

McMaster University
Department of Facility Services
Design and Construction
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Hamilton, ON
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Project: **RFQ-1202-2025**
Project Name: University Hall HVAC Upgrade
Project Number: 20020136
Date: August 27, 2025
Page: 1

This addendum forms a part of the RFQ documents and will be incorporated into the Contract Documents, as applicable. This addendum changes and shall govern over the referenced sections of the original RFQ documents or any previously issued addenda. Acknowledge receipt of this addendum on the quotation form. Failure to acknowledge receipt of addenda on the quotation form shall result in disqualification.

Question 1:

1. Please advise if an extension can be provided for this tender.
2. The new installed ductwork on M2.0, the duct shows 100x50, which would make the duct 4"x2". Is this a typo? CFSD will not come smaller than 150x150/ 6"x6"
3. For ERV-1, are the Supply & Exhaust Fan VFD's provided by the Manufacturer?
4. For ERV-1, are the Outdoor Air & Exhaust Air Dampers provided by the Manufacturer? If these dampers are provided, are they provided with Actuators?
5. For ERV-1, Are the Return Air & Supply Air Airflow Stations provided by the Manufacturer?
6. Relating to ERV-2A/B, these ERV's appear to be small, packaged units with self contained controls and we want to confirm the BAS/Control Points required as indicated on M0.3 Detail-4?
7. For ERV-2A/B, I believe that we should provide these units with a Start/Stop Command, Monitor the Status of the Fans & Filters. Please confirm.
8. For ERV-2A/B, are the Outdoor Air & Exhaust Air Dampers provided by the Manufacturer in these ERV's?
9. For ERV-2A/B, are isolation Dampers required on the Outdoor Air & Exhaust Air at the Perimeter Wall?
10. Specification section 01 14 00 – Work Restrictions notes all work within the tenants work areas to be completed after hours. Please advise which areas can be completed during regular working hours.
11. No scale is provided for any mechanical drawings. Please provide scale for all the mechanical drawings.

-
12. Please advise if pipe freezing is required for isolating the hydronic pipes in each level or there is existing isolation valves which can hold.
 13. Please confirm if pipe freezing is required, it can be done during regular working hours.
 14. No pipe size is provided for the existing pipes where new CD, CHWS/R, HWS/R, LPS & LPC pipes are connecting in the basement, Level 1, Level 2 and Level 3. Please provide the pipe sizes of the existing pipes.
 15. Please confirm the access to the attic space for equipment and structural steel is to be through a hole in the roof as there does not appear to be any other means of material access.
 16. Please advise if there is any limitation in size of the access hole in the roof.
-

Answer 1:

1. Refer to Addendum #2 for revised tender schedule.
2. Ducts sizes have been revised. No new ducts should be smaller than 6x4, and where fire dampers are required, ducts are at a minimum 6x6. Refer to enclosed MCW Addendum 01.
3. VFD's are to be supplied by manufacturer and installed inside the fan sections and energy wheel sections.
4. No, supply and exhaust dampers are not provided. These are to be provided separately within their respective plenums. Refer to enclosed MCW Addendum 01.
5. No. All of the controls, including the sensor and other end devices to be by BAS (temperature sensors, CO2, humidity etc., air flow stations, dirty filter switches, sensors on the energy wheel together with the defrost logic, control/operation logic, PLCs etc.). This is to eliminate the need for additional controls panels and to avoid possible communication conflicts with the BAS.
6. These units should have start/stop/status monitoring only. Coil temperature sensors, supply air sensors, and return air sensors, should be provided within the ductwork mains entering and leaving the pair of units, as appropriate with respect to the coil locations. Valves on the coils will need to control to these sensors to maintain air quality.
7. Start/Stop/Status should be provided. Filter status monitoring is not required for these units.
8. No, supply and exhaust dampers are not provided. These are to be installed in the respective plenums. Refer to enclosed MCW Addendum 01.

9. Motorized dampers have been added to the plenums at the wall for these units. Refer to enclosed MCW Addendum 01.

10. Regular working hours at the University Hall building are considered to be from 7:00a.m. to 10:00p.m. Classrooms and Offices are expected to be occupied between 7:00a.m. and 3:00p.m. during the week. Work can be undertaken from 3:00p.m. until 10:00p.m. in Classrooms and Offices provided areas are cleaned and prepared for the next day's occupation at the end of each shift.

Solid colored blocks on the previously issued Planning Schedule indicate weeks when specific rooms are fully available. The Classroom and Registrar areas are the most restrictive in availability. As indicated in the schedule, the facility will be fully available the week of October 13th, the weeks of December 8th thru January 5th inclusive, the week of February 16th, and the weeks of April 6th to May 11th inclusive.

11. Drawings have been prepared at ~1:96 scale, however, all drawings are for diagrammatic purposes only and should not be scaled. Final sizes and locations of all equipment with respect to building features and one another are the responsibility of the installing contractor.

12. Assume that the valves will not hold and include for pipe freezing in the pipes at each level. Size for pipes have been added to the drawings. Refer to enclosed MCW Addendum 01.

13. Work which is non-obtrusive to surrounding occupants within adjacent spaces and to the general occupancy of the building may take place during regular working hours.

14. Pipe sizes have been added to the drawings for the existing piping where appropriate. Refer to enclosed MCW Addendum 01.

15. Correct, access to the attic area for equipment will be through the new temporary roof opening. There is a fixed ladder access from the third floor for personnel.

16. New access opening(s) will be limited in dimension due to the existing interior framing of the roof structure. Regular spacing of the existing framing members will govern the size of any individual roof deck openings.

Question: 2

1. Multiple Mechanical and Electrical sub trades are requesting a scheduled sub trade walk through prior to the submission deadline to gain more info for their pricing.

2. Is there a preferred fire alarm contractor?

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3. Will an ESA safe inspection be needed for altering electrical panel ESP?
 4. We have received multiple requests by sub trades for an extension of the tender close deadline. Can the deadline be extended by one week to provide more accurate pricing.
 5. Is there a preferred fire alarm contractor?
 6. Can you please provide a panel schedule for ESP-A?
 7. Can we use EMT conduit rather than wire mold?
-

Answer: 2

1. Trades Walk through was granted on Tuesday Sept 26th at 10:30am, notice was sent to bidders through bonfire on Aug 22.
2. Work to be performed by one McMaster's approved fire alarm contractors. Refer to list provided by McMaster.

Tyco Integrated Fire & Security Canada Inc. D/B/A Johnson Controls 40, Hempstead Drive, Hamilton, ON – L8W 2E7 Ph: 905-577-4077 Fax: 905-577-0091 Contact: Dave Cook + Troy Paterson Email: dave.cook@jci.com + troy.paterson@jci.com	PLC Fire Safety Solutions 3413, Wolfedale Road, Unit 7 Mississauga, ON – L5C 1V8 Tel: 905-949-2755 Fax: 905-949-1752 Contact: Rudy Cronk Email: rcronk@plcfire.com
Richardson Fire Systems Inc. 13 Old Mill Road Cambridge, ON – N3H 4R8 Tel: 519-650-8057 Fax: 519-650-0343 Contact: Jean M. Howitt Email: jean.howitt@richardsonfire.com	Troy Life & Fire Safety Ltd. 4697, Christie Drive, Beamsville, ON – L0R 1B4 Tel: 905-563-4889 Fax: 905-563-8477 Contact: Glen Zimmerman Email: glen.zimmerman@troylfs.com
Vipond Fire Protection, A division of Vipond Inc. 807 South Service Road Hamilton, ON – L8E 5Z2 Tel: 905-643-6006 Fax: 905-643-7671 Contact: Julien Van Overloop + Jason Lucas Email: julien.vanoverloop@vipond.ca + jason.lucas@vipond.ca	

3. Application and clearance to ESA is the responsibility of the electrical contractor.
4. Refer to Addendum #2 for revised tender schedule.

-
5. Work to be performed by one McMaster's approved fire alarm contractors. Refer to list provided by McMaster.
 6. As specified on the drawings that the new panel "shall be rated for 100A, 120/208V, 3ph and come complete with twelve (12) 15A-1P breakers".
 7. EMT conduit is acceptable.
-

Question: 3

1. No scale is provided for any mechanical drawings. Please provide scale for all the mechanical drawings.
 2. Please confirm all the work can be performed during regular working hours.
 3. Please advise if pipe freezing is required for isolating the hydronic pipes in each level or there is existing isolation valves which can hold.
 4. Please confirm if pipe freezing is required, it can be done during regular working hours.
 5. No pipe size is provided for the existing pipes where new CD, CHWS/R, HWS/R, LPS & LPC pipes are connecting in the basement, Level 1, Level 2 and Level 3. Please provide the pipe sizes of the existing pipes.
-

Answer: 3

1. Drawings have been prepared at ~1:96 scale, however, all drawings are for diagrammatic purposes only and should not be scaled. Final sizes and locations of all equipment with respect to building features and one another are the responsibility of the installing contractor.
2. Regular working hours at the University Hall building are considered to be from 7:00a.m. to 10:00p.m. Classrooms and Offices are expected to be occupied between 7:00a.m. and 3:00p.m. Bearing in mind that this building will be in operation during the renovations some consideration and coordination will be required on behalf of the contractor to work cooperatively with University staff. Not all rooms will be accessible at all times. Refer to the previously provided schedule indicating localized restrictions for specific areas of work. Schedule also indicates open blocks of time when full access to the building will be available.
3. Assume that the valves will not hold and include for pipe freezing in the pipes at each level. Size for pipes have been added to the drawings. Refer to enclosed MCW Addendum 01.

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Project: University Hall HVAC Upgrade
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-
4. Work which is non-obtrusive to surrounding occupants within adjacent spaces and to the general occupancy of the building may take place during regular working hours.
 5. Pipe sizes have been added to the drawings for the existing piping where appropriate. Refer to enclosed MCW Addendum 01.
-

Amendment No.1 – MCW Addendum No. 01

Index of Mechanical and Electrical drawings

2025-08-22-MCMaster UNIVERSITY HALL – MDWG – ISSUED FOR ADD-01

2025-08-22-MCMaster UNIVERSITY HALL – EDWG – ISSUED FOR ADD-01

Amendment No.2 - +VG detail revisions

SK-02 – Third Floor Shaft and Ceiling Details

End of Addendum 3

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Toronto, Ontario M5J 1A7
Phone 416-598-2920 Fax 416-598-5394
www.mcw.com

Date: August 22, 2025

Project Name: McMaster University – University Hall Ventilation Upgrade

Client: McMaster University

To: +VG Architects

Attention: Ed Shuck

From: Tareq Nassar

Distribution: David MacKeracher – MCW

Peera Butrsingorn – MCW

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Project #: 22227B

ADD #: 01

Page #: 1 of 2

+ Attachment

In accordance with the drawings and specifications, provide in the tender all costs required to complete the work including items as listed below.

Title: Mech/Elec Addendum 01
Reason for Change: Revisions to capture addendum questions and permit comments

Specifications:

Section #	Revisions
N/A	<ul style="list-style-type: none"> N/A

Mechanical Drawings:

Drawing #	Revisions
M0.1	<ul style="list-style-type: none"> Revised energy/heat recovery ventilator/wheel schedule with details on sound power levels, as well as additional details on unit construction. Revised air handling unit schedule with additional details on construction and installation.
M0.3	<ul style="list-style-type: none"> Revised ERV-1 riser diagram and match with revisions to floor plan.
M1.0	<ul style="list-style-type: none"> Added existing pipe sizes.
M1.1	<ul style="list-style-type: none"> Added existing pipe sizes.
M1.2	<ul style="list-style-type: none"> Added existing pipe sizes.
M1.3	<ul style="list-style-type: none"> Added existing pipe sizes.
M2.0	<ul style="list-style-type: none"> Revised exhaust and supply duct sizes. Added existing pipe sizes.
M2.1	<ul style="list-style-type: none"> Revised exhaust and supply duct sizes. Added existing pipe sizes. Added motorized dampers to the F/A and E/A ducts within room 122
M2.2	<ul style="list-style-type: none"> Revised exhaust and supply duct sizes. Added existing pipe sizes.
M2.3	<ul style="list-style-type: none"> Added combination fire smoke dampers. Added existing pipe sizes.



Project Name: McMaster University – University Hall Ventilation
Upgrade

Client: McMaster University

Project #: 22227B

ADD #: 01

Page #: 2 of 2

+ Attachment

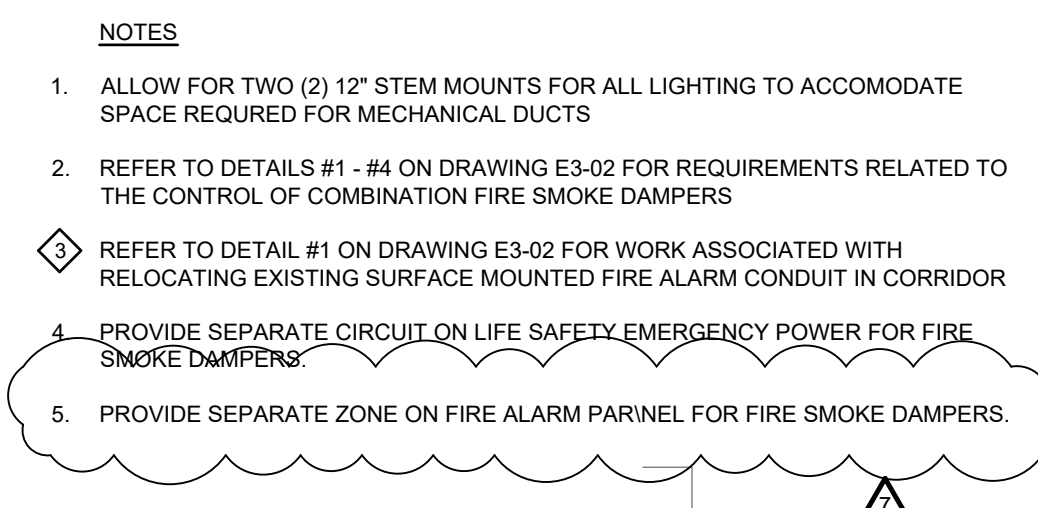
Mechanical Drawings:

Drawing #	Revisions
M2.4	<ul style="list-style-type: none">Added combination fire smoke dampers.Added motorized dampers to the F/A and E/A plenums before they penetrate the roof.


Electrical Drawings:

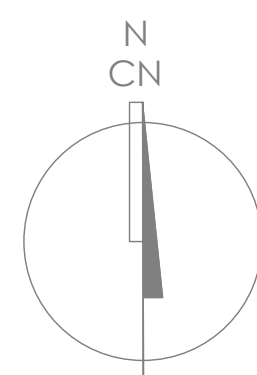
Drawing #	Revisions
E2-01	<ul style="list-style-type: none">Added note. 5.
E2-02	<ul style="list-style-type: none">Added note. 5.
E2-03	<ul style="list-style-type: none">Added note. 5.
E2-04	<ul style="list-style-type: none">Added note. 5.
E2-05	<ul style="list-style-type: none">Added note. 2 & 3.Added scope for combination fire smoke dampers.

End of ADD # 01



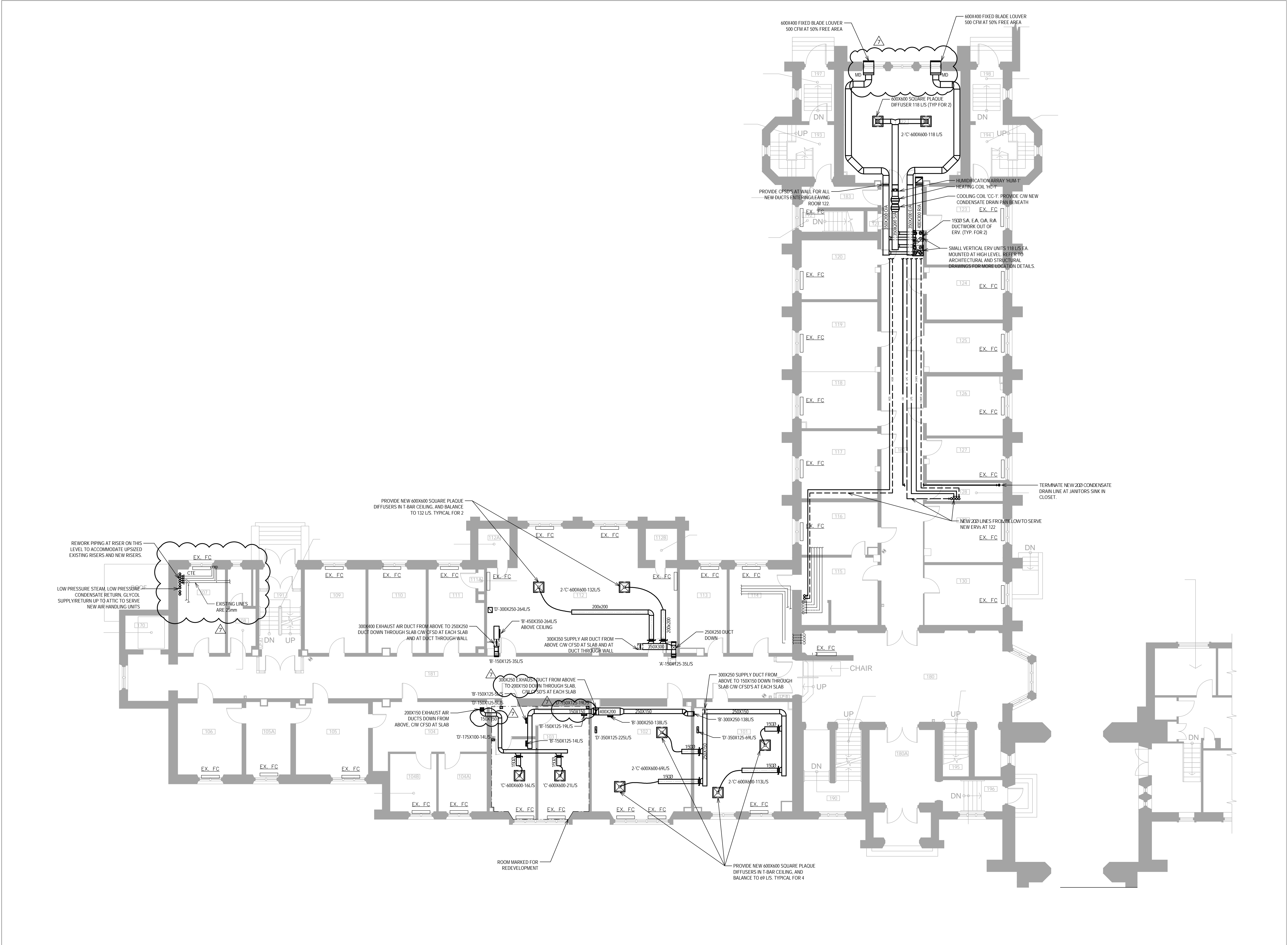
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E2-02

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REVISIONS		
NO.	DATE	PARTICULAR
1	23.01.25	ISSUED FOR COORDINATION REVIEW
2	23.03.08	ISSUED FOR 50% DD REVIEW
3	23.04.24	ISSUED FOR 90% DD REVIEW
4	24.04.10	ISSUED FOR PRE-TENDER REVIEW
5	25.07.04	ISSUED FOR PERMIT
6	25.08.05	ISSUED FOR TENDER
7	25.08.22	ISSUED FOR ADDENDUM 01

NOTES:

KEY PLAN:

CLIENT:
McMASTER UNIVERSITY
HAMILTON, ONTARIO

Project No. 222278

PROJECT:
222278

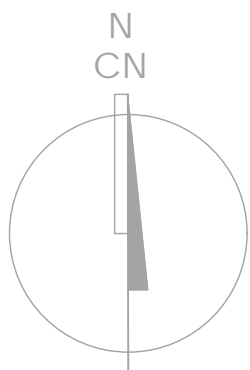
UNIVERSITY HALL VENTILATION UPGRADE

McMaster University Campus
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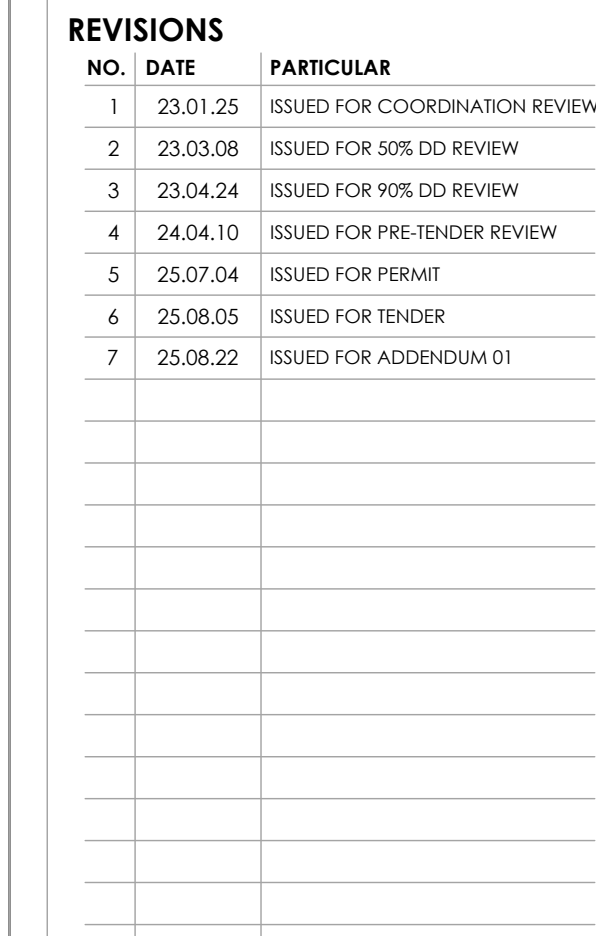
M2.1

DRAWN BY : TN


CHECKED BY : TN

Filename: H:\22000\222278 - McMaster University - University Hall Ventilation Renovations\01 DRAWINGS\01 02 MECH\M21 - LEVEL 1 - MECHANICAL NEW WORK.dwg

Plot Date: Aug 22, 2025 - 5:33pm By: TNasser



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HAMILTON, ONTARIO

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07/pm By: esnuck

SK-02

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THIRD FLOOR SHAFT AND CEILING DETAILS