBBY
- FA3 – FIRE ALARM SYSTEM –
 GROUND FLOOR PLAN – ARENA
- FA4 – FIRE ALARM SYSTEM –
 SECOND FLOOR PLAN

OFFER

The Tenderer, by this Tender, offers to complete this Contract in accordance with the terms and conditions contained herein.

Dated at _____ this _____ day of _____, 2021.

Signature of Authorized Person
Signing for Tenderer

Witness

Position

This is the 7th and last page of the Tender Form to be submitted.



SECTION A

GENERAL SPECIAL PROVISIONS

1. TENDER REQUIREMENTS

- .1 The correct Tender Form, as supplied by the Township for the Contract being bid, shall be used, and shall be delivered to:

Andre Brisson – Chief Building Official
15 Union St.
P. O. Box 99
Berwick, Ontario
K0C 1G0

before date shown in Tender Form

Bids received after closing time will not be considered.

- .2 The entire work is to be awarded to (1) one Contractor and therefore ALL ITEMS on the Tender Form must be bid.
- .3 All prices must be clearly indicated. Erasures, over-writing, or strikeouts must be initialed by the person signing on behalf of the Contractor.
- .4 The total bid must not be restricted by a statement added to the Tender Form, or a covering letter, or alterations to the Tender Form provided by the Township. Adjustments by email or letter to a Tender already submitted will not be considered. A bidder desiring to adjust a Tender must withdraw the Tender and/or supersede it with a later submission.
- .5 The Approved Tender Envelope as supplied by the Township must be used and clearly marked "TENDER FOR CONTRACT *RFQ Rec 001-2021*".
- .6 The Tender Form must be signed and witnessed in the spaces provided on the form, with the signature of the bidder or of a responsible official of the organization bidding.



.7 The Tender must be accompanied by a Tender Deposit in the form of a certified cheque made payable to "The Corporation of The Township of North Stormont" or a Bid Bond. The cheque or Bid Bond shall be in an amount equal to or greater than the amount shown in the following table:

<u>TOTAL TENDER AMOUNT</u> <u>BID FOR CONTRACT RFQ Rec 001-2021</u>	<u>MINIMUM DEPOSIT</u> <u>REQUIRED</u>
\$ 20,000.00 or less	\$ 1,000.00
\$ 20,000.01 to \$ 50,000.00	\$ 2,000.00
\$ 50,000.01 to \$ 100,000.00	\$ 5,000.00
\$ 100,000.01 to \$ 250,000.00	\$ 10,000.00

The Tender Deposits of all bidders shall be retained until the successful bidder has executed the Contract documents.

The Tender Deposit of the successful bidder will be returned when he has fully complied with the conditions outlined in the Contract documents.

2. EXECUTION OF CONTRACT

Tenders shall be open for acceptance for a period of 30 calendar days after closing date. After this time, the Tender may only be accepted with the consent of the successful bidder.

If requested, and prior to contract award, the tenderer shall produce written evidence as to his qualifications and previous experience in the types of work contemplated by this Contract. This shall include a list of projects of similar size and nature; and contact information for a minimum of 3 references.

Failure by the successful bidder to meet the Contract requirements will entitle the Township to rescind the acceptance of the Contract and to retain the Tender Deposit as compensation for damages sustained due to the successful bidder's default. The Township may then award the Contract to one of the other bidders or take such other action as the Township may choose.

3. LIABILITY INSURANCE

A Certificate of Insurance required under this Section shall be submitted to the Township as soon as is practical after notification of acceptance of the Tender. The liability insurance coverage shall specifically include coverage to the limit of not less than two million dollars (\$2,000,000.00), exclusive of interest and cost, in respect of any one accident.



The Certificate of Insurance shall name the following as additional insured:

- .1 The Corporation of The Township of North Stormont

The automobile liability insurance coverage shall include coverage of not less than two million dollars (\$2,000,000.00), inclusive per occurrence.

4. OCCUPATIONAL HEALTH AND SAFETY

All Ministry of Labour Acts, Codes and Regulations shall be strictly adhered to on this project.

All work to be installed in conformance with specifications and requirements as detailed by the Ontario Building Code and the Electrical Safety Authority.

5. SCOPE OF WORK

The work under this contract shall be as outlined in the drawings and specifications, and shall include the following:

- .1 Supply and installation of a Fire Alarm System as per Lascelles Plan No. 200446-FA1, FA2, FA3 and FA4 prepared, reviewed, and sealed by MORRIS Engineering Ltd. Project specific specifications are included on the project plans, and are to be considered as part of this contract.
- .2 Existing Conditions:
 - .1 The North Stormont Arena is currently classified as a structure under Group A – Assembly Occupancy.
 - .2 Contractor to locate and protect all exterior services
 - .3 Contractor to locate and protect all interior services and fabric. Make good all damage resulting from the work herein.
 - .4 Connections to existing services to be coordinated with the Township.
 - .5 Work to be executed with least possible interference or disturbance to normal use of existing building
 - .6 Designated Substances shall be treated in accordance with the requirements of the Occupational Health and Safety Act and Regulations. Work to be stopped immediately upon discovery of any Designated Substances and Township/Engineer to be informed



immediately.

- .3 Requirements following Award of Contract:
 - .1 Schedule: the work detailed herein is to be completed in a single phase, achieving substantial completion prior to July 1st, 2021. The successful proponent is to submit a detailed schedule to the Township & Engineer for review.
 - .2 Required Meetings:
 - .1 Minimum of 3 meetings with Township of North Stormont staff.
 - .2 Minimum of 3 site meetings to review installation and operations.
 - .3 Submittals:
 - .1 Manufacturer's product data for each individual system. Include the following:
 - .1 Project list: Three (3) projects of similar size, complexity and in service for at least three (3) years.
 - .2 Shop Drawings: Show all equipment to be implemented with details of accessories to be supplied.
 - .3 Certification of insurance coverage and manufacturing experience of manufacturer
 - .4 Installer qualifications indicating capability, experience, and manufacturer acceptance.
 - .5 Provision of maintenance and operating instruction manuals. Demonstrate operating procedures.
 - .6 Schematic Diagram of electrical systems
 - .7 Control shop drawings and operating sequence including wiring of components
 - .8 Wiring diagram of control panels
 - .9 Operating instructions, including start-up and shut-



down procedures

- .10 Maintenance instructions including preventative maintenance instructions for components of the equipment
- .11 Complete parts list of assemblies and their component parts, showing manufacturer's name, catalogue number and nearest replacement source.
- .12 List of recommended spare parts and quantity of each item to be stocked
- .13 Manufacturers' warranties and guarantees
- .2 Submit to Electrical Safety Authority necessary drawings and specifications for approval prior to commencement of work
- .3 Pay all electrical permit and inspection fees
- .4 As-Built drawings incl. schematic Diagram of overall electrical systems

6. INTERPRETATION

In this document all reference to the "Owner" or "Township" will mean "The Corporation of The Township of North Stormont."

In this document all reference to the "Engineer" shall mean "MORRIS Engineering Ltd.".

In this document all reference to the "Contractor" shall mean the successful proponent awarded the contract denoted herein. The term "Sub-Contractor" is to apply to all parties hired by the Contractor to complete work as part of the scope as detailed in this contract.

7. CONTRACTOR'S SCHEDULE OF WORK

Forthwith upon acceptance of this Contract, the Contractor shall provide a "Contractor's Schedule of Work" to the Township & Engineer. The Schedule shall include delivery dates, and the name of a responsible individual from the Contractor's firm who can be contacted in the event of emergencies. The Contractor must prepare and submit his Schedule to the Township & Engineer within five (5) days of Contract acceptance and prior to start of construction.



8. PROGRESSION OF WORK AND COMPLETION TIME

Time shall be of the essence of this Contract.

The Contractor shall diligently execute the work covered by this Contract to completion.

The Contractor shall schedule the work for progression of same in a continuous and orderly manner to ensure the least amount of delay in completing the total works.

9. LIMITATIONS OF OPERATIONS

The Contractor's construction operations and working hours shall satisfy the requirements of the Township of North Stormont's Noise By-law.

10. BASIS FOR CERTIFICATE PAYMENTS:

.1 PROGRESS PAYMENT CERTIFICATE

The Contractor shall submit a breakdown of costs for each main item of the work, within five (5) days of Contract Award.

The Contractor shall remit a progress payment request on a monthly basis, indicating the work completed to date, to the Engineer for review and approval.

11. SALES TAX

.1 Harmonized Sales Tax

The Harmonized Sales Tax (HST) shall be listed separately for the purposes of this Contract. The Township is subject to payment of the Harmonized Sales Tax, therefore the HST will be shown on each payment certificate and will be paid to the Contractor in addition to the amount certified for payment and will therefore not affect the Contract prices.

.3 Changes to Government Taxes

Where a change in Canadian federal or provincial taxes occurs after the tender closing date for this Contract, and this change could not have been anticipated at the time of bidding, the Township will increase or decrease contract payments to account for the exact amount of tax change involved.



Claims for compensation for additional tax cost shall be submitted by the Contractor to the Engineer. Such claims for additional tax costs shall be submitted not later than thirty (30) days after the date of acceptance of the work.

Where the Contractor benefits from a change in Canadian federal or provincial taxes, the Contractor shall submit to the Engineer a statement of such benefits. This statement shall be submitted no later than thirty (30) days after the date of acceptance of the work.

The Engineer reserves the right to make deductions from regular progress payments to compensate for the estimated benefit from decreased tax costs. Such deductions will be set-off from Contract payments pending receipt of the statement itemizing the benefits which have resulted from a decrease in tax costs, at which time the final payment adjustment will be determined.

12. EMPLOYMENT

The Contractor and any Sub-Contractor of the Contractor will, irrespective of the construction to be carried out under this Contract:

- .1 Employ only residents of Canada unless required for specialized work;
- .2 Adhere to the Ontario Employment Standards Act with respect to all rights and responsibilities of employees and employers;
- .3 In employing persons, refrain from discrimination against any person as per the Canadian Human Rights Act, for any reason including but not limited to gender, ethnicity, sexual orientation, religious views, or political affiliations; and
- .4 Give preference to local labour if it is necessary to augment regular labor forces.

13. UTILITIES

The Contractor shall be required to locate, cooperate and co-ordinate with any Utility Company whose plant may be affected by the work under this Contract.

The Contractor shall contact the Utility Companies to confirm the exact location, type and configuration of all utilities affected by the work under this Contract. The Contractor shall exercise the necessary care in construction operations and



to take such other precautions as are necessary to safeguard the utilities from damage.

No responsibility will be assumed by the Township with respect to the location and number of existing utilities or services, overhead or underground, which may be encountered during this Contract. The Contractor must satisfy himself as to the locations of all such services and items which may be disturbed by the work, and the cost of locating, protecting and temporarily supporting such facilities shall be included in the price tendered. There shall be no extra payment to the Contractor for this work.

The Contractor shall be responsible for any unauthorized disruptions of service and any damage to utilities arising out of the work. The cost of protective measures, together with the cost of restoring the lines to their original state and location, will be at the expense of the Contractor and will be billed to the Contractor by the utility company.

14. STORAGE AREAS

The Contractor shall obtain the approval of the Township prior to designating areas within the building or site for storage of equipment and/or materials, and erection of site offices and sheds.

If additional property outside the site is required for such purposes, the Contractor shall make their own arrangements at no additional cost to the Township.

15. CO-ORDINATION MEETINGS

The Contractor shall attend such meetings with the Township and other Contractors on site as may be required by the Engineer to co-ordinate services affected by the Contract.

16. EMERGENCY MEASURES

The name, address and telephone number of a responsible Official of the Contractor shall be provided to the Engineer at award of the contract. This Official shall be always available and have the necessary authority to mobilize workers and machinery and to take any action as directed by the Engineer in case emergency measures are required.



17. SPILLS REPORTING

Spills or discharges of pollutants or contaminants under the control of the Contractor, and spills or discharges of pollutants or contaminants that are a result of the Contractor's operations, that cause or are likely to cause adverse effects shall forthwith be reported to the Engineer and to the Ministry of the Environment Spills Action Centre at 1-800-268-6060. Such spills or discharges and their adverse effects shall be as defined in the Environmental Protection Act.

This reporting will not relieve the Contractor of his legislated responsibilities regarding such spills or discharges.

18. WASTE MANAGEMENT

Prior to the commencement of work, the Contractor must provide a document to the Township identifying the construction/demolition material to be landfilled, recycled, reused, or resold and the location at which these activities will occur. It is the responsibility of the Contractor to ensure that the construction/demolition material is managed in accordance with the relevant legislation.

ELECTRICAL NOTES

ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS FOR THIS PROJECT.

- 1. GENERAL**
- CONFORM WITH APPLICABLE REQUIREMENTS OF THE MINISTRY OF LABOUR AND THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
 - DO COMPLETE INSTALLATION IN ACCORDANCE WITH THE FOLLOWING:
 - ONTARIO ELECTRICAL SAFETY CODE.
 - ELECTRICAL SAFETY AUTHORITY.
 - REFER TO ELECTRICAL SAFETY AUTHORITY NECESSARY NUMBER OF DRAWINGS AND SPECIFICATIONS FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.
 - COORDINATE AND OBTAIN ELECTRICAL SERVICE ADVICE FROM THE SUPPLY AUTHORITY.
 - PAY ALL ELECTRICAL PERMIT AND INSPECTION FEES.
 - DO NOT COMPLETE SYSTEM IN ACCORDANCE WITH THE ONTARIO ELECTRICAL SAFETY CODE AND ELECTRICAL SAFETY AUTHORITY.
 - PROVIDE COPIES OF COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS FOR EQUIPMENT FURNISHED UNDER THIS CONTRACT, AND INSTRUCTIONS IN BILINGUAL FORM, INCLUDING THE FOLLOWING:
 - SCHEMATIC DIAGRAM OF ELECTRICAL SYSTEMS.
 - CONTROL, STOP DRAWINGS AND OPERATING SEQUENCE INCLUDING WIRING OF COMPONENTS.
 - MAINTENANCE DIAGRAM OF CONTROL PANELS.
 - OPERATING INSTRUCTIONS, INCLUDING START-UP AND SHUT-DOWN PROCEDURES.
 - MAINTENANCE INSTRUCTIONS INCLUDING PREVENTIVE MAINTENANCE INSTRUCTIONS FOR COMPONENTS OF THE EQUIPMENT.
 - COMPLETE LIST OF ASSEMBLIES AND THEIR COMPONENT PARTS, SHOWING MANUFACTURER'S NAME, CATALOGUE NUMBER, AND NEAREST REPLACEMENT SOURCE.
 - LIST OF RECOMMENDED SPARE PARTS AND QUANTITY OF EACH ITEM TO BE STOCKED.
 - MANUFACTURER'S WARRANTIES AND GUARANTEES.
 - CLEAN ALL ELECTRICAL SYSTEMS AT PROJECT COMPLETION.
 - COMPLETE AS-BUILT DRAWINGS SHOWING ALL CHANGES AS WORK PROGRESSES.

- 2. CONTRACTOR QUALIFICATIONS**
- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE TRADES QUALIFICATION AND APPRENTICESHIP ACT AND REGULATIONS, BY PERSONS WHO HOLD THE FOLLOWING CERTIFICATES OF QUALIFICATION AS APPLICABLE:
 - ELECTRICIAN, CONSTRUCTION & MAINTENANCE.
 - ALL FIRE ALARM SYSTEM WORK SHALL BE PERFORMED BY PERSONS WHO HOLD ELECTRICIAN QUALIFICATIONS (ABOVE) AND IN ADDITION, WHO HOLD THE FOLLOWING CURRENT REGISTRATION WITH THE CANADIAN FIRE ALARM ASSOCIATION (CFIA):
 - FIRE ALARM TECHNICIAN.

- 3. EXISTING FACILITIES AND DEMOLITION**
- VERIFY AND PROTECT ALL EXISTING UTILITIES AT THE SITE.
 - REMOVE AND PROTECT ALL EXISTING WATER OR SEWER AND BUILDING FABRIC, MAKE GOOD ANY AND ALL DAMAGE RESULTING FROM THE WORK.
 - CONNECTIONS TO EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNERS REPRESENTATIVE WITH LEAST POSSIBLE INTERFERENCE OR DISRUPTION TO NORMAL USE OF THE EXISTING BUILDING.
 - DECONTAMINATED SUBSTANCES:
 - DECONTAMINATED SUBSTANCES SHALL BE TREATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS.
 - IF ANY DECONTAMINATED SUBSTANCES ARE IDENTIFIED IN THE AREA OF CONSTRUCTION, ALL WORK SHALL STOP IMMEDIATELY, AND THE OWNER AND ENGINEER SHALL BE NOTIFIED IMMEDIATELY. IF APPLICABLE, ASSISTED REMOVAL SHALL BE COMPLETED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS. THE DECONTAMINATED SUBSTANCE ASSISTORS ON CONSTRUCTION PROJECTS AND IN BUILDINGS AND REPAIR OPERATIONS.

- 4. FIXTURES AND EQUIPMENT**
- PROVIDE SHOP DRAWINGS AND PRODUCT DATA FOR ALL ELECTRICAL FIXTURES AND EQUIPMENT FOR APPROVAL PRIOR TO PROCUREMENT.
 - INSTALL ALL ELECTRICAL FIXTURES AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 - EQUIPMENT AND MATERIAL TO BE CSA CERTIFIED, WHERE THERE IS NO ALTERNATIVE TO SUPPLYING EQUIPMENT WHICH IS NOT CSA CERTIFIED, OBTAIN SPECIAL APPROVAL FROM ELECTRICAL SAFETY AUTHORITY.

- 5. CONDUITS**
- ELECTRICAL METALLIC TUBING (EMT), NOT DIPPED GALVANIZED STEEL WITH THREADED CONNECTIONS AND COULDNAGE, WHERE NOT SUBJECT TO MECHANICAL INJURY, IN SERVICE AREAS ONLY.
 - RIGID PVC CONDUIT BELOW FLOOR AND IN OCCUPYABLE AREAS.

- 6. WIRES AND CABLE**
- WIRE SIZE:
 - FEEDER CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD.
 - BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% AT DESIGN LOAD.
 - BUILDING WIRES:
 - IN EXPOSED LOCATIONS, IN CONDUIT SYSTEMS TO BE SPANDED COPPER CONDUCTORS FOR 10 AWG AND LARGER, MINIMUM BEET 12 AWG, TYPE RW90.
 - IN CONCEALED LOCATIONS ONLY, MINIMUM SIZE 12 AWG, TYPE RW90.
 - ALL WIRING SHALL BE CONCEALED IN WALLS AND CEILING UNLESS OTHERWISE NOTED OR APPROVED. SURFACE MOUNTED WIRING IS NOT PERMITTED.

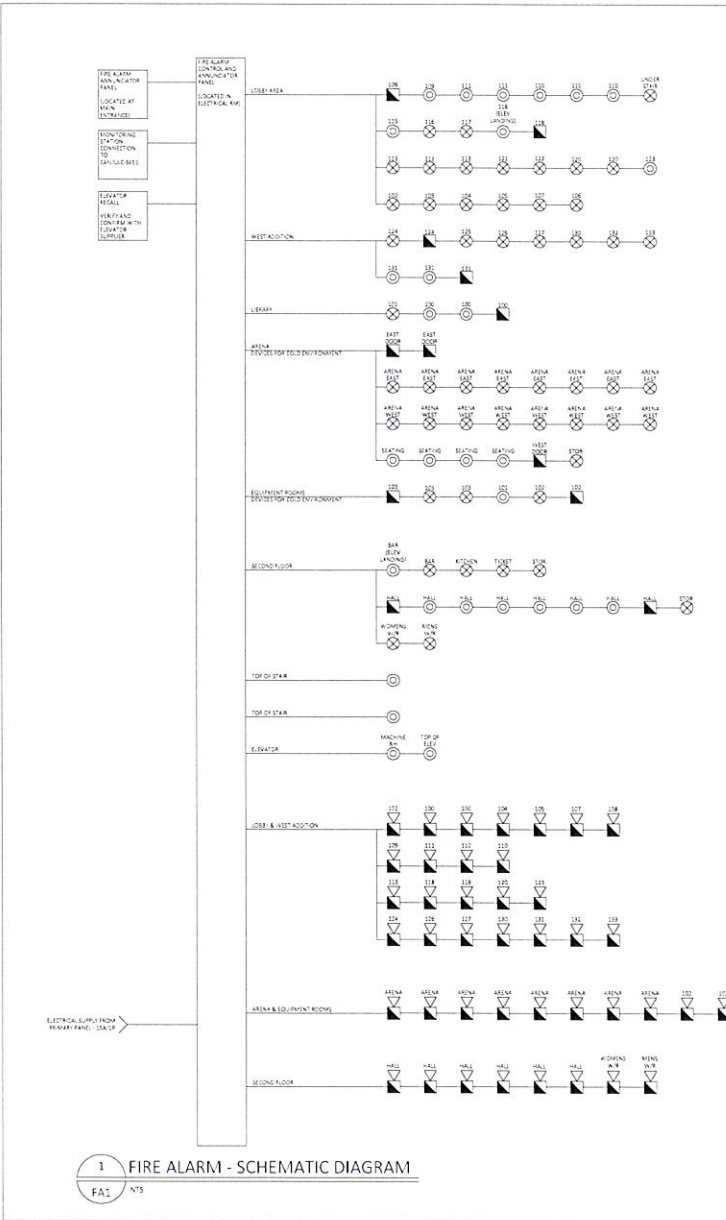
- 7. FIRE ALARM SYSTEM**
- FIRE ALARM SYSTEM VERIFICATION: CONTRACTOR SHALL VISIT THE SITE AND SHALL NOTE ALL AREAS OF DEVICE DEFICIENCY PRIOR TO COMPLETION OF EQUIPMENT AND WIRING WORK.
 - FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH CANULC 5535, "INSTALLATION OF FIRE ALARM SYSTEMS".
 - FIRE ALARM SYSTEM SHALL BE VERIFIED IN ACCORDANCE WITH CANULC 5535, "VERIFICATION OF FIRE ALARM SYSTEMS".
 - FIRE ALARM SYSTEM MONITORING STATION CONNECTION SHALL NOTIFY THE FIRE DEPARTMENT BY WAY OF SIGNAL TO A CENTRAL STATION CONFORMING TO CANULC 5535, "INSTALLATION AND SERVICES FOR FIRE SIGNAL RECEIVING CENTRES AND STATIONS" FOR FIRE ALARM SYSTEM MONITORING, THE CONTRACTOR SHALL:
 - COORDINATE WITH THE OWNER'S MONITORING COMPANY.
 - SUPPLY AND INSTALL COMMUNICATION MODULE REQUIRED FOR MONITORING.
 - SUPPLY AND INSTALL CABLES AND TERMINATION BIDS FROM COMMUNICATION MODULE TO BUILDING TELEPHONE SERVICE SPACE, OR OTHER SERVICE SPACE, AS IDENTIFIED BY THE OWNER'S MONITORING COMPANY.
 - FIRE ALARM SYSTEM SHALL BE PROVIDED WITH AN EMERGENCY POWER SUPPLY, WITH IMMEDIATE AUTOMATIC TRANSFER, IN ACCORDANCE WITH CBC 97.8.
 - FIRE ALARM CONTROL AND ANNUNCIATOR PANEL SHALL HAVE SUFFICIENT POWER FOR UP TO 25% ADDITIONAL ALARMEABLE DEVICES.

- 8. FIRE PROTECTION**
- ALL CABLES AND CONDUIT SHALL BE TIGHTLY FITTED AND SEALED WITH FIRE STOPPING MATERIAL AT ALL WALL AND FLOOR PENETRATIONS.
 - THE FOLLOWING CONDUITS SHALL BE PROTECTED IN ACCORDANCE WITH CBC 97.102, AND SHALL CONFORM TO THE REQUIREMENTS OF THE EVALUATION OF INTEGRITY OF ELECTRICAL CABLES TO PROVIDE A CIRCUIT INTEGRITY RATING OF NOT LESS THAN 1 HOUR (2 HOUR FOR TALL BUILDINGS OR CONTAINED USE AREAS OF HIGH CONCENTRATION OF FLOOR SPACES):
 - BRANCH CIRCUIT CONDUITS WHICH SERVE THE FIRE ALARM SYSTEM.

- 9. EARTHQUAKE LOAD**
- FIRE ALARM SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE EARTHQUAKE LOADS AND EFFECTS REQUIRED BY THE ONTARIO BUILDING CODE.
 - ELECTRICAL ELEMENTS AND COMPONENTS (FIXTURES, EQUIPMENT, CONDUIT, ETC.) AND THEIR CONNECTIONS TO THE BUILDING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CANADIAN STANDARD CANULC 5535, "INSTALLATION OF FIRE ALARM SYSTEMS" AND THE ONTARIO BUILDING CODE.

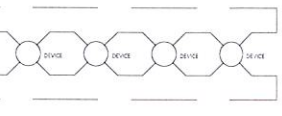
- 10. COORDINATION**
- PROVISIONS INVOLVING ACCURATE DIMENSIONING OF THE BUILDING SHALL BE TAKEN FROM SITES BY CONTRACTOR.
 - DRAWINGS ARE AN ADAPTATION FROM INTEND TO COVER THE SCOPE OF WORK AND GENERAL ARRANGEMENT FOR EQUIPMENT, COORDINATE PHYSICAL LOCATION OF ALL EQUIPMENT WITH OTHER TRADES AND ALLOW FOR ANY ADDITIONAL CONDUIT, WIRING, FITTINGS, SUPPORTS, ETC., IN ORDER TO AVOID INTERFERENCES AND FACILITATE THE WORK.
 - CONTRACTOR TO MAKE ANY NECESSARY MODIFICATIONS OR ADDITIONS, WITHOUT CHARGE, TO ACCOMMODATE SITE CONDITIONS AND COORDINATION.
 - COORDINATE AND VERIFY ALL ELECTRICAL BRANCH CIRCUIT REQUIREMENTS FOR EQUIPMENT SUPPLIED BY OTHERS, PRIOR TO COMMENCEMENT OF INSTALLATION.
 - ALL DEVICE AND OUTLET LOCATIONS SHALL BE CAREFULLY COORDINATED WITH THE GENERAL CONTRACTOR OR OWNER TO ACCOMMODATE ALL FEATURES, INCLUDING PLUMBING FIXTURES, EQUIPMENT AND MILLWORK.

- 11. START-UP, COMMISSIONING AND TRAINING**
- START-UP AND COMMISSIONING THE FOLLOWING SYSTEMS:
 - FIRE ALARM:
 - PERFORM SYSTEMIC TESTS, PROCEDURES AND CHECKS ON SYSTEMS AS FOLLOWS:
 - TO OPERATIONAL IN ACCORDANCE WITH CONTRACT DOCUMENTS, DESIGN CRITERIA AND TESTS AND MANUFACTURER'S REQUIREMENTS.
 - TO ENSURE APPROPRIATE DOCUMENTATION IS PROVIDED.
 - TO DIRECTLY FROM BUILDING OPERATIONAL STAFF.
 - SYSTEMS ARE TO BE OPERATED AT FULL CAPACITY, WITH CORRECTION OF ALL DEFICIENCIES AND ADJUSTMENTS MUST BE OF WORKMANLIKE.
 - PROVIDE WRITTEN REPORT AT END OF COMMISSIONING ON DUTYING EQUIPMENT OPERATIONAL CONDITIONS AND PARAMETERS.



- GENERAL NOTES**
- MAJOR OCCUPANCY CLASSIFICATION (OBC 3.1.2.) GROUP "A" DESCRIPTION - ASSEMBLY.
 - FIRE ALARM SYSTEM TYPE CLASS A ADDRESSABLE SINGLE STAGE.
 - FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH CANULC 5535, "INSTALLATION OF FIRE ALARM SYSTEMS".
 - FIRE ALARM SYSTEM SHALL BE VERIFIED IN ACCORDANCE WITH CANULC 5535-M, "VERIFICATION OF FIRE ALARM SYSTEMS".
 - ACCEPTABLE PRODUCTS: EDWARDS, M'COM, NOTIFIER, SIMPLEX.
 - REFER TO ELECTRICAL NOTES.

ALL WIRING SHALL BE CLASS A, ADDRESSABLE SO THAT AN OPEN CIRCUIT SHALL NOT IMPAIR THE OPERATION OF ANY OTHER DEVICE.



TYPICAL CIRCUIT WIRING DIAGRAM

- LEGEND:**
- HEAT DETECTOR
 - SMOKE DETECTOR
 - PULL STATION
 - FIRE ALARM HORN/STROBE

1 FIRE ALARM - SCHEMATIC DIAGRAM

KEY PLAN

LEGEND:

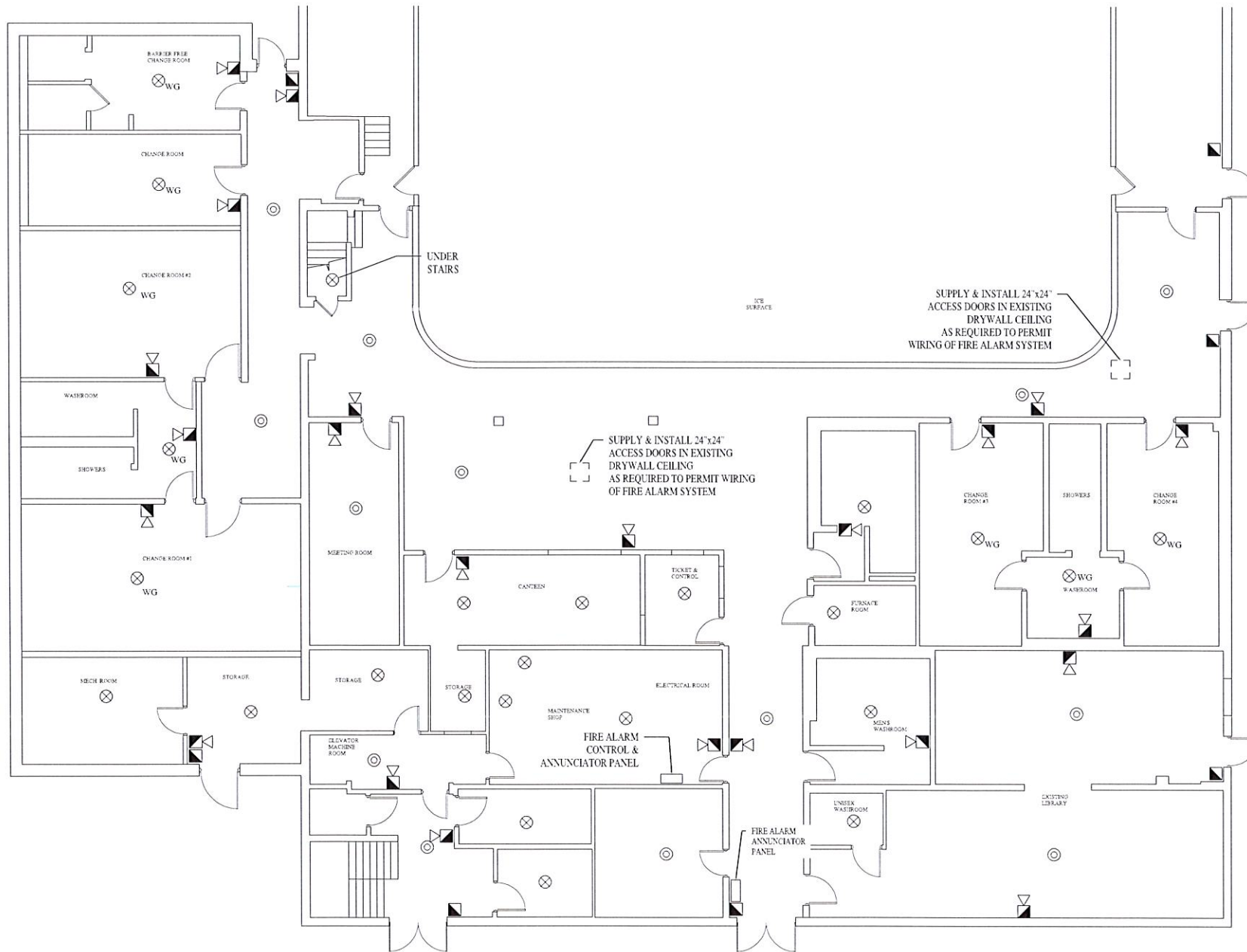
- HEAT DETECTOR
- SMOKE DETECTOR
- PULL STATION
- FIRE ALARM HORN/STROBE

NO.	REVISIONS	BY	DATE
01	ISSUED FOR TENDER	J.P.	2021-01-27
02	ISSUED FOR PERMIT	J.P.	2020-10-30

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MORRIS Engineering Ltd.
Block 10, The Parkway 678-146-0225

CLIENT	NORTH STORMONT TOWNSHIP		
PROJECT	FIRE ALARM SYSTEM 4 JOHN STREET FINCH, ONTARIO		
DRAWING TITLE	GENERAL NOTES & FIRE ALARM SCHEMATIC		
DESIGNED BY	J.P.	CHECKED BY	M.M.
DRAWN BY	M.M.	DATE STARTED	2020-10-14
FILE NO.	200446	DRAWING SHEETS	200446-FA1
REV		REV	01



KEY PLAN
SITE

LEGEND:

- ⊗ HEAT DETECTOR
- ⊙ SMOKE DETECTOR
- PULL STATION
- ▽ FIRE ALARM HORN/STROBE

NO.	REVISIONS	BY	DATE
01	ISSUED FOR TENDER	J.P.	2021-01-27
02	REVISED FOR PERMIT	J.P.	2020-10-30

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N0A 1P6
OFFICE (519) 833-0141

CLIENT: NORTH STORMONT TOWNSHIP

PROJECT: FIRE ALARM SYSTEM
4 JOHN STREET
FINCH, ONTARIO

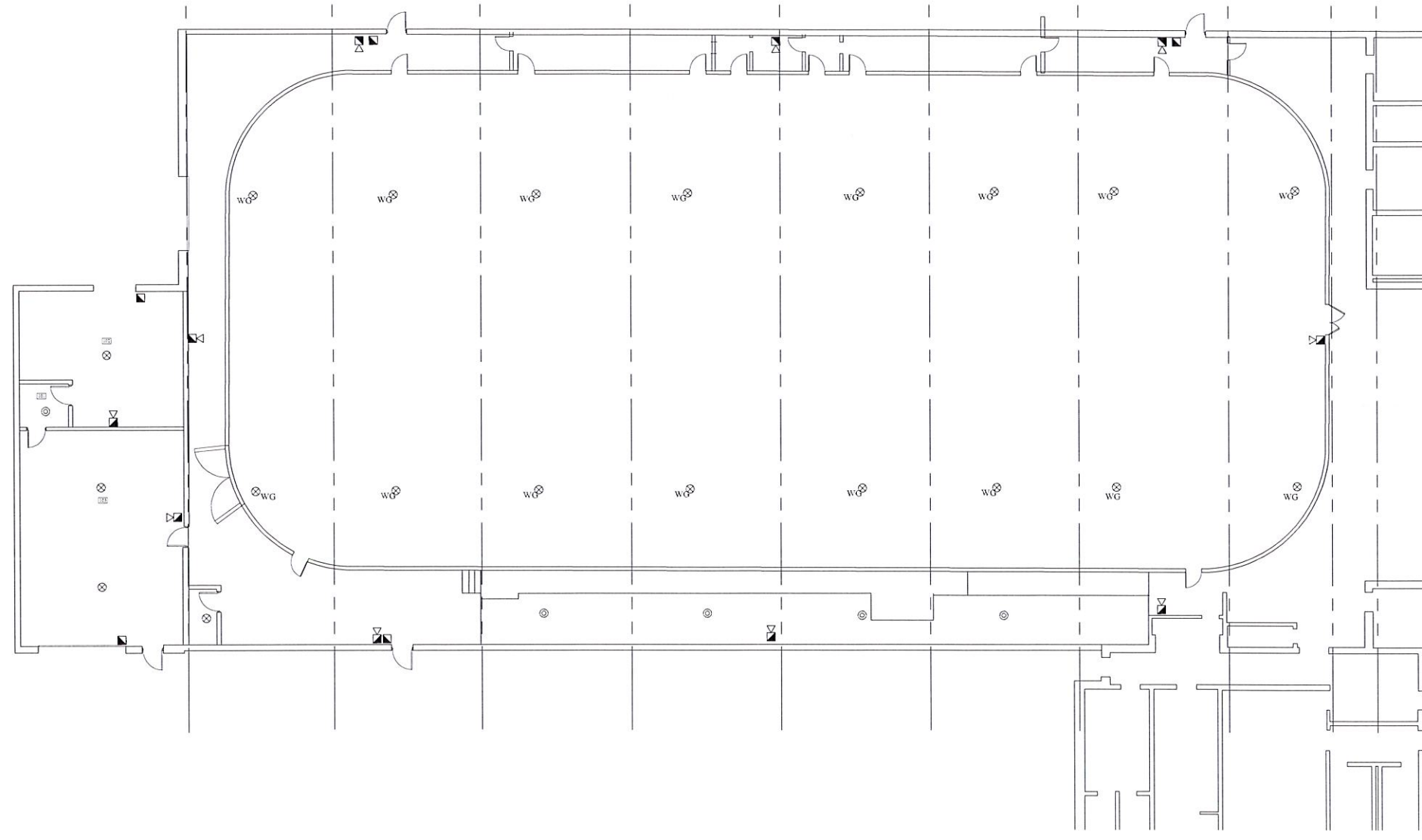
DRAWING TITLE: FIRE ALARM SYSTEM
GROUND FLOOR PLAN - ENTRANCE / LOBBY

DESIGNED BY	DRAWN BY	CHECKED BY	DATE STARTED
M.M.	J.P.	M.M.	2020-10-14

FILE NO.	DRAWING / SHEET NO.	REV.
200446	200446-FA2	01

GROUND FLOOR PLAN - ENTRANCE / LOBBY
SCALE: 3/4" = 1'-0"

M L K J H G F E D C



KEY PLAN
N.T.S.

LEGEND:

- ⊗ HEAT DETECTOR
- ⊙ SMOKE DETECTOR
- ▣ PULL STATION
- ▣ FIRE ALARM HORN/STROBE

01	ISSUED FOR TENDER	J.P.	2021-01-27
02	ISSUED FOR PERMIT	J.P.	2022-10-30
03	REVISIONS	BY	DATE



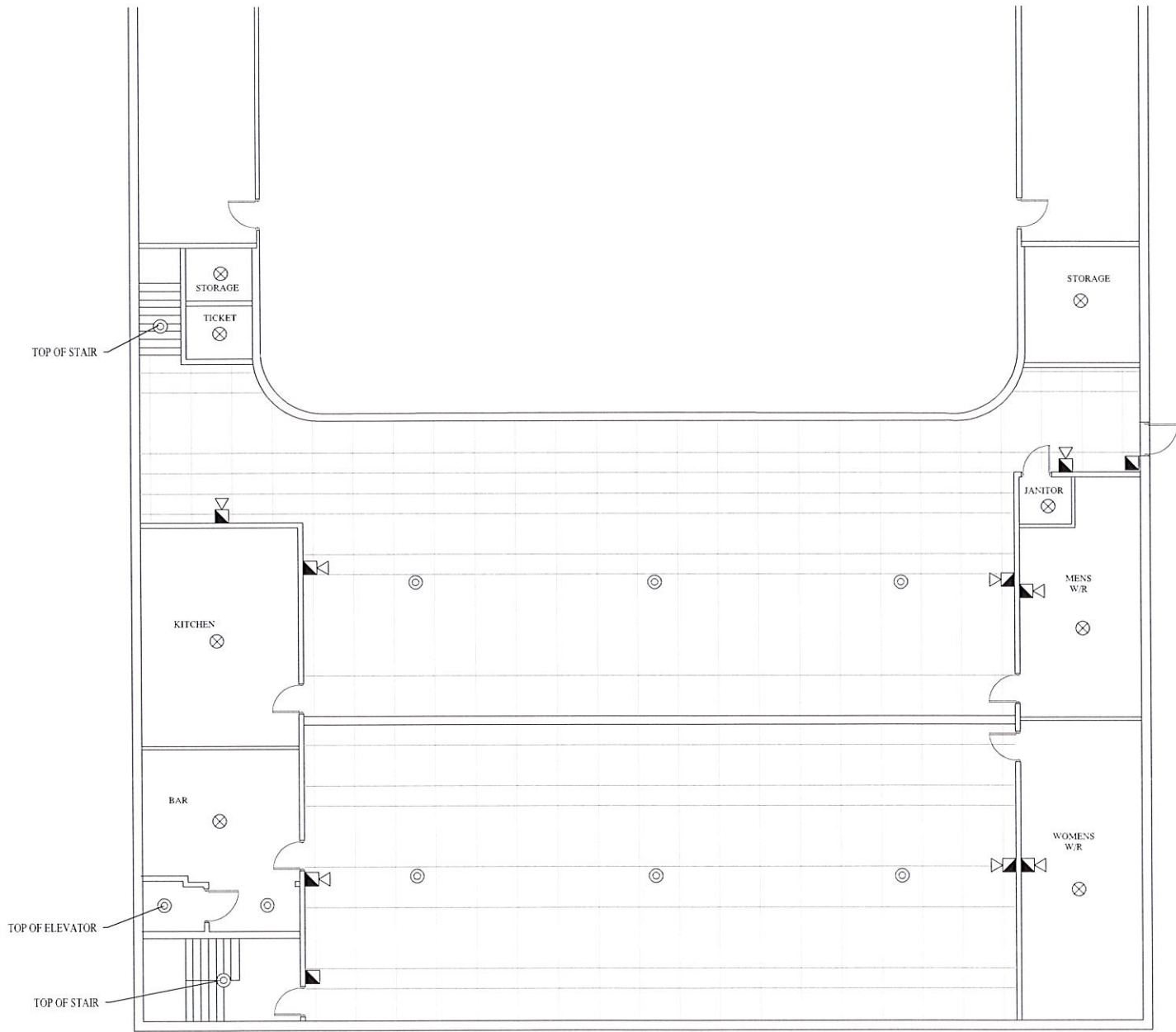
CLIENT: NORTH STORMONT TOWNSHIP

PROJECT: FIRE ALARM SYSTEM
4 JOHN STREET
TINCUP, ONTARIO

DRAWING TITLE: FIRE ALARM SYSTEM
GROUND FLOOR PLAN - ARENA

DESIGNED BY	DRAWN BY	CHECKED BY	DATE STARTED
M.M.	J.P.	M.M.	2020-10-14
FILE NO:	DRAWING SHEET NO.	REV.	
200446	200446-FA3	01	

GROUND FLOOR PLAN - ARENA
SCALE: 1/8" = 1'-0"



SECOND FLOOR PLAN
SCALE: 3/8" = 1'-0"

KEY PLAN
SITE

LEGEND:

- ⊗ HEAT DETECTOR
- ⊙ SMOKE DETECTOR
- ▣ PULL STATION
- ▣ FIRE ALARM HORN/STROBE

No.	REVISIONS	BY	DATE
01	ISSUED FOR TENDER	J.P.	2021-01-27
02	ISSUED FOR PERMIT	J.P.	2020-10-30



CLIENT	NORTH STORMONT TOWNSHIP		
PROJECT	FIRE ALARM SYSTEM 4 JOHN STREET FINCH, ONTARIO		
DRAWING TITLE	FIRE ALARM SYSTEM SECOND FLOOR PLAN		
DESIGNED BY	M.M.	CHECKED BY	M.M.
DRAWN BY	J.P.	DATE STARTED	2020-10-14
FILE NO.	200446	DRAWING SHEET NO.	200446-FA4
		REV	01