



Renfrew

TOWN OF RENFREW
127 Raglan Street South
Renfrew, Ontario
K7V 1P8

Tender 2026-01-LCRS myFM Centre Youth Wellness Hub Nurses Stations

Section I – Information

Background

The Corporation of the Town of Renfrew, hereinafter referred to as the “Town”, is seeking bids from qualified and experienced contractors for the supply of all labour, equipment and materials necessary for renovations within an existing tenant space at the myFM Centre, the Youth Wellness Hub (YWHO), hereinafter referred to as the “Tenant”.

The lowest or any bid will not necessarily be accepted, and the Town reserves the right to award any portion of this Tender. This offer shall be irrevocable for a period ninety (90) calendar days following the date bids are to be received.

The Town of Renfrew, situated along the Bonnechere River in the heart of the Ottawa Valley, both embraces its rich history, and is committed to progress. Less than an hour from the amenities of the Nation’s Capital, the Town offers exceptional educational opportunities, affordable residential prices and a low crime rate coupled with a strong agriculture tradition and presence to satisfy every interest and provide personal growth opportunities for all.

Registration and Communications

It is mandatory that you register as a bidder with the Corporation of the Town of Renfrew. **Failure to register will result in non-acceptance of your submission.**

Please remit Name of Company, Name of Contact Person, and Contact Information to:

Ashley Robertson, Purchasing Assistant, Town of Renfrew

Email: Purchasing@renfrew.ca

All communications must reference **Tender 2026-01-LCRS** in the subject line.

Questions related to this tender, or the requirements are to be received by **2:00 p.m. on, March 2nd, 2026**. Inquiries should be directed to the Municipal Contact listed.

Municipal Contact: Ashley Robertson, Purchasing Assistant, Town of Renfrew

Email: Purchasing@renfrew.ca

Where a bidder finds discrepancies or omissions in the tender requirements or otherwise requires any clarification, the bidder should contact the Corporation of the Town of Renfrew in writing by email as noted above. Where the Corporation of the Town of



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Renfrew deems that an explanation or interpretation is necessary or desirable, an addendum may be issued.

Only documents provided to bidders by the Town or found on Biddingo are to be considered the **official** documents. The Town accepts no responsibility for the accuracy of information found on other websites. The onus is on the bidder to check on the Town's and Biddingo's website to verify they have received all relevant information. The Town reserves the right to not accept a bid submission if determined that the documents have been altered from the Town's own official documents.

Delivery and Closing Time

Tenders must be received no later than **2:00 p.m. March 9th, 2026**. The time clock in the main counter service area in the Renfrew Town Hall Office is the official time for the deadline for submission. The Town is not responsible for submissions which arrive late or are not properly marked.

- (a) All Tenders shall be submitted on the supplied Tender Form, in a sealed envelope and shall be clearly marked as to the contents and bidder's name.
- (b) Tenders received by this time, date and at the location specified above, shall be opened and read in a public opening. The public reading of a submission does not imply any decision by the Corporation of the Town of Renfrew on whether a tender is or is not irregular.
- (c) All Tenders must be completed in full, in ink and be legible.
- (d) The Tenders Document shall not be modified in any way.
- (e) An officer of the company, designating their position shall sign the Tender Form and execute with the company seal. In the case of an individual trading as a company the signature of the person signing the Tender shall be witnessed.
- (f) Late Tenders **will not** be accepted beyond the closing date/time as set out. Tenders received after the established closing will be returned unopened.
- (g) Tenders transmitted by fax or email **will not** be considered.
- (h) **The lowest or any Tender is not necessarily accepted.**
- (i) Should a dispute arise regarding the meaning or intent of the contract documents, the decisions of the Town shall be final.
- (j) The Town of Renfrew will make documents available in an accessible format or via appropriate communication supports upon request.



The Bidder Declares

- a) No person, firm, or corporation, other than the Bidder, has any interest in this Tender in the proposed contract for which this tender is made.
- b) This Tender is made without any connection, comparison of figures or arrangements with or knowledge of any other corporation, firm or person making a tender for the same work and is in all respects fair and without collusion or fraud.
- c) No member of Council and no officer or employee of the Town is or will become interested directly or indirectly as a contracting party, partner, shareholder, surety or otherwise in any portion of the profits thereof, or in any of the monies to be derived there from.

Insurance

The successful bidder shall provide at all times the following insurances with issuers, satisfactory to the Town and in amounts stated below and ensure that such insurance is enforced and effective.

- (a) Workplace Safety & Insurance Board fully complying with the laws of the Province, with a Certificate of Clearance from the Workplace Safety & Insurance Board Independent Owner/Operator Status Form to show that the Bidder is in good standing.
- (b) The successful bidder shall provide the Corporation of the Town of Renfrew with an original Certificate of **Commercial Liability Insurance** in the amount of at least five million dollars (\$5,000,000.00). Coverage should include, but not limited to:
 - Bodily injury and property damage
 - Products and completed operations
 - Non-owned automobile coverage and shall include Contractual non-owned coverage
 - Contractual Liability
 - Cross liability clause
 - Work performed on Behalf of the Named Insured by Sub-Contractors
 - The policy shall provide 30 days prior notice of cancellation
- (c) The successful bidder must be able to provide proof of **Motor Vehicle Liability Insurance** of standard wording, covering motor vehicles owned, leased or operated by or on behalf of the Bidder, in connection with the Services provided or to be provided under this Agreement, with coverage of not less than Two Million (\$2,000,000) Dollars exclusive of interest or costs per occurrence and equipment leased, borrowed, rented or operated;



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i. The successful Bidder shall provide proof of Commercial Liability Insurance and WSIB Clearance to meet the Tender specifications and shall ensure that WSIB Clearance is up to date for the entirety of the contract.

(d) The Contractor's insurance shall name the following as additional named insured:

The Corporation of the Town of Renfrew
127 Raglan Street South,
Renfrew ON, K7V 1P8

Renfrew Victoria Hospital
499 Raglan St N,
Renfrew, ON K7V 1P6

Damages and Responsibilities

(a) The Contractor shall employ such methods as necessary to avoid defacement or damage to the Town's property.

(b) The Contractor shall be responsible for all damage caused by his/her employees, equipment or supplies to the Town's property, equipment, buildings and building contents.

Freedom of Information

All written quotations received by the Town of Renfrew become a **public** record. Once a quotation is accepted and a contract is signed, all information contained in them is available to the **public**, including personal information.



Section II – Tender Specifications

Scope of Work

This work consists of the supply of all labour, equipment and materials necessary for renovations within an existing tenant space at the myFM Centre, the Youth Wellness Hub (YWHO), under the direction of the Tenant and/or if applicable the Director of Library, Community, and Recreation Services, or designate, and as outlined in the drawings and specifications which form part of this document. Structural changes need to be completed, inspected, and signed by March 31st, 2026.

Summary of work:

- New door and walls to create a new office within existing room.
- Modifications to mechanical and electrical and data services to suit the new layout.
- Eye wash station.
- New millwork complete with new sink.
- Clean-up of site and removal and disposal of all construction debris.

Any required drawings and permits will be the responsibility of the successful bidder/contractor.

It is also understood that the Bidder/Contractor will include the cost of any required steps or work required, that is not listed, but needed to reach the summary of work, as outlined.

As per the Tenants lease agreement, “all further renovations, improvements, fixtures, installations, alterations and additions to the Premises are the sole responsibility of the Tenant” at no cost to the Town.

Drawing List

The following is a list of drawings, which accompany these specifications, and which form part of the Contract Documents for the work.

- A0 SPECIFICATIONS
- A00 SPECIFICATIONS
- A1 PARTIAL GROUND AND SECOND FLOOR PLANS
- A2 PARTIAL SECOND FLOOR PLAN, ELEVATIONS AND MILLWORK SECTIONS
- A3 PARTIAL GROUND AND SECOND FLOOR FIRE RATING PLANS
- M0.1 MECHANICAL DRAWING LIST, LEGENDS AND GENERAL NOTES



- M1.1 MECHANICAL FIRE PROTECTION SECOND FLOOR
- M2.1 MECHANICAL PLUMBING GROUND & SECOND FLOOR
- M3.1 MECHANICAL HVAC - SECOND FLOOR REMOVALS
- M3.2 MECHANICAL HVAC - SECOND FLOOR NEW WORK
- E1 ELECTRICAL LEGENDS, KEY PLANS AND PANEL SCHEDULE
- E2 ELECTRICAL SPECIFICATIONS
- E3 LIGHTING AND FIRE ALARM - DEMOLITION WORK AND NEW WORK
- E4 POWER AND SYSTEMS - DEMOLITION WORK, NEW WORK AND DETAILS

Schedule

The total project should commence upon award of tender and be **completed by March 31, 2026**.

Inspection

The Town reserves the right to:

- (a) Inspect all work performed by the Bidder under this Tender.
- (b) Shut down any operation, which gives an indication of poor workmanship or substandard materials being supplied under this Tender.
- (c) Refuse acceptance of workmanship until it is proven to be of a satisfactory quality.

Materials

- (a) Materials and equipment shall be supplied by the Contractor.

Labour

- (a) All work shall be performed by workers who are qualified and skilled to carry out and perform the duties required in the Contract and applicable training and certification in accordance with all provincial Ministry of Labour and Health and Safety legislation and standards

Supervision and Coordination

- (a) The Contractor shall appoint an experienced Supervisor to be responsible for all the work required under the Contract.



- (b) The Supervisor shall be readily accessible to the Town personnel at all times.
- (c) The Contractor shall supervise and coordinate all phases of the Work and shall cooperate fully with all supervisory representatives of the Town during the performance of the Work of this Contract.

Commencement and Termination

- (a) The Contractor shall commence work on the date stated in the Agreement as agreed upon by the Contractor and the Owner and shall continue for the period of time designated therein unless terminated in accordance with the provisions of this Contract.
- (b) The Town reserves the right to terminate the Contract upon giving seven (7) days written notice to the Contractor if it deems the services of the contractor are no longer required.
- (c) The Town reserves the right to terminate the Contract upon giving seven (7) days written notice to the Contractor in the event of the Contractor neglecting or failing to perform the work properly or diligently.

Change In the Work

- (a) The Town, without invalidating the Contract, may make changes by altering, adding to, or deducting from the Work. All additional work shall be executed under the conditions of this Contract.
- (b) No variations from the work that may result in a change to the amount of the Contract shall be proceeded with, until proper approval has been obtained by the Contractor in writing from the Tenant and Town.

Miscellaneous

The Contractor and support staff should be prepared to make presentations to Town of Renfrew management, elected officials, and the general public, if required.

Site visits must be requested in advance and will be scheduled based on facility operating restrictions. Organized tours/briefings will be scheduled.

Verbal information, directions, and opinions, from whatever source, do not supersede nor elaborate on the requirements of this document. Changes in specifications and requirements (if required) will be provided in writing to all proponents by the contact identified above, in the form of a numbered addendum.



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Delivery and Official Closing Time of Proposals

All submissions shall be in a sealed envelope with covering pages (*Mailing Label*) supplied by the Town and delivered to:

Town of Renfrew (Town Hall)
Attention: Ashley Robertson, Purchasing Assistant
127 Raglan Street South
Renfrew, Ontario
K7V 1P8

Tender submissions must be received not later than: **2:00 p.m. March 9th, 2026.**

The time clock at the main counter service area in the Renfrew Town Hall shall be the official time for the submission deadline. The Corporation of the Town of Renfrew is not responsible for submissions which arrive late or are not properly marked. Submissions shall be officially opened after closing time.

Timeline

The expected timeline for selection is as follows:

Task	Target Date
Tender Issued	February 23, 2026
Question Deadline	March 2, 2026
Town Published Addendum (if applicable)	March 4, 2026
Closing date for Tender Submissions	March 9, 2026
Anticipated Award (on or about)	March 10, 2026



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Section III - Form of Tender

Company Information

1.	Company Name	
2.	Bidder Contact Individual	
3.	Address (incl. Postal Code)	
4.	Office Phone Number	
5.	Cellular Phone Number	
6.	Fax Number	
7.	Email Address	
8.	HST Account Number	

I/We hereby submit the attached documents to satisfy the requirements as issued by the Corporation of the Town of Renfrew.

I/We agree that we have reviewed and understand the tender documents and I/We are capable and qualified to perform the requirements of the contract.

I/We agree that this offer shall be irrevocable from the time the quotations are opened and extended for a period of 90 days.

I/We agree that this offer acknowledges all addenda and that the pricing quoted includes the provision set out in such addenda.

Acknowledgement to Receipt of Addenda

This will acknowledge receipt of the following addenda and, that the pricing quoted includes the provision set out in such addendum(s)

Addendum #	Date Received
# _____	_____
# _____	_____
# _____	_____

Check here if No Addenda considered.



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Bid Form

The Bidder offers to provide the services detailed within the Tender package and identified specifications, and as further detailed in the Bidder's proposal, to the acceptance of the Corporation of the Town of Renfrew for the following Upset Cost Limit.

Overall Project Quotation

Description:	Cost:
Bid Price (as specified) No HST	\$
HST	\$
Total Price	\$

- Quotes shall include expected delivery date and schedule.
- Quotes shall include all associated costs including freight and delivery.

Bid Submission

The undersigned affirms that they are duly authorized to execute this bid and that all costs associated with this proposal have been submitted in the fee envelope.

BIDDER'S SIGNATURE AND SEAL: _____

NAME AND POSITION: _____

WITNESS SIGNATURE: _____

NAME AND POSITION: _____

DATED AT: _____

THIS _____ DAY OF _____ 202__

Basis of Payment

The contract price is in Canadian funds, and the price includes any specified cash and contingency allowances and all the applicable taxes in force at this date except as may be otherwise provided in the Tender Documents.

The Contractor shall invoice the Tenant, **Renfrew Victoria Hospital, Attn: Gregory McLeod.**

The Bidder shall invoice the tenant for work completed accordance with the terms of the contract. Payment shall be made, based on the Contractor submitting a "proper invoice" as defined in the Construction Act and verified by the Tenant.



Form of Agreement

Tender 2026-01-LCRS - myFM Centre YWHO Nurses Station Form of Agreement

This agreement is made in triplicate this _____ day of _____, 202__.

BETWEEN: _____

Hereinafter referred to as the 'VENDOR', the Tenant, YOUTH WELLNESS HUB, Hereinafter referred to as the 'TENANT', and THE CORPORATION OF THE TOWN OF RENFREW, Hereinafter referred to as the 'TOWN'.

WHEREAS the Town wishes to have the VENDOR supply of all labour, equipment and materials necessary for renovations within an existing tenant space at the myFM Centre, the Youth Wellness Hub (YWHO).

NOW THEREFORE the parties agree as follows:

1. The TOWN has accepted the VENDOR'S bid of _____ incl. taxes. As per the request for proposal, no increase in the amount invoiced is permitted after the awarding of the contract.
2. An invoice for the accepted contract amount can be sent to the TENANT once all required work is complete and delivered as deemed by the TENANT.
3. All deliveries included in the contract must be completed no later than the 31st day of MARCH, 2026.
4. If, at any time, the VENDOR is prevented from performing any obligation under this Agreement by reason of strike, lockout, riot, fire, hurricane, flood, invasion, explosion, act of God, war, legal acts of the public authorities, or any other cause beyond the VENDOR'S control, then the VENDOR shall not be required to perform such obligation during such time. The VENDOR will exercise its best attempt to overcome the cause of prevention as expeditiously as possible.
5. The TOWN shall indemnify and hold harmless, the VENDOR, its directors, officers, shareholders, agents, and employees from all claim demands for loss, damage, or injury to property or persons, including loss of life, caused by, or resulting from, any works under this Agreement, or the installation, maintenance, or operation thereof, except to the extent that such loss, damage, or injury is caused or contributed to by the negligence of the VENDOR or any of its officers, servants, or agents.
6. Under no circumstances will the VENDOR be liable to the TOWN for any loss of profit, indirect, special, or consequential damages.
7. The VENDOR shall indemnify and hold harmless, the TOWN from all claims or demands for loss, damage, or injury to property or persons, including loss of life,



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caused by, or resulting from, the negligence of the VENDOR or any of its officers, servants, or agents.

- 8. Proof of appropriate insurance, certificates, and WSIB clearance shall be provided the TOWN **prior to** commencement of the work.
- 9. The RFT documents shall be included as part of the contract.

IN WITNESS WHEREOF the TOWN, TENANT and the VENDOR has caused this Agreement to be executed by the signatures below.

Town of Renfrew

Date

Name:

Town of Renfrew

Date

Name:

Tenant

Date

Name:

VENDOR

Date

Name:

Tender 2026-01-LCRS – myFM Centre YWHO Nurses Stations

From: _____

Contact: _____

Telephone: _____

Deliver to:

**The Town of Renfrew
127 Raglan Street South
Renfrew, ON K7V 1P8
Attention: Ashley Robertson, Purchasing Assistant**

Tender Number:

Closing Date and Time:

Description:

06 41 00 - ARCHITECTURAL WOODWORK

PART 1 GENERAL
1. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL CONDITIONS.
2. REFER TO APPENDIX A - MATERIAL SELECTION PLASTIC LAMINATE "PL-2", WOOD, ETC.

SUMMARY OF WORK
1. WORK INCLUDING:
- THE WORK OF THIS SECTION INCLUDES THE PROVISION OF ALL LABOUR, MATERIAL, EQUIPMENT AND SERVICES REQUIRED TO FABRICATE AND INSTALL ARCHITECTURAL WOODWORK, CABINETS AS INDICATED ON THE DRAWING, AS SPECIFIED HEREIN AND AS REQUIRED FOR A COMPLETE PROJECT.

RELATED SECTIONS
1. 06 10 10 HYGIENIC SOLID SURFACES
2. 07 10 00 JOINT SEALANTS
3. 08 10 15 CABINET & MISCELLANEOUS HARDWARE
4. 09 91 00 PAINTING
5. DIVISION 22 - PLUMBING
6. DIVISION 28 - ELECTRICAL

REFERENCES
1. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, OR CALLED FOR IN THIS SPECIFICATION, ALL MILLWORK CONSTRUCTION SHALL COMPLY WITH ARCHITECTURAL WOODWORK MANUFACTURERS ASSOCIATION OF CANADA - LATEST EDITION, CUSTOM GRADE STANDARDS FOR FLUSH OVERLAY CASEWORK, PART 300.

DEFINITIONS
1. PLYWOOD: LAYERS OR PILES OF WOOD VENEER, PERMANENTLY BONDED TOGETHER IN PANELS WITH THE GRAIN OF EACH LAYER AT 90 DEGS. TO ADJACENT LAYERS. THE OUTER PILES ARE CALLED FACE OF BOARD, THE INNER PILES ARE CALLED THE "CORE". THE TERM "PLYWOOD" AS USED IN THIS SPECIFICATION, DOES NOT INCLUDE ASSEMBLIES MANUFACTURED WITH PARTICLE BOARD, HARDBOARD OR FIBRE BOARD CORES.

QUALITY ASSURANCE
1. WORK OF THIS SECTION SHALL BE PERFORMED BY A CUSTOM WOOD CASEWORK FABRICATOR WITH A MINIMUM OF 5 YEARS OF DOCUMENTED AND ACCEPTABLE EXPERIENCE IN THE FABRICATION AND INSTALLATION OF HOSPITAL CASEWORK. SUBMIT PROOF OF EXPERIENCE UPON REQUEST OF CONSULTANT, IN ACCORDANCE WITH REQUIREMENTS OF DIVISION 01

SUBMITTALS
1. SHOP DRAWINGS
1. SUBMIT SHOP DRAWINGS TO INCLUDE COMPLETE DIMENSIONED DRAWINGS OF EACH CASEWORK AND MILLWORK ITEM, INCLUDING LOCATIONS OF ON-SITE JOINTS IN CONNECTION WITH DETAILS OF CONSTRUCTION, PROFILES, JOINTING, FASTENING AND OTHER RELATED DETAILS.

RELATED SECTIONS
1. 06 41 00 ARCHITECTURAL WOODWORK
2. 07 10 00 JOINT SEALANTS
3. MECHANICAL DRAWINGS, SINK AND FAUCET

REFERENCES
1. ISSFA-2, "CLASSIFICATION AND STANDARDS PUBLICATION OF SOLID SURFACING MATERIALS"
2. ANSI Z37.4 FOR VANITIES
3. NSF STANDARDS 51 FOR USE IN SPLASH AREAS
4. CANADIAN STANDARDS ASSOCIATION (CSA)
5. ASTM G21 "FUNGAL RESISTANCE": METHOD (A) (B), NO GROWTH
6. ASTM G22 "BACTERIAL RESISTANCE": NO GROWTH
7. STAIN RESISTANCE, ANSI Z124-6.5-2 1997
8. ASTM E84-14 STANDARD TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS
9. CANULC-S102-07 STANDARD METHOD OF TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS AND ASSEMBLIES
10. UL2824 GREENGUARD CERTIFICATION PROGRAM, METHOD FOR MEASURING MICROBIAL RESISTANCE FROM VARIOUS SOURCES USING STATIC ENVIRONMENTAL CHAMBERS
11. UL2824 MICROBIAL RESISTANCE

DESIGN REQUIREMENTS
1. DESIGN LOAD: DEFLECTION LIMITED TO 1/360
2. DESIGN ITEMS WITH SUFFICIENT STRENGTH FOR HANDLING STRESSES
3. ACCESSIBLE DESIGN: COMPLY WITH AODA
4. NON-POROUS, HOMOGENEOUS MATERIAL MAINTAINING THE SAME COMPOSITION THROUGHOUT THE PART WITH A COMPOSITION OF ACRYLIC POLYMER, ALUMINUM TRIHYDRATE FILLER AND PIGMENT; NOT COATED, LAMINATED OR OF COMPOSITE CONSTRUCTION, MEETING FOLLOWING CRITERIA:
- ENSURE MATERIALS USED COMPLY WITH REQUIREMENTS OF ASTM E84, NFPA 255, UL 723 AND CANULC S102-AS FOLLOWS:
- FLAME SPREAD <25
- SMOKE DEVELOPMENT <25

ADHESIVE FOR BONDING TO OTHER PRODUCTS: ONE COMPONENT SILICONE TO ASTM C920. SEALANT: A STANDARD MILDEW-RESISTANT, FDAUL RECOGNIZED SILICONE COLOUR COORDINATED SEALANT OR CLEAR SILICONE SEALANT
ENSURE SURFACES DO NOT PREVENT USE OF ELECTRONIC DEVICES THAT ARE FUNCTION WITH OPTICAL OR TACTILE SENSORS.

SUBMITTALS
1. SHOP DRAWINGS INDICATING MATERIAL CHARACTERISTICS, DETAILS OF CONSTRUCTION, CONNECTIONS, AND RELATIONSHIP WITH ADJACENT CONSTRUCTION.
1. INDICATE PLANS, SECTIONS, DIMENSIONS, COMPONENT SIZES, EDGE DETAILS AND FABRICATION DETAILS
2. SHOW LOCATIONS AND SIZE OF CUTOUTS, HOLES FOR PLUMBING FIXTURES AND FAUCET
3. FIELD MEASUREMENTS: TAKE FIELD MEASUREMENTS PRIOR TO FABRICATION OF SHOP DRAWINGS AND FABRICATION TO ENSURE PROPER FITTING OF WORK. DO NOT FABRICATE WORK UNLESS SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.

MAINTENANCE DATA
1. PROVIDE MAINTENANCE DATA FOR THE POLYMER SCREEN MATERIAL FOR INCORPORATION INTO THE OPERATION AND MAINTENANCE MANUAL, CLOSEOUT SUBMITTALS.

QUALITY ASSURANCE
1. QUALIFICATIONS:
- MANUFACTURERS: PROVIDE PRODUCTS FOR WORK OF THIS SECTION BY MANUFACTURERS WITH MINIMUM OF 10 YEARS EXPERIENCE IN THE MANUFACTURE OF SUCH MATERIAL.
2. INSTALLERS: PROVIDE WORK OF THIS SECTION EXECUTED BY COMPETENT INSTALLERS WITH A MINIMUM OF 5 YEARS EXPERIENCE IN THE APPLICATION OF PRODUCTS, SYSTEMS AND ASSEMBLIES SPECIFIED AND WITH APPROVAL AND TRAINING OF THE PRODUCT MANUFACTURERS.

WARRANTY
1. MANUFACTURER WARRANTY: PROVIDE MANUFACTURER'S STANDARD WARRANTY FOR MATERIAL ONLY FOR PERIOD OF 10 YEARS AGAINST DEFECTS AND/OR DEFICIENCIES. PROMPTLY CORRECT AND DEFECTS OR DEFICIENCIES WHICH BECOME APPARENT WITH WARRANTY PERIOD, TO SATISFACTION OF CONSULTANT AND AT NO EXPENSE TO OWNER.

PART 2 PRODUCTS
1. MANUFACTURER LIST: PRODUCTS OF FOLLOWING MANUFACTURERS ARE ACCEPTABLE SUBJECT TO CONFORMANCE TO REQUIREMENTS OF DRAWINGS, SCHEDULES AND SPECIFICATIONS:
CORIAN by DuPont, www.corian.com OR EQUAL, TO, SUBMIT SAMPLES.

02 10 00 - BUILDING INSULATION
ACUSTIC INSULATION:
1. STANDARD OF ACCEPTANCE: ROCKWOOL SAFE 'N' SOUND

WALL INSULATION EXECUTION:
1. INSTALL INSULATION IN STRICT ACCORDANCE WITH THE INSULATION MANUFACTURER'S WRITTEN INSTRUCTIONS, TO MAINTAIN CONTINUITY OF THERMAL, ACOUSTICAL AND FIRE PROTECTION TO BUILDING ELEMENTS AND SPACES.
2. PROVIDE CONTINUOUS SEALANT ALONG EDGE COUNTER AND SPLASH BACKS WITH ADJACENT WALLS AND RABBED COUNTER UNIT. REFER TO MILLWORK ELEVATIONS ON DRAWING A2.

ACCESSORIES
1. SEALANT CAULKING OF BACK OF COUNTERTOPS AT WALLS AND LOW TO HIGH COUNTER UNITS: ONE-COMPONENT, MILDEW RESISTANT SEALANT COMPOUND. COLOUR TO MATCH ADJACENT MATERIALS OR CLEAR TO THE APPROVAL OF THE CONSULTANT.

FABRICATION OF LAMINATED PLASTIC-FACED WORK
1. SHOP INSTALL CABINET HARDWARE FOR DOORS, SHELVES AND DRAWERS AND RECEIVED SHELF STANDARDS.
2. SHELVES IN CABINETWORK TO BE ADJUSTABLE UNLESS OTHERWISE NOTED.
3. SHOP ASSEMBLE WORK FOR DELIVERY TO SITE IN EASILY HANDLED SIZES AND TO ENSURE PASSAGE THROUGH BUILDING OPENINGS.
4. ENSURE ADJACENT PARTS OF CONTINUOUS LAMINATE WORK MATCH IN COLOUR AND PATTERN.
5. VENEER LAMINATED PLASTIC TO CORE MATERIAL IN ACCORDANCE WITH ADHESIVE MANUFACTURER'S INSTRUCTIONS. ENSURE CORE AND LAMINATED PROFILES COINCIDE TO PROVIDE CONTINUOUS SUPPORT AND BOND OVER ENTIRE SURFACE. USE CONTINUOUS LENGTHS UP TO 2400mm.
6. USE STRAIGHT SELF-EDGING LAMINATED STRIP FOR FLATWORK TO COVER EXPOSED EDGE OF CORE MATERIAL. CHAMFER EXPOSED EDGES UNIFORMLY AT APPROXIMATELY 20 DEGREES. DO NOT MITRE LAMINATE EDGES.

06 41 00 - ARCHITECTURAL WOODWORK

PART 2 PRODUCTS - (CONT'D)

RELATED PLASTIC APPLICATION
1. COMPLY WITH CAN3-A72, APPENDIX "A".
2. ENSURE ADJACENT PARTS OF CONTINUOUS LAMINATE WORK MATCH IN COLOUR AND CORRECT ANY DEFICIENCIES.
3. VENEER LAMINATED PLASTIC TO CORE MATERIAL IN ACCORDANCE WITH ADHESIVE MANUFACTURER'S INSTRUCTIONS. ENSURE CORE AND LAMINATE PROFILES COINCIDE TO PROVIDE CONTINUOUS SUPPORT AND BOND OVER ENTIRE SURFACE. USE CONTINUOUS LENGTHS UP TO 3m (10'-0"). KEEP JOINTS 600mm (2'-0") FROM LAVATORY OR SINK CUTOUTS.
4. WHERE NOT OTHERWISE INDICATED, USE STRAIGHT SELF-EDGING LAMINATE STRIP FOR FLATWORK TO COVER EXPOSED EDGE OF CORE MATERIAL.
5. APPLY LAMINATE BACKING SHEET TO REVERSE SIDE OF CORE OF PLASTIC LAMINATE WORK.
6. APPLY LAMINATE PLASTIC LINER SHEET TO INTERIOR OF CABINetry AND WHERE INDICATED.

CABINET HARDWARE
1. REFER TO SECTION 08 10 15, CABINET & MISCELLANEOUS HARDWARE.

PART 3 EXECUTION
INSTALLATION OF MANUFACTURED UNITS (CASEWORK), VANITIES, SINK, SHELF AND OTHER ITEMS.
1. DO ARCHITECTURAL WOODWORK TO QUALITY STANDARDS OF THE ARCHITECTURAL WOODWORK MANUFACTURERS ASSOCIATION OF CANADA (AWMAC).
2. INSTALL PREFINISHED MILLWORK AT LOCATION SHOWN ON DRAWINGS. POSITION ACCURATELY, LEVEL, PLUMB AND STRAIGHT.
3. FASTEN AND ANCHOR MILLWORK SECURELY. PROVIDE HEAVY DUTY FIXTURE ATTACHMENTS FOR WALL MOUNTED CABINET.
4. INSTALL HARDWARE TO STANDARD HARDWARE LOCATION DIMENSIONS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND TO PROJECT DESIGN REQUIREMENTS.
5. ADJUST CABINET HARDWARE FOR OPTIMUM, SMOOTH OPERATING CONDITION.
6. ADJUST CABINET DOOR HARDWARE TO PROVIDE TIGHT FIT AT CONTACT POINTS WITH FRAMES.
7. EXPOSED FASTENING DEVICES TO MATCH FINISH OF HARDWARE.
8. USE DRAW BOLTS IN COUNTERTOP JOINTS.
9. AT JUNCTION OF COUNTER, BACK SPLASH AND ADJACENT WALL FINISH, APPLY SMALL BEAD OF SEALANT.
10. FIT HARDWARE ACCURATELY AND SECURELY IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

PROTECTION
1. PROTECT INSTALLED WORK FROM DAMAGE.

CLEANING
1. UPON COMPLETION OF THE INSTALLATION, REMOVE FROM THE PREMISES ALL SURPLUS MATERIAL, DIRT AND DEBRIS CAUSED BY THE WORK OF THIS SECTION AND LEAVE THE INSTALLATION CLEAN AND READY FOR THE INTENDED USE BY THE OWNER.

06 61 10 - HYGIENIC SOLID SURFACES

PART 1 GENERAL
RELATED SECTIONS:
1. 06 41 00 ARCHITECTURAL WOODWORK
2. 07 10 00 JOINT SEALANTS
3. MECHANICAL DRAWINGS, SINK AND FAUCET

REFERENCES
1. ISSFA-2, "CLASSIFICATION AND STANDARDS PUBLICATION OF SOLID SURFACING MATERIALS"
2. ANSI Z37.4 FOR VANITIES
3. NSF STANDARDS 51 FOR USE IN SPLASH AREAS
4. CANADIAN STANDARDS ASSOCIATION (CSA)
5. ASTM G21 "FUNGAL RESISTANCE": METHOD (A) (B), NO GROWTH
6. ASTM G22 "BACTERIAL RESISTANCE": NO GROWTH
7. STAIN RESISTANCE, ANSI Z124-6.5-2 1997
8. ASTM E84-14 STANDARD TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS
9. CANULC-S102-07 STANDARD METHOD OF TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS AND ASSEMBLIES
10. UL2824 GREENGUARD CERTIFICATION PROGRAM, METHOD FOR MEASURING MICROBIAL RESISTANCE FROM VARIOUS SOURCES USING STATIC ENVIRONMENTAL CHAMBERS
11. UL2824 MICROBIAL RESISTANCE

DESIGN REQUIREMENTS
1. DESIGN LOAD: DEFLECTION LIMITED TO 1/360
2. DESIGN ITEMS WITH SUFFICIENT STRENGTH FOR HANDLING STRESSES
3. ACCESSIBLE DESIGN: COMPLY WITH AODA
4. NON-POROUS, HOMOGENEOUS MATERIAL MAINTAINING THE SAME COMPOSITION THROUGHOUT THE PART WITH A COMPOSITION OF ACRYLIC POLYMER, ALUMINUM TRIHYDRATE FILLER AND PIGMENT; NOT COATED, LAMINATED OR OF COMPOSITE CONSTRUCTION, MEETING FOLLOWING CRITERIA:
- ENSURE MATERIALS USED COMPLY WITH REQUIREMENTS OF ASTM E84, NFPA 255, UL 723 AND CANULC S102-AS FOLLOWS:
- FLAME SPREAD <25
- SMOKE DEVELOPMENT <25

ADHESIVE FOR BONDING TO OTHER PRODUCTS: ONE COMPONENT SILICONE TO ASTM C920. SEALANT: A STANDARD MILDEW-RESISTANT, FDAUL RECOGNIZED SILICONE COLOUR COORDINATED SEALANT OR CLEAR SILICONE SEALANT
ENSURE SURFACES DO NOT PREVENT USE OF ELECTRONIC DEVICES THAT ARE FUNCTION WITH OPTICAL OR TACTILE SENSORS.

SUBMITTALS
1. SHOP DRAWINGS INDICATING MATERIAL CHARACTERISTICS, DETAILS OF CONSTRUCTION, CONNECTIONS, AND RELATIONSHIP WITH ADJACENT CONSTRUCTION.
1. INDICATE PLANS, SECTIONS, DIMENSIONS, COMPONENT SIZES, EDGE DETAILS AND FABRICATION DETAILS
2. SHOW LOCATIONS AND SIZE OF CUTOUTS, HOLES FOR PLUMBING FIXTURES AND FAUCET
3. FIELD MEASUREMENTS: TAKE FIELD MEASUREMENTS PRIOR TO FABRICATION OF SHOP DRAWINGS AND FABRICATION TO ENSURE PROPER FITTING OF WORK. DO NOT FABRICATE WORK UNLESS SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.

MAINTENANCE DATA
1. PROVIDE MAINTENANCE DATA FOR THE POLYMER SCREEN MATERIAL FOR INCORPORATION INTO THE OPERATION AND MAINTENANCE MANUAL, CLOSEOUT SUBMITTALS.

QUALITY ASSURANCE
1. QUALIFICATIONS:
- MANUFACTURERS: PROVIDE PRODUCTS FOR WORK OF THIS SECTION BY MANUFACTURERS WITH MINIMUM OF 10 YEARS EXPERIENCE IN THE MANUFACTURE OF SUCH MATERIAL.
2. INSTALLERS: PROVIDE WORK OF THIS SECTION EXECUTED BY COMPETENT INSTALLERS WITH A MINIMUM OF 5 YEARS EXPERIENCE IN THE APPLICATION OF PRODUCTS, SYSTEMS AND ASSEMBLIES SPECIFIED AND WITH APPROVAL AND TRAINING OF THE PRODUCT MANUFACTURERS.

WARRANTY
1. MANUFACTURER WARRANTY: PROVIDE MANUFACTURER'S STANDARD WARRANTY FOR MATERIAL ONLY FOR PERIOD OF 10 YEARS AGAINST DEFECTS AND/OR DEFICIENCIES. PROMPTLY CORRECT AND DEFECTS OR DEFICIENCIES WHICH BECOME APPARENT WITH WARRANTY PERIOD, TO SATISFACTION OF CONSULTANT AND AT NO EXPENSE TO OWNER.

PART 2 PRODUCTS
1. MANUFACTURER LIST: PRODUCTS OF FOLLOWING MANUFACTURERS ARE ACCEPTABLE SUBJECT TO CONFORMANCE TO REQUIREMENTS OF DRAWINGS, SCHEDULES AND SPECIFICATIONS:
CORIAN by DuPont, www.corian.com OR EQUAL, TO, SUBMIT SAMPLES.

02 10 00 - BUILDING INSULATION

ACUSTIC INSULATION:
1. STANDARD OF ACCEPTANCE: ROCKWOOL SAFE 'N' SOUND

WALL INSULATION EXECUTION:
1. INSTALL INSULATION IN STRICT ACCORDANCE WITH THE INSULATION MANUFACTURER'S WRITTEN INSTRUCTIONS, TO MAINTAIN CONTINUITY OF THERMAL, ACOUSTICAL AND FIRE PROTECTION TO BUILDING ELEMENTS AND SPACES.
2. PROVIDE CONTINUOUS SEALANT ALONG EDGE COUNTER AND SPLASH BACKS WITH ADJACENT WALLS AND RABBED COUNTER UNIT. REFER TO MILLWORK ELEVATIONS ON DRAWING A2.

ACCESSORIES
1. SEALANT CAULKING OF BACK OF COUNTERTOPS AT WALLS AND LOW TO HIGH COUNTER UNITS: ONE-COMPONENT, MILDEW RESISTANT SEALANT COMPOUND. COLOUR TO MATCH ADJACENT MATERIALS OR CLEAR TO THE APPROVAL OF THE CONSULTANT.

FABRICATION OF LAMINATED PLASTIC-FACED WORK
1. SHOP INSTALL CABINET HARDWARE FOR DOORS, SHELVES AND DRAWERS AND RECEIVED SHELF STANDARDS.
2. SHELVES IN CABINETWORK TO BE ADJUSTABLE UNLESS OTHERWISE NOTED.
3. SHOP ASSEMBLE WORK FOR DELIVERY TO SITE IN EASILY HANDLED SIZES AND TO ENSURE PASSAGE THROUGH BUILDING OPENINGS.
4. ENSURE ADJACENT PARTS OF CONTINUOUS LAMINATE WORK MATCH IN COLOUR AND PATTERN.
5. VENEER LAMINATED PLASTIC TO CORE MATERIAL IN ACCORDANCE WITH ADHESIVE MANUFACTURER'S INSTRUCTIONS. ENSURE CORE AND LAMINATED PROFILES COINCIDE TO PROVIDE CONTINUOUS SUPPORT AND BOND OVER ENTIRE SURFACE. USE CONTINUOUS LENGTHS UP TO 2400mm.
6. USE STRAIGHT SELF-EDGING LAMINATED STRIP FOR FLATWORK TO COVER EXPOSED EDGE OF CORE MATERIAL. CHAMFER EXPOSED EDGES UNIFORMLY AT APPROXIMATELY 20 DEGREES. DO NOT MITRE LAMINATE EDGES.

07 84 00 - FIRE STOPPING

PART 1 GENERAL
RELATED DOCUMENTS:
1. DRAWING PACKAGE, COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS.
2. REFER TO DRAWING A3 FOR EXISTING GROUND FLOOR AND SECOND FLOOR FIRE RATING PLAN AND OTHER DEFICIENCIES.
3. AS INDICATED ON DRAWING A3 PROVIDE SEALED PENETRATIONS THROUGH EXISTING 2nd SECOND FLOOR SLAB ASSEMBLY.

COORDINATION:
1. ALL COMMON INSTALLATIONS THAT MAY BE ADDRESSED BY DIFFERENT TRADES, I.E. TYPICAL SERVICE PENETRATIONS, JOINTS, ETC. ARE TO BE COMPRISED OF MATERIALS BY THE SAME MANUFACTURER.

SUMMARY OF WORK
RELATED SECTIONS:
1. 09 21 16 GYPSUM BOARD ASSEMBLIES
2. FIRE STOPPING AND SMOKE SEALS WITH MECHANICAL AND ELECTRICAL INSTALLATIONS ARE BY THE MECHANICAL AND ELECTRICAL TRADES.

SUBMITTALS:
1. PRODUCT DATA:
- PROVIDE COMPLETE PRODUCT DATA FOR EACH PRODUCT.
- INCLUDE INSTALLATION INSTRUCTIONS FOR EACH PRODUCT.
- INCLUDE MANUFACTURER'S SAFETY DATA SHEETS FOR THE SAFE HANDLING OF THE SPECIFIED MATERIALS AND PRODUCTS, IN ACCORDANCE WITH WORKPLACE HAZARDOUS MATERIALS INFORMATION SERVICES (WHMIS) REQUIREMENTS.
2. SAMPLES:
- SUBMIT SAMPLES OF EACH MATERIAL OR COMBINATION OF MATERIALS PROPOSED FOR USE.
3. SOURCE QUALITY CONTROL:
- PROVIDE TEST REPORTS CERTIFYING COMPLIANCE OF EACH PROPOSED MATERIAL OR COMBINATION OF MATERIALS WITH THE SPECIFICATIONS REQUIREMENTS.

PART 2 PRODUCTS
MATERIALS
1. FIRE STOPPING AND SMOKE SEAL SYSTEM: IN ACCORDANCE WITH CAN-M-S115, ASBESTOS-FREE MATERIALS AND SYSTEMS CAPABLE OF MAINTAINING AN EFFECTIVE BARRIER AGAINST FLAME, SMOKE AND GASES IN COMPLIANCE WITH REQUIREMENTS OF CAN4-S115 AND NOT TO EXCEED OPENING SIZES FOR WHICH THEY ARE INTENDED.
2. SERVICE PENETRATION ASSEMBLIES: CERTIFIED BY UL/C IN ACCORDANCE WITH CAN-M-S115 AND CANULC-S101-04.
3. FIRE-RESISTANCE RATING OF INSTALLED FIRE STOPPING ASSEMBLY SHALL NOT BE LESS THAN THE FIRE-RESISTANCE RATING OF THE SURROUNDING WALL AND WALL ASSEMBLY.
4. FIRE STOPPING AND SMOKE SEALS AT OPENINGS AROUND CABLES AND CONDUITS: ELASTOMERIC SEAL.
5. FIRE STOPPING AND SMOKE SEAL AT OPENINGS AROUND PENETRATIONS FOR PIPES, DUCTWORK AND OTHER MECHANICAL ITEMS REQUIRE SOUND AND VIBRATION CONTROL: ELASTOMERIC SEAL.

EXAMINATION
1. EXAMINE AREAS AND CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND NOTIFY THE CONSULTANT IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.
2. FOR EXTERIOR SEALANTS, ARRANGE FOR A TECHNICAL REPRESENTATIVE OF THE MANUFACTURER TO CONDUCT ADHESION TESTS FOR EACH JOINT CONDITION AND TO MAKE RECOMMENDATIONS WITH RESPECT TO SEALANT TYPE, PRIMERS (IF REQUIRED) AND JOINT PREPARATION. DO NOT PROCEED WITH THE MANUFACTURER'S RECOMMENDATIONS WITHOUT PRIOR WRITTEN APPROVAL.
3. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED TO THE SATISFACTION OF THE INSTALLER.
4. COMMENCEMENT OF THE WORK OF THIS SECTION WILL BE CONSTRUED AS ACCEPTANCE OF THE SITE CONDITIONS AND, THEREAFTER, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR SATISFACTORY WORK AS SPECIFIED HEREIN.

SEALANT APPLICATION
1. CAULK ALL JOINTS BETWEEN DISSIMILAR MATERIALS
2. APPLY CAULKING AROUND THE PERIMETER OF EVERY EXTERNAL WALL OPENING, BOTH SIDES
3. PROVIDE INTERIOR CAULKING IN WALLS, FLOOR FINISHES AROUND ALL METAL FRAMES, DOORS FRAMES, ACCESS PANELS, BUILT-IN SPECIALTIES, AROUND PIPES, DUCTS, GRILLES, OUTLET BOXES, CONDUITS, ETC. PENETRATING FLOORS, WALL AND CEILING.
4. APPLY EXTERIOR ACRYLIC LATEX CAULKING AROUND WOOD TRIM AND WIRE SMOOTH PRIOR TO PAINTING.
5. CAULK THE CONNECTION BETWEEN THE TOPS OF WALLS AND STRUCTURE ABOVE, WHEREVER EXPOSED TO SIGHT.

08 11 13 - STEEL DOOR FRAMES
PART 1 GENERAL
RELATED SECTIONS:
1. 07 92 00 JOINT SEALANTS
2. 08 14 00 FLUSH WOOD DOORS
3. 08 71 00 DOOR HARDWARE
4. 09 21 16 GYPSUM BOARD ASSEMBLIES
5. 09 91 00 PAINTING

REFERENCES
1. CANADIAN STEEL DOOR AND FRAME MANUFACTURERS ASSOCIATION (CSDPMA)
2. ARCHITECTURAL SPECIFICATION MANUAL, SAFETY DATA FOR SAFE HANDLING OF THE SPECIFIED MATERIALS AND PRODUCTS, IN ACCORDANCE WITH WORKPLACE MATERIALS INFORMATION SERVICES (WHMIS)
3. MASTER PAINTING INSTITUTE (MPI)
4. ARCHITECTURAL SPECIFICATION MANUAL, 2010 (REFERRED TO HEREIN AS "MPI MANUAL")
5. MPI APPROVED PRODUCT LIST, (REFERRED TO HEREIN AS "MPI APL")

SUBMITTALS
1. SHOP DRAWINGS
1. INDICATE EACH TYPE OF DOOR, SIZE, MATERIAL, CORE THICKNESS, MORTISES, REINFORCEMENTS, LOCATION OF EXPOSED FASTENERS AND ARRANGEMENT OF HARDWARE
2. INDICATE EACH TYPE FRAME, ELEVATION, PROFILE, MATERIAL, CORE THICKNESS, REINFORCEMENTS, LOCATION OF ANCHORS AND EXPOSED FASTENING AND FINISHES.
3. INCLUDE A SCHEDULE WHICH IDENTIFIES EACH UNIT, WITH DOOR MARKS AND NUMBERS WHICH CLEARLY CORRESPOND TO THE ROOM NUMBERING SYSTEM USED ON THE ARCHITECTURAL DRAWINGS.
4. PROVIDE CONDUITS AND BOXES FOR HARDWARE THAT REQUIRES POWER.

PRODUCT DATA
1. PROVIDE PRODUCT DATA
2. INCLUDE INSTALLATION INSTRUCTIONS FOR DOORS AND FRAMES
3. INCLUDE MANUFACTURER'S MATERIAL SAFETY DATA FOR SAFE HANDLING OF THE SPECIFIED MATERIALS AND PRODUCTS, IN ACCORDANCE WITH WORKPLACE MATERIALS INFORMATION SERVICES (WHMIS)

WARRANTY
1. FRAMES AND HARDWARE SHALL BE WARRANTED AGAINST MANUFACTURING DEFECTS FOR A PERIOD OF THREE (3) YEARS FROM THE DATE OF SUBSTANTIAL PERFORMANCE, WHERE DEFECTS OCCUR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS, INCLUDING PAINTING (DOOR FRAME), PAINTING, HANGING AND INSTALLING HARDWARE, ASSOCIATED WITH REPLACING THE DEFECTIVE DOORS AND HARDWARE.

PART 2 PRODUCTS
PRODUCTS
1. STEEL COMMERCIAL GRADE (A01), TO ASTM A 633A 653M W/PE COAT GALVANIZED STEEL, COATING DESIGNATION Z70F (A01), MINIMUM BASE STEEL THICKNESS UNLESS OTHERWISE NOTED.
2. FRAMES: 1.6 mm (1/16 ga.)
3. REINFORCEMENTS:
- LOCK AND STRIKES REINFORCEMENTS: 1.6mm (1/16 ga.)
- HINGE REINFORCEMENTS: 3.4 mm (1/8 ga.)

ACCESSORIES
1. ANCHORS: AS REQUIRED TO SUIT EACH SPECIFIC CONDITION.
2. TOUCH UP PRIMER: FOR GALVANIZED STEEL SHEET, TO CAN/CSB 1.181.
3. DOOR SILENCERS: SINGLE STUD RUBBERNEOPRENE TYPE, 3 PER DOOR.
4. OTHER COMPONENTS: PROVIDE OTHER DOOR AND FRAME COMPONENTS IN ACCORDANCE WITH CSDPMA REQUIREMENTS.

FABRICATION OF FRAMES
1. DOORS SHALL BE SWING-TYPE UNLESS OTHERWISE NOTED AND FLUSH
2. PROVIDE REINFORCEMENT AND DRILL HOLES IN THE LOCATIONS AND DIAMETERS REQUIRED IN ACCORDANCE WITH HARDWARE REQUIREMENTS AND TEMPLATES. REFER TO SECTION 08 71 00 "DOOR HARDWARE"
3. TOUCH UP FINISH DAMAGED DURING FABRICATION WITH ZINC-RICH PRIMER AND LEAVE ALL SURFACES READY TO RECEIVE PAINT FINISH BY SECTION 09 91 00 "PAINTING"
4. FRAMES TO BE CONTINUOUSLY WELDED CONSTRUCTION. SPOT WELDED OR KNOCKDOWN FRAMES ARE UNACCEPTABLE.
5. CUT MITRES AND JOINTS ACCURATELY AND WELD CONTINUOUSLY ON INSIDE OF FRAME PROFILE, ACCURATELY COPE AND SECURELY WELD BOLT JOINTS OF MULLIONS
6. GRIND WELDED JOINTS TO A FLAT PLANE. FILL WITH METALLIC PASTE FILLER AND SAND TO UNIFORM SMOOTH FINISH.
7. CONCEAL FASTENINGS EXCEPT WHERE EXPOSED FASTENINGS ARE INDICATED.
8. PROTECT MORTISE CUT-OUTS WITH STEEL GAUGE BOXES.
9. PROTECT STRIKE AND HINGE REINFORCEMENTS USING GUARD BOXES WELDED TO FRAMES.
10. SECURELY ATTACH FLOOR ANCHORS TO THE INSIDE OF EACH JAMB PROFILE.
11. WELD IN TWO TEMPORARY JAMB SPREADERS PER FRAME TO MAINTAIN PROPER ALIGNMENT DURING SHIPMENT.
12. PROVIDE FOR APPROPRIATE ANCHORAGE TO FLOOR AND WALL CONSTRUCTION. LOCATE EACH WALL ANCHOR IMMEDIATELY ABOVE EACH HINGE REINFORCEMENT ON THE HINGE JAMB AND DIRECTLY OPPOSITE ON THE STRIKE JAMB. FOR REBATE OPENING HEIGHTS UP TO AND INCLUDING 1520 MM PROVIDE TWO ANCHORS, AND AN ADDITIONAL ANCHOR FOR EACH ADDITIONAL 760 MM OF HEIGHT OR FRACTION THEREOF, EXCEPT AS INDICATED BELOW. PROVIDE SINGLE STUD RUBBER DOOR SILENCERS. INSTALL THREE ON STRIKE JAMB FOR EACH SINGLE DOOR.

PART 3 INSTALLATION
INSTALLATION
1. INSTALL DOORS AND HARDWARE IN ACCORDANCE WITH HARDWARE TEMPLATES AND MANUFACTURER'S INSTRUCTIONS AND SECTION 08 71 10 "DOOR HARDWARE"
2. PROVIDE EVEN MARGINS BETWEEN DOORS AND JAMBS AND DOORS AND FINISHED FLOOR AND THRESHOLDS AS FOLLOWS.
(1) HINGE SIDE: 1.0mm
(2) LATCH SIDE AND HEAD: 1.5mm
(3) FINISHED FLOOR:
(a) GENERALLY: 13mm
(b) DOORS IDENTIFIED AS UNDERCUT, 25mm
3. ADJUST OPERABLE PARTS FOR SMOOTH, CORRECT FUNCTION.

CONTRACTOR'S WARRANTY
1. FOR THE WORK OF THIS SECTION, THE 12-MONTHS WARRANTY PERIOD PRESCRIBED IN THE GENERAL CONDITIONS OF THE CONTRACT IS EXTENDED TO FIVE (5) YEARS.
2. IN ADDITION TO THE 5-YEAR WARRANTY SPECIFIED ABOVE, PROVIDE A MANUFACTURER'S WARRANTY FOR SILICONE SEALANTS FOR A PERIOD OF TWENTY (20) YEARS.
3. WARRANT THAT CAULKING WORK WILL NOT LEAK, CRACK, CRUMBLE, MELT, SHRINK, BUBBLE, RUN, LOSE ADHESION OR STAIN ADJACENT SURFACES.

07 92 00 - JOINT SEALANTS

PART 1 GENERAL - (CONT'D)

MANUFACTURER'S WARRANTY
1. UPON COMPLETION, ARRANGE FOR INSPECTION OF EXTERIOR SEALANT WORK BY A TECHNICAL REPRESENTATIVE OF THE SEALANT MANUFACTURER.
2. CORRECT ANY DEFICIENCIES.
3. ARRANGE FOR THE ISSUANCE OF THE MANUFACTURER'S TWENTY (20) YEAR MATERIALS WARRANTY FOR EXTERIOR SEALANTS.

SEALANTS
SEALANT TYPES
1. INTERIOR DOOR FRAMES, WINDOWS, ANCHORS DRYWALL AND WHERE APPROPRIATE, SEALANT IS CALLED FOR SEAL ALL GAPS AND OPENINGS ON ONE SIDE OF EACH PARTITION IN CEILING PLENUM. STANDARD: ASTM E1399, CANULC-S115M, CANULC-S101M ACCEPTABLE PRODUCT: TREMSTOP ACRYLIC PAINTABLE LATEX SEALANT.
2. EXTERIOR MOVEMENT CAPABILITY: >50% MANUFACTURER TO RECOMMEND TYPE C OR D FOR SPECIFIC APPLICATION. NOTE THAT TYPE C HAS A LIMITED COLOUR RANGE.
1. TYPE C: ONE-PART, NEUTRAL CURE SILICONE SEALANT STANDARD: ASTM C920, TYPE S GRADE NS CLASS 50 USE INT. G. A. ACCEPTABLE PRODUCT: DOW CORNING 791 SILICONE WEATHERPROOFING SEALANT.
2. TYPE D: ONE-PART, NEUTRAL-CURE, MEDIUM MODULUS, ARCHITECTURAL GRADE, SILICONE SEALANT STANDARDS: ASTM C920, TYPE S GRADE NS CLASS 50 USE INT. G. A. ACCEPTABLE PRODUCT: DOW CORNING 795 SILICONE BUILDING SEALANT.

FINISHES:
SEALANT FOR CAULKING COUNTERTOPS AT WALL, CERAMIC TILE, PLUMBING FIXTURES AND IN WET AREAS WHERE NOT OTHERWISE SPECIFIED ONE-PART, ACRYLIC CURE, MILDEW-RESISTANT, SILICONE SEALANT FOR NON-POROUS SUBSTRATES MOVEMENT CAPABILITY: >25% ACCEPTABLE PRODUCT: DOW CORNING TUB, TILE & CERAMIC SILICONE SEALANT.

PART 3 EXECUTION
EXAMINATION
1. EXAMINE AREAS AND CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND NOTIFY THE CONSULTANT IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.
2. FOR EXTERIOR SEALANTS, ARRANGE FOR A TECHNICAL REPRESENTATIVE OF THE MANUFACTURER TO CONDUCT ADHESION TESTS FOR EACH JOINT CONDITION AND TO MAKE RECOMMENDATIONS WITH RESPECT TO SEALANT TYPE, PRIMERS (IF REQUIRED) AND JOINT PREPARATION. DO NOT PROCEED WITH THE MANUFACTURER'S RECOMMENDATIONS WITHOUT PRIOR WRITTEN APPROVAL.
3. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED TO THE SATISFACTION OF THE INSTALLER.
4. COMMENCEMENT OF THE WORK OF THIS SECTION WILL BE CONSTRUED AS ACCEPTANCE OF THE SITE CONDITIONS AND, THEREAFTER, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR SATISFACTORY WORK AS SPECIFIED HEREIN.

SEALANT APPLICATION
1. CAULK ALL JOINTS BETWEEN DISSIMILAR MATERIALS
2. APPLY CAULKING AROUND THE PERIMETER OF EVERY EXTERNAL WALL OPENING, BOTH SIDES
3. PROVIDE INTERIOR CAULKING IN WALLS, FLOOR FINISHES AROUND ALL METAL FRAMES, DOORS FRAMES, ACCESS PANELS, BUILT-IN SPECIALTIES, AROUND PIPES, DUCTS, GRILLES, OUTLET BOXES, CONDUITS, ETC. PENETRATING FLOORS, WALL AND CEILING.
4. APPLY EXTERIOR ACRYLIC LATEX CAULKING AROUND WOOD TRIM AND WIRE SMOOTH PRIOR TO PAINTING.
5. CAULK THE CONNECTION BETWEEN THE TOPS OF WALLS AND STRUCTURE ABOVE, WHEREVER EXPOSED TO SIGHT.

08 11 13 - STEEL DOOR FRAMES
PART 1 GENERAL
RELATED SECTIONS:
1. 07 92 00 JOINT SEALANTS
2. 08 14 00 FLUSH WOOD DOORS
3. 08 71 00 DOOR HARDWARE
4. 09 21 16 GYPSUM BOARD ASSEMBLIES
5. 09 91 00 PAINTING

REFERENCES
1. CANADIAN STEEL DOOR AND FRAME MANUFACTURERS ASSOCIATION (CSDPMA)
2. ARCHITECTURAL SPECIFICATION MANUAL, SAFETY DATA FOR SAFE HANDLING OF THE SPECIFIED MATERIALS AND PRODUCTS, IN ACCORDANCE WITH WORKPLACE MATERIALS INFORMATION SERVICES (WHMIS)
3. MASTER PAINTING INSTITUTE (MPI)
4. ARCHITECTURAL SPECIFICATION MANUAL, 2010 (REFERRED TO HEREIN AS "MPI MANUAL")
5. MPI APPROVED PRODUCT LIST, (REFERRED TO HEREIN AS "MPI APL")

SUBMITTALS
1. SHOP DRAWINGS
1. INDICATE EACH TYPE OF DOOR, SIZE, MATERIAL, CORE THICKNESS, MORTISES, REINFORCEMENTS, LOCATION OF EXPOSED FASTENERS AND ARRANGEMENT OF HARDWARE
2. INDICATE EACH TYPE FRAME, ELEVATION, PROFILE, MATERIAL, CORE THICKNESS, REINFORCEMENTS, LOCATION OF ANCHORS AND EXPOSED FASTENING AND FINISHES.
3. INCLUDE A SCHEDULE WHICH IDENTIFIES EACH UNIT, WITH DOOR MARKS AND NUMBERS WHICH CLEARLY CORRESPOND TO THE ROOM NUMBERING SYSTEM USED ON THE ARCHITECTURAL DRAWINGS.
4. PROVIDE CONDUITS AND BOXES FOR HARDWARE THAT REQUIRES POWER.

PRODUCT DATA
1. PROVIDE PRODUCT DATA
2. INCLUDE INSTALLATION INSTRUCTIONS FOR DOORS AND FRAMES
3. INCLUDE MANUFACTURER'S MATERIAL SAFETY DATA FOR SAFE HANDLING OF THE SPECIFIED MATERIALS AND PRODUCTS, IN ACCORDANCE WITH WORKPLACE MATERIALS INFORMATION SERVICES (WHMIS)

WARRANTY
1. FRAMES AND HARDWARE SHALL BE WARRANTED AGAINST MANUFACTURING DEFECTS FOR A PERIOD OF THREE (3) YEARS FROM THE DATE OF SUBSTANTIAL PERFORMANCE, WHERE DEFECTS OCCUR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS, INCLUDING PAINTING (DOOR FRAME), PAINTING, HANGING AND INSTALLING HARDWARE, ASSOCIATED WITH REPLACING THE DEFECTIVE DOORS AND HARDWARE.

PART 2 PRODUCTS
PRODUCTS
1. STEEL COMMERCIAL GRADE (A01), TO ASTM A 633A 653M W/PE COAT GALVANIZED STEEL, COATING DESIGNATION Z70F (A01), MINIMUM BASE STEEL THICKNESS UNLESS OTHERWISE NOTED.
2. FRAMES: 1.6 mm (1/16 ga.)
3. REINFORCEMENTS:
- LOCK AND STRIKES REINFORCEMENTS: 1.6mm (1/16 ga.)
- HINGE REINFORCEMENTS: 3.4 mm (1/8 ga.)

ACCESSORIES
1. ANCHORS: AS REQUIRED TO SUIT EACH SPECIFIC CONDITION.
2. TOUCH UP PRIMER: FOR GALVANIZED STEEL SHEET, TO CAN/CSB 1.181.
3. DOOR SILENCERS: SINGLE STUD RUBBERNEOPRENE TYPE, 3 PER DOOR.
4. OTHER COMPONENTS: PROVIDE OTHER DOOR AND FRAME COMPONENTS IN ACCORDANCE WITH CSDPMA REQUIREMENTS.

FABRICATION OF FRAMES
1. DOORS SHALL BE SWING-TYPE UNLESS OTHERWISE NOTED AND FLUSH
2. PROVIDE REINFORCEMENT AND DRILL HOLES IN THE LOCATIONS AND DIAMETERS REQUIRED IN ACCORDANCE WITH HARDWARE REQUIREMENTS AND TEMPLATES. REFER TO SECTION 08 71 00 "DOOR HARDWARE"
3. TOUCH UP FINISH DAMAGED DURING FABRICATION WITH ZINC-RICH PRIMER AND LEAVE ALL SURFACES READY TO RECEIVE PAINT FINISH BY SECTION 09 91 00 "PAINTING"
4. FRAMES TO BE CONTINUOUSLY WELDED CONSTRUCTION. SPOT WELDED OR KNOCKDOWN FRAMES ARE UNACCEPTABLE.
5. CUT MITRES AND JOINTS ACCURATELY AND WELD CONTINUOUSLY ON INSIDE OF FRAME PROFILE, ACCURATELY COPE AND SECURELY WELD BOLT JOINTS OF MULLIONS
6. GRIND WELDED JOINTS TO A FLAT PLANE. FILL WITH METALLIC PASTE FILLER AND SAND TO UNIFORM SMOOTH FINISH.
7. CONCEAL FASTENINGS EXCEPT WHERE EXPOSED FASTENINGS ARE INDICATED.
8. PROTECT MORTISE CUT-OUTS WITH STEEL GAUGE BOXES.
9. PROTECT STRIKE AND HINGE REINFORCEMENTS USING GUARD BOXES WELDED TO FRAMES.
10. SECURELY ATTACH FLOOR ANCHORS TO THE INSIDE OF EACH JAMB PROFILE.
11. WELD IN TWO TEMPORARY JAMB SPREADERS PER FRAME TO MAINTAIN PROPER ALIGNMENT DURING SHIPMENT.
12. PROVIDE FOR APPROPRIATE ANCHORAGE TO FLOOR AND WALL CONSTRUCTION. LOCATE EACH WALL ANCHOR IMMEDIATELY ABOVE EACH HINGE REINFORCEMENT ON THE HINGE JAMB AND DIRECTLY OPPOSITE ON THE STRIKE JAMB. FOR REBATE OPENING HEIGHTS UP TO AND INCLUDING 1520 MM PROVIDE TWO ANCHORS, AND AN ADDITIONAL ANCHOR FOR EACH ADDITIONAL 760 MM OF HEIGHT OR FRACTION THEREOF, EXCEPT AS INDICATED BELOW. PROVIDE SINGLE STUD RUBBER DOOR SILENCERS. INSTALL THREE ON STRIKE JAMB FOR EACH SINGLE DOOR.

PART 3 INSTALLATION
INSTALLATION
1. INSTALL DOORS AND HARDWARE IN ACCORDANCE WITH HARDWARE TEMPLATES AND MANUFACTURER'S INSTRUCTIONS AND SECTION 08 71 10 "DOOR HARDWARE"
2. PROVIDE EVEN MARGINS BETWEEN DOORS AND JAMBS AND DOORS AND FINISHED FLOOR AND THRESHOLDS AS FOLLOWS.
(1) HINGE SIDE: 1.0mm
(2) LATCH SIDE AND HEAD: 1.5mm
(3) FINISHED FLOOR:
(a) GENERALLY: 13mm
(b) DOORS IDENTIFIED AS UNDERCUT, 25mm
3. ADJUST OPERABLE PARTS FOR SMOOTH, CORRECT FUNCTION.

08 14 16 - FLUSH WOOD DOORS

PART 1 GENERAL
RELATED SECTIONS
1. 08 11 13 STEEL DOOR FRAMES
2. 08 71 00 DOOR HARDWARE
3. 09 21 16 GYPSUM BOARD ASSEMBLIES
4. 09 91 00 PAINTING

REFERENCES
1. ARCHITECTURAL WOODWORK MANUFACTURERS ASSOCIATION OF CANADA (AWMAC)
1. ARCHITECTURAL WOODWORK STANDARDS, 1st EDITION, 2009 (REFERRED TO HEREINAFTER AS "AWM")
2. CANADIAN GENERAL SPECIFICATION BOARD (CGSB)
1. CAN/CSB8-11.3-M87, HARDBOARD
3. DOOR AND HARDWARE INSTITUTE (DHI)
1. ANSID/IH A115-IG-1994, INSTALLATION GUIDE FOR DOOR AND HARDWARE

SUBMITTALS
1. SHOP DRAWINGS
1. INDICATE EACH DOOR TYPE, SIZE, MATERIAL, CORE THICKNESS, FINISH,

08 70 15 - CABINET AND MISCELLANEOUS HARDWARE

PART 2 PRODUCTS - (CONTD)

HARDWARE ITEMS

- 2 CABINET DOOR HINGES: ALL METAL, CONCEALED CASEWORK HINGES WITH CRUCIFORM MOUNTING PLATES TO PROVIDE GAP, DEPTH AND HEIGHT ADJUSTMENT. FULL OVERLAY AND HALF OVERLAY AS REQUIRED. MINIMUM 170 DEG. OPENING. FINISH: BRIGHT NICKEL, C14. PROVIDE ONE SELF-CLOSING AND ONE FREE-SWINGING HINGE PER CABINET DOOR. PROVIDE HALF-OVERLAY SELF-CLOSING HINGES AT FOLDING GRILLE LOCKETS. STANDARD OF ACCEPTANCE:
1. HETICH HARMAT 778 SERIES, NOS. 007 907, 008 510, 022 828, AND 022 753.
2. BLUM MODUL 170 SERIES, NOS. 9046500, 9146500, 9046600, AND 9146600.
3. STANLEY 150 SERIES, NOS. 1510-2, 1511-2, 1510-4X AND 1511-4X.
3 PIANO HINGES: 32mm WIDE X 0.7mm THICK, BRIGHT NICKEL FINISH. STANDARD OF ACCEPTANCE:
1. 100 111 BY HETICH
2. 321740 - 180 BY RICHELIEU.
3. 22-4231 BY STANLEY.
4 MAGNETIC CATCHES: ALUMINUM DOUBLE-ROLLER TYPE, C/W PLATE, 47mm O.C. STANDARD OF ACCEPTANCE:
1. RICHELIEU # 8930-10.
5 DRAWER HARDWARE: HEAVY DUTY, FULL EXTENSION, SELF-CLOSING DRAWER SLIDES, LENGTH TO SUIT DEPTH OF DRAWER. INCLUDE ALL FRONTING AND REAR MOUNTING BRACKETS AS REQUIRED. STANDARD OF ACCEPTANCE:
1. BLUM 886 SERIES.
2. ACCURIDE 3732
3. KNAPE AND VOGT KVM-8419824.
6 ADJUSTABLE SHELF HARDWARE: STEEL. STANDARDS FOR FULLY RECESSED MOUNTING ON CABINET CABLES, C/W MATCHING SHELF SUPPORTS. ZINC-PLATED FINISH. PROVIDE FOUR (4) SUPPORTS PER SHELF PLUS 10% SPARE. STANDARD OF ACCEPTANCE:
1. KNAPE & VOGT #266 ZG STANDARDS, C/W # 266 ZG SHELF SUPPORTS.
2. RICHELIEU #120 SERIES STANDARDS, C/W # CP21-ZG SHELF SUPPORTS.
3. STANLEY #79-1352.
7 GROMMET: 60mm DIAMETER, BLACK COLOUR:
1. RICHELIEU #6090.
8 DOOR AND DRAWER BUMPERS: PROVIDE TWO PLASTIC PRESS-IN BUMPERS AT EACH DOOR AND DRAWER. PEEL AND STICK BUMPERS ARE NOT ACCEPTABLE. STANDARD OF ACCEPTANCE:
1. RICHELIEU 4526R.
9 CABINET LOCKS: PROVIDE INCL. 5 DISC TUMBLER, CAM LOCKS FOR DOORS AND DRAWERS WHERE INDICATED ON THE DRAWINGS. DEPTH OF CYLINDER AND LENGTH OF CAM TO SUIT APPLICATION. POLISHED, CHROME PLATED, ZINC ALLOY CASE AND NICKEL, NICKEL PLATED ROSETTE. PROVIDE ITEMS FOR LEFT-HAND, RIGHT-HAND AND DRAWER APPLICATION.

FASTENINGS

- 1 SUPPLY SCREWS, BOLTS, EXPANSION SHIELDS AND OTHER FASTENING DEVICES REQUIRED FOR SATISFACTORY INSTALLATION AND OPERATION OF HARDWARE.
2 EXPOSED FASTENING DEVICES TO MATCH FINISH OF HARDWARE.
3 USE FASTENERS COMPATIBLE WITH MATERIAL THROUGH WHICH THEY PASS.

KEYING

- 1 CABINET LOCKS TO BE KEYPED ALIKE IN GROUPS AND MASTER KEYPED. SUBMIT A KEYING SCHEDULE FOR APPROVAL.
2 SUPPLY KEYS IN DUPLICATE FOR EVERY LOCK.
3 SUPPLY 3 MASTER KEYS.
4 STAMP KEY CODE NUMBERS ON BOTH KEYS AND CYLINDERS.

PART 3 EXECUTION

INSTALLATION INSTRUCTIONS

- 1 PROVIDE MANUFACTURERS INSTRUCTION FOR PROPER INSTALLATION OF EACH HARDWARE COMPONENT.
1 HAND OVER HARDWARE ITEMS FOR INSTALLATION BY SECTION 08 41 00 "ARCHITECTURAL WOODWORK".

INSTALLATION

- 1 HAND OVER HARDWARE ITEMS FOR INSTALLATION BY SECTION 08 41 00 "ARCHITECTURAL WOODWORK".

08 71 10 - DOOR HARDWARE

PART 1 GENERAL

RELATED DOCUMENTS

- 1 DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL CONDITIONS
2 REFER TO: APPENDIX A - MATERIAL SELECTIONS, PT

RELATED SECTIONS

- 1 08 11 13 STEEL DOOR FRAMES
2 08 14 16 FLUSH WOOD DOORS

GENERAL NOTES

- 1 REFER TO IN CONJUNCTION WITH DOOR SCHEDULE & INFORMATION ON DRAWINGS.
2 EACH HARDWARE SUPPLIER IS RESPONSIBLE TO REVIEW THEIR HARDWARE DURING THE INSTALLATION AND PROVIDE WRITTEN REPORTS TO THE CONSTRUCTION MANAGERS, PRIOR TO SUBSTANTIAL COMPLETION. PROVIDE LETTERS CERTIFYING THE HARDWARE INSTALLATION, FUNCTION SETTINGS AND ADJUSTMENTS

HARDWARE LIST

- 1 REFER TO DRAWING A2 FOR DOOR AND FRAME SCHEDULE. NEW HARDWARE TO MATCH THAT OF EXISTING ADJACENT DOORS. SEE INCL. 5 DISC TUMBLER, CAM LOCKS FOR DOORS AND DRAWERS WHERE INDICATED ON THE DRAWINGS. DEPTH OF CYLINDER AND LENGTH OF CAM TO SUIT APPLICATION. POLISHED, CHROME PLATED, ZINC ALLOY CASE AND NICKEL, NICKEL PLATED ROSETTE. PROVIDE ITEMS FOR LEFT-HAND, RIGHT-HAND AND DRAWER APPLICATION.
2 CLEARLY IDENTIFY HARDWARE LISTED BY MANUFACTURERS NAME, COMPLETE PRODUCT CATALOGUE NUMBER AND FINISH.
3 UPON RECEIPT OF APPROVED SCHEDULE, ISSUE SIX (6) COPIES TO THE GENERAL CONTRACTOR, FOR THE VARIOUS SUBTRADES.

MAINTENANCE DATA

- 1 PROVIDE MAINTENANCE DATA, PARTS LIST AND MANUFACTURERS INSTRUCTION FOR EACH TYPE OF HINGES AND LOCKSETS.
1 STORE FINISHING HARDWARE IN LOCKED, CLEAN AND DRY AREA.

DELIVERY AND STORAGE

- 1 STORE FINISHING HARDWARE IN LOCKED, CLEAN AND DRY AREA.

WARRANTY

- 1 ALL HARDWARE SUPPLIED UNDER THE APPROVED HARDWARE SCHEDULE WILL SHALL HAVE A WARRANTY PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF THE PROJECT.

PART 2 PRODUCTS AND ACCEPTABLE MANUFACTURERS

HINGES

- 1 SUPPLY 1-1/2 PAIR PER DOOR LEAF FOR DOORS UP TO 225mm IN HEIGHT. DOORS, 45mm THICKNESS, UP TO 955mm IN WIDTH, SUPPLY 127mm HIGH HINGES. REFER TO DRAWING A2, DOOR FRAME IS PRESSED STEEL FRAME WHILE THE DOOR IS A WOOD DOOR.
NRP - NON REMOVABLE PIN FEATURE ON ALL OUT-SWING DOORS.

- HAGER FIVE KNUCKLE STANDARD WEIGHT AND HEAVY WEIGHT HINGES LISTED. STANLEY EQUIVALENT HINGES ARE ACCEPTABLE ALTERNATES.
HAGER STANLEY
BB1168
BB1279
BB1793

CYLINDRICAL LOCKS AND LATCHES

- 1 MEDIUM AND HEAVY DUTY CYLINDRICAL TYPE, ARGENT 7 AND 10 - LINE, LL ROSE / LEVER DESIGN. NO SUBSTITUTION. FUNCTION AS SPECIFIED. PROVIDE DUST BOX BEHIND ALL STRIKES.

WALL STOPS

- 1 CAST BRASS/BRONZE MATERIAL.
2 WALL STOPS SHALL HAVE A METAL BACK PLATE SECURED TO THE WALL WITH (2) SCREWS AND SHIELDS. HOUSING AND RUBBER INSERT FITS OVER BACK PLATE AND IS SECURED WITH INCONSPICUOUS SET SCREWS. NO SCREWS OR HOLES SHALL BE VISIBLE ON FACE OF BUMPER.

STANDARD METAL C.B.H.

Table with 2 columns: Item No. and Description. Rows include S101, S103, S120, S122.

FASTENINGS

- 1 ALL HARDWARE TO BE INSTALLED USING MANUFACTURERS SUPPLIED FASTENERS.
2 SELF TAPPING/TEX SCREWS FOR INSTALLATION OF BUTT HINGES AND LOCKSETS WILL NOT BE ACCEPTABLE ON THIS PROJECT.
3 SUPPLY SCREWS, BOLTS, EXPANSION SHIELDS AND OTHER FASTENING DEVICES REQUIRED FOR SATISFACTORY INSTALLATION AND OPERATION OF HARDWARE.
4 EXPOSED FASTENING DEVICES TO MATCH FINISH HARDWARE.

KEYING

- 1 THE HARDWARE SUPPLIER SHALL SUPPLY NEW ARGENT CYLINDERS KEYPED ALIKE, FOR CONSTRUCTION USE IN THE APPROPRIATE LA KEYWAY.
2 FINAL KEYING WILL BE DONE BY BROCKNS WINDOW DOOR & GLASS, RENFREW, ONTARIO, 1-613-433-6687.
3 PROVIDE (3) BLANK CHANGE KEYS PER CYLINDER UNLESS NOTED OTHERWISE.
4 SUPPLY (6) CHANGE KEYS FOR CONSTRUCTION USE.
5 THE HARDWARE SUPPLIER IS TO ENSURE ALL CYLINDERS ARE SUPPLIED WITH CAMS / TAL/PICES SUITABLE FOR SPECIFIED LOCK FUNCTION. SUPPLY ALL COMPRESSION RINGS, TRIM COLLARS AND BLOCKING RINGS TO SUIT.
6 THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING LOCKS AND CYLINDERS AS REQUIRED FOR HIS OWN USE DURING THE PERIOD OF CONSTRUCTION.

FINISHES

Table with 2 columns: Item No. and Description. Rows include HINGES 628, 652; LOCKSETS 626; WALL STOPS 626.

PART 3 EXECUTION

- 1 WHEN REQUESTED, FURNISH WOOD DOOR AND METAL FRAME MANUFACTURERS WITH COMPLETE INSTRUCTIONS AND TEMPLATES FOR PREPARATION OF THEIR WORK TO RECEIVE HARDWARE. ONLY TRADESMEN COMPETENT IN THE INSTALLATION OF FINISHING HARDWARE SHALL BE USED FOR THIS PURPOSE.
3 THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE DOOR PREPS FOR CYLINDER HOLES ARE WHERE REQUIRED AND ARE ALIGNED PROPERLY WITH HORTISE LOCKS. THE CONTRACTOR IS TO USE HIS OWN "TRY-OUT" CYLINDERS PRIOR TO THE OWNER BEINGING INSTALLATION OF THE PERMANENT CYLINDERS. ANY HOLES FOUND TO BE MISALIGNED WILL BE RECTIFIED BY THE CONTRACTOR.
4 CONTRACTOR TO ENSURE WALLS ARE PROPERLY BLOCKED TO PREVENT FUTURE DAMAGE WHEREVER SURFACE MOUNTED HARDWARE I.E. WALL STOPS ARE TO BE USED.

09 21 16 - GYPSUM BOARD ASSEMBLY

PART 1 GENERAL

RELATED SECTIONS

- 1 07 20 00 JOINT SEALANTS
2 09 22 16 NON-LOAD BEARING STEEL STUD SYSTEMS
3 09 23 13 SUSPENDED ACOUSTIC PANEL CEILING
4 09 10 00 PAINTING
5 DIVISION 22 - PLUMBING
6 DIVISION 26 - ELECTRICAL

GYPSUM BOARD PRODUCTS: PROVIDE GYPSUM BOARD OF TYPES INDICATED IN MAXIMUM LENGTHS AVAILABLE THAT WILL MINIMIZE END-TO-END BUTT JOINTS IN EACH AREA INDICATED TO RECEIVE GYPSUM BOARD APPLICATION. THICKNESS AS INDICATED IN DRAWINGS

- GYPSUM BOARD TO ASTM C1398:
1 STANDARD GYPSUM BOARD 16mm UNLESS OTHERWISE NOTED
2 FIRE RESISTANT GYPSUM BOARD, TYPE X WHERE REQUIRED FOR EXISTING FIRE-RESISTANCE-RATED ASSEMBLIES OUTSIDE ARCHITECTURAL SCOPE OF WORK. REFER TO DRAWING A-3 FIRE RATING PLANS, MECHANICAL DRAWINGS AND ELECTRICAL DRAWINGS

TRIM ACCESSORIES:

- 1 ACCESSORIES FOR INTERIOR INSTALLATION.
(A) EDGE TRIM, AND CONTROL JOINTS COMPLYING WITH ASTM C1047, AND REQUIREMENTS INDICATED BELOW:
- MATERIAL: FORMED STEEL SHEET ZINC COATED BY HOT-DIP OR ELECTROLYTIC PROCESS.
- SHAPES IDENTIFIED BELOW BY REFERENCE TO FIG. 1 DESIGNATIONS IN ASTM C1047:
- USE L-C BEADS FOR EDGE TRIM, UNLESS OTHERWISE INDICATED.
- BEAD WITH FACE FLANGE ONLY; FACE FLANGE FORMED TO RECEIVE JOINT COMPOUND. USE L-BEAD WHERE INDICATED.
- NOTE THAT STANDARD "U" BEAD (J_TRIM) IS NOT ACCEPTABLE. USE "L" BEAD THAT IS CONCEALED WHEN TAPED AND FILLED.
2 CORNER BEAD ON EXTERIOR CORNERS: "HIGH STRENGTH EXTRUDED ALUMINUM CORNER BEAD" TYPE SO-488-90
(B) TRIM TO BE AN EXTRUDED ALUMINUM PROFILE, 6063-T5 ALLOY AND TEMPER, TENSILE STRENGTH 4486 KPA. TRIM SHALL CONSIST OF A FIN, TAPERED, GROOVED, AND PRE-PUNCHED FOR SCREW ATTACHMENT AND TO ACCEPT BONDING AGENT.
(C) COAT SURFACE WITH A FINISHING F-M COMPATIBLE WITH PLASTER AND SPECIFIED FINISHING PRODUCTS. VERIFY COMPATIBILITY WITH THE FINISHING FORMULA SPECIFIED IN SECTION 09 91 00 "PAINTING".

JOINT TREATMENT MATERIALS

- 1 GENERAL: PROVIDE JOINT TREATMENT MATERIALS COMPLYING WITH ASTM C475 AND THE RECOMMENDATIONS OF BOTH THE MANUFACTURERS OF SHEET PRODUCTS AND OF JOINT TREATMENT MATERIALS FOR EACH APPLICATION INDICATED ON THE DRAWINGS.
2 JOINT TAPE: FOR GYPSUM BOARD. PAPER FIBRE/REINFORCED TAPE AS RECOMMENDED BY THE GYPSUM BOARD MANUFACTURER.
3 JOINT COMPOUND: FACTORY-MIXED, ALL-PURPOSE COMPOUND FORMULATED FOR BOTH TAPING AND TOPPING COMPOUND.

MISCELLANEOUS MATERIALS

- 1 GENERAL: PROVIDE AUXILIARY MATERIALS FOR GYPSUM BOARD CONSTRUCTION THAT COMPLY WITH REFERENCED STANDARDS AND RECOMMENDATIONS OF GYPSUM BOARD MANUFACTURER.
2 LAMINATING ADHESIVE: SPECIAL ADHESIVE OR JOINT COMPOUND RECOMMENDED FOR LAMINATING GYPSUM PANELS.
3 SPOT GROUT: ASTM C475, SETTING-TYPE JOINT COMPOUND RECOMMENDED FOR SPOT-GROUTING HOLLOW METAL DOOR FRAMES.
4 FASTENING ADHESIVE FOR METAL: SPECIAL ADHESIVE RECOMMENDED FOR LAMINATING GYPSUM PANELS TO STEEL FRAMING.
5 FASTENERS: STEEL DRILL SCREWS COMPLYING WITH ASTM C954 FOR FASTENING GYPSUM BOARD TO STEEL MEMBERS FROM 0.8mm TO 2.84mm (21 GA TO 12 GA) THICK.
6 ACOUSTIC SEALANT: REFER TO SECTION 07 92 00 "JOINT SEALANTS".

COORDINATION

- 1 EXAMINE THE MECHANICAL AND ELECTRICAL DRAWINGS AND COORDINATE WITH APPROPRIATE OTHER TRADES TO ESTABLISH OPENINGS, ADDITIONAL SUPPORT, FURRING OUT AND OTHER SPECIAL PROVISIONS REQUIRED FOR MECHANICAL AND ELECTRICAL FIXTURES AND FITTINGS AND ACCESS HATCHES BUILT INTO THE WORK OF THIS SECTION.

GYPSUM BOARD APPLICATION

- 1 DO NOT APPLY GYPSUM BOARD UNTIL BUCKS, ANCHORS, BLOCKING, ELECTRICAL AND MECHANICAL WORK ARE APPROVED.
2 APPLY GYPSUM BOARD TO METAL FURRING OR FRAMING USING SCREW FASTENERS. MAXIMUM SPACING OF SCREWS 300mm O.C.
3 CONFORM TO ULC DESIGN REQUIREMENTS FOR FIRE RESISTANCE RATED ASSEMBLIES.
4 APPLY A 12mm DIAMETER BEAD OF ACOUSTIC SEALANT CONTINUOUSLY AROUND THE PERIPHERY OF EACH FACE OF PARTITIONING TO SEAL THE GYPSUM BOARD STRUCTURE. JUNCTION WHERE PARTITIONS ABUT FIXED BUILDING COMPONENTS SHALL BE SEALED WITH ACOUSTIC SEALANT.
5 FINISHING GAPS BETWEEN ADJACENT CONSTRUCTIONS AND PARTITION PERIMETERS: ALL EXPOSED EDGES OF GYPSUM BOARD MUST RECEIVE "L" BEAD, PLASTERED SO THAT IT IS CONCEALED WHEN TAPED AND FILLED. CLEAN AND CAULK GAP BETWEEN TRIM AND ADJACENT MATERIAL.

ACCESSORIES

- 1 ERECT ACCESSORIES STRAIGHT, PLUMB OR LEVEL, RIGID AND AT PROPER PLANE. USE FULL LENGTH PIECES WHERE PRACTICAL. MAKE JOINTS TIGHT, ACCURATELY ALIGNED AND RIGIDLY SECURED. MITRE AND FIT CORNERS ACCURATELY. FREE FROM ROUGH EDGES. SECURE AT 150mm O.C.
2 INSTALL CASING BEADS WHERE GYPSUM BOARD BUTTS AGAINST SURFACES HAVING NO TRIM CONCEALING JUNCTION AND WHERE INDICATED. SEAL JOINTS WITH SEALANT.

ACOUSTICAL SEAL AT PARTITION PERIMETERS

- 1 MINIMIZE GAPS BETWEEN GYPSUM BOARD AND ADJACENT CONSTRUCTIONS AND PARTITION PERIMETERS. GAPS GREATER THAN 13mm WIDE ARE UNACCEPTABLE.
2 GAPS BETWEEN 6mm AND 13mm TO BE PACKED WITH BACK-UP ROD AND CAULKED WITH ACOUSTICAL SEALANT SPECIFIED IN SECTION 07 92 00 "JOINT SEALANTS". GAPS BELOW 6mm DO NOT REQUIRE BACK-UP ROD.
3 CUT DRYWALL NEATLY AND TIGHT AROUND ALL PENETRATIONS IN WALLS. PROVIDE FITTED DRYWALL FLANGES AROUND ALL MECHANICAL PENETRATIONS. COMPLETE DRYWALL FLANGE BY CAULKING FULL PERIMETER TO PENETRATIONS AND ADJACENT GYPSUM BOARD. CAULKING TO BE REVIEWED BY THE CONSULTANT BEFORE CONCEALING.

TAPING AND FINISHING

- 1 FINISH FACE PANEL, JOINTS AND INTERNAL ANGLES WITH JOINT SYSTEM CONSISTING OF JOINT COMPOUND, JOINT TAPE AND TAPING COMPOUND INSTALLED ACCORDING TO MANUFACTURERS DIRECTIONS AND FEATHERED OUT ONTO PANEL FACES.
2 FINISH CORNER BEADS, CONTROL JOINTS, TRIM AND JOINTS IN FIBRE REINFORCED PANELS AS REQUIRED WITH TWO COATS OF JOINT COMPOUND AND ONE COAT OF TAPING COMPOUND, FEATHERED OUT ONTO PANEL FACES.
3 FILL SCREW HEAD DEPRESSIONS WITH JOINT AND TAPING COMPOUNDS TO BRING FLUSH WITH ADJACENT SURFACE OF GYPSUM BOARD SO AS TO BE INVISIBLE AFTER SURFACE FINISH IS COMPLETED.
4 SAND LIGHTLY TO REMOVE BURRED EDGES AND OTHER IMPERFECTIONS. AVOID SANDING ADJACENT SURFACE OF BOARD.
5 COMPLETED INSTALLATION TO BE SMOOTH, LEVEL OR PLUMB, FREE FROM BLEMISHES. READY FOR PRIME AND PAINT.

ACOUSTICAL CEILING PANELS

- 1 REFER TO "APPENDIX A - MATERIAL SELECTIONS"

ACCESSORY MATERIALS

- 1 SUSPENSION SYSTEM ACCESSORIES: SPLICES, CLIPS, WIRE TIES, RETAINERS AND WALL MOLDING TO COMPLEMENT THE SUSPENSION SYSTEM COMPONENTS, AS RECOMMENDED BY THE SYSTEM MANUFACTURER.
2 HANGER WIRE: GALVANIZED SOFT ANNEALED STEEL WIRE TO ASTM A641, CLASS 1, 2.6mm DIAMETER.
3 HANGER INSERTS: PURPOSE MADE.
4 TOUCH-UP PAINT: TYPE AND COLOUR TO MATCH ACOUSTICAL UNITS, AS PROVIDED BY THE ACUSTICAL UNIT MANUFACTURER.

PART 3 EXECUTION

- 1 INSTALL CEILING SUSPENSION SYSTEM TO ASTM C638 AND IN ACCORDANCE WITH THE MANUFACTURERS PRINTED INSTRUCTIONS.
2 FURNISH HANGER CLIPS AND INSERTS FOR INSTALLATION BY THE APPLICABLE OTHER SECTIONS, WITH INSTRUCTIONS FOR THEIR PROPER INSTALLATION.
3 SECURE HANGERS TO THE OVERHEAD STRUCTURE USING ATTACHMENT METHODS ACCEPTABLE TO THE CONSULTANT.
4 EXCEPT WHERE OTHERWISE INDICATED, LAY OUT THE GRID SYMMETRICALLY WITH BORDER WIDTHS NOT LESS THAN 60% OF STANDARD UNIT WIDTHS.
5 COORDINATE THE CEILING SYSTEM WITH RELATED COMPONENTS.
6 HANG THE SUSPENSION SYSTEM INDEPENDENTLY OF WALLS, COLUMNS, DUCTS, PIPES AND CONDUIT. PROVIDE ADDITIONAL HANGERS AND CARRYING CHANNELS AS NECESSARY.
7 PROVIDE ADDITIONAL HANGERS AND FRAMING AS NECESSARY TO CARRY THE WEIGHT OF ALL ITEMS WHICH ARE DESIGNED TO BE SUPPORTED BY THE SUSPENSION SYSTEM.
8 FRAME AT OPENINGS FOR LIGHT FIXTURES, AIR DIFFUSERS AND SPEAKERS.
9 PROVIDE ADDITIONAL HANGERS AT LIGHT FIXTURES, AIR DIFFUSERS, SPEAKERS AND OTHER CEILING SUPPORTED ITEMS WITHIN 150mm OF EACH CORNER AND AT MAXIMUM 600mm O.C. AROUND THE PERIMETER OF THE FIXTURE.
10 PROVIDE CROSS MEMBERS TO MAIN RUNNERS TO PROVIDE A RIGID ASSEMBLY.
11 INSTALL WALL TRIM TO PROVIDE CORRECT CEILING HEIGHT. INSTALL WALL TRIM OR SUITABLE EDGE MOLDING TO MATCH EXISTING AT THE INTERFACE BETWEEN THE ACOUSTIC TILE CEILING AND OTHER MATERIAL, FOR THE ENTIRE LENGTH OF THE JOINT. SECURE TO CONSTRUCTION, BUTT JOINTS TIGHTLY, NEATLY, SQUARE AND IN TRUE ALIGNMENT.
12 ARRANGE RECESSED ITEMS TO REPLACE OR BE CENTRED ON A PANEL, UNLESS INDICATED OTHERWISE.
13 FINISHED CEILING SYSTEM TO BE SQUARE WITH ADJOINING WALLS AND LEVEL, WITHIN 1:1000.

INSTALLATION PANELS

- 1 INSTALL ACOUSTICAL PANELS IN THE CEILING SUSPENSION SYSTEM, IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
2 FIT ACOUSTICAL PANELS IN PLACE, FREE FROM DAMAGED EDGES OR OTHER DEFECTS DETRIMENTAL TO APPEARANCE OR FUNCTION.
3 INSTALL ACOUSTICAL PANELS LEVEL, IN UNIFORM PLANE AND FREE FROM TWIST, WARP, DENTS, DAMAGED EDGES OR OTHER DEFECTS DETRIMENTAL TO APPEARANCE OR FUNCTION.
4 CUT PANELS TO FIT IRREGULAR GRIDS; PERIMETER EDGE TRIM AND CIRCULAR FIXTURE OPENINGS.

RESILIENT BASE

- 1 RESILIENT BASE: TO ASTM F 1861, TYPE TP - RUBBER, CONTINUOUS, TOP SET. PROVIDE STANDARD COVE BASE DO NOT FASTEN TO WALL.
REFER TO APPENDIX A "BUILDING MATERIALS": NOTE AS RFB-.
1 THICKNESS: 3.2mm.
2 HEIGHT: 102mm.
3 LENGTH/TX: CUT LENGTHS MINIMUM 2400mm.

RELATED DOCUMENTS

- 1 DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL CONDITIONS.
2 REFER TO: APPENDIX A - MATERIAL SELECTIONS, RFB-01.

SUMMARY OF WORK

- 1 WORK INCLUDED: THE WORK OF THIS SECTION INCLUDES THE PROVISION OF ALL LABOUR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED TO PAINT INTERIOR SURFACES, AS INDICATED ON THE DRAWINGS, AS SPECIFIED HEREIN AND AS REQUIRED FOR A COMPLETE PROJECT.

REFERENCES

- 1 AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):
ASTM F 1861-08, STANDARD SPECIFICATION FOR RESILIENT WALL BASE.

PART 2 PRODUCTS

RESILIENT BASE

- 1 RESILIENT BASE: TO ASTM F 1861, TYPE TP - RUBBER, CONTINUOUS, TOP SET. PROVIDE STANDARD COVE BASE DO NOT FASTEN TO WALL.
REFER TO APPENDIX A "BUILDING MATERIALS": NOTE AS RFB-.
1 THICKNESS: 3.2mm.
2 HEIGHT: 102mm.
3 LENGTH/TX: CUT LENGTHS MINIMUM 2400mm.

ACCESSORIES

- 1 PRIMERS AND ADHESIVES: RECOMMENDED BY MATERIAL MANUFACTURER FOR SPECIFIC MATERIAL ON APPLICABLE SUBSTRATE.

09 51 19 - RESILIENT BASE (CONTD)

PART 3 EXECUTION

EXAMINATION

- 1 EXAMINE AREAS AND CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND NOTIFY THE CONSULTANT IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.
2 DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED TO THE SATISFACTION OF THE INSTALLER.
3 COMMENT ON THE INSTALLATION WILL BE CONSTRUED AS ACCEPTANCE OF THE SITE CONDITIONS AND THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR SATISFACTORY WORK AS SPECIFIED HEREIN.

BASE APPLICATION

- 1 LAY OUT INCLUDED: TO KEEP NUMBER OF JOINTS AT A MINIMUM.
2 SET BASE IN ADHESIVE TIGHTLY BY USING 3 kg HAND ROLLER, AGAINST WALL AND FLOOR SURFACES.
3 INSTALL STRAIGHT AND LEVEL TO VARIATION OF 1:1000.
4 SCREW AND FIT TO DOOR FRAMES AND OTHER OBSTRUCTIONS.
5 COVE INTERNAL CORNERS. USE FORMED STRAIGHT BASE MATERIAL FOR EXTERNAL CORNERS MINIMUM 1000 IN EACH DIRECTION.
6 INCLUDE FINISHED RUBBER BASES TO ALL CABINETWORK IN ROOMS WHERE A RUBBER BASE IS SPECIFIED AND NOTED.

ACCESSORIES

- 1 INSTALL ACCESSORIES AND TRANSITIONS IN ACCORDANCE WITH THE MANUFACTURERS PRINTED INSTRUCTIONS.

INITIAL CLEANING AND MAINTENANCE

- 1 REMOVE EXCESS ADHESIVE FROM FLOOR, BASE AND WALL AND MAKE GOOD ANY DAMAGE CAUSED BY THE WORK OF THIS SECTION.
2 AFTER INSTALLATION, WAIT TWO DAYS BEFORE WASHING, TO ALLOW ADHESIVE TO SET.

FINAL CLEANING

- 1 UPON COMPLETION OF THE INSTALLATION REMOVE FROM THE PREMISES ALL SURPLUS MATERIAL, DIRT AND DEBRIS CAUSED BY THE WORK OF THIS SECTION AND LEAVE THE INSTALLATION CLEAN AND READY FOR THE INTENDED USE BY THE OWNER.

09 91 00 - PAINTING

PART 1 GENERAL

RELATED DOCUMENTS

- 1 DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL CONDITIONS AND DIVISIONS.
2 REFER TO: APPENDIX A - MATERIAL SELECTIONS, PT

RELATED SECTIONS

- 1 06 41 00 ARCHITECTURAL WOODWORK
2 08 11 13 STEEL DOORS AND FRAMES
3 09 21 16 GYPSUM BOARD ASSEMBLIES

SUMMARY OF WORK

- 1 WORK INCLUDED: THE WORK OF THIS SECTION INCLUDES THE PROVISION OF ALL LABOUR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED TO PAINT INTERIOR SURFACES, AS INDICATED ON THE DRAWINGS, AS SPECIFIED HEREIN AND AS REQUIRED FOR A COMPLETE PROJECT.

REFERENCES

- 1 MASTER PAINTERS INSTITUTE (MPI)
1 MPI ARCHITECTURAL SPECIFICATION MANUAL, 2007.
2 MPI APPROVED PRODUCT LIST.

QUALITY ASSURANCE

- 1 CONTRACTOR TO HAVE A MINIMUM OF FIVE (5) YEARS PROVEN SATISFACTORY EXPERIENCE WHEN REQUESTED, PROVIDE A LIST OF LAST THREE COMPARABLE JOBS INCLUDING: JOB NAME AND LOCATION, SPECIFYING AUTHORITY AND PROJECT MANAGER.
2 QUALIFIED JOURNEYMAN WHO HAVE A "TRADESMAN QUALIFICATION CERTIFICATE OF PROFICIENCY" SHALL BE ENGAGED IN PAINTING WORK. APPRENTICES MAY BE EMPLOYED PROVIDED THEY WORK UNDER THE DIRECT SUPERVISION OF A QUALIFIED JOURNEYMAN IN ACCORDANCE WITH TRADE REGULATIONS.
3 CONFORM TO LATEST MPI REQUIREMENTS FOR INTERIOR PAINTING WORK INCLUDING PREPARATION AND PAINTING.
4 MATERIALS (PRIMERS, PAINTS, COATINGS, VARNISHES, STAINS, LACQUERS, FILLERS, THINNERS, SOLVENTS, ETC.) SHALL BE IN ACCORDANCE WITH MPI PAINTING SPECIFICATION MANUAL "APPROVED PRODUCT" LISTING AND SHALL BE FROM A SINGLE MANUFACTURER FOR EACH SYSTEM USE.
5 OTHER PAINT MATERIAL SUCH AS LINSEED OIL, SHELLAC, TURPENTINE, ETC. SHALL BE THE HIGHEST QUALITY PRODUCT OF AN APPROVED MANUFACTURER LISTED IN MPI PAINTING SPECIFICATIONS MANUAL, AND SHALL BE COMPATIBLE WITH OTHER COATING MATERIALS AS REQUIRED.
6 RETAIN PURCHASE ORDERS, INVOICES AND OTHER DOCUMENTS TO PROVE CONFORMANCE WITH NOTED MPI REQUIREMENTS WHEN REQUESTED BY THE CONSULTANT.
7 STANDARD OF ACCEPTANCE:
1 WALLS: NO DEFECTS VISIBLE FROM A DISTANCE OF 1000mm AT 90 Deg. TO SURFACE.
2 CEILINGS: NO DEFECTS VISIBLE FROM FLOOR AT 45 deg. TO SURFACE WHEN VIEWED USING FINAL INSPECTION TOOL.
3 SURFACE FINISH: BAKED POLYESTER PAINT, COLOUR WHITE.
3 FINAL COAT TO EXHIBIT UNIFORMITY OF COLOUR AND UNIFORMITY OF SHEEN ACROSS FULL SURFACE AREA.
4 GRID DIMENSIONS: 609mm x 1219mm.

SUBMITTALS

- 1 SUBMIT PRODUCT DATA AND MANUFACTURERS INSTALLATION APPLICATION INSTRUCTIONS FOR EACH PAINT AND COATING PRODUCT TO BE USED.
2 SUBMIT WHIMS MSDS - MATERIAL SAFETY DATA SHEET FOR THE GENERAL CONTRACTORS REVIEW AND RECORDS, PRIOR TO ORDERING MATERIALS.
3 UPON COMPLETION, SUBMIT RECORDS OF PRODUCTS USED, LIST PRODUCTS IN RELATION TO FINISH SYSTEM AND INCLUDE THE FOLLOWING:
1 PRODUCT NAME, TYPE AND USE.
2 MANUFACTURERS PRODUCT NUMBER.
3 COLOUR NUMBERS.
4 MPI ENVIRONMENTALLY FRIENDLY CLASSIFICATION SYSTEM RATING.
5 MANUFACTURERS MATERIAL SAFETY DATA SHEETS (MSDS).
6 MANUFACTURERS MAINTENANCE INSTRUCTIONS INCLUDING PERIODIC CLEANING.

ACOUSTICAL CEILING PANELS

- 1 REFER TO "APPENDIX A - MATERIAL SELECTIONS"

ACCESSORY MATERIALS

- 1 SUSPENSION SYSTEM ACCESSORIES: SPLICES, CLIPS, WIRE TIES, RETAINERS AND WALL MOLDING TO COMPLEMENT THE SUSPENSION SYSTEM COMPONENTS, AS RECOMMENDED BY THE SYSTEM MANUFACTURER.
2 HANGER WIRE: GALVANIZED SOFT ANNEALED STEEL WIRE TO ASTM A641, CLASS 1, 2.6mm DIAMETER.
3 HANGER INSERTS: PURPOSE MADE.
4 TOUCH-UP PAINT: TYPE AND COLOUR TO MATCH ACOUSTICAL UNITS, AS PROVIDED BY THE ACUSTICAL UNIT MANUFACTURER.

PART 3 EXECUTION

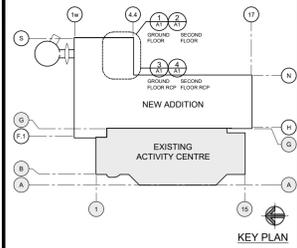
- 1 INSTALL CEILING SUSPENSION SYSTEM TO ASTM C638 AND IN ACCORDANCE WITH THE MANUFACTURERS PRINTED INSTRUCTIONS.
2 FURNISH HANGER CLIPS AND INSERTS FOR INSTALLATION BY THE APPLICABLE OTHER SECTIONS, WITH INSTRUCTIONS FOR THEIR PROPER INSTALLATION.
3 SECURE HANGERS TO THE OVERHEAD STRUCTURE USING ATTACHMENT METHODS ACCEPTABLE TO THE CONSULTANT.
4 EXCEPT WHERE OTHERWISE INDICATED, LAY OUT THE GRID SYMMETRICALLY WITH BORDER WIDTHS NOT LESS THAN 60% OF STANDARD UNIT WIDTHS.
5 COORDINATE THE CEILING SYSTEM WITH RELATED COMPONENTS.
6 HANG THE SUSPENSION SYSTEM INDEPENDENTLY OF WALLS, COLUMNS, DUCTS, PIPES AND CONDUIT. PROVIDE ADDITIONAL HANGERS AND CARRYING CHANNELS AS NECESSARY.
7 PROVIDE ADDITIONAL HANGERS AND FRAMING AS NECESSARY TO CARRY THE WEIGHT OF ALL ITEMS WHICH ARE DESIGNED TO BE SUPPORTED BY THE SUSPENSION SYSTEM.
8 FRAME AT OPENINGS FOR LIGHT FIXTURES, AIR DIFFUSERS AND SPEAKERS.
9 PROVIDE ADDITIONAL HANGERS AT LIGHT FIXTURES, AIR DIFFUSERS, SPEAKERS AND OTHER CEILING SUPPORTED ITEMS WITHIN 150mm OF EACH CORNER AND AT MAXIMUM 600mm O.C. AROUND THE PERIMETER OF THE FIXTURE.
10 PROVIDE CROSS MEMBERS TO MAIN RUNNERS TO PROVIDE A RIGID ASSEMBLY.
11 INSTALL WALL TRIM TO PROVIDE CORRECT CEILING HEIGHT. INSTALL WALL TRIM OR SUITABLE EDGE MOLDING TO MATCH EXISTING AT THE INTERFACE BETWEEN THE ACOUSTIC TILE CEILING AND OTHER MATERIAL, FOR THE ENTIRE LENGTH OF THE JOINT. SECURE TO CONSTRUCTION, BUTT JOINTS TIGHTLY, NEATLY, SQUARE AND IN TRUE ALIGNMENT.
12 ARRANGE RECESSED ITEMS TO REPLACE OR BE CENTRED ON A PANEL, UNLESS INDICATED OTHERWISE.
13 FINISHED CEILING SYSTEM TO BE SQUARE WITH ADJOINING WALLS AND LEVEL, WITHIN 1:1000.

INSTALLATION PANELS

- 1 INSTALL ACOUSTICAL PANELS IN THE CEILING SUSPENSION SYSTEM, IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
2 FIT ACOUSTICAL PANELS IN PLACE, FREE FROM DAMAGED EDGES OR OTHER DEFECTS DETRIMENTAL TO APPEARANCE OR FUNCTION.
3 INSTALL ACOUSTICAL PANELS LEVEL, IN UNIFORM PLANE AND FREE FROM TWIST, WARP, DENTS, DAMAGED EDGES OR OTHER DEFECTS DETRIMENTAL TO APPEARANCE OR FUNCTION.
4 CUT PANELS TO FIT IRREGULAR GRIDS; PERIMETER EDGE TRIM AND CIRCULAR FIXTURE OPENINGS.

RESILIENT BASE

- 1 RESILIENT BASE: TO ASTM F 1861, TYPE TP - RUBBER, CONTINUOUS, TOP



NOTE - CONCRETE FLOOR SLAB CORE DRILLING

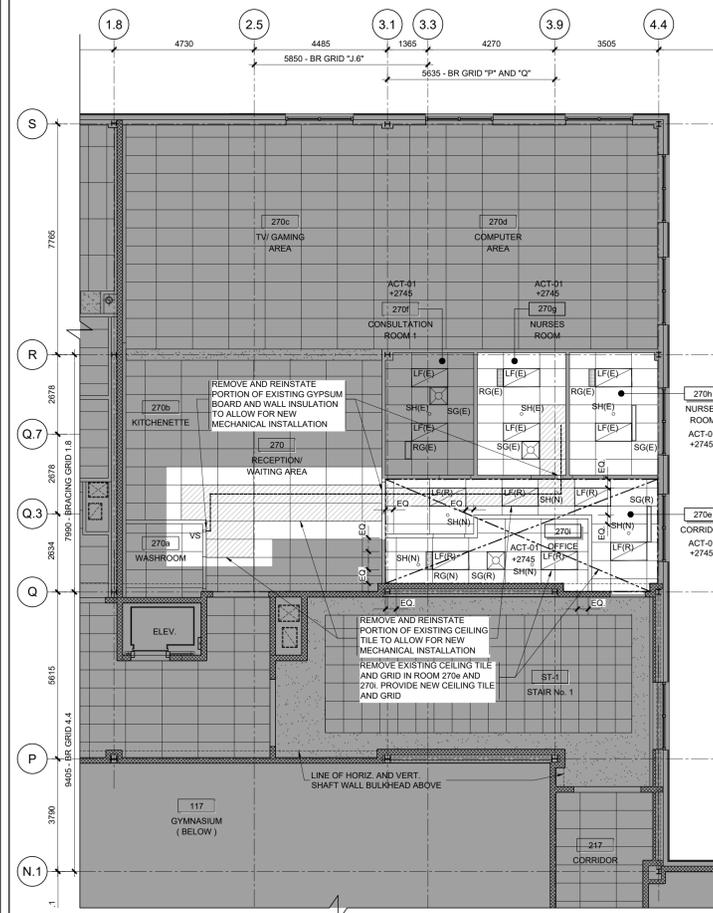
FLOOR SCANNING RESULTS TO INCLUDE, FOR EACH CORE, THE CORE DIAMETER, LOCATION TIED TO GRID LINES, NUMBER OF REINFORCING BARS IN CONFLICT, DEPTH OF BAR (FOR EX TOP OR BOTTOM IF IN SLAB) AND DIRECTION OF BARS.
 RETAIN A SIGNED SUMMARY REPORT THAT PROVIDES AND INFORMATION TO AN ACCURACY OF 25mm OR LESS AND CAN SCAN CONCRETE STRUCTURES UP TO 450mm IN DEPTH OR MORE.
 SUBMIT A SIGNED SUMMARY REPORT THAT PROVIDES AND DISTINGUISHES THE INFORMATION ABOVE BY MEANS OF A COLOURED SCALED MAP WITH A REFERENCE POINT OF EITHER AN ESTABLISHED GRID LINE OR EXPOSED VERTICAL CONCRETE ELEMENT (COLUMN, SHEAR WALL, ETC.).
 THE REPORT SHALL STATE THE ACCURACY OF THE SCANNING (TOLERANCE OF REBAR POSITIONING RELATED TO THE INDICATED LOCATION ON SITE).
 REVIEW FOR ANY OBSTRUCTIONS ON THE BACKSIDE OF THE CONCRETE ELEMENT (FOR EX: SURFACE-MOUNTED CONDUIT, DUCTWORK, RFP, INSULATION).
 UPDATE SCANNING REPORT ACCORDING TO THESE FINDINGS.
 COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF CORE DRILLING.

GENERAL NOTES:

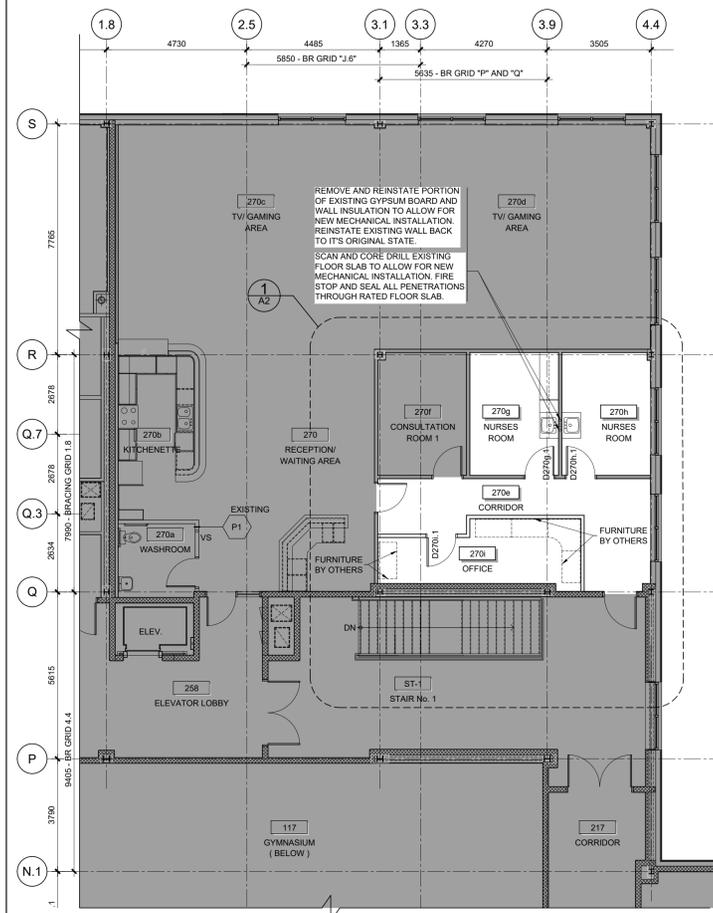
- FOR INTERIOR WALL TYPE ASSEMBLIES "P1" REFER TO DETAIL 19 ON DRAWING A2.
- REFER TO TYPICAL LEGEND ON DRAWING A1.
- FOR GROUND FLOOR AND SECOND FLOOR FIRE RATING PLANS REFER TO DRAWING A3. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR WORK OUTSIDE OF AREA SHOWN ON DETAIL 11A2. ALL EXISTING RATED WALLS ARE TO BE REINSTATED BACK TO ITS ORIGINAL STATE TO MEET THE REQUIRED FIRE RATING.
- PRIOR TO COMMENCING OF WORK, CONFIRM AND VERIFY ALL DIMENSIONS ON SITE.
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DEMOLITION AND NEW WORK. PATCH AND MAKE GOOD WALLS TO MATCH EXISTING.
- REPAIR ALL FINISHES AFFECTED BY DEMOLITION WORK OF ARCHITECTURAL, MECHANICAL AND ELECTRICAL ELEMENTS. PATCH AND MAKE GOOD TO MATCH EXISTING.
- MECHANICAL AND ELECTRICAL ELEMENTS SHOWN ON ARCHITECTURAL PLANS ARE FOR COORDINATION PURPOSES ONLY. REFER TO DRAWINGS AND SPECIFICATIONS BY MECHANICAL AND ELECTRICAL DISCIPLINES. IN EVENT OF DISCREPANCY CONTACT ARCHITECT PRIOR TO INSTALLATION.
- REFER TO MECHANICAL AND ELECTRICAL WORK FOR CORE DRILLING OF EXISTING RATED SECOND FLOOR CONCRETE SLAB. FIRE STOP AND SEAL ALL PENETRATIONS THROUGH EXISTING CONCRETE FLOOR SLAB. REFER TO NOTE "CONCRETE FLOOR SLAB CORE DRILLING"

LEGEND:

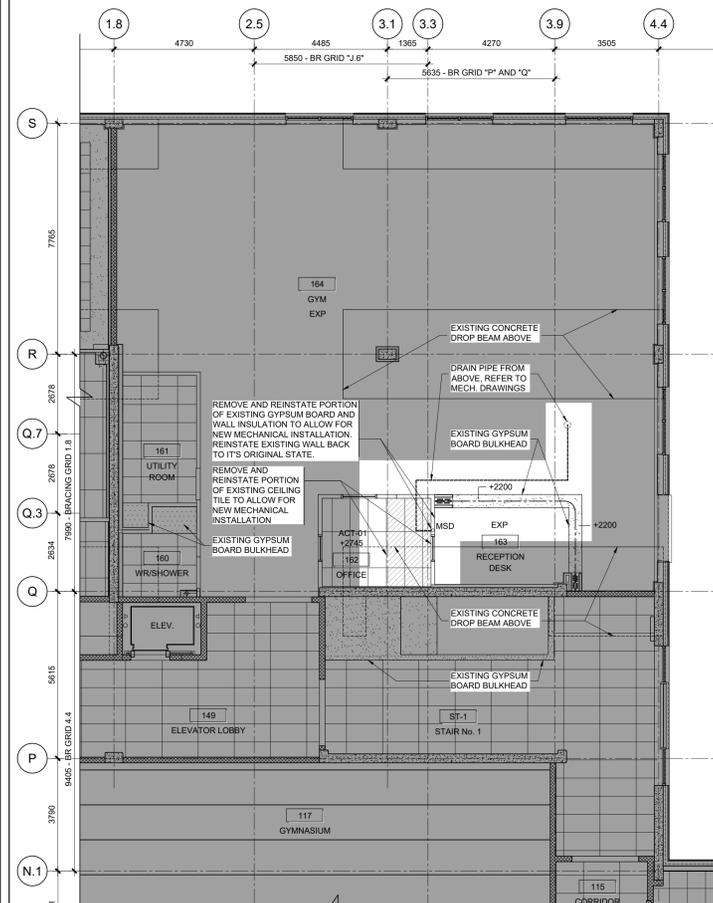
- EXISTING
- NEW
- D270.1 INTERIOR DOOR TAG NUMBER. NEW DOOR AND FRAME D270.1 TO MATCH EXISTING DOORS D270.1, D270g.1 AND D270h.1
- 270i ROOM NUMBER
- OFFICE
- ML# MILLWORK UNIT NUMBER. SEE DRAWING A2
- SS-1 HYGIENIC SOLID SURFACE
- 610x(220)mm LAY IN ACOUSTIC CEILING TILE AND GRID. (+2745) INDICATES ELEVATION ABOVE FINISH FLOOR.
- ACT-01 +2745
- EXP DENOTES EXPOSED CEILING
- PTD PAPER TOWEL DISPENSER
- SD SOAP DISPENSER
- VS VENT STACK. REFER TO MECHANICAL DRAWINGS
- MSD SANITARY DRAIN. REFER TO MECHANICAL DWG'S
- SH(E) SPRINKLER HEAD. REFER TO MECHANICAL DWG'S. (E) DENOTES EXISTING (N) DENOTES NEW
- SH(N)
- RG(E) RETURN GRILLE. REFER TO MECHANICAL DWG'S. (E) DENOTES EXISTING (N) DENOTES NEW
- RG(N)
- SG(E) SUPPLY GRILLE. REFER TO MECHANICAL DWG'S. (E) DENOTES EXISTING (R) DENOTES REMOVED AND RELOCATED
- SG(R)
- LF(E) LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS. (E) DENOTES EXISTING (R) DENOTES REMOVED AND RELOCATED
- LF(R)
- VLF SLIM LINE VALANCE LIGHT FIXTURE



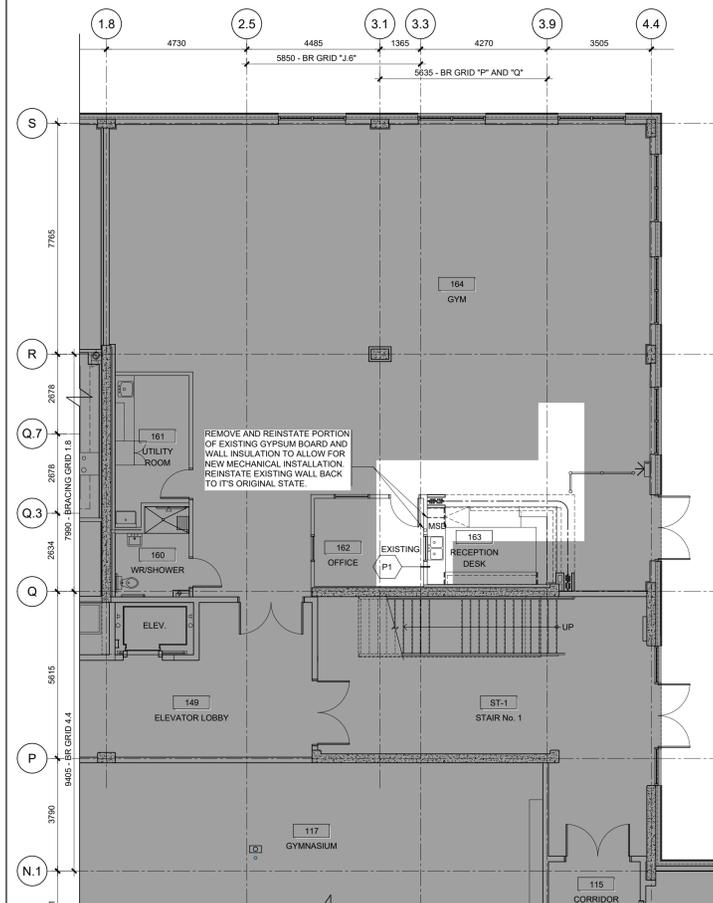
4 PARTIAL SECOND FLOOR REFLECTED CEILING PLAN
A1 1:100



2 PARTIAL SECOND FLOOR PLAN
A1 1:100



3 PARTIAL GROUND FLOOR REFLECTED CEILING PLAN
A1 1:100

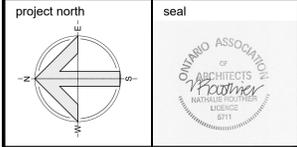


1 PARTIAL GROUND FLOOR PLAN
A1 1:100

no.	revision	date

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71 Bank Street, 7th Floor - Ottawa, Ontario, K1P 5N2
tel. 613.224.0095 fax 613.224.9811

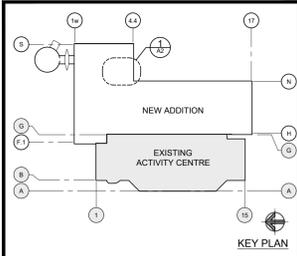
TOWN OF RENFREW
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NURSES STATION FIT-UP
1 MA-TE-WAY PARK DRIVE
RENFREW, ONTARIO, CANADA
K7V 4J4



drawing title
PARTIAL GROUND AND SECOND FLOOR PLANS

scale 1:100	drawn by
date SEPT. 2025	checked by N.R.
project number 17-230	drawing number A1

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES.
DO NOT SCALE DRAWINGS

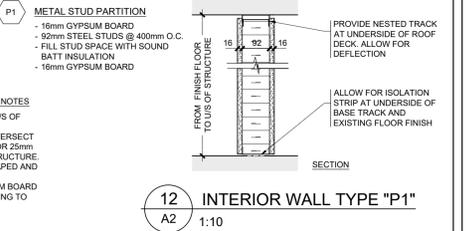
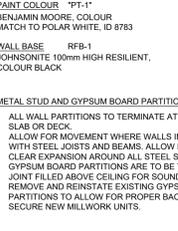
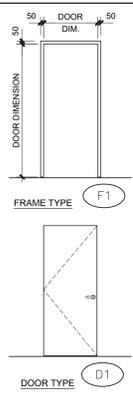


DOOR AND FRAME SCHEDULE:						
DOOR#	ROOM	DOOR	MATERIAL	TYPE	FRAME	DOOR HARDWARE
D270.1	OFFICE	965x2135mm	SW	D1	PS	F1 1S

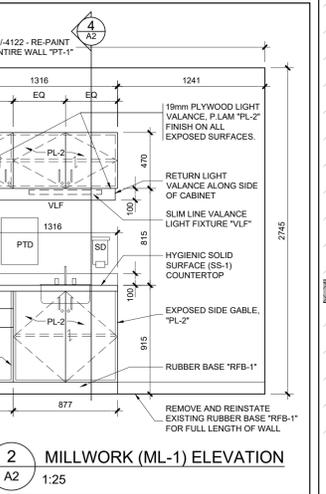
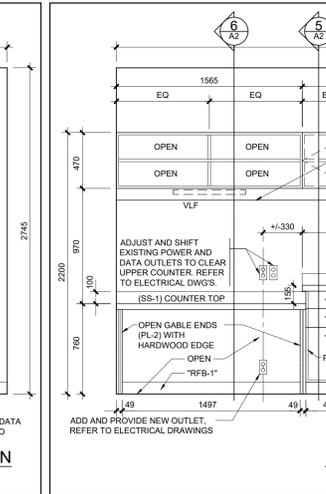
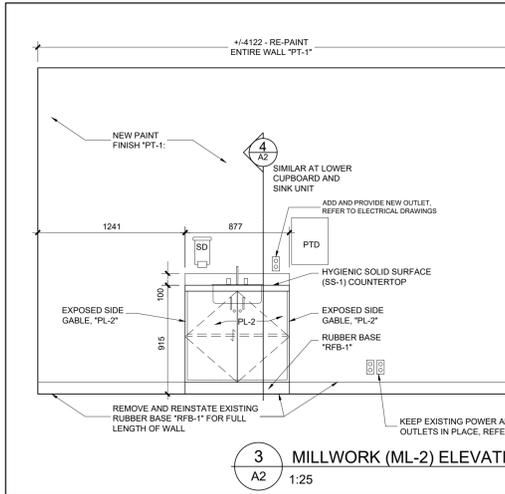
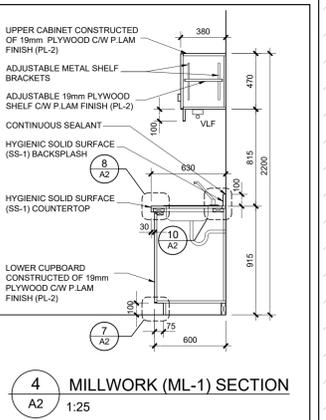
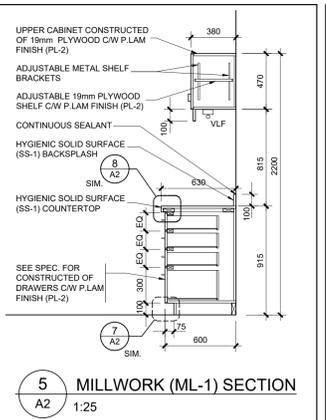
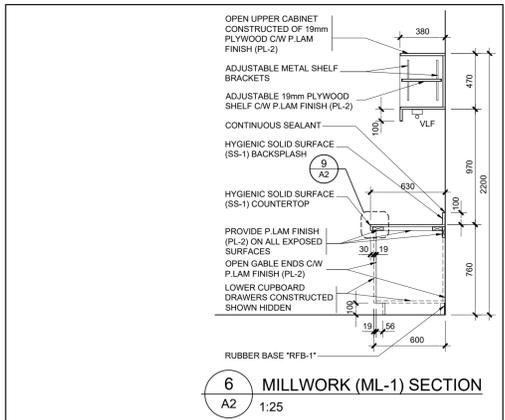
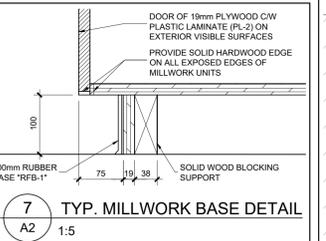
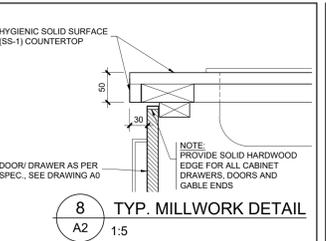
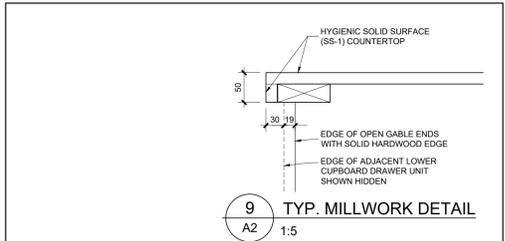
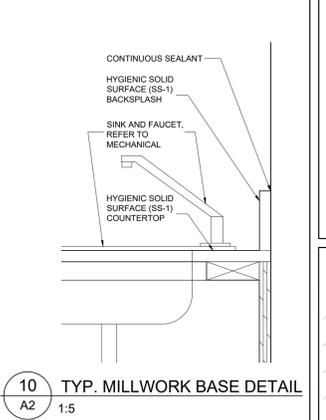
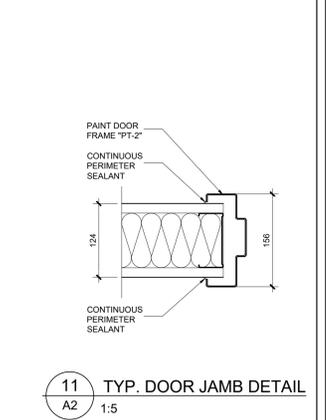
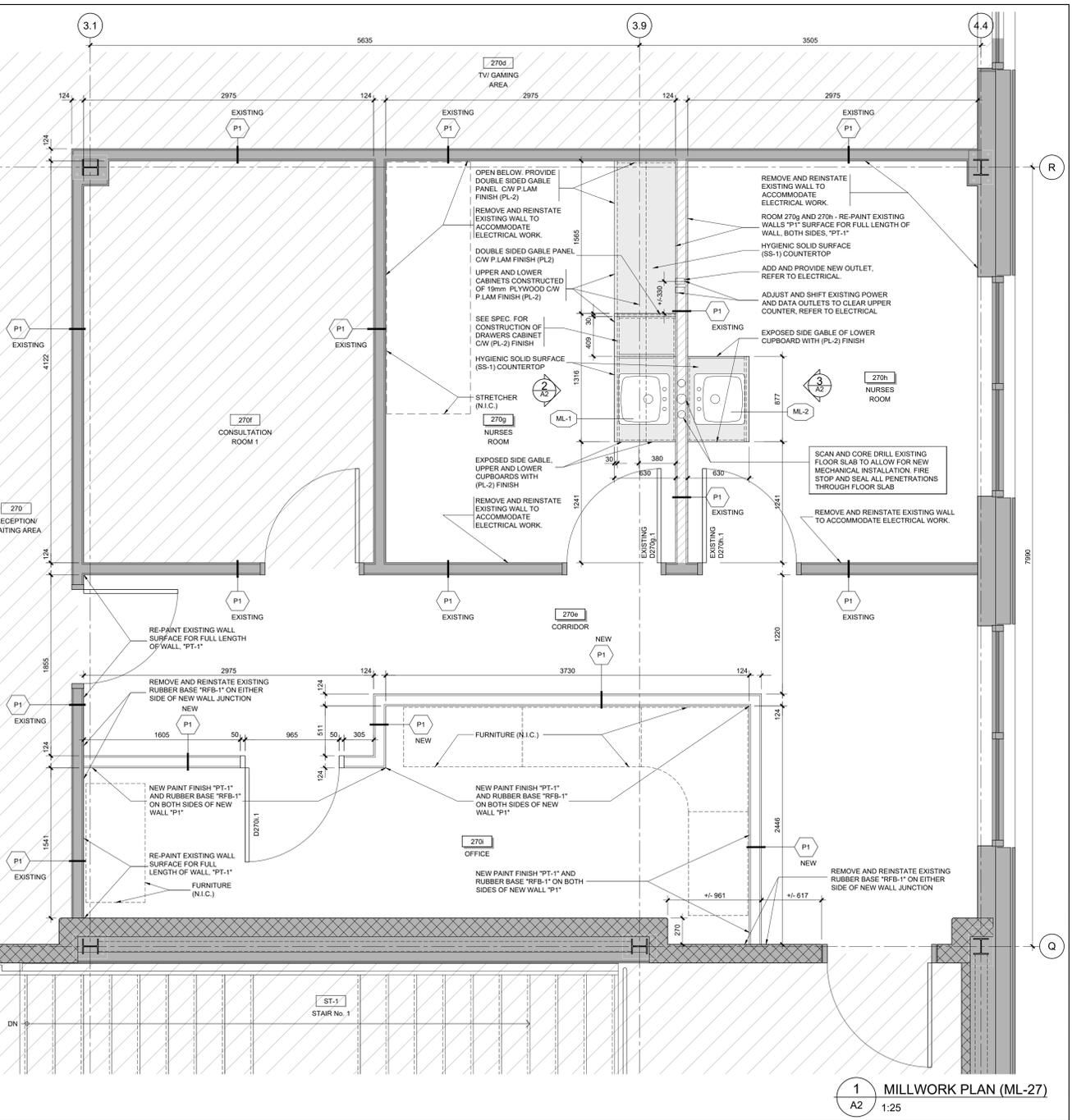
LEGEND		DOOR HARDWARE	DOOR, FRAME AND HARDWARE NOTES
SW	WOOD DOOR SERIES PCS-MO FLUSH SOLID CORE TYPE	HARDWARE GROUP 1	1. MOUNT ALL CLOSURES WITHIN THE ROOMS, NOT ON CORRIDOR OR LOBBY SIDE
PS	PRESSED STEEL, 16 GAUGE	3 HINGES, S, STD WT, FBB 179, 127mm x 102mm FINISH 260 MTGR. BH1	2. PROVIDE CUT-OUTS IN DOORS AND FRAMES FOR SECURITY HARDWARE REQUIREMENTS. SURFACE MOUNTED CONDUITS, WIRING OR CONTACTS WILL NOT BE PERMITTED WITHIN THE OFFICE AREA. PROVIDE WELDED BACK BOXES AND CONDUITS.
		1 CYLINDRICAL LOCK, 28-7005XLLKXD FINISH: US260 MTGR. SAR	3. DOOR HARDWARE IS ONLY TO BE INSTALLED BY TRADESMEN COMPETENT IN THE INSTALLATION OF FINISHING HARDWARE
		1 WALL STOP, S122 FINISH: 260 MTGR. STM	4. KNOCKDOWN FRAMES ARE NOT ACCEPTABLE
			5. PROVIDE A MINIMUM OF 3 DOOR SILENCERS PER DOOR, INSTALL AFTER FINISH PAINTING IS COMPLETED AND DRY.
			6. PROVIDE SOLID WOOD BLOCKING IN PARTITIONS AT LOCATION OF WALL STOPS.
			7. FINAL CYLINDERS ARE TO BE INSTALLED BY CLIENT'S LOCKSMITH.
			8. NEW DOOR D270.1, DOOR, FRAME AND HARDWARE TO MATCH THAT OF EXISTING DOOR D270h.1

- GENERAL NOTES:**
- FOR INTERIOR WALL TYPE ASSEMBLIES "P1" REFER TO DETAIL 12 ON DRAWING A2.
 - REFER TO TYPICAL LEGEND ON DRAWING A1.
 - FOR GROUND FLOOR AND SECOND FLOOR FIRE RATING PLANS REFER TO DRAWING A3. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR WORK OUTSIDE OF AREA SHOWN ON DETAIL 1A2. ALL EXISTING RATED WALLS ARE TO BE REINSTATE BACK TO ITS ORIGINAL STATE TO MEET THE REQUIRED FIRE RATING.
 - PRIOR TO COMMENCING WORK, CONFIRM AND VERIFY ALL DIMENSIONS ON SITE.
 - REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DEMOLITION AND NEW WORK. PATCH AND MAKE GOOD WALLS TO MATCH EXISTING.
 - REPAIR ALL FINISHES AFFECTED BY DEMOLITION WORK OF ARCHITECTURAL, MECHANICAL AND ELECTRICAL ELEMENTS. PATCH AND MAKE GOOD TO MATCH EXISTING.
 - MECHANICAL AND ELECTRICAL ELEMENTS SHOWN ON ARCHITECTURAL PLANS ARE FOR COORDINATION PURPOSES ONLY. REFER TO DRAWINGS AND SPECIFICATIONS BY MECHANICAL AND ELECTRICAL DISCIPLINES. IN EVENT OF DISCREPANCY CONTACT ARCHITECT PRIOR TO INSTALLATION.
 - REFER TO MECHANICAL AND ELECTRICAL WORK FOR CORE DRILLING OF EXISTING RATED SECOND FLOOR CONCRETE SLAB. FIRE STOP AND SEAL ALL PENETRATIONS THROUGH EXISTING CONCRETE FLOOR SLAB.

- SCOPE OF WORK:**
- NEW DOOR D270.1:**
- HOLLOW METAL DOOR FRAME AND WOOD DOOR TO MATCH THAT OF DOOR D270g.1, SOLID PARTICLE BOARD CORE WOOD DOOR BLOCKING AND 5 PLY CONSTRUCTION HARDWOOD VENEER GRADE, GRADE 1 (PREMIUM).
 - DOOR HARDWARE TO MATCH THAT OF DOOR D270g.1.
 - KEYING OF NEW DOOR TO MATCH THAT OF DOOR D270.1 KEYING OF DOOR TO BE KEYPED TO MASTER KEY AS DIRECTED BY OWNER. PROVIDE 3 KEYS AND 3 MASTER KEYS.
- ROOM 270e AND 270i:**
- PROVIDE NEW WALL TYPE "P1 NEW" WITH PAINT FINISH TO MATCH THAT OF EXISTING ADJACENT WALLS IN ROOM 270e.
 - REMOVE, REINSTATE AND PROVIDE NEW (BLACK) RUBBER BASE ALONG WALL TYPE "P1 NEW".
 - REMOVE AND PROVIDE NEW ACOUSTIC CEILING TILE AND GRID. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DEMOLITION AND NEW CEILING FIXTURE PLACEMENTS WITHIN BOTH THESE ROOMS.
 - FOR FULL HEIGHT WALL TYPE "P1 NEW" REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR NEW WORK.
 - PROTECT EXISTING FLOOR FINISH AND WALL FINISH FOR DURATION OF DEMOLITION AND NEW WORK.
- ROOM 270g AND 270h:**
- PROVIDE NEW MILLWORK UNITS "ML-1" AND "ML-2".
 - ALONG NEW MILLWORK UNITS REMOVE AND REINSTATE EXISTING WALL "P1 EXISTING" TO ACCOMMODATE MECHANICAL AND ELECTRICAL WORK.
 - ALONG NEW MILLWORK UNITS REMOVE AND REINSTATE EXISTING RUBBER BASE.
 - REMOVE AND REINSTATE EXISTING ACOUSTIC CEILING TILE TO ACCOMMODATE MECHANICAL AND ELECTRICAL WORK.
 - PROTECT EXISTING FLOOR FINISH, WALL FINISH, CEILING, DOOR AND DOOR FRAME FOR DURATION OF DEMOLITION AND NEW WORK.



- NOTE - CONCRETE FLOOR SLAB CORE DRILLING**
- FLOOR SCANNING RESULTS TO INCLUDE, FOR EACH CORE, THE CORE DIAMETER, LOCATION TIED TO GRID LINES, NUMBER OF REINFORCING BARS IN CONFLICT, DEPTH OF BAR (FOR EX. TOP OR BOTTOM IF IN SLAB) AND DIRECTION OF BARS.
 - RETAIN A SCANNING COMPANY THAT PROVIDES LOCATION INFORMATION TO AN ACCURACY OF 25mm OR LESS AND CAN SCAN CONCRETE STRUCTURES UP TO 450mm IN DEPTH OR MORE.
 - SUBMIT A SIGNED SUMMARY REPORT THAT PROVIDES AND DISTINGUISHES THE INFORMATION ABOVE BY MEANS OF A COLOURED SCALED MAP WITH A REFERENCE POINT OF EITHER AN ESTABLISHED GRID LINE OR EXPOSED VERTICAL CONCRETE ELEMENT (COLUMN, SHEAR WALL, ETC.).
 - THE REPORT SHALL STATE THE ACCURACY OF THE SCANNING (TOLERANCE OF REBAR POSITIONING RELATED TO THE INDICATED LOCATION ON SITE).
 - REVIEW FOR ANY OBSTRUCTIONS ON THE BACKSIDE OF THE CONCRETE ELEMENT (FOR EX. SURFACE-MOUNTED CONDUIT, DUCTWORK, RCP, INSULATION).
 - UPDATE SCANNING REPORT ACCORDING TO THESE FINDINGS.
 - COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF CORE DRILLING.

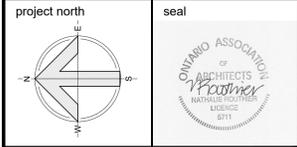


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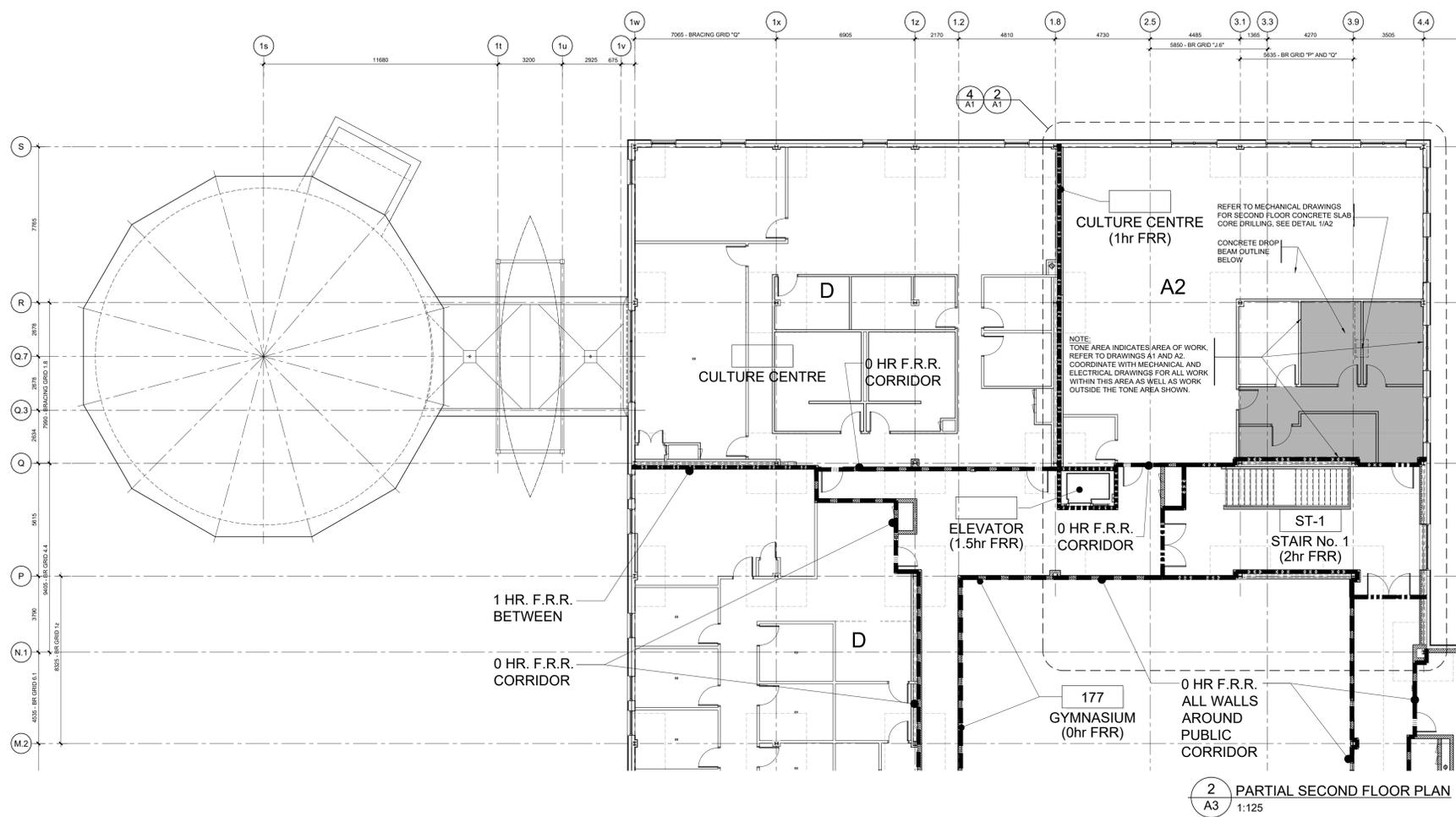
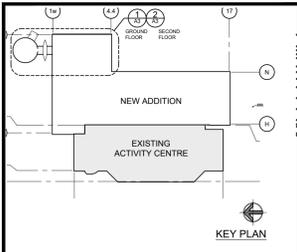
N45 ARCHITECTURE INC.
71 Bank Street, 7th Floor - Ottawa, Ontario, K1P 5N2
tel. 613.224.0095 fax 613.224.9811

TOWN OF RENFREW
NEW ADDITION AND RENOVATION TO THE
MA-TE-WAY ACTIVITY CENTRE
NURSES STATION FIT-UP

1 MA-TE-WAY PARK DRIVE
RENFREW, ONTARIO, CANADA
K7V 4J4



drawing title PARTIAL SECOND FLOOR PLAN, ELEVATIONS AND MILLWORK SECTIONS	
scale AS NOTED	drawn by
date SEPT. 2025	checked by N.R.
project number 17-230	drawing number A2
CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES.	
DO NOT SCALE DRAWINGS	revision



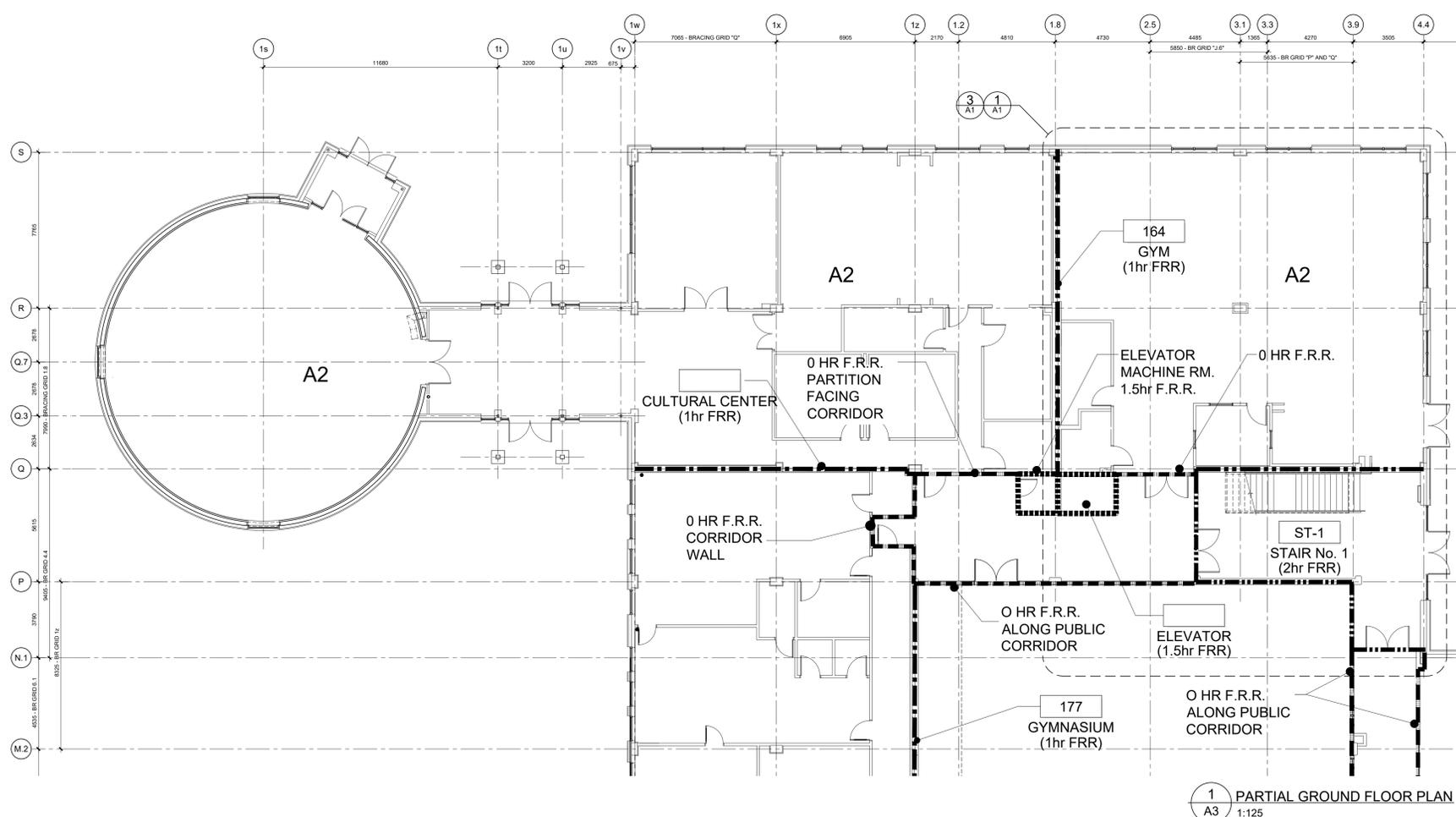
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Certificate of Practice Number: 4595
 Enter address and local information here:
 71 Bank Street, 7th Floor,
 Ottawa, Ontario, K1P 5N2
 (613) 224-0095
 The Certificate of Practice Number of the holder is the holder's BCEN.

The architect noted above has exercised responsible control with respect to design activities. The architect's seal number is the architect's BCEN.

Name of Project: NEW ADDITION AND RENOVATION TO THE MA-TE-WAY ACTIVITY CENTRE
Location: 1 MA-TE-WAY PARK DRIVE RENREW, ONTARIO, CANADA K7V 4J4

Item	2012 Ontario Building Code, Latest Edition Data Matrix Part 3 or 9				OBC Reference	
	Part 11	Part 11.1 to 11.4	Part 3	Part 9	Division A	Division C
1 Project Description:	<input type="checkbox"/> New	<input type="checkbox"/> Addition	<input type="checkbox"/> Part 11	<input type="checkbox"/> Part 3	<input type="checkbox"/> Part 9	
2 Major Occupancy(s):	<input type="checkbox"/> Group A Div. 3, Group A Div. 2, Group D					
3 Building Area (m ²):	Existing 3494.1 m ²	New 5737.26 m ²	Total 9,231.36 m ²	3.1.2.1.(1)	N/A	
4 Gross Area:	Existing 4754 m ²	New 8920 m ²	Total 13,674 m ²	1.4.1.2. [A]	N/A	
5 Number of Storeys:	Above grade 2	Below grade 0		1.4.1.2. [A] & 3.2.1.1.(7)	N/A	
6 Number of Streets/Fire Fighter Access:	1			3.2.2.10. & 3.2.5.	N/A	
7 Building Classification:	3.2.2.29(A3), 3.2.2.24(A2) & 3.2.2.51(D)			3.2.2.29-24-51	N/A	
8 Sprinkler System Proposed:	<input type="checkbox"/> entire building	<input type="checkbox"/> selected compartments	<input type="checkbox"/> selected floor areas	<input type="checkbox"/> basement	<input type="checkbox"/> in lieu of roof rating	<input type="checkbox"/> not required
9 Standpipe required:	<input type="checkbox"/> Yes	<input type="checkbox"/> No				3.2.2.29-24-51
10 Fire Alarm required:	<input type="checkbox"/> Yes	<input type="checkbox"/> No				3.2.4. & CANULC-SS24.
11 Water Service/Supply is Adequate:	<input type="checkbox"/> Yes	<input type="checkbox"/> No				3.2.5.7.
12 High Building:	<input type="checkbox"/> Yes	<input type="checkbox"/> No				3.2.6.
13 Construction Restrictions:	<input type="checkbox"/> Combustible permitted	<input type="checkbox"/> Non-combustible required	<input type="checkbox"/> Both			3.2.2.29-24-51
Actual Construction:	<input type="checkbox"/> Combustible	<input type="checkbox"/> Non-combustible	<input type="checkbox"/> Both			
14 Mezzanine(s) Area: 0 m ²						3.2.1.1.(3)-(8)
15 Occupant load based on:	<input type="checkbox"/> m ² /person	<input type="checkbox"/> design of building				3.1.17.
Basement:	Occupancy: n/a					
1st Floor:	Occupancy: A2, A3, D	Load 960 persons				
2nd Floor:	Occupancy: A2, D	Load 390 persons				
16 Barrier-free Design:	<input type="checkbox"/> Yes	<input type="checkbox"/> No				3.8.
17 Hazardous Substances:	<input type="checkbox"/> Yes	<input type="checkbox"/> No				3.3.1.2. & 3.3.1.19.
18 Required Fire Resistance Rating (FRR):	Horizontal Assemblies	FRR (Hours)	Listed Design No. or Description (SB-2)			3.2.2.29-24-51
Floors:	2 Hour		ULC FIRE - TYPE N CONCRETE			
Roof:	No fire separation required					
Mezzanine:	n/a					
FRR of Supporting Members:			Listed Design No. Or Description (SB-2)			
Floors:	2 Hour		300mm CAST IN PLACE CONCRETE COLUMNS & SHEARWALLS 300mm TYPE N			
Roof:	n/a					
Mezzanine:	n/a					

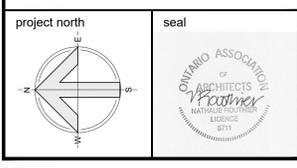
NOTE: INFORMATION SHOWN ABOVE TAKEN FROM EXISTING BUILDING CONDITIONS



RE-ISSUED FOR PERMIT / TENDER	2026-02-06	
ISSUED FOR PERMIT	2026-01-20	
ISSUED FOR TENDER	2026-01-14	
no.	revision	date

N45 ARCHITECTURE INC.
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 tel. 613.224.0095 fax 613.224.9811

TOWN OF RENREW
 NEW ADDITION AND RENOVATION TO THE MA-TE-WAY ACTIVITY CENTRE NURSES STATION FIT-UP
 1 MA-TE-WAY PARK DRIVE
 RENREW, ONTARIO, CANADA
 K7V 4J4



drawing title PARTIAL GROUND AND SECOND FLOOR FIRE RATING PLANS	
scale AS NOTED	drawn by
date OCT. 2025	checked by N.R.
project number 17-230	drawing number A3
CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES.	
DO NOT SCALE DRAWINGS	

NEW ADDITION AND RENOVATION TO THE MA-TE-WAY ACTIVITY CENTRE

1 MA-TE-WAY PARK DRIVE, RENFREW, ONTARIO

MECHANICAL



Client

GENERAL LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING PIPING/DUCTWORK/EQUIPMENT
----	EXISTING PIPING/DUCTWORK/EQUIPMENT TO BE REMOVED/RELOCATED
---	NEW/RELOCATED PIPING/DUCTWORK/EQUIPMENT
---	EXISTING PIPING/DUCTWORK/EQUIPMENT BELOW SLAB
---	NEW PIPING/DUCTWORK/EQUIPMENT BELOW SLAB
(E)	DENOTES EXISTING EQUIPMENT
(R)	DENOTES RELOCATED EQUIPMENT
(X)	DENOTES NEW EQUIPMENT
(N)	DENOTES EQUIPMENT TO BE REMOVED

FIRE PROTECTION LEGEND	
SYMBOL	DESCRIPTION
---	SPRINKLER PIPE
---	FIRE DEPARTMENT CONNECTION PIPE
---	PIPE UP
---	PIPE DOWN
---	CONCEALED SPRINKLER

DRAWING LIST	
SYMBOL	DESCRIPTION
MD.1	MECHANICAL DRAWING LIST, LEGENDS, AND GENERAL NOTES
M1.1	MECHANICAL SECOND FLOOR FIRE PROTECTION YOUTH CENTRE
M2.1	MECHANICAL GROUND & SECOND FLOOR PLUMBING
M3.1	MECHANICAL SECOND FLOOR HVAC YOUTH CENTRE REMOVALS
M3.2	MECHANICAL SECOND FLOOR HVAC YOUTH CENTRE NEW WORK

HVAC LEGEND	
SYMBOL	DESCRIPTION
---	RECTANGULAR DUCTWORK
---	ROUND DUCTWORK
---	ACOUSTICALLY LINED DUCTWORK (RETURN OR SUPPLY)
---	THERMALLY INSULATED DUCTWORK (RETURN OR SUPPLY)
---	ROUND DUCTWORK OFFSET
---	RECTANGULAR DUCTWORK OFFSET
---	DUCTWORK UP
---	DUCTWORK DOWN
---	TAKE-OFF C/W BALANCING DAMPER
---	TAKE-OFF
---	SQUARE SUPPLY DIFFUSER (TYPE)
---	LINEAR SUPPLY DIFFUSER (TYPE)
---	RETURN GRILLE (RG)
---	EXHAUST GRILLE (EG)
---	TRANSFER GRILLE (TG)
---	WALL GRILLE (TYPE)
---	LOUVER (L)
---	TRANSFER OPENING (TO)
---	ACOUSTICALLY LINED TRANSFER DUCT (TO)
---	FIRE DAMPER (FD)
---	BACK DRAFT DAMPER (BDD)
---	FLEXIBLE CONNECTION
---	VARIABLE AIR VOLUME BOX (VAV)
---	INLINE CABINET FAN (TYPE)
---	DEFUSER TAG
---	GRILLE TAG
---	ARFLOW (L/S)(CFM)
---	SIZE (mm)(in)
---	GRILLE TAG
---	ARFLOW (L/S)(CFM)
---	DIMENSIONS (mm)(in)

CONTROLS LEGEND	
SYMBOL	DESCRIPTION
---	LOW VOLTAGE CONTROL WIRING
---	THERMOSTAT

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
---	PIPING BELOW GRADE/SLAB
---	DOMESTIC COLD WATER PIPING
---	DOMESTIC HOT WATER PIPING
---	DOMESTIC HOT WATER RECIRCULATION PIPING
---	TEMPERED WATER
---	SANITARY PIPING
---	STORM PIPING
---	CONDENSATE DRAIN
---	FLOOR DRAIN (TYPE)
---	BRANCH PIPING DOWN
---	PIPING OFFSET
---	PIPING DOWN
---	PIPING UP
---	PIPE BREAK
---	DRAIN ASSEMBLY
---	CLEAN OUT
---	WALL CLEAN OUT
---	FLOOR CLEAN OUT
---	ISOLATION VALVES

MECHANICAL SPECIFICATIONS	
1.	FIRE PROTECTION PIPING: 1.1 ALL COMPONENTS WITHIN THE SYSTEM TO BE F.M. & ULC LISTED, WORKING PRESSURE NOT LESS THAN 175 PSI. 2. PIPING PER NFPA 13 & 14. 3. FITTINGS AND JOINTS TO ANSI/NFPA 13: 1. FERROUS: SCREWED, WELDED, FLANGED OR ROLL GROOVED. 2. FLEXIBLE SPRINKLER DROPS: 1. BRANDED FLEXIBLE STAINLESS STEEL SPRINKLER DROPS, C-14-15 & F.M. LISTED FOR FIRE PROTECTION SERVICE FOR INSTALLATION ON SUSPENDED CEILING GRIDS, WOOD OR METAL STUD/JOIST OR FURRING CHANNELS. 2. 25 MM (1") NOMINAL ID BRASS HOSE & FITTING MADE OF 304 STAINLESS STEEL, 1206 KPA (175 PSI) MAXIMUM WORKING PRESSURE, 178 MM (7") MINIMUM BENDING RADIUS WITH LENGTH OF 750 MM TO 1800 MM AS PER C-14-15. THE MAXIMUM AMOUNT OF ALLOWABLE BENDS AS PER C-14-15 ARE AS FOLLOWS: 750 MM (30") (10 BENDS); 1200 MM (48") (8 BENDS); 1500 MM (60") (7 BENDS); 1800 MM (72") (12 BENDS). 4. A STEEL BRACKET WITH SQUARE BAR, ADJUSTABLE CENTRE BRACKET & ADJUSTABLE END BRACKETS SUITABLE FOR CEILING TYPES. END BRACKET SHALL HAVE PERMANENT SECUREMENT TO CEILING SYSTEM. 5. ACCEPTABLE MATERIAL: VICTALUX M10, VOLEX AH2; WIKING MODEL V9D288. 6. P.M. & ULC LISTED FOR FIRE PROTECTION SERVICES. 7. PIPING SHALL BE SEISMICALLY RESTRAINED AS PER NFPA REQUIREMENTS.
2.	WET PIPE SPRINKLERS: 1. CONCEALED: QUICK RESPONSE FOR HAZARD COVERAGE AS INDICATED, 5.6 K FACTOR, ENCLOSED ESCUTCHEON, SEPARATE TWO-PIECE DESIGN OF MOUNTING CAP & COOPERATE. INTERNAL THREADED CLOSURE, 68°C (153°F) RATED, 13 MM (1/2") ADJUSTMENT, F.M. APPROVED, FINISH TO MATCH EXISTING, GLASS BULB TYPE AND COVER. 2. INSTALLED AND TEST EQUIPMENT TO MANUFACTURER'S STANDARDS.
3.	FIRE PROTECTION INSTALLATION AND TESTING: 1. INSPECT, INSPECT AND TEST TO ACCEPTANCE IN ACCORDANCE WITH NFPA (FIRE) 13 & 14. 2. INSTALL AND TEST EQUIPMENT TO MANUFACTURER'S STANDARDS.
4.	INSTALLATION OF PIPEWORK: 1. CLEARANCES: 1. PROVIDE CLEARANCES AROUND SYSTEMS, EQUIPMENT AND COMPONENTS FOR OPERATION, INSPECTION, SERVICING, MAINTENANCE AND AS RECOMMENDED BY MANUFACTURER'S LITERATURE. 2. PIPING WORK INSTALLATION: 1. SCREWED FITTINGS TO BE JOINED WITH MATERIAL SMALLER THAN POLYETHYLENE (PIE) THREAD SEAL TAPE. 2. PROTECT OPENINGS AGAINST ENTRY OF FOREIGN MATERIAL. 3. ASSURE PROPER FITTING MATTERING TO ANSI STANDARDS. 4. EXCEPT WHERE INDICATED OTHERWISE, SLOPE PIPING IN THERMAL INSULATION OF EACH PIPE. 5. GROUP PIPING WHEREVER POSSIBLE AND AS INDICATED. 6. USE EXISTING REDUCERS AT PIPE SIZE CHANGES TO ENSURE POSITIVE DRAINAGE AND VENTING. 7. USE DIELECTRIC COUPLINGS WHERE DISSIMILAR METALS ARE JOINED. 3. SLEEVES: 1. INSTALL WHERE PIPES PASS THROUGH CONCRETE STRUCTURES AND FIRE RATED ASSEMBLIES. 2. MATERIAL: SCHEDULE 40 BLACK STEEL PIPE. 3. PROVIDE SPACE FOR FIRE STOPPING, MAINTAIN FIRE RATING INTEGRITY, ENSURE NO CONTACT BETWEEN COPPER PIPE OR TUBE AND SLEEVE. 4. FIRE STOPPING: 1. SEAL ALL PENETRATIONS OF COPPER/STEEL PIPING THROUGH FIRE SEPARATIONS (E.G. WALL/SLAB) WITH ULC LISTED FIRE STOP CALKING. 2. SEAL ALL PENETRATIONS OF NON-METALLIC PIPING THROUGH FIRE SEPARATIONS (E.G. WALL/SLAB) WITH ULC LISTED FIRE STOP COULINGS. 3. ALL FIRE STOPPING SHALL BE INSTALLED IN ACCORDANCE WITH ULC LISTING.
5.	DOMESTIC HOT & COLD WATER PIPING: 1. ABOVE GROUND: COPPER TUBE, HARD DRAWN, TYPE "L", TO ASTM B88M. 2. BURIED OR EMBEDDED: COPPER TUBE, SOFT ANNEALED, TYPE K; TO ASTM B88M, IN LONG LENGTHS AND WITH NO BURIED JOINTS. 3. WROUGHT COPPER FITTINGS. 4. LEAD FREE SOLDER, BRASS OR SILVER SOLDER (SILFOS 5, 5% SILVER). 5. BALL VALVES: 1. NPS 2" AND UNDER, SCREWED OR SOLDERED. 2. BRONZE BODY, STAINLESS STEEL BALL, PIPE TEFLON ADJUSTABLE PACKING, BRASS BLAND AND PIPE TEFLON SEAL, STEEL LEVER HANDLE. 3. ACCEPTABLE MATERIAL: CRANE OR EQUAL. 6. ENSURE ALL NEW PIPING HAS BEEN CLEANED, FLUSHED, AND SANITIZED PRIOR TO INSTALLATION. 7. POTABLE WATER PIPING AND COMPONENTS SHALL COMPLY WITH NSF/ANSI 61 ANEX C. 8. DRAINAGE, WASTE & VENT PIPING: 1. ABOVE GROUND: COPPER TUBE, SOLDER: 95% 50/50 TO ASTM B32-002, TYPE 50A. 2. FIRE & SMOKE RESISTANT COATED DWV PVC PIPING & FITTINGS, PEX SYSTEM XFR 25/50 PVC-DWV, ABOVE GRADE. 3. SLOPE SANITARY DRAIN ACCORDING TO CODE. 4. INSTALL IN ACCORDANCE WITH CANADIAN PLUMBING CODE, PROVINCIAL PLUMBING CODE AND LOCAL AUTHORITY HAVING JURISDICTION.

GENERAL NOTES:	
1.	ALL WORK SHOWN OR IMPLIED ON THESE DRAWINGS SHALL BE CARRIED OUT IN ACCORDANCE WITH: A. ALL CODES AND LAWS APPLICABLE (CBC) B. IN ACCORDANCE WITH CANADIAN LATEST EDITION (DUCTWORK) C. IN ACCORDANCE WITH FM & NFPA (FIRE PROTECTION) D. IN ACCORDANCE WITH ULC STANDARDS
2.	PRIOR TO SUBMITTING TENDERS, EACH TRADE SHALL EXAMINE THE SITE TO DETERMINE THE CONDITIONS WHICH MAY AFFECT THE PROPOSED WORK. NO CLAIM FOR EXTRA PAYMENT WILL BE CONSIDERED BECAUSE OF FAILURE TO FULFILL THIS CONDITION. START OF WORK WILL BE DEEMED EVIDENCE OF ACCEPTANCE OF, AND SATISFACTION WITH, EXISTING CONDITIONS.
3.	THE DRAWINGS SHALL BE CONSIDERED TO SHOW THE GENERAL CHARACTER AND SCOPE OF THE WORK AND NOT THE EXACT DETAILS OF THE INSTALLATION. THE INSTALLATION SHALL BE COMPLETE WITH ALL ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIVE INSTALLATION.
4.	MECHANICAL CONTRACTOR IS RESPONSIBLE TO FIELD MEASURE LOCATION OF NEW OR RELOCATED EQUIPMENT TO VERIFY CLEARANCES WITH THE MANUFACTURER PRIOR TO ORDERING.
5.	THESE MECHANICAL DRAWINGS MUST BE READ IN CONJUNCTION WITH THE ARCHITECTURAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.
6.	THE WORD "PROVIDE" SHALL DENOTE "DRAWS AND INSTALL". THE WORD "TAB" SHALL DENOTE "TESTING, ADJUSTING, AND BALANCING".
7.	CONTRACTOR SHALL FOLLOW THE BIDDING DOCUMENT PROJECT SCHEDULE UPON AWARD, CONTRACTOR SHALL SUBMIT WORK SCHEDULE TO PROJECT MANAGER & ENGINEER FOR APPROVAL.
8.	THE MECHANICAL CONTRACTOR SHALL COORDINATE THE WORK WITH ALL OTHER TRADES AND THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR COMMUNICATING SAFETY REQUIREMENTS TO HIS EMPLOYEES AND COMPLYING WITH OCCUPATIONAL HEALTH AND SAFETY ACT.
9.	CONTRACTOR TO PROVIDE, PRIOR TO COMMENCEMENT OF WORK, ONTARIO MINISTRY OF LABOUR CONTRACTOR REGISTRATION FORM AS WELL AS A CURRENT SIGNED AND DATED CORPORATE HEALTH AND SAFETY POLICY.
10.	CONTRACTOR TO PROVIDE FOR THE USE OF HIS WORK FORCE A FIRST AID KIT REQUIRED TO WSIB AND MOL.
11.	PAY ALL REQUIRED FEES AND PERMITS.
12.	WORKMANSHIP AND MATERIALS SHALL MATCH OR EXCEED THAT OF THE EXISTING AS PRESENTED BY THE PROJECT MANAGER.
13.	ALL WORK TO BE CONDUCTED DURING HOURS SPECIFIED BY THE PROJECT MANAGER.
14.	ALL CHANGES AND CONNECTIONS TO EXISTING SERVICES, REGARDING THE SCHEDULE OF THAT WORK SHALL BE MADE AT THE TIME OF THE WORK BY THE PROJECT MANAGER, UNLESS OTHERWISE STATED.
15.	THE CONTRACTOR SHALL AT ALL TIMES KEEP PREMISES FREE FROM THE ACCUMULATION OF WASTE MATERIAL TO THE SATISFACTION OF THE PROJECT MANAGER. THE CLEANING AND REMOVAL OF WASTE SHALL BE THE CONTRACTOR'S OBLIGATION. PLACE DUST PROTECTION IN THE FORM OF COVER SHEETS OVER EQUIPMENT AND FURNITURE TO ENSURE NO DUST INFILTRATION.
16.	COORDINATE MATERIAL STORAGE WITH THE SITE SUPERINTENDENT AND OTHER TRADES.
17.	MANUFACTURER'S INSTRUCTIONS REGARDING THE HANDLING, INSTALLATION AND TESTING OF EQUIPMENT SPECIFIED HEREIN SHALL BE CONSIDERED PART OF THIS SPECIFICATION.
18.	SUPPLY TOOLS, EQUIPMENT AND PERSONNEL TO DEMONSTRATE AND INSTRUCT OPERATING AND MAINTENANCE PERSONNEL IN OPERATING, MAINTAINING, ADJUSTING, TROUBLESHOOTING AND SERVICING OF ALL SYSTEMS AND EQUIPMENT DURING REGULAR WORK HOURS, PRIOR TO ACCEPTANCE.
19.	INSPECT ALL NEW, RELOCATED, AND EXISTING EQUIPMENT WITHIN SCOPE OF WORK. INSPECT EQUIPMENT AT THE BEGINNING OF THE PROJECT, OR UPON DELIVERY, AND NOTIFY PROJECT ENGINEER OF ANY DAMAGE OR DEFICIENCIES.
20.	ALL EQUIPMENT, PIPING, DUCTWORK AND WIRING SHALL BE SUSPENDED FROM THE BUILDING STRUCTURE. 1. PROVIDE BLACK WITH WHITE WRITING LAMACOD PLATE ON ALL NEW EQUIPMENT. LABEL UNIT AS SHOWN ON DRAWINGS. LETTERING SIZE TO BE MINIMUM 25MM HIGH. MOUNT NEAR CONTROL SECTION OF THE UNIT. 2. PROVIDE CUTTING, PATCHING AND CORING OF ALL WALLS, CEILING AND OTHER SURFACES AS REQUIRED FOR MECHANICAL WORK. CHECK WITH BUILDING MANAGEMENT PRIOR TO CORE DRILLING AND CUTTING OF FLOOR SLAB REGARDING BUILDING REQUIREMENTS AND POLICIES. PRIOR TO SLAB CUTTING OR CORING, SCAN THE SLAB USING GPR TECHNOLOGY TO COORDINATE DRILLING TO MINIMIZE CUTTING OF THE REINFORCING STEEL AND CONDUIT. FIRE STOP ALL NEW FIRE RATED PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATINGS. THE CONTRACTOR IS TO INCLUDE IN TENDER PRICE ALL WORK ASSOCIATED WITH CORE DRILLING AFTER NORMAL WORKING HOURS. OBTAIN WRITTEN VERIFICATION OF LOCATIONS FROM THE STRUCTURAL ENGINEER OF RECORD PRIOR TO DRILLING. CUTTING TORCHES SHALL NOT BE USED FOR MAKING HOLES. PATCH ALL HOLES THROUGH SLAB WITH FIRE-STOP CALKING (ULC LISTED). PATCHED SURFACES ARE TO BE PRIME FINISHED, READY FOR FINAL COVERING BY OTHERS (COORDINATE WITH ROOFING CONTRACTOR).
21.	CONTRACTOR SHALL BE RESPONSIBLE FOR DECONTAMINATION, DRAINING, RINSING AND REACTIVATING OF WET PIPE SPRINKLER SYSTEM OR STANDPIPE ON A DAILY BASIS. COORDINATE WITH OWNER.
22.	COORDINATE DUCTWORK ROUTING PRIOR TO DUCT FABRICATION; IF MODIFICATIONS ARE REQUIRED, REUSE DUCT SIZE TO MAINTAIN CROSS SECTIONAL AREA.
23.	ALLOW FOR 1500 MM OF ADJUSTMENT FOR EXACT LOCATION OF AIR HANDLING UNITS, PUMPS, DUCTS, PIPING, ETC. AT NO EXTRA COST OR CREDIT.
24.	PRIOR TO CLOSING OF CEILINGS, MECHANICAL CONTRACTOR SHALL NOTIFY THE ENGINEER THAT AN INSPECTION IS REQUIRED BEFORE PROCEEDING.
25.	CONTRACTOR TO NOTIFY PROJECT MANAGER 3 DAYS BEFORE SCHEDULED SUBSTANTIAL COMPLETION TO ARRANGE INTERIM INSPECTION AND EQUIPMENT COMMISSIONING. NOTIFY PROJECT MANAGER IN WRITING OF ANY CHANGES IN SCHEDULE.
26.	UNLESS INDICATED OTHERWISE PROVIDE ONE (1) YEAR WARRANTY STARTING AT SUBSTANTIAL COMPLETION FOR ALL NEW SYSTEMS INCLUDING MATERIALS, EQUIPMENT & LABOUR.
27.	MECHANICAL CONTRACTOR SHALL ASSIST ON ALL THE INTEGRATED TESTING OF FIRE AND LIFE SAFETY SYSTEMS, AS REQUIRED BY CAN/ULC-S1001.

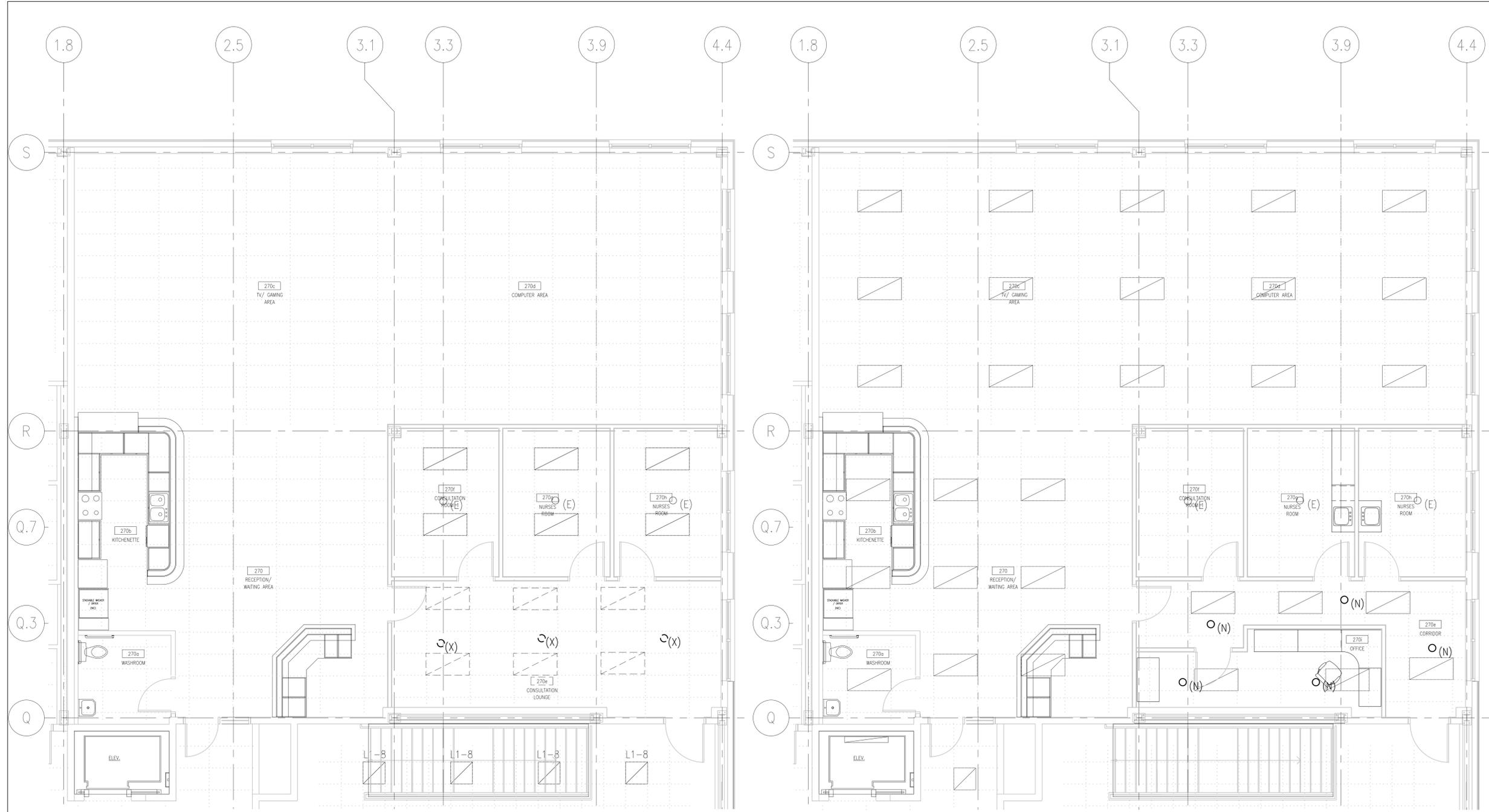
SUBMITTALS:	
1.	SUBMIT ONE(1) COPY OF SHOP DRAWINGS AND PRODUCT DATA IN ELECTRONIC PDF FORMAT FOR ENGINEER'S REVIEW PRIOR TO PURCHASING AND ORDERING. HARD COPY SHOP DRAWINGS WILL NOT BE ACCEPTED. REVISIONS TO SHOP DRAWINGS WILL BE RE-DISTRIBUTED AS PER PROJECT MANAGER'S INSTRUCTIONS. SHOP DRAWINGS SHALL INCLUDE ALL SPECIFIED EQUIPMENT & SYSTEMS. PROVIDE SUBMITTALS IN ACCORDANCE WITH APPLICABLE CODES REQUIRED FOR OCCUPANCY INCLUDING BUT NOT LIMITED TO THE FOLLOWING: 1. FIRE PROTECTION: 1. NFPA-13 CERTIFICATION LETTER (WARRANTY LETTER IS SUFFICIENT IF THE LETTER NOTES IN ITS CONTENT THAT THE INSTALLATION MEETS NFPA-13). 2. PLUMBING & UTILITIES: 1. SEISMIC CERTIFICATION LETTER SUBMITTED. 2. BALANCING REPORT IN ACCORDANCE WITH TAB SECTION IN SPECIFICATIONS. 3. AS-BUILT DRAWINGS SHOWING AS-BUILT CONDITIONS COMPLETE WITH RED LINED MARKUPS TO PROJECT MANAGER WITH CONTRACTOR'S SIGNATURE. 4. START-UP REPORT FROM MANUFACTURER OF EQUIPMENT. 5. THREE (3) COPIES OF OPERATIONS AND MAINTENANCE MANUALS CONTAINING ALL ITEMS PREVIOUSLY REVIEWED BY ENGINEER IN A THREE RING BINDER AND DIVIDERS ORGANIZING ALL SUBMISSIONS BY EACH MECHANICAL TRADE. OPERATIONS MANUAL TO ALSO INCLUDE THE FOLLOWING BUT SHALL NOT BE LIMITED TO: 1. LIST OF TRACES INVOLVED AND CONTACT INFORMATION. 2. CONTRACTOR'S LETTER OF WARRANTY. 3. ALL LETTERS REQUIRED FOR WORKPLACE CONFORMANCE. 2. MECHANICAL CONTRACTOR SHALL COORDINATE THE WORK WITH ALL OTHER TRADES AND THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR COMMUNICATING SAFETY REQUIREMENTS TO HIS EMPLOYEES AND COMPLYING WITH OCCUPATIONAL HEALTH AND SAFETY ACT.
2.	THE DRAWINGS SHALL BE CONSIDERED TO SHOW THE GENERAL CHARACTER AND SCOPE OF THE WORK AND NOT THE EXACT DETAILS OF THE INSTALLATION. THE INSTALLATION SHALL BE COMPLETE WITH ALL ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIVE INSTALLATION.
3.	MECHANICAL CONTRACTOR IS RESPONSIBLE TO FIELD MEASURE LOCATION OF NEW OR RELOCATED EQUIPMENT TO VERIFY CLEARANCES WITH THE MANUFACTURER PRIOR TO ORDERING.
4.	THESE MECHANICAL DRAWINGS MUST BE READ IN CONJUNCTION WITH THE ARCHITECTURAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.
5.	THE WORD "PROVIDE" SHALL DENOTE "DRAWS AND INSTALL". THE WORD "TAB" SHALL DENOTE "TESTING, ADJUSTING, AND BALANCING".
6.	CONTRACTOR SHALL FOLLOW THE BIDDING DOCUMENT PROJECT SCHEDULE UPON AWARD, CONTRACTOR SHALL SUBMIT WORK SCHEDULE TO PROJECT MANAGER & ENGINEER FOR APPROVAL.
7.	THE MECHANICAL CONTRACTOR SHALL COORDINATE THE WORK WITH ALL OTHER TRADES AND THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR COMMUNICATING SAFETY REQUIREMENTS TO HIS EMPLOYEES AND COMPLYING WITH OCCUPATIONAL HEALTH AND SAFETY ACT.
8.	CONTRACTOR TO PROVIDE, PRIOR TO COMMENCEMENT OF WORK, ONTARIO MINISTRY OF LABOUR CONTRACTOR REGISTRATION FORM AS WELL AS A CURRENT SIGNED AND DATED CORPORATE HEALTH AND SAFETY POLICY.
9.	CONTRACTOR TO PROVIDE FOR THE USE OF HIS WORK FORCE A FIRST AID KIT REQUIRED TO WSIB AND MOL.
10.	PAY ALL REQUIRED FEES AND PERMITS.
11.	WORKMANSHIP AND MATERIALS SHALL MATCH OR EXCEED THAT OF THE EXISTING AS PRESENTED BY THE PROJECT MANAGER.
12.	ALL WORK TO BE CONDUCTED DURING HOURS SPECIFIED BY THE PROJECT MANAGER.
13.	ALL CHANGES AND CONNECTIONS TO EXISTING SERVICES, REGARDING THE SCHEDULE OF THAT WORK SHALL BE MADE AT THE TIME OF THE WORK BY THE PROJECT MANAGER, UNLESS OTHERWISE STATED.
14.	THE CONTRACTOR SHALL AT ALL TIMES KEEP PREMISES FREE FROM THE ACCUMULATION OF WASTE MATERIAL TO THE SATISFACTION OF THE PROJECT MANAGER. THE CLEANING AND REMOVAL OF WASTE SHALL BE THE CONTRACTOR'S OBLIGATION. PLACE DUST PROTECTION IN THE FORM OF COVER SHEETS OVER EQUIPMENT AND FURNITURE TO ENSURE NO DUST INFILTRATION.
15.	COORDINATE MATERIAL STORAGE WITH THE SITE SUPERINTENDENT AND OTHER TRADES.
16.	MANUFACTURER'S INSTRUCTIONS REGARDING THE HANDLING, INSTALLATION AND TESTING OF EQUIPMENT SPECIFIED HEREIN SHALL BE CONSIDERED PART OF THIS SPECIFICATION.
17.	SUPPLY TOOLS, EQUIPMENT AND PERSONNEL TO DEMONSTRATE AND INSTRUCT OPERATING AND MAINTENANCE PERSONNEL IN OPERATING, MAINTAINING, ADJUSTING, TROUBLESHOOTING AND SERVICING OF ALL SYSTEMS AND EQUIPMENT DURING REGULAR WORK HOURS, PRIOR TO ACCEPTANCE.
18.	INSPECT ALL NEW, RELOCATED, AND EXISTING EQUIPMENT WITHIN SCOPE OF WORK. INSPECT EQUIPMENT AT THE BEGINNING OF THE PROJECT, OR UPON DELIVERY, AND NOTIFY PROJECT ENGINEER OF ANY DAMAGE OR DEFICIENCIES.
19.	ALL EQUIPMENT, PIPING, DUCTWORK AND WIRING SHALL BE SUSPENDED FROM THE BUILDING STRUCTURE. 1. PROVIDE BLACK WITH WHITE WRITING LAMACOD PLATE ON ALL NEW EQUIPMENT. LABEL UNIT AS SHOWN ON DRAWINGS. LETTERING SIZE TO BE MINIMUM 25MM HIGH. MOUNT NEAR CONTROL SECTION OF THE UNIT. 2. PROVIDE CUTTING, PATCHING AND CORING OF ALL WALLS, CEILING AND OTHER SURFACES AS REQUIRED FOR MECHANICAL WORK. CHECK WITH BUILDING MANAGEMENT PRIOR TO CORE DRILLING AND CUTTING OF FLOOR SLAB REGARDING BUILDING REQUIREMENTS AND POLICIES. PRIOR TO SLAB CUTTING OR CORING, SCAN THE SLAB USING GPR TECHNOLOGY TO COORDINATE DRILLING TO MINIMIZE CUTTING OF THE REINFORCING STEEL AND CONDUIT. FIRE STOP ALL NEW FIRE RATED PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATINGS. THE CONTRACTOR IS TO INCLUDE IN TENDER PRICE ALL WORK ASSOCIATED WITH CORE DRILLING AFTER NORMAL WORKING HOURS. OBTAIN WRITTEN VERIFICATION OF LOCATIONS FROM THE STRUCTURAL ENGINEER OF RECORD PRIOR TO DRILLING. CUTTING TORCHES SHALL NOT BE USED FOR MAKING HOLES. PATCH ALL HOLES THROUGH SLAB WITH FIRE-STOP CALKING (ULC LISTED). PATCHED SURFACES ARE TO BE PRIME FINISHED, READY FOR FINAL COVERING BY OTHERS (COORDINATE WITH ROOFING CONTRACTOR).
20.	CONTRACTOR SHALL BE RESPONSIBLE FOR DECONTAMINATION, DRAINING, RINSING AND REACTIVATING OF WET PIPE SPRINKLER SYSTEM OR STANDPIPE ON A DAILY BASIS. COORDINATE WITH OWNER.
21.	COORDINATE DUCTWORK ROUTING PRIOR TO DUCT FABRICATION; IF MODIFICATIONS ARE REQUIRED, REUSE DUCT SIZE TO MAINTAIN CROSS SECTIONAL AREA.
22.	ALLOW FOR 1500 MM OF ADJUSTMENT FOR EXACT LOCATION OF AIR HANDLING UNITS, PUMPS, DUCTS, PIPING, ETC. AT NO EXTRA COST OR CREDIT.
23.	PRIOR TO CLOSING OF CEILINGS, MECHANICAL CONTRACTOR SHALL NOTIFY THE ENGINEER THAT AN INSPECTION IS REQUIRED BEFORE PROCEEDING.
24.	CONTRACTOR TO NOTIFY PROJECT MANAGER 3 DAYS BEFORE SCHEDULED SUBSTANTIAL COMPLETION TO ARRANGE INTERIM INSPECTION AND EQUIPMENT COMMISSIONING. NOTIFY PROJECT MANAGER IN WRITING OF ANY CHANGES IN SCHEDULE.
25.	UNLESS INDICATED OTHERWISE PROVIDE ONE (1) YEAR WARRANTY STARTING AT SUBSTANTIAL COMPLETION FOR ALL NEW SYSTEMS INCLUDING MATERIALS, EQUIPMENT & LABOUR.
26.	MECHANICAL CONTRACTOR SHALL ASSIST ON ALL THE INTEGRATED TESTING OF FIRE AND LIFE SAFETY SYSTEMS, AS REQUIRED BY CAN/ULC-S1001.

THERMAL INSULATION FOR PIPING:																						
1.	GENERAL: 1. ALL COMPONENTS OF INSULATION SYSTEM TO HAVE MINIMUM FLAME SPREAD RATING OF 25 AND MINIMUM SMOKE DEVELOPED RATING OF 50 IN ACCORDANCE WITH CAN-5102. 2. TAC CODE A-3 FORMED MINERAL FIBRE WITH FACTORY APPLIED VAPOR RETARDER JACKET: 1. APPLICATION: FOR PIPING, VALVES AND FITTINGS ON: 1. DOMESTIC HOT WATER PIPING SYSTEMS. 2. DOMESTIC COLD WATER PIPING SYSTEMS. 2. MATERIAL: 1. MINERAL FIBRE: TO CAN/CSB-51.9-92. 2. JACKET: TO CSSB 51-0P-52MA. 3. MAXIMUM "K" FACTOR: TO CAN/CSB-51.9-92. 3. THICKNESS: AS PER TABLE BELOW: <table border="1"> <thead> <tr> <th>PIPE SIZES (NPS) AND INSULATION THICKNESS (MM)</th> <th>1/2"</th> <th>1-1/2"</th> <th>4"</th> </tr> </thead> <tbody> <tr> <td>APPLICATION</td> <td>TEMP (°C)</td> <td>TD 1-1/4"</td> <td>TD 3"</td> </tr> <tr> <td>DOM HOT WATER</td> <td>ALL</td> <td>25</td> <td>40</td> </tr> <tr> <td>DOM COLD WATER</td> <td>ALL</td> <td>25</td> <td>25</td> </tr> <tr> <td>TEMP WATER</td> <td>ALL</td> <td>25</td> <td>25</td> </tr> </tbody> </table>	PIPE SIZES (NPS) AND INSULATION THICKNESS (MM)	1/2"	1-1/2"	4"	APPLICATION	TEMP (°C)	TD 1-1/4"	TD 3"	DOM HOT WATER	ALL	25	40	DOM COLD WATER	ALL	25	25	TEMP WATER	ALL	25	25	
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5.	FASTENERS: 1. FOR INSULATION SYSTEMS TAC CODE: A-3. 2. SEALS: VR LAP SEAL ADHESIVE, VR LACING ADHESIVE. 3. INSTALLATION TAC CODE: 1501-C. 4. JACKETS: 1. CANVAS: 1. 220 GSM COTTON, PLAIN WEAVE, TREATED WITH DILUTE BRASS TO ASTM A518/BSM C35000. 2. LACING ADHESIVE: COMPATIBLE WITH INSULATION. 3. RANDOM SAMPLES TO BE TAKEN DURING INSTALLATION C/W DATE & TIME ON SAMPLE. 2. APPLICATION: 1. USE VAPOR RETARDER JACKET ON TAC CODE A-3 INSULATION COMPATIBLE WITH INSULATION. 2. FINISH ATTACHMENTS: STAINLESS STEEL BANDS AT 150 MM O.C. SEALS: WRG OR CLOSED. 3. INSTALLATION: TO APPROPRIATE TAC CODE C/P/1 THROUGH C/P/5. 2. THERMOSTATIC MIXING VALVE: 1. REDUCER FOR 13 MM (1/2") NPT WITH STRAIGHT OR 90° REDUCER FOR 13 MM (1/2") NPT OR 20 MM (3/4") NPT SPRINKLER. 4. A STEEL BRACKET WITH SQUARE BAR, ADJUSTABLE CENTRE BRACKET & ADJUSTABLE END BRACKETS SUITABLE FOR CEILING TYPES. END BRACKET SHALL HAVE PERMANENT SECUREMENT TO CEILING SYSTEM. 5. ACCEPTABLE MATERIAL: VICTALUX M10, VOLEX AH2; WIKING MODEL V9D288. 6. P.M. & ULC LISTED FOR FIRE PROTECTION SERVICES. 7. PIPING SHALL BE SEISMICALLY RESTRAINED AS PER NFPA REQUIREMENTS.																					
6.	BASES, PIPE HANGERS AND SUPPORTS: 1. GENERAL: 1. BASES, HANGERS, SUPPORTS AND SHW BRACES SHALL BE OF MANUFACTURE TYPE AND ASSEMBLED AS PER MANUFACTURER'S INSTRUCTIONS. ENSURE THAT SUPPORTS, GUIDES AND ANCHORS DO NOT TRANSMIT EXCESSIVE QUANTITIES OF HEAT TO BUILDING STRUCTURE. DESIGN HANGERS AND SUPPORTS TO OPERATE UNDER ALL OPERATING CONDITIONS. ALLOW FOR FIRE EXPANSION AND CONTRACTION AND PREVENT THE TRANSMISSION OF EXCESSIVE STRESSES INTO PIPE WORK OR CONNECTED EQUIPMENT. PROVIDE SYSTEM VERTICAL ADJUSTMENT AFTER INSTALLATION, DESIGN SHALL BE IN ACCORDANCE WITH ANSI B31.1 AND MSS-SP58. 2. SUPPORT FROM TOP OR BOTTOM OF STRUCTURAL MEMBERS, WHERE STRUCTURAL BEARING DOES NOT EXIST OR INSERTS ARE NOT IN SUITABLE LOCATIONS, PROVIDE SUPPLEMENTARY STRUCTURAL STEEL MEMBERS. 3. SUPPORTS MADE FROM WIRE, WOOD, ROPE OR ANY OTHER VULNERABLE MAKE-SHET MATERIAL SHALL NOT PERMITTED. 4. FOR UNGLAZED COPPER PIPE OR TUBING THE CLAMPS AND SUPPORTS SHALL HAVE AN ELECTROPLATED COPPER FINISH. 5. PROVIDE ADDITIONAL SUPPORTS AT CHANGES IN PIPE DIRECTION AND FOR CONCENTRATION OF LOADS DUE TO WEIGHT OF VALVES, STRAINERS, ETC. 6. PIPE HANGERS AND SUPPORTS SHALL BE PAINTED WITH ZINC RICH PAINT AFTER MANUFACTURE. 7. PROVIDE INSULATION PROTECTION SHEEDS AS REQUIRED. 2. INSULATED PIPE SADDLES: 1. INSULATED SADDLES SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR WHEN SETTING PIPE ELEVATION AT ALL PIPE SUPPORT LOCATIONS ON INSULATED SYSTEMS OPERATING BETWEEN -20°F AND 50°F, INCLUDING: 1. DOMESTIC COLD WATER, CHILLED WATER, CONDENSER WATER, CONDENSATE, DOMESTIC HOT WATER, HEATING WATER, AND LOW PRESSURE STEAM. 2. COMPOSITION INCLUDES: 1. RIGID PHENOLIC FIBRE INSULATION THAT MEETS ASTM E-84 (25/50 FLAME SPREAD / SMOKE DEVELOPED REQUIREMENT) WITH DENSITY OF: 1. 1.375 PCF (0.11 BTU-IN/HR-SQ-FT-F) @ 75F MEAN FOR PIPE SIZES UP TO 10" IPS. 2. 5 PCF (0.20 BTU-IN/HR-SQ-FT-F) @ 75F MEAN FOR PIPING 11" IPS TO 30" IPS. 2. ZERO PERM RATED (ASTM E-96), ABUSE-RESISTANT VAPOR BARRIER JACKET WITH 1-1/2" WIDE LONGITUDINAL SELF-SEALING ACROLYL TAPE CLOSURE SYSTEM. 3. PIPE INSULATION PROTECTION SHEED, MANUFACTURED FROM CARBON STEEL WITH A 500 GALVANIZED FINISH, CENTERED AND ADHERED TO BOTTOM WITH A MINIMUM OF 1-1/2" JACKETED INSULATION EXTENDING FROM EACH SIDE TO ALLOW PROPER CIRCUMFERENTIAL CLOSURE AT BUTT JOINTS WITH 3" WIDE ZERO PERM TAPE. SHEEDS SHALL BE 20 GAUGE THICK UP TO 3-1/2" PIPING, 18 GAUGE FOR PIPING FROM 4" TO 10" DIAMETER. 3. ACCEPTABLE MATERIAL: BUROKOROS COOLDRY, MULTIGLASS M-SADOLE, OR EQUIVALENT. 3. HANGER SPACING: 1. COPPER PIPING UP TO NPS 1/2" EVERY 5FT. 2. HANGERS SHALL BE WITHIN 12" OF EACH ELBOW. 3. HANGERS SHALL BE SPACED IN ACCORDANCE WITH THE MOST STRINGENT REQUIREMENTS OF MANUFACTURER'S RECOMMENDATIONS, CANADIAN PLUMBING CODE, OBC, AUTHORITY HAVING JURISDICTION, AND AS FOLLOWS: <table border="1"> <thead> <tr> <th>MAXIMUM PIPE SIZE (NPS)</th> <th>MAXIMUM STEEL PIPE SPACING</th> <th>MAXIMUM COPPER PIPE SPACING</th> </tr> </thead> <tbody> <tr> <td>UP TO 1-1/4"</td> <td>2.5M</td> <td>2.5M</td> </tr> <tr> <td>1-1/2"</td> <td>2.5M</td> <td>3.0M</td> </tr> <tr> <td>2"</td> <td>2.5M</td> <td>3.0M</td> </tr> <tr> <td>2-1/2"</td> <td>2.5M</td> <td>3.0M</td> </tr> <tr> <td>3"</td> <td>2.5M</td> <td>3.0M</td> </tr> <tr> <td>4"</td> <td>2.5M</td> <td>3.0M</td> </tr> </tbody> </table>	MAXIMUM PIPE SIZE (NPS)	MAXIMUM STEEL PIPE SPACING	MAXIMUM COPPER PIPE SPACING	UP TO 1-1/4"	2.5M	2.5M	1-1/2"	2.5M	3.0M	2"	2.5M	3.0M	2-1/2"	2.5M	3.0M	3"	2.5M	3.0M	4"	2.5M	3.0M
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PIPE IDENTIFICATION:	
1.	PVC MARKERS, CONTINUOUS OPERATING TEMPERATURE OF 212°F, 2" HIGH LETTERS FOR PIPING 3" OR LARGER, 3/4" HIGH LETTERING FOR 2 1/2" OR SMALLER. MATCH EXISTING BASE BUILDING STANDARD OR AS FOLLOWS: CONTENTS: BACKGROUND LABEL: DOMESTIC HOT WATER SUPPLY GREEN DOM. HW SUPPLY DOMESTIC COLD WATER SUPPLY GREEN DOM. CWS PLUMBING VENT GREEN SAN. VENT
11.	PLUMBING SPECIALTIES AND ACCESSORIES: 1. CLEANOUTS: 1. CLEANOUT PLUGS: HEAVY CAST IRON MALE FERRULE WITH BRASS SCREWS AND THREADED BRASS OR BRONZE PLUG. SEALING-GAUGED LEAD SEAL OR INDEPENDENT GASKET. 2. ACCEPTABLE MATERIAL: ANCON, EMPOCO, J.R. SMITH & ZURN. 2. PLUMBING FIXTURE AND TRIM: 1. FIXTURE PIPING: 1. HOT AND COLD WATER SUPPLIES TO EACH FIXTURE: 1. SUPPLY STOPS SHALL BE ALL BRASS WITH FULL TURN BRASS SEAMS AND REFLEXIBLE WASHER ATTACHMENT SHALL BE PER INLET x COMPRESSION OO OUTLET TO FIXTURE. ALL FIXTURE STOP VALVES SHALL BE SCREW DRIVER TYPE. 2. CHROME PLATED IN ALL EXPOSED PLACES. 2. WASTE: 1. CAST BRASS ADJUSTABLE STYLE P-TRAP WITH CLEANOUT ON EACH FIXTURE NOT HAVING INTEGRAL TRAP. 2. CHROME PLATED IN ALL EXPOSED PLACES. 3. SINK AND LAVATORY P-TRAP SHALL BE CAST BRASS ADJUSTABLE STYLE WITH 17 GA. SEAMLESS BRASS BALL BEAD. ATTACHMENT NUTS SHALL BE BRASS, NO ZINC ALLOWED. P-TRAPS TO BE REMOVABLE/UNION TYPE OR TO INCLUDE CLEANOUT. 4. LAVATORY STRAINERS SHALL BE CHROME PLATED CAST BRASS WITH 17 GA. SEAMLESS BRASS TAILPIECE. 5. ALL BARRIER-FREE LAVATORIES AND SINKS SHALL HAVE CHROME PLATED OFFSET TAIL PIPES IN ADDITION TO P-TRAP WITH CLEANOUT. INSULATE P-TRAP AND HOT AND COLD WATER PIPES WITH PRE-FORMED & FINISHED SURFACE INSULATION. ARMAFLEX INSULATION AND TAPE NOT ACCEPTABLE. 6. LAVATORY WASTE & FITTINGS SHALL BE DWV PVC EQUIVALENT TO IPEX SYSTEM 15. EXTEND PLASTIC PIPING UP TO COMBINED WASTE FROM ADJACENT LAVATORY OR OTHER TRAP SYSTEMS FITTINGS ALLOWING DUCTION OF WASTE. 2. FIXTURES: 1. MANUFACTURE IN ACCORDANCE WITH CSA B45. 2. ALL PRODUCTS, WHERE APPLICABLE, SHALL BE MARKED WITH MANUFACTURER'S NAME OR PRODUCT #. 3. TRIM, FITTINGS: MANUFACTURE IN ACCORDANCE WITH CSA B125. 4. NUMBER, LOCATIONS: ARCHITECTURAL DRAWINGS TO GOVERN. 5. FIXTURES IN ANY ONE LOCATION TO BE PRODUCT OF ONE MANUFACTURER AND OF SAME TYPE. 6. TRIM IN ANY ONE LOCATION TO BE PRODUCT OF ONE MANUFACTURER AND OF SAME TYPE UNLESS INDICATED. 7. CARBURETORS: PROVIDE FOR ALL WALL MOUNTED PLUMBING FIXTURES. 8. ROUGH-IN OF FIXTURES: ROUGH-IN FOR EQUIPMENT SUPPLIED BY OTHER TO BE COMPLETE WITH VALVED SUPPLIES, WASTES AND VENTS. CONTRACTOR IS RESPONSIBLE TO ENSURE PROPER OPERATION OF FIXTURES UP TO 80 PSI (550 KPA). 11. PLUMBING FIXTURES: REFERENCE FIXTURE SCHEDULE ON DRAWINGS.

DUCT ACCESSORIES:	
1.	FLEXIBLE CONNECTIONS: 1. FRAME: ALUMINUM METAL FRAME 24 GAUGE THICK WITH FABRIC REINFORCED BY MEANS OF DOUBLE LOCKED SEAMS. 2. FIRE RESISTANT, SELF-EXTINGUISHING, NEOPRENE COATED GLASS FABRIC, TEMPERATURE RATED 414 °F UP TO 200°F. 2. MATERIAL: 1. DENSITY OF 0.25 PPF. 3. APPLICATION: ON IN

Client



1
M1.1
1:50
FIRE PROTECTION - YOUTH CENTRE
SECOND FLOOR - REMOVALS

DESCRIPTION OF WORK -- REMOVALS
1. REMOVE EXISTING SPRINKLER C/W ASSOCIATED BRANCH PIPING BACK TO MAIN.

2
M1.1
1:50
FIRE PROTECTION - YOUTH CENTRE
SECOND FLOOR - NEW WORK

DESCRIPTION OF WORK -- NEW WORK
1. PROVIDE NEW SPRINKLERS C/W BRANCH PIPING BACK TO MAIN.

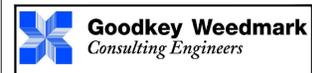
DATE	REVISION	REF
2026-02-06	RE-ISSUED FOR PERMIT / TENDER	1
2026-01-20	ISSUED FOR PERMIT	0
2026-01-14	ISSUED FOR TENDER	0

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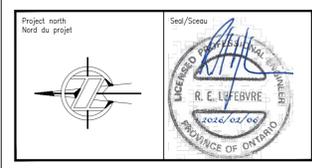
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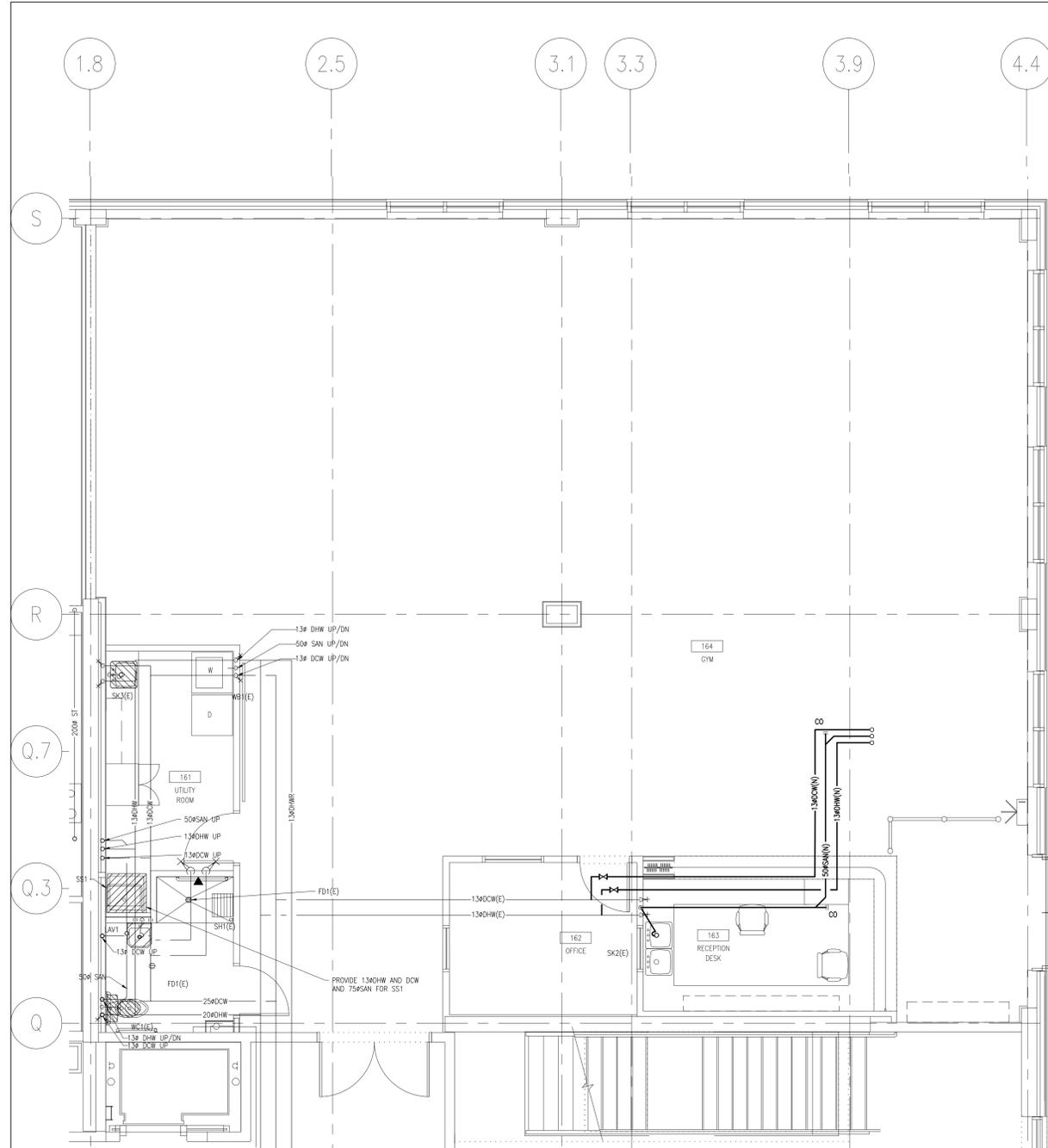


Project/Projet
**1 MA-TE-WAY PARK DR. -
MA-TE-WAY CENTRE - 2-STORY
ADDITION & NEW CENTRE**

Drawing title/Titre du dessin
**MECHANICAL
FIRE PROTECTION
SECOND FLOOR**

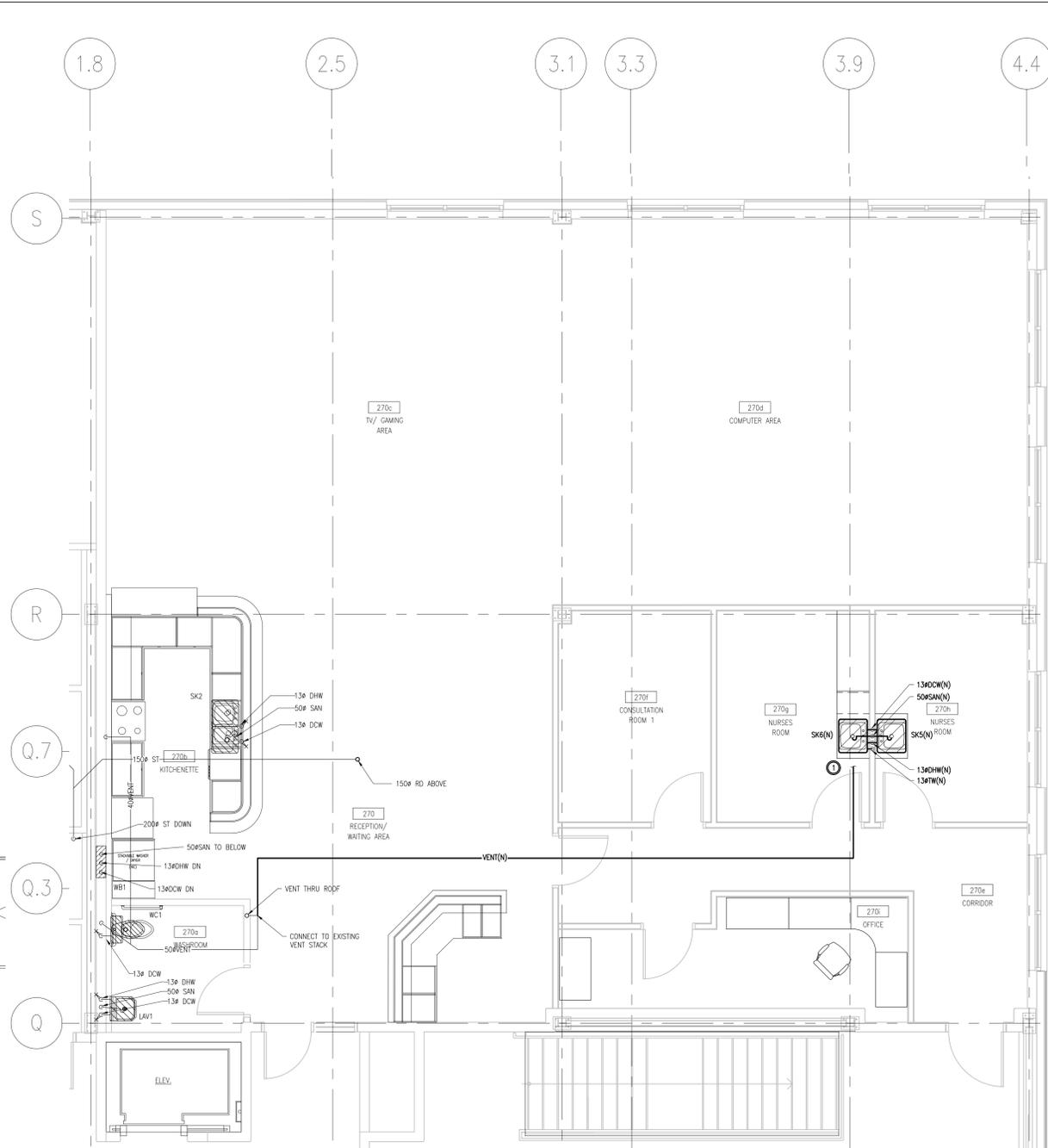
Scale Echelle	AS NOTED	Project no./No. du projet 2017-667-1
Design by Conçu par	D. NEWTON	Drawing/Dessein
Drawn by Dessiné par	D. NEWTON	M1.1
Reviewed by Examiné par	R. LEFEBVRE	
Date	FEBRUARY 2026	Revision no. Acad file/Fichier: 5

Client

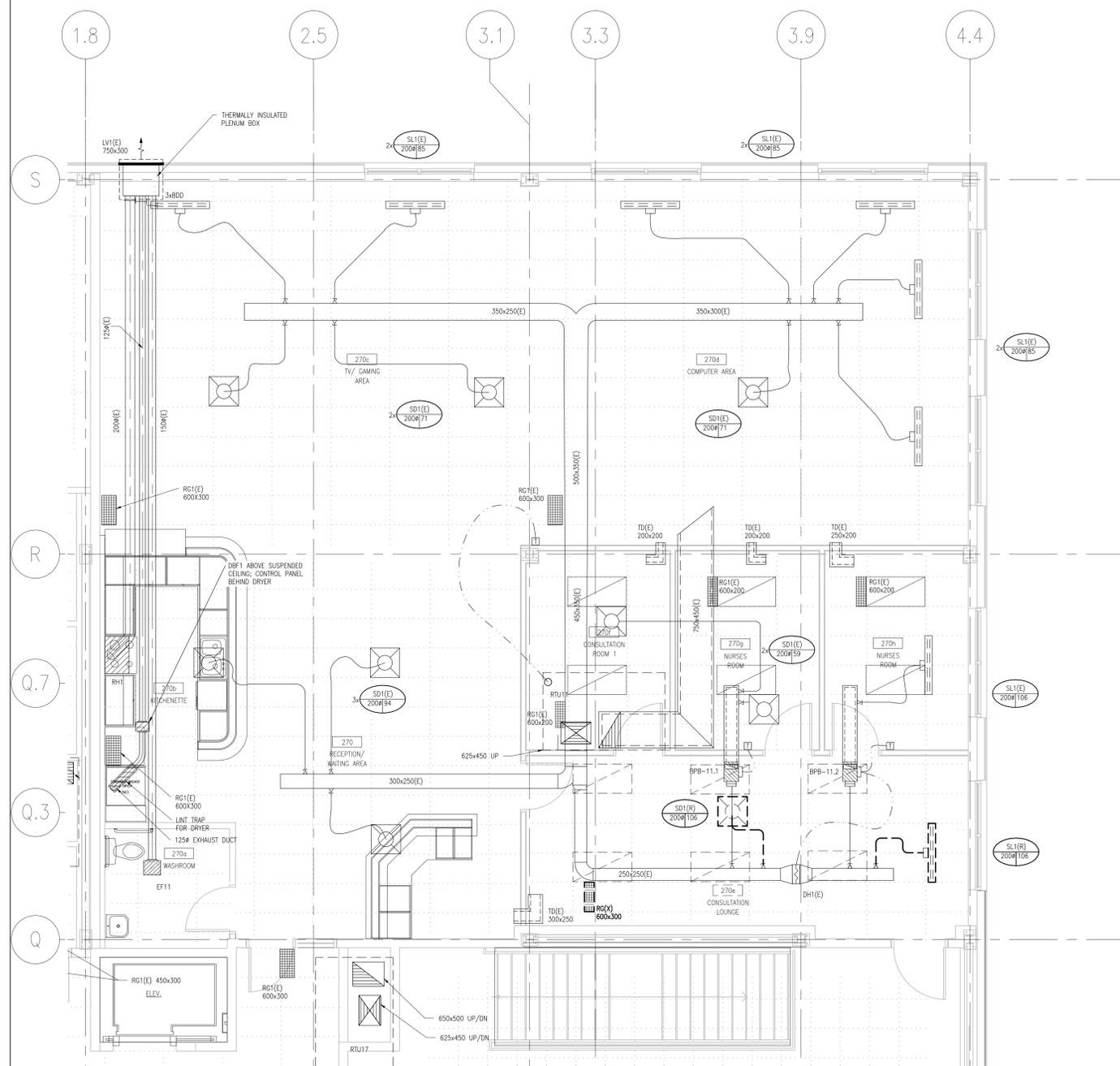


1
M2.1 1:50
PLUMBING - GYM AREA
GROUND FLOOR - NEW WORK

- DESCRIPTION OF WORK – NEW WORK**
1. PROVIDE DOMESTIC COLD & HOT WATER PIPING FROM EXISTING AND UP TO NURSE SINKS ABOVE.
 2. PROVIDE SANITARY DRAINAGE FROM NURSE SUITE ABOVE AND CONNECT TO EXISTING SANITARY. WALL TO BE OPENED FROM OFFICE 162 IF REQUIRED TO MAKE PLUMBING CONNECTIONS.
 3. SLAB TO BE SCANNED PRIOR TO DRILLING CORE HOLES AND ALL CORE LOCATIONS TO BE REVIEWED BY STRUCTURAL ENGINEER BEFORE PROCEEDING.
 4. PROVIDE FIRE STOPPING TO ALL SLAB PENETRATIONS TO ABOVE AS REQUIRED.
 5. COORDINATE ALL WORK WITHIN GYM AREA WITH STAFF AND PERFORM DURING HOURS TO MINIMIZE DISRUPTION.



Client



1
M3.1
1:50
HVAC - YOUTH CENTRE
SECOND FLOOR - REMOVALS

DESCRIPTION OF WORK - REMOVALS	
1.	REMOVE EXISTING SUPPLY DIFFUSERS WHERE INDICATED AND RETAIN FOR REUSE.
2.	REMOVE EXISTING SUPPLY AIR DUCTWORK WHERE INDICATED.

DATE	REVISION	REF
2026-02-06	RE-ISSUED FOR PERMIT / TENDER	1
2026-01-20	ISSUED FOR PERMIT	0
2026-01-14	ISSUED FOR TENDER	0

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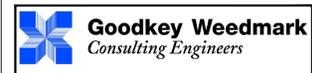
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Project/Projet
Nord du projet

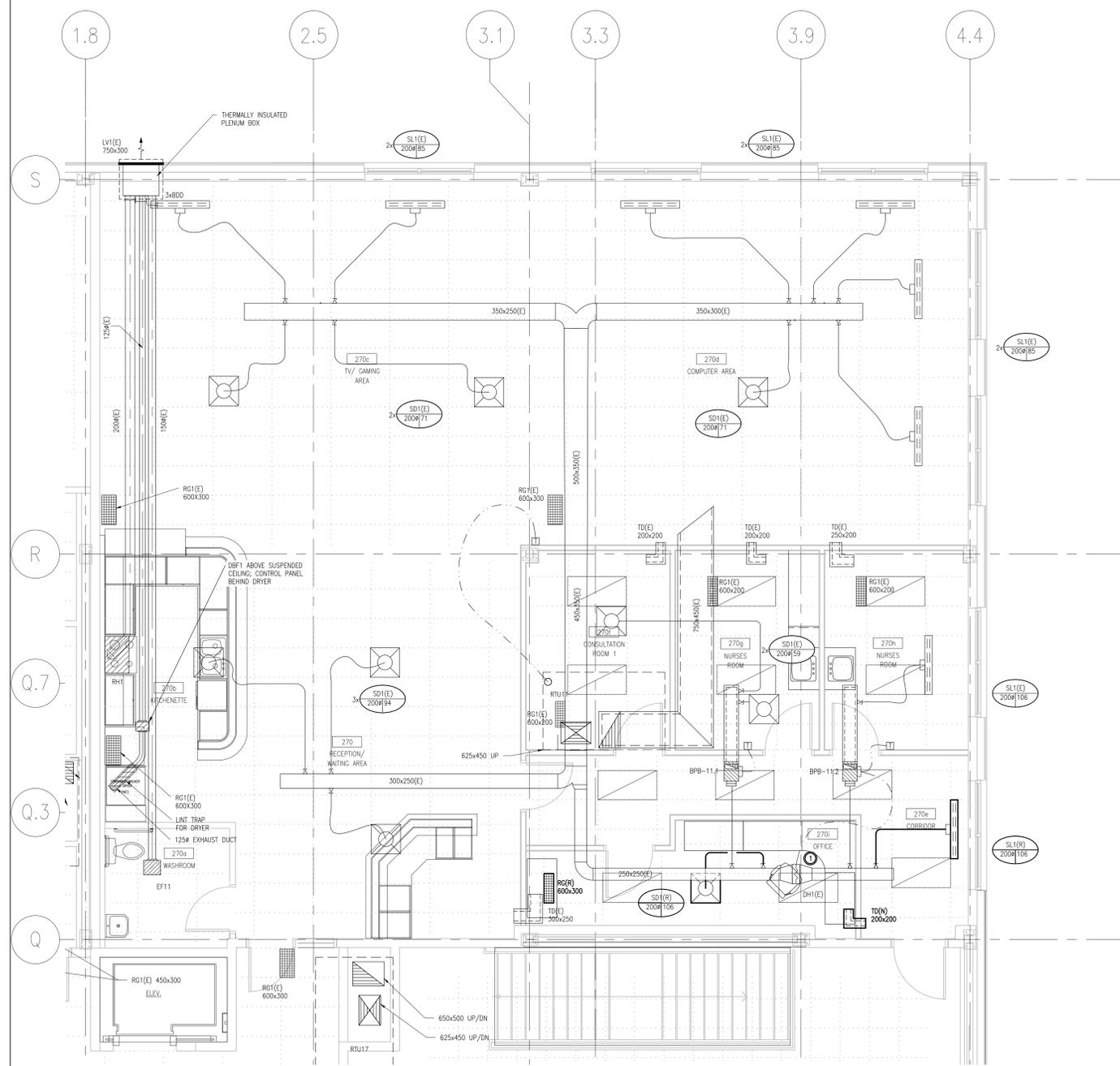
Seal/Scelu

Project/Projet
1 MA-TE-WAY PARK DR. - MA-TE-WAY CENTRE - 2-STOREY ADDITION & NEW CENTRE

Drawing title/Titre du dessin
MECHANICAL HVAC - SECOND FLOOR REMOVALS

Scale/Echelle	AS NOTED	Project no./No. du projet	2017-667-1
Design by/Conçu par	D. NEWTON	Drawing/Dessin	
Drawn by/Dessiné par	D. NEWTON	M3.1	OF 5
Reviewed by/Examiné par	R. LEFEBVRE		
Date	FEBRUARY 2026	Revision no.	Acad file/Fichier:

Client



1
M3.2
1:50

**HVAC - YOUTH CENTRE
SECOND FLOOR - NEW WORK**

DESCRIPTION OF WORK – NEW WORK

1. RELOCATE EXISTING SUPPLY AIR DIFFUSERS WHERE INDICATED. CONFIRM AIR BALANCING TO ALL DIFFUSERS WITHIN SUITE.
2. PROVIDE NEW SUPPLY AIR DUCTWORK SERVING REVISED DIFFUSER LOCATIONS WHERE INDICATED.

DRAWING NOTES – NEW WORK

1. CONTRACTOR TO CONFIRM DUCT HEATER (DH1) CONTROL DUCT HEATER (DH1) TO BE ENABLED WHEN SPACE TEMPERATURE IS BELOW 65°F (18.9°C) ADJUSTABLE AND ASSOCIATED AIR PROVIDING SWITCH IS ENGAGED.

DATE	REVISION	REF
2026-02-06	RE-ISSUED FOR PERMIT / TENDER	1
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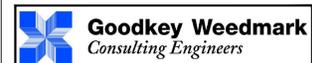
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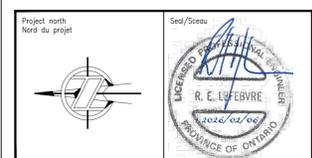
L'INGÉNIEUR DÉCLINE TOUTE RESPONSABILITÉ DÉCOULANT DE PROBLÈMES FAISANT SUITE AU NON RESPECT DES PLANS, DES SPÉCIFICATIONS ET DE L'INTENTION DU CONCEPTEUR QU'ILS INDICENT OU DE TOUTES LES PROBLÈMES POUVANT RÉSULTER DU DÉFAUT D'OBTENIR ET / OU DE SUIVRE LES CONSEILS DE L'INGÉNIEUR EN CE QUI CONCERNE LES ERREURS, OMISSIONS, INCONSISTANCES, AMBIGUITÉS OU CONFLITS ALLEGÉS.

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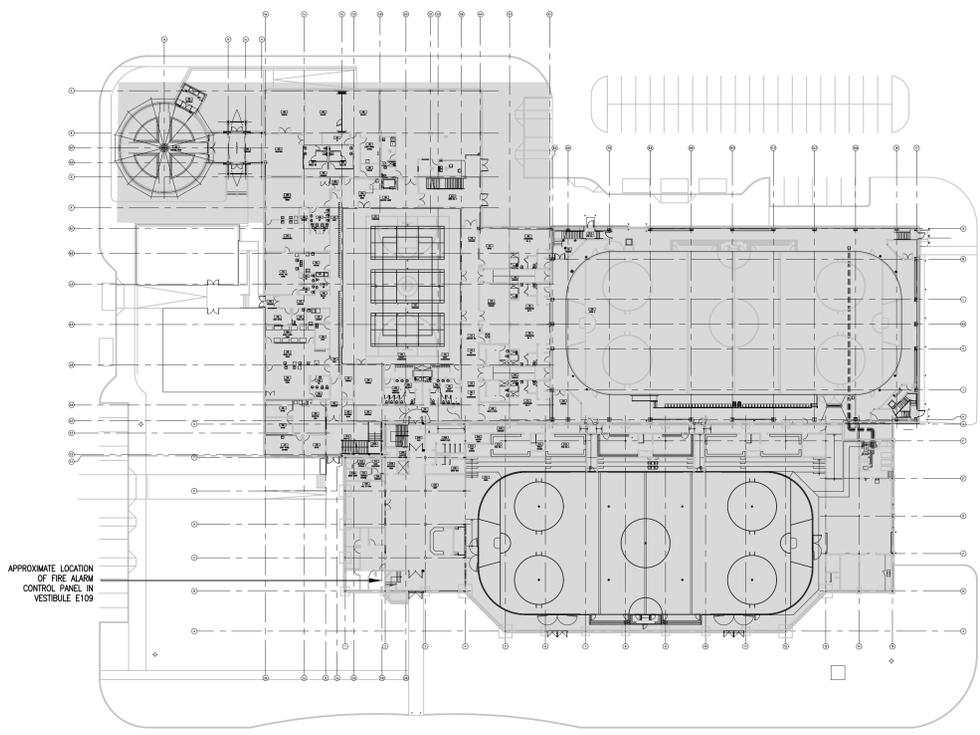
GOODKEY WEEDMARK & ASSOCIATES LIMITED
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Project/Projet	
1 MA-TE-WAY PARK DR. - MA-TE-WAY CENTRE - 2-STOREY ADDITION & NEW CENTRE	
Drawing title/Titre du dessin	
MECHANICAL HVAC - SECOND FLOOR NEW WORK	
Scale Echelle	Project no./No. du projet 2017-667-1
Design by Conçu par	Drawing/Dessein D.NEWTON
Drawn by Dessiné par	M3.2
Reviewed by Examiné par	
Date FEBRUARY 2026	Revision no. Acad file/Fichier: 5

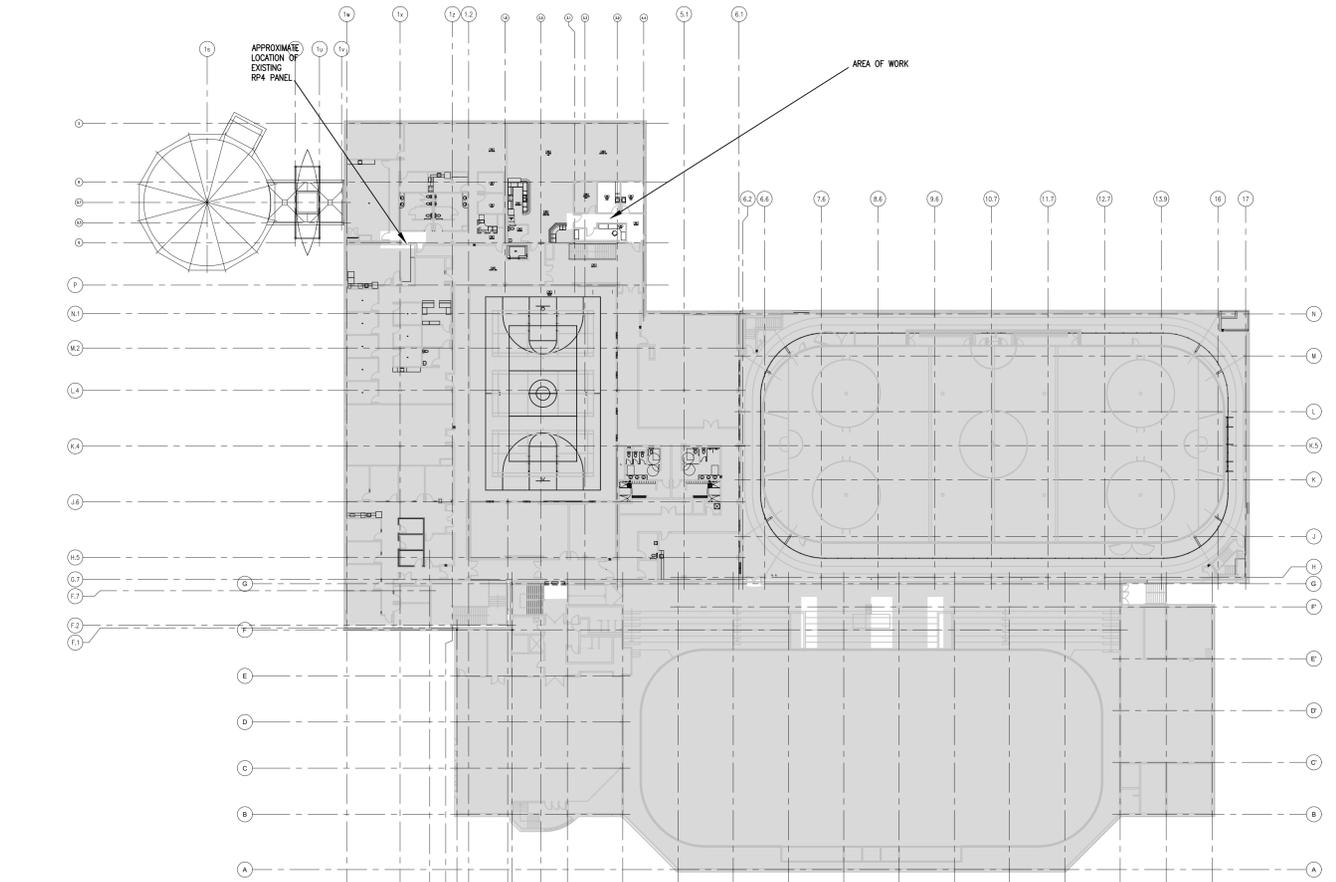
MA-TE-WAY CENTRE - 2-STOREY ADDITION & NEW CENTRE

1 MA-TE-WAY PARK DRIVE
ONTARIO, ELECTRICAL



GROUND FLOOR
KEY PLAN

1
E1
N.T.S.



SECOND FLOOR
KEY PLAN

1
E1
N.T.S.

DRAWING LIST	
DWG No.	DESCRIPTION
E1	ELECTRICAL LEGENDS, KEY PLANS, LIGHTING FIXTURE SCHEDULE AND ELECTRICAL PANEL SCHEDULE
E2	ELECTRICAL SPECIFICATIONS
E3	LIGHTING AND FIRE ALARM - DEMOLITION WORK AND NEW WORK
E4	POWER AND SYSTEMS - DEMOLITION WORK AND NEW WORK

ABBREVIATION LEGEND	
SYMBOL	DESCRIPTION
GFI	GROUND FAULT INTERRUPTER
R	EXISTING TO REMOVE
N	NEW
E	EXISTING TO REMAIN

LINETYPE LEGEND	
SYMBOL	DESCRIPTION
(Solid line)	NEW WORK
(Dashed line)	EXISTING
(Dotted line)	DEMOLITION
(Long dashed line)	CEILING GRID
(Short dashed line)	ARCHITECTURAL GRID LINES

COMMUNICATION / AV LEGEND	
SYMBOL	DESCRIPTION
(V)	VOICE AND/OR DATA OUTLET BOX
(WAP)	WIRELESS ACCESS POINT
(S)	PA SPEAKER

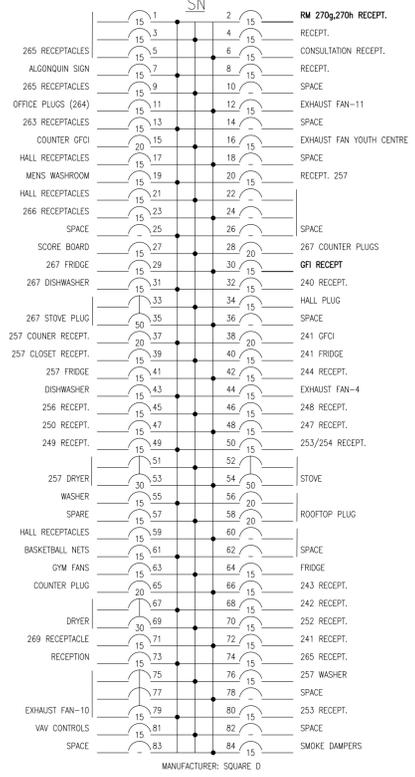
ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
(R)	RECESS LIGHT FIXTURE, TYPE AS INDICATED
(E)	LIGHT FIXTURE CONNECTED TO EMERGENCY LIGHT CIRCUIT - DO NOT SWITCH
(W)	WALL MOUNTED FIXTURE, TYPE AS INDICATED
(S)	WALL MOUNTED LIGHT SWITCH
(OS)	CEILING MOUNTED OCCUPANCY SENSOR
(E)	CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROWS AS INDICATED
(W)	WALL MOUNTED EXIT LIGHT
(E)	REMOTE EMERGENCY LIGHTING DUAL HEAD - WALL MOUNTED
(F)	FIRE ALARM PULL STATION
(F)	FIRE ALARM HORN
(F)	FIRE ALARM COMBINATION HORN/STROBE
(R)	15A, 120V WALL MOUNTED DUPLEX RECEPTACLE
(R)	GROUND FAULT INTERRUPTING RECEPTACLE INSTALLED OVER COUNTER
(R)	GROUND FAULT INTERRUPTING RECEPTACLE
(J)	ELECTRICAL JUNCTION BOX
(S)	DISCONNECT SWITCH, BY DIVISION 26 UNLESS OTHERWISE INDICATED
(S)	SURFACE ELECTRICAL PANEL

CAN/ULC-S1001 INTEGRATED SYSTEMS:
1. SCOPE OF WORK INCLUDED IN CONTRACT DOCUMENTS DOES NOT ADD OR MODIFY LIFE SAFETY SYSTEM INTEGRATION, ONLY MODIFICATIONS OR ADDITIONS TO END DEVICES ARE BEING MADE. IN REVIEW BY AND IN ACCORDANCE WITH CAN/ULC-S1001, SINCE NO MODIFICATIONS TO LIFE SAFETY SYSTEMS INTEGRATION ARE BEING MADE AN INTEGRATED SYSTEMS TESTING PLAN OR VERIFICATION IS NOT REQUIRED.

LIGHTING FIXTURE SCHEDULE									
TYPE	DESCRIPTION	CATALOG NUMBER	LAMPS PER FIXTURE			VOLT	MOUNTING	REMARKS	
			QTY	TYPE	WATTS				
1	NEW 1220MM X 610MM LED BASKET TYPE TROFFER	DELVIRD ENERGY DELSNAP-244-30	1	LED	37.7W	4000K	347V	RECESSED	
2	NEW 2' UNDER CABINET FIXTURE	CURRENT LIGHTING CLC2-CS-ED120	1	LED	14W	3500K	120V	UNDER CABINET	WHITE FINISH

EXISTING PANEL RP4

VOLTAGE	120/208V
PHASE	3P
WIRE	4W
RATING AMPS	400A
TRIM	RECESSED



THE ENGINEER MAKES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHER FAILURE TO OBTAIN AND / OR FOLLOW THE CONTRACTOR'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.
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NE PAS MESURER LES DESSINS A L'ECHELLE.

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Project north Nord du projet
Seal/Scieu
LICENSED PROFESSIONAL ENGINEER
R. M. BOVIN
100122874
PROVINCE OF ONTARIO

1 MA-TE-WAY PARK DR. - MA-TE-WAY CENTRE - 2-STOREY ADDITION & NEW CENTRE

ELECTRICAL LEGENDS, KEY PLANS, LIGHTING FIXTURE SCHEDULE AND ELECTRICAL PANEL SCHEDULE

Scale	AS NOTED	Project no./No. du projet	2017-667-1
Echelle		Design by	N.HUSAIN
		Conçu par	N.HUSAIN
		Drawn by	N.HUSAIN
		Dessiné par	N.HUSAIN
Reviewed by	R.BOVIN/A.GIRARD	Examined par	R.BOVIN/A.GIRARD
Date	FEBRUARY 2026	Revision no.	Acad file/Fichier:

E1
of 4

ELECTRICAL SPECIFICATIONS:

- 1. COMPLY WITH THE REQUIREMENTS OF THE INSTRUCTIONS TO BIDDERS, THE GENERAL CONDITIONS OF THE CONTRACT AND ANY SUPPLEMENTARY GENERAL CONDITIONS INCLUDED IN THE BIDDING DOCUMENTS.
- 2. CONTRACTOR SHALL FOLLOW THE BIDDING DOCUMENT PROJECT SCHEDULE. UPON AWARD, CONTRACTOR SHALL SUBMIT WORK SCHEDULE AND EQUIPMENT DELIVERY SCHEDULE TO PROJECT MANAGER & ENGINEER FOR REVIEW AND APPROVAL.
- 3. ALL WORK TO BE CONDUCTED DURING HOURS SPECIFIED BY THE PROJECT MANAGER.
- 4. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND BY-LAWS AND BE INSTALLED BY LICENSED WORKERS SKILLED IN THAT PARTICULAR PORTION OF THE CONTRACT.
- 5. ANY CONFLICT OR QUESTIONS THAT ARISE IN RELATION TO THE DESIGN DOCUMENTS DURING THE TENDER PERIOD SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. IF THIS PROCEDURE IS NOT FOLLOWED, REROUTING AND MODIFICATION AS REQUIRED TO COMPLETE THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 6. GIVE ALL NOTICES, OBTAIN ALL NECESSARY PERMITS AND PAY ALL APPLICABLE FEES AND INSPECTION COSTS AND DELIVER TO ENGINEER ALL NECESSARY FINAL CERTIFICATES OF INSPECTION AND APPROVAL WHICH MAY BE REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER WORK, AS EVIDENCE THAT WORK IS INSTALLED CONFORMS WITH LAWS AND REGULATIONS OF ALL GOVERNING AUTHORITIES. BEFORE FINAL CERTIFICATE OF PAYMENT MAY BE CONSIDERED DUE, FURNISH COPIES OF ALL DRAWINGS AS MAY BE REQUIRED TO COMPLY WITH ABOVE. NOTIFY INSPECTION AUTHORITIES IN SUFFICIENT TIME FOR THEM TO INSPECT WORK.
- 7. EXAMINE SITE AND LOCAL CONDITIONS AFFECTING WORK UNDER THIS DIVISION TO ENSURE THAT WORK UNDER THIS DIVISION CAN BE SATISFACTORILY CARRIED OUT WITHOUT CHANGES TO DRAWINGS. NO ALLOWANCE WILL BE MADE LATER FOR ANY EXPENSE INCURRED THROUGH FAILURE TO MAKE THIS EXAMINATION. START OF WORK WILL BE DEEMED EVIDENCE OF ACCEPTANCE OF, AND SATISFACTION WITH, EXISTING CONDITIONS.
- 8. GUARANTEE ALL WORK FOR 12 MONTHS FROM THE DATE OF ACCEPTANCE.
- 9. ENSURE THAT ALL PRECAUTIONS ARE TAKEN TO PROTECT ALL PERSONNEL FROM HAZARDS DURING THE WORK. PROTECT ALL EQUIPMENT FROM DAMAGE FROM ANY CAUSE INCLUDING WEATHER.
- 10. USE ONLY NEW, FULLY CSA AND UL/C APPROVED FOR USE AS INSTALLED MATERIALS, AND TO MEET THIS SPECIFICATION IN ALL RESPECTS, UNLESS OTHERWISE NOTED.
- 11. INSPECT ALL EQUIPMENT UPON DELIVERY AND NOTIFY PROJECT ENGINEER OF ANY DAMAGE OR DEFICIENCIES.
- 12. COORDINATE MATERIAL STORAGE WITH THE SITE SUPERINTENDENT AND OTHER TRADES.
- 13. DURING THE COURSE OF CONSTRUCTION AND UPON COMPLETION, REMOVE ALL RUBBISH AND WASTE RESULTING FROM THIS WORK, TO THE SATISFACTION OF THE ENGINEER, CHECK, CLEAN AND REPAIR WHERE NECESSARY, ALL ELECTRICAL EQUIPMENT AND LEAVE IN A FIRST CLASS CONDITION.
- 14. THE WORK AS COVERED BY THESE SPECIFICATIONS AND PLANS IS INTENDED TO COMPLY EXACTLY WITH THE LATEST RULES AND REGULATIONS OF THE INSPECTION AUTHORITIES, AND THESE RULES ARE TO BE CONSIDERED AN INTEGRAL PART OF THESE SPECIFICATIONS. ALL REFERENCES TO CODES AND STANDARDS ARE TO THE LATEST ACCEPTED EDITIONS. IN CASE OF CONFLICT, NOTIFY ENGINEER IMMEDIATELY FOR CLARIFICATION PRIOR TO PROCEEDING.
- 15. MANUFACTURER'S INSTRUCTIONS REGARDING THE HANDLING, INSTALLATION AND TESTING OF EQUIPMENT SPECIFIED HEREIN SHALL BE CONSIDERED PART OF THIS SPECIFICATION.
- 16. PROVIDE ELECTRONIC COPY (PDF FORMAT) OF SHOP DRAWINGS FOR ALL SYSTEMS AND EQUIPMENT FOR REVIEW.
- 17. SUBMIT ELECTRONIC (PDF FORMAT) COPY OF OPERATION & MAINTENANCE (O&M) MANUALS FOR REVIEW IN ADVANCE OF PROJECT CLOSEOUT. PROVIDE A COPY OF THE FOLLOWING IN THE MANUALS:
 - a. LETTER OF WARRANTY.
 - b. ELECTRICAL SAFETY AUTHORITY (ESA) INSPECTION CERTIFICATE.
 - c. CITY INSPECTION REPORT.
 - d. FIRE ALARM VERIFICATION REPORT.
 - e. UPDATED PANEL SCHEDULES C/W ELECTRICAL COMPANY'S NAME AND DATE.
 - f. SHOP DRAWINGS.
 - g. AS BUILT DRAWINGS.
 - h. LIGHTING CONTROL COMMISSIONING.
 - i. EXIT AND EMERGENCY LIGHTING CERTIFICATION LETTER.
 - j. ALL MECHANICAL EQUIPMENT TEST AND START UP REPORTS.
 - k. LIST OF SUPPLIERS C/W ADDRESS AND PHONE NUMBERS.
 - l. SEISMIC REVIEW LETTER SEALED BY P. ENG.
- 18. SUPPLY ALL NECESSARY TOOLS, EQUIPMENT AND PERSONNEL AND PROVIDE DEMONSTRATION AND TRAINING TO OPERATING AND MAINTENANCE PERSONNEL IN OPERATING, CONTROLLING, ADJUSTING, TROUBLESHOOTING AND SERVICING OF ALL SYSTEMS AND EQUIPMENT DURING REGULAR WORK HOURS, PRIOR TO ACCEPTANCE.
- 19. AFTER AWARD OF CONTRACT, SUBMIT A DETAILED COST BREAKDOWN INDICATING MATERIAL AND LABOUR COSTS FOR EACH PORTION OF THE WORK, INCLUDING DEMOLITION, LIGHTING, POWER DISTRIBUTION, COMMUNICATIONS, FIRE ALARM, ETC. TO BE APPROVED BY THE ENGINEER.
- 20. THE DRAWINGS SHALL BE CONSIDERED TO SHOW THE GENERAL CHARACTER AND SCOPE OF THE WORK AND NOT NECESSARILY THE EXACT DETAILS OF THE PROVISION OF THE WORK. PROVISION OF THE WORK SHALL BE COMPLETE WITH ALL ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIVE INSTALLATION.
- 21. THESE ELECTRICAL DRAWINGS AND SPECIFICATIONS SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANT'S DRAWINGS AND SPECIFICATIONS.
- 22. PRIOR TO PROCEEDING WITH WORK, COORDINATE WORK WITH ALL OTHER TRADES TO AVOID INTERFERENCE AND PROVIDE INTERFERENCE DRAWINGS AS PART OF SHOP DRAWING SUBMISSION.
- 23. THE WORD "PROVIDE" SHALL DENOTE "SUPPLY, INSTALL, CONNECT AND TEST".
- 24. **DEMOLITION NOTES:**
 - a. UNLESS OTHERWISE NOTED, MATERIALS FOR REMOVAL BECOME THE CONTRACTOR'S PROPERTY AND SHALL BE TAKEN FROM SITE AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND REGULATIONS.
 - b. DISCONNECT AND MAKE SAFE ALL SYSTEMS TO BE DEMOLISHED INCLUDING PANELS, FEEDERS, BRANCH CIRCUITS AND EQUIPMENT BY OTHER DIVISIONS. COORDINATE WITH OTHER DIVISIONS.
 - c. MAINTAIN EXISTING REMAINING CIRCUITS, SYSTEMS, ETC., WHICH PASS THROUGH AND/OR ARE IN CLOSE PROXIMITY OF AREA OF CONSTRUCTION. PROVIDE NECESSARY COMPONENTS TO MAINTAIN SYSTEMS. ENSURE COMPONENTS WILL BE CONCEALED WHEN CONSTRUCTION IS COMPLETE.
 - d. REINSTATE IMMEDIATELY ANY REMAINING EXISTING SYSTEMS INADVERTENTLY INTERRUPTED DURING CONSTRUCTION.
 - e. THE DRAWINGS INDICATE KNOWN CONDITIONS AND MAY NOT INDICATE ALL DEMOLITION REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO TENDER SUBMISSION AND VERIFY REQUIREMENTS.
 - f. REMOVE REDUNDANT CONDUIT AND WIRING BACK TO SOURCE UNLESS OTHERWISE NOTED, AND MAKE SAFE.
 - g. DEVICES FROM DEMOLITION ARE NOT TO BE REUSE UNLESS NOTED OTHERWISE. NEW DEVICES SHALL BE SUPPLIED WHERE NECESSARY.
 - h. AFTER DEMOLITION WORK IS COMPLETE AND MINIMUM THREE (3) WORKING DAYS PRIOR TO PROCEEDING WITH NEW WORK, NOTIFY ENGINEER FOR INSPECTION.
- 25. **LABELING:**
 - a. FOR ALL NEW, RELOCATED AND EXISTING-TO-REMAIN ELECTRICAL DEVICES WITHIN THE CONTRACT AREA, PROVIDE CLEAR "BROTHER P-TOUCH" LABELS INDICATING CIRCUIT AND PANEL AT ALL EQUIPMENT, DEVICES, RECEPTABLES AND JUNCTION BOXES. FOR DEDICATED RECEPTABLE, INCLUDE THE WORD "DED" C/W CIRCUIT NUMBER.
 - b. PROVIDE LAMACOID LABELS ON DISCONNECT SWITCHES, MOTOR STARTERS, TRANSFORMERS AND PANELS. CLEARLY INDICATE EQUIPMENT CONTROLLED OR AREA SERVICED AS WELL AS FEEDER SOURCE. INDICATE FUSE SIZE AND TYPE ON FUSED DISCONNECTS SWITCHES. LETTERING TO BE BLACK ON WHITE BACKGROUND, MINIMUM 25mm (1") HIGH.
 - c. TRACE EXISTING CIRCUITS AND UPDATE PANEL SCHEDULES.
- 26. PROVIDE CUTTING, PATCHING AND CORING OF ALL SURFACES REQUIRED TO FIT THE ELECTRICAL EQUIPMENT. CHECK WITH BUILDING MANAGEMENT PRIOR TO CORE DRILLING AND CUTTING OF FLOOR SLAB, REGARDING BUILDING PROCEDURES. PRIOR TO SLAB CUTTING OR CORING, SCAN THE SLAB AND COORDINATE TO MINIMIZE CUTTING OF REINFORCING STEEL. FIRE STOP ALL NEW FIRE RATED PENETRATIONS. OBTAIN WRITTEN VERIFICATION PRIOR TO PROCEEDING. CUTTING TORCHES SHALL NOT BE USED FOR MAKING HOLES. PATCHED SURFACES ARE TO BE PRIME FINISHED, READY FOR FINAL COVERING BY OTHERS.
- 27. **FIRE AND SMOKE STOPPING:**
 - a. PROVIDE FIRE AND SMOKE STOPPING WHERE CONDUITS, CABLES, TRAYS, ETC. PENETRATE FLOOR SLABS OR FIRE RATED WALLS WITH A UL/C LISTED PUTTY, EQUAL TO 3M CAULK CP25 OR PUTTY 303. USE FIRESTOP BLOCKS FOR LARGER OPENINGS, EQUAL TO HULTI CFS-BL.
 - b. PROVIDE FIRE RATED PUTTY PAINT ON OUTLETS PENETRATING FIRE RATED PARTITIONS.
 - c. INSTALLATION OF FIRE STOPPING PRODUCTS SHALL BE COMPLETED BY TRAINED MANUFACTURER REPRESENTATIVES.
- 28. **ANCHORING METHODS:**
 - a. ELECTRICAL EQUIPMENT, FIXTURES, CABLE TRAY, CONDUIT AND CABLING IS TO BE SECURELY ANCHORED OR FASTENED TO THE BUILDING STRUCTURE USING DRILLED HOLE WEDGE ANCHORS FOR CONCRETE STRUCTURES OR STEEL CLAMPS FOR STEEL STRUCTURES.
 - a.a. AIR, FUEL OR POWER ACTIVATED DEVICES OR ANY OTHER EQUIVALENT TYPE OF FASTENING DEVICES ARE NOT TO BE USED.
 - a.b. WHERE ANCHORING METHOD FORMS PART OF SEISMIC RESTRAINT REQUIREMENTS, ANCHORING METHODS TO COMPLY WITH SEISMIC RESTRAINT SYSTEMS (SRS).
 - b. **LUMINAIRE SUPPORTS:**
 - b.a. FOR RECESSED OR SURFACE MOUNTED LIGHTING IN SUSPENDED CEILING INSTALLATIONS, SUPPORT LUMINAIRES INDEPENDENTLY FROM CEILING, BY MEANS OF A MINIMUM OF TWO CHAIN HANGERS BOLTED TO DOWEL CORNERS OF THE FIXTURE BODY AND SECURED TO BUILDING STRUCTURE IN ACCORDANCE WITH APPLICABLE ELECTRICAL CODE, AND SEISMIC RESTRAINT SYSTEMS (SRS).

- 29. **GROUNDING AND BONDING:**
 - a. PROVIDE GROUNDING AND BONDING OF ALL EQUIPMENT WITH APPROVED FITTINGS AND CONDUCTORS OF AMPERE CAPACITY IN ACCORDANCE WITH APPLICABLE ELECTRICAL CODE. ALL CONDUCTORS SHALL HAVE GREEN INSULATION OR BE COLOUR CODED WITH PERMANENTLY ATTACHED GREEN TAPE 21mm (3/4") WIDE AT EACH END. PROVIDE INSULATED GROUND/BONDING CONDUCTOR IN EACH CONDUIT.
- 30. **WIRING AND RACEWAYS:**
 - a. ALL INTERIOR WIRING SHALL BE COPPER RW90 #12 CONDUCTOR MINIMUM.
 - b. AC-90 (B9) MAY BE USED IN REMOVABLE CEILINGS AND METAL PARTITION WALLS, MAXIMUM LENGTH 3 METERS (9'10").
 - c. INTERIOR RACEWAYS SHALL BE THIN WALL ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE INDICATED. CONDUITS TO BE COMPLETE WITH STEEL SET-SCREEN COUPLINGS AND CONNECTORS AND NYLON BUSHING.
 - d. EXTERIOR RACEWAYS SHALL BE RIGID PVC C/W EXPANSION FITTINGS UNLESS OTHERWISE INDICATED.
 - e. PROVIDE FS TYPE BOXES AND FACEPLATES FOR SURFACE MOUNTED DEVICES. BURIED RACEWAYS SHALL BE DE2 UNLESS OTHERWISE INDICATED.
 - f. COLOUR CODING SHALL MATCH BASEBUILDING STANDARDS. COLOUR CODE CONDUITS AND BOXES: CODE WITH PLASTIC TAPE OR PAINT WHERE CONDUITS ENTER WALLS, CEILING, OR FLOOR AND AT 15 METERS (45') INTERVALS.
 - h. USE LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR CONNECTION TO MOTORS AND EQUIPMENT LOCATIONS.
 - i. SURFACE CONDUIT TO RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES.
 - j. ALL CONDUITS AND JUNCTION BOXES TO BE ANCHORED TO THE BUILDING STRUCTURE.
 - k. PROVIDE A POLYPROPYLENE FULL STRING IN ALL EMPTY CONDUITS.
 - l. REMOVE AND DISPOSE OF ANY REDUNDANT EXISTING CONDUIT AND WIRING.
 - m. MINIMUM SIZE CONDUIT TO BE 21mm (3/4") UNLESS SPECIFIED OTHERWISE.
 - n. ENSURE ALL EXISTING CEILING MOUNTED BOXES ARE CLOSED PRIOR TO COMPLETION OF PROJECT. PROVIDE LABELLED AND COLOUR CODED COVER PLATES (E. PANEL NAME AND CIRCUIT NUMBER) AS REQUIRED.
- 31. ALL NEW SURFACE MOUNTED EQUIPMENT IS TO BE SPRINKLERPROOF, EEMAC/CSA TYPE 2.
- 32. **DEVICES, SWITCHES AND RECEPTABLES TO BE SPECIFICATION GRADE WITH COVER PLATES AND COLOUR AS SPECIFIED:**
 - a. STANDARD RECEPTACLE: WHITE DEVICE, STAINLESS STEEL COVER PLATE
 - b. LIGHT SWITCH: WHITE DEVICE, STAINLESS STEEL COVER PLATE
- 33. **MOUNTING HEIGHTS:**

UNLESS NOTED OTHERWISE, MOUNTING HEIGHT FOR ALL ELECTRICAL DEVICES SHALL MEET "BARBER-FREE" CODE REQUIREMENTS. MOUNTING HEIGHTS IDENTIFIED ARE MEASURED FROM FLOOR TO CENTRELINE OF DEVICE UNLESS SPECIFIED OR INDICATED OTHERWISE.

 - a. 400mm A.F.F. FOR STANDARD HEIGHT RECEPTABLES, VOICE/DATA OUTLETS, ETC.
 - b. 1100mm A.F.F. FOR LIGHT SWITCHES, AND ALL OTHER CONTROLS
 - c. 1700mm ABOVE TOP OF COUNTERTOP OR COUNTER BACK SPLASHES.
 - d. 2100mm A.F.F. FOR WALL MOUNTED SPEAKERS, BELLS, CLOCKS, ETC.
 - e. WALL MOUNTED FIRE ALARM AUDIBLE AND VISUAL SIGNAL DEVICES SHALL BE INSTALLED NOT LESS THAN 2300mm TO TOP OF DEVICE, OR 150mm BELOW CEILING WHERE CEILING HEIGHTS DO NOT ALLOW IN ACCORDANCE WITH CAN/ULC S-524.
- 34. **LUMINAIRES:**
 - a. PROVIDE LIGHTING FIXTURES, COMPLETE WITH LAMPS AND ALL REQUIRED ACCESSORIES, AS INDICATED IN LIGHT FIXTURE SCHEDULE.
 - b. DO NOT MOUNT FIXTURES ABOVE PIPES, DUCTS OR EQUIPMENT. CHECK LAYOUTS OF WORK BY OTHER TRADES ON PROJECTS AND PLAN COOPERATIVELY WITH OTHERS TO AVOID CONFLICT. PROVIDE LONGER HANGERS TO CLEAR OBSTRUCTIONS, IN EVENT OF UNAVOIDABLY TIGHT LOCATIONS. PROVIDE CHAIN HANGERS FOR ALL FIXTURES IN T-BAR CEILING.
 - c. CLEAN LAMPS, LENSES, INTERIOR AND VISIBLE SURFACES OF LUMINAIRES. REPLACE DEFECTIVE LAMPS, BALLASTS, DIMMERS, LENSES, ETC.
 - d. ADD, RELOCATE AND CONNECT LIGHT FIXTURES TO SUIT INDICATED LAYOUT. EXTEND CONDUIT AND WIRING AS NECESSARY AND CONNECT LUMINAIRES TO NEW AND EXISTING CIRCUITS AND CONTROLS. TURN OVER SURPLUS FIXTURES TO OWNER.
- 35. **EXIT LIGHTS:**
 - a. TO CSA C22.2 NO.141, CSA C860, ISO 3864-1 AND ISO 7010.
 - b. STEEL FRAME, OPAL DIFFUSER PANEL, PICTOGRAM PANEL WITH MULTIPLE FLAMS FOR DIRECTION SELECTION, AND CLEAR PROTECTIVE PANEL. LED LAMP WITH 25-YEAR RATED LIFE. PICTOGRAM PANEL SHALL CONSIST OF GREEN PICTOGRAM AND WHITE GRAPHIC SYMBOL.
 - c. SUITABLE FOR 120V TO 347V NORMAL SUPPLY AND 6VDC TO 24VDC EMERGENCY SUPPLY.
 - d. DIE CAST MOUNTING BRACKET FOR WALL, CEILING, OR END MOUNTING AS INDICATED.
 - e. CONNECT OUT LIGHTS TO AC AND DC SUPPLIES.
 - f. ADD/REMOVE DIRECTIONAL ARROWS TO SUIT FLOOR PLAN LAYOUT.
 - g. ENSURE THE DEVICE HAS 610mm CLEARANCE FROM ANY SPRINKLER HEAD.
 - h. HOUSING COLOUR: WHITE.
- 36. **UNIT EQUIPMENT FOR EMERGENCY LIGHTING:**
 - a. PROVIDE EMERGENCY LIGHTING AS SHOWN ON DRAWINGS AND AS SPECIFIED HEREIN. USE 6-24VDC UNITS CONSISTING OF A SEALED LEAD BATTERY UNIT, WITH HI-LO SOLID STATE CHARGER, CONTROLS, TEST SWITCH, A.C. AND HI-CHARGE PILOT LIGHTS, LONG LIFE SEALED LEAD BATTERY IN 18-GAUGE STEEL CASE. COMPLETE WITH MOUNTING BRACKET. UNIT TO BE PROVIDED WITH 3-CONDUCTOR POWER CORD TO PLUG INTO WALL MOUNTED RECEPTACLE.
 - b. EMERGENCY LIGHTS ARE NORMALLY OFF, AND BATTERY TO BE KEPT FULLY CHARGED BY AUTOMATIC CHARGER. ON FAILURE OF NORMAL POWER, EMERGENCY LIGHTS MUST COME ON AUTOMATICALLY.
 - c. PROVIDE BATTERY UNITS WITH SUFFICIENT CAPACITY TO PROVIDE 90% VOLTAGE AFTER 30 MINUTES OF OPERATION WITH CONNECTED LOAD PLUS 50% SPARE CAPACITY. BATTERY TO CARRY A 10 YEAR PRG-WA WARRANTY IN ADDITION TO THE 12 MONTH GUARANTEE ON TOTAL UNIT.
 - d. REMOTE LIGHTING HEADS TO BE DIE CAST ALU. 6-24VDC, LED W/16 LAMPS IN DIE CAST METAL HEAD WITH FULLY ADJUSTABLE AIMING. RUN WIRING IN CONDUIT MINIMUM #10 AWG OR AS RECOMMENDED BY MANUFACTURER, VOLTAGE DROP AT ANY REMOTE HEAD SHALL NOT EXCEED 0.5%.
- 37. **FIRE ALARM:**
 - a. EXISTING FIRE ALARM SYSTEM IS NOTIFIER.
 - b. ALL NEW FIRE ALARM SYSTEM COMPONENTS TO BE CAN/ULC APPROVED AND BE COMPATIBLE WITH EXISTING. DO COMPLETE INSTALLATION IN ACCORDANCE WITH CAN/ULC-S254 LATEST EDITION.
 - c. ALL NEW DEVICES TO BE LABELLED WITH CORRECT IDENTIFICATION, INCLUDING THE LOOP, CIRCUIT AND THE DEVICE NUMBER, ON THE BASE OF THE DEVICE IN ACCORDANCE WITH BUILDING STANDARD.
 - d. ALL NEW DEVICES TO BE VERIFIED BY MANUFACTURER.
 - e. THE GRAPHICS/SOFTWARE AND THE FIRE ALARM ADDRESSABLE DEVICE LEGEND MUST BE UPDATED IMMEDIATELY TO ADD NEW DEVICES AND TO REMOVE ANY DEVICES THAT HAVE BEEN ELIMINATED AS A RESULT OF THE PROJECT. AT THE COMPLETION OF THE PROJECT AN UPDATED FIRE ALARM ADDRESSABLE DEVICE LEGEND FOR THE BUILDING SHALL BE SUBMITTED TO THE PROJECT MANAGER.
 - f. ALL WORK BEING CARRIED OUT ON THE FIRE SAFETY SYSTEMS MUST BE RECORDED IN THE LOGBOOK EVERY DAY, IN ADDITION TO THE REQUIREMENT OF A SIGNED WORK PERMIT.
 - g. IF THE CONTRACTOR DOING WORK ON THE FIRE ALARM SYSTEM IS NOT THE "MAINTENANCE" CONTRACTOR, THE MAINTENANCE CONTRACTOR MUST BE ADVISED IN ADVANCE.
 - h. NOTIFY AND DEMONSTRATE THE COMPLETE SYSTEM TO OWNER'S AND BUILDING INSPECTION'S REPRESENTATIVES ONLY AFTER TESTING AND VERIFICATION PERFORMANCE HAVE BEEN COMPLETED AND ALL DEFICIENCIES RECTIFIED. IN THEIR PRESENCE, DEMONSTRATE THE PROPER FUNCTIONING OF THE SYSTEM. HAVE SYSTEM MANUFACTURER'S CERTIFIED TECHNICIAN PRESENT.
 - i. ALL FIRE ALARM DEVICES TO REMAIN IN OPERATION. PROTECT SMOKE DETECTORS FROM DUST EXPOSURE DURING CONSTRUCTION.
 - j. ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT THE END OF EACH SHIFT.
 - k. ADJUST FIRE ALARM AUDIBLE DEVICE TAP SETTINGS TO MEET APPLICABLE CODES FOR SOUND LEVELS WITHIN THE AFFECTED SPACE. ADVISE ENGINEER OF ANY ISSUES WHICH ARISE FROM CONFLICT WITH THE CODES PRIOR TO COMMENCING THE WORK.
 - l. TEST FINAL INSTALLATION AND PROVIDE VERIFICATION OF FIRE ALARM SYSTEMS IN ACCORDANCE WITH CAN/ULC S537 LATEST EDITION. VERIFICATION REPORT SHALL INCLUDE MEASURED @b LEVELS.
- 38. **POWER NOTES:**
 - a. ENSURE EXISTING REMAINING OUTLETS IN AFFECTED AREA ARE FUNCTIONAL.
 - b. DO NOT MOUNT WALL OUTLETS BACK TO BACK. LEAVE MINIMUM 300mm (12") SPACE BETWEEN OUTLETS. STAGGER OUTLETS WITHIN ALTERNATE STUD CAVITIES. DO NOT ANCHOR BACK TO BACK OUTLETS TO THE SAME STUD.
- 39. **COMMUNICATION NOTES:**
 - a. REMOVAL OF TELECOMMUNICATION CABLING IS BY OWNER, UNLESS OTHERWISE NOTED.
 - b. UNLESS OTHERWISE NOTED PROVIDE PLASTER RINGS FOR OUTLETS WITH OUTLET BOXES 108mm SQUARE X 63mm DEEP EACH WITH 21mm EMPTY CONDUIT TO CEILING SPACE C/W BUSHING AND PULL STRINGS, NEW TEL AND/OR DATA CABLES, TERMINAL DEVICES AND COVER PLATES WILL BE SUPPLIED AND INSTALLED BY COMMUNICATIONS CONTRACTOR.
- 40. **OUTLETS LOCATION:**
 - a. EXACT LOCATION AND MOUNTING HEIGHTS OF OUTLETS TO BE COORDINATE WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH IN. REFER TO ARCHITECTURAL DRAWINGS FOR MILLWORK, FURNITURE, SCREENS, COMPONENTS (E.G. TV, DRINKING FOUNTAIN, ETC.) REQUIREMENTS.
 - b. BRING TO THE ATTENTION OF THE ARCHITECT ANY CONFLICTS OR REQUIRED CLARIFICATION.
 - c. CHANGE OF LOCATION OF OUTLETS AT NO EXTRA COST OR CREDIT, PROVIDING DISTANCE DOES NOT EXCEED 300mm (9'10"), AND INFORMATION IS GIVEN BEFOREHAND.
 - d. FAILING TO COORDINATE, THE CONTRACTOR WILL MODIFY THE INSTALLATION AT HIS EXPENSE, IF REQUIRED.
 - e. OUTLETS LOCATED LESS THAN 1500mm (4'11") FROM A SINK, SHOWER STALL OR BATH TUB SHALL BE GFI CLASS A PROTECTED.
 - f. OUTLETS LOCATED IN FIRE-RATED WALLS SHALL BE SPACED MINIMUM 600MM APART IN DIFFERENT STUD CAVITIES AND HAVE FIRE RATED PUTTY PADS.
- 41. **DISCONNECT SWITCHES:**
 - a. HEAVY DUTY FUSIBLE AND NON-FUSIBLE DISCONNECT SWITCH IN CSA ENCLOSURE 2 (SPRINKLER PROOF), SIZED AS INDICATED. CSA 3 ENCLOSURE IN OUTDOOR OR DAMP LOCATIONS. QUICK MAKE, QUICK BREAK TYPE.
 - b. PROVISION FOR PAULDING IN ON-OFF SWITCH POSITION.
 - c. MECHANICALLY INTERLOCKED DOOR TO PREVENT OPENING WHEN HANDLE IN ON POSITION.
 - d. FUSES: SIZE AS INDICATED, HRG (TIME DELAY TYPE).

- 42. **MECHANICAL EQUIPMENT WIRING:**
 - a. PROVIDE ALL WIRING TO MECHANICAL EQUIPMENT, OBTAIN MECHANICAL SHOP DRAWINGS AND RECONFORM FEEDER AND BREAKER REQUIREMENTS PRIOR TO INSTALLATION. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- 43. **MOLDED CASE CIRCUIT BREAKERS:**
 - a. BOLT-ON MOLDED CASE CIRCUIT BREAKER: QUICK-MAKE, QUICK-BREAK TYPE, FOR MANUAL AND AUTOMATIC OPERATION WITH TEMPERATURE COMPENSATION FOR 40°C AMBIENT.
 - b. COMMON-TRIP BREAKERS: WITH SINGLE HANDLE FOR MULTI-POLE APPLICATIONS.
 - c. MOLDED CASE CIRCUIT BREAKER TO OPERATE AUTOMATICALLY BY MEANS OF THERMAL AND MAGNETIC TRIPPING DEVICES TO PROVIDE INVERSE TIME CURRENT TRIPPING. COMPLETE WITH LONG (L), SHORT (S), INSTANTANEOUS (I), GROUND FAULT (G) TRIPPING AND OTHER OPTIONS WHERE INDICATED.
- 44. **FIELD QUALITY CONTROL:**
 - a. MINIMUM THREE (3) WORKING DAYS PRIOR TO CLOSING CEILING, NOTIFY THE ENGINEER FOR CEILING INSPECTION.
 - b. CONDUCT AND PAY FOR THE FOLLOWING TESTS:
 - b.a. POWER GENERATION, 600V AND 120V POWER DISTRIBUTION INCLUDING PHASING, VOLTAGE AND GROUNDING.
 - b.b. LIGHTING AND CONTROLS
 - b.c. MOTORS, HEATERS AND ASSOCIATED CONTROL EQUIPMENT
 - b.d. EMERGENCY LIGHTING
 - b.e. SYSTEMS FIRE ALARM
 - b.f. INSULATION INTEGRITY TESTING
 - b.g. HOT SPOT TESTING BY INFRARED SCANNER
 - c. SUBMIT TEST PROCEDURES AND INFORM ENGINEER AT LEAST 7 DAYS BEFORE SCHEDULED TESTS. ENGINEER TO WITNESS TESTS AT HIS DISCRETION.
 - d. CONTRACTOR TO NOTIFY PROJECT MANAGER IN WRITING MINIMUM OF THREE (3) WORKING DAYS BEFORE SCHEDULED SUBSTANTIA. COMPLETION TO ARRANGE INTERIM INSPECTION AND EQUIPMENT STARTUP. NOTIFY PROJECT MANAGER IN WRITING OF ANY CHANGES IN SCHEDULE.



Client

DATE	REVISION	REF
2026-02-06	RE-ISSUED FOR PERMIT / TENDER	1
2026-01-20	ISSUED FOR PERMIT	0
2026-01-14	ISSUED FOR TENDER	0

THE ENGINEER MAKES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE SPECIFICATIONS AND DESIGN DECISION WHICH THEY COMPLY, OR FOR PROBLEMS WHICH ARISE FROM OTHER FAILURE TO OBTAIN AND / OR FOLLOW THE CONTRACTOR'S OBLIGATIONS WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.

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Project/Projet
Nord du projet

1 MA-TE-WAY PARK DR. - MA-TE-WAY CENTRE - 2-STOREY ADDITION & NEW CENTRE

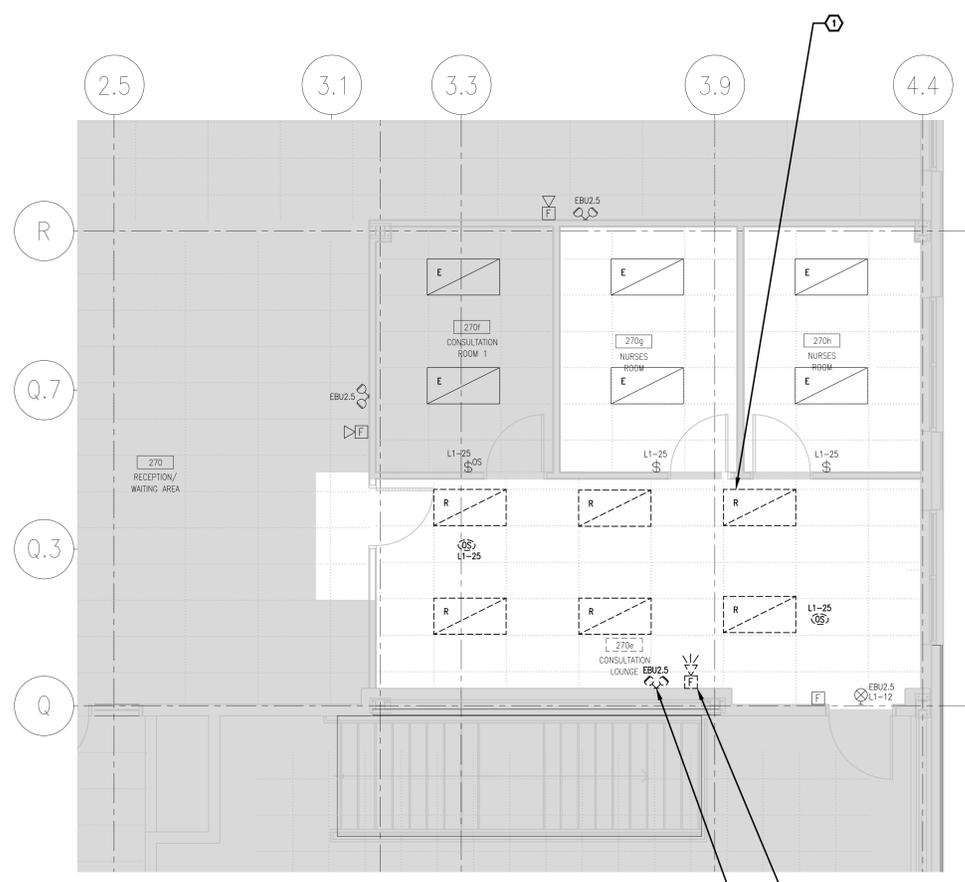
Drawing/ titre du dessin

ELECTRICAL SPECIFICATIONS

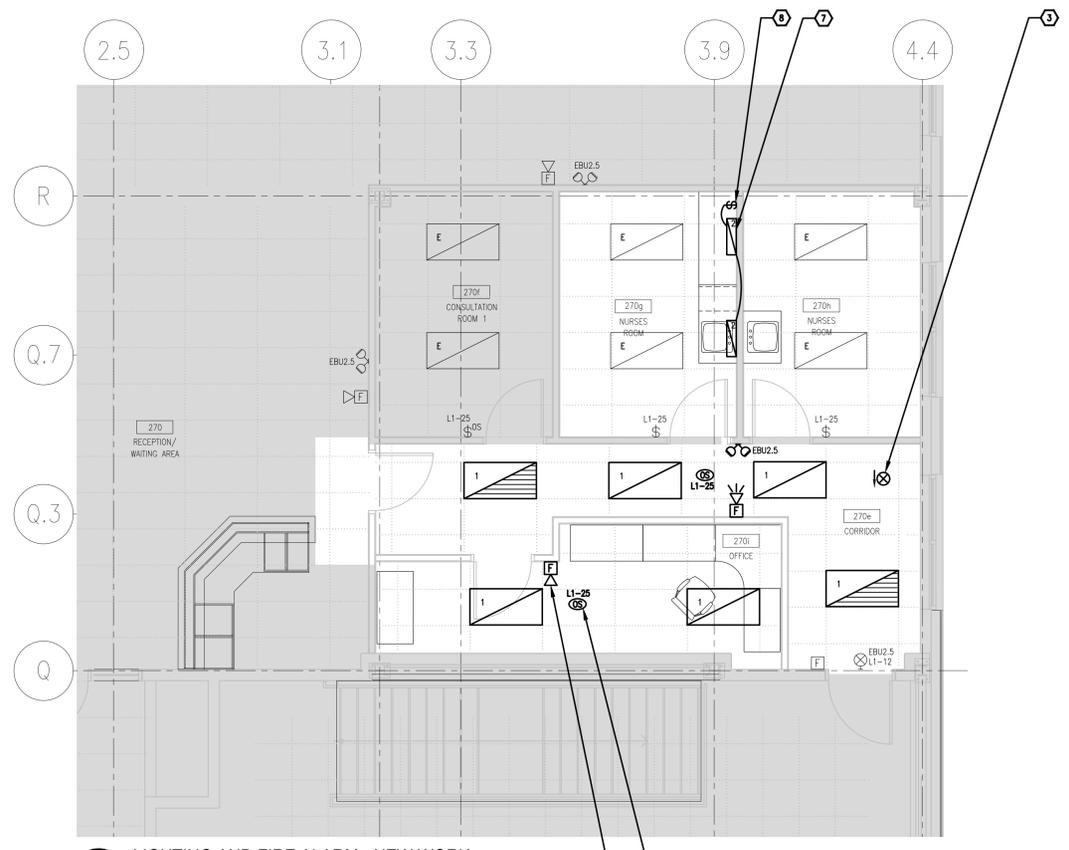
Scale	AS NOTED	Project no./No. du projet
Echelle		2017-667-1
Design by	N.HUSAIN	Drawing/Desin
Conçu par		
Drawn by	N.HUSAIN	
Dessiné par		
Examined by	R.BOIVIN/AGRARD	
Date	FEBRUARY 2026	Revision no. / Acad /Révisé/Tchier:

E2
of 4

Client



1 LIGHTING AND FIRE ALARM - DEMOLITION WORK
E3 1:50



2 LIGHTING AND FIRE ALARM - NEW WORK
E3 1:50

DRAWING NOTES

- 1 **TYPICAL:** DISCONNECT AND RELOCATE EXISTING BASE BUILDING LIGHT FIXTURES AS INDICATED. REMOVE CONDUIT AND WIRING BACK TO THE NEAREST JUNCTION BOX AND MAKE SAFE. RETAIN CIRCUIT FOR USE IN NEW LAYOUT. EXTEND CONDUIT AND WIRING AS REQUIRED.
- 2 DISCONNECT AND RELOCATE EXISTING WALL MOUNTED EMERGENCY REMOTE HEADS AS SHOWN. EXTEND CONDUIT AND WIRING AS REQUIRED. REFER TO DETAIL 2 FOR NEW LOCATION.
- 3 PROVIDE NEW PICTOGRAM TYPE EXIT SIGN AS INDICATED TO MATCH BASE BUILDING STANDARDS. CONNECT TO EXISTING EMERGENCY LIGHTING CIRCUIT FEEDING THE AREA. EXTEND CONDUIT AND WIRING AS REQUIRED.
- 4 **TYPICAL:** DISCONNECT AND RELOCATE EXISTING CEILING MOUNTED OCCUPANCY SENSOR AS SHOWN. CONNECT TO LOCAL FIXTURES. EXTEND CONDUIT AND WIRING AS REQUIRED.
- 5 PROVIDE NEW FIRE ALARM HORN AS INDICATED. CONNECT TO EXISTING FIRE ALARM CIRCUIT FEEDING THE AREA. PROVIDE TESTING OF FIRE ALARM SIGNALING CIRCUITS TO ENSURE CIRCUITS ARE NOT OVERLOADED.
- 6 DISCONNECT AND RELOCATE EXISTING FIRE ALARM COMBINATION HORN/STROBE AS SHOWN. EXTEND CONDUIT AND WIRING AS REQUIRED.
- 7 **TYPICAL:** PROVIDE NEW LIGHT FIXTURES AS SHOWN. CONNECT TO EXISTING LIGHTING CIRCUITS FEEDING THE AREA. REFERENCE LIGHTING FIXTURE SCHEDULE ON DRAWING E1 FOR ADDITIONAL DETAILS.
- 8 PROVIDE NEW LOW VOLTAGE, ON/OFF, WALL MOUNTED SWITCH AS SHOWN. CONNECT TO LOCAL FIXTURES.

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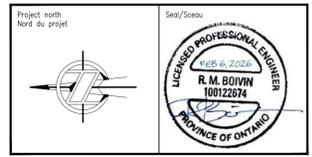
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Project/Projet
1 MA-TE-WAY PARK DR. - MA-TE-WAY CENTRE - 2-STORY ADDITION & NEW CENTRE

Drawing title/Titre du dessin
LIGHTING AND FIRE ALARM - DEMOLITION WORK AND NEW WORK

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Echelle			
Design by	N.HUSAIN	Drawing/Desin	
Conçu par			
Drawn by	N.HUSAIN		
Dessiné par			
Reviewed by	R.BOVIN/A.GIRARD		
Examiné par			
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