

**CCRFQ FS HVACELEC 25_1
DOWNSVIEW CAMPUS, SERVER ROOM 2220 UPGRADES
ADDENDUM #2**

November 11, 2025

Dear Respondents,

This addendum addresses updates to the Electrical and Mechanical Drawings and Specifications:

1. Please see attached Addendum M-01, two (2) pages in total.
2. Please see attached Addendum E-02, four (4) pages in total.

All other terms and conditions of the original request for proposal document & supporting documents remain valid and unchanged.

Thank You & Best Regards

End of Addendum #2

ADDENDUM

M-01

Architect:	N/A	Date:	November 10th, 2025
Project:	UPS and Cooling Assessment at Downsview Campus	Project No.:	25-007

This addendum forms part of the contract documents and amends the original bidding requirements, drawings and specifications noted below.

1. **Mechanical**

1.1 Drawings:

.1 Refer to Drawings M600

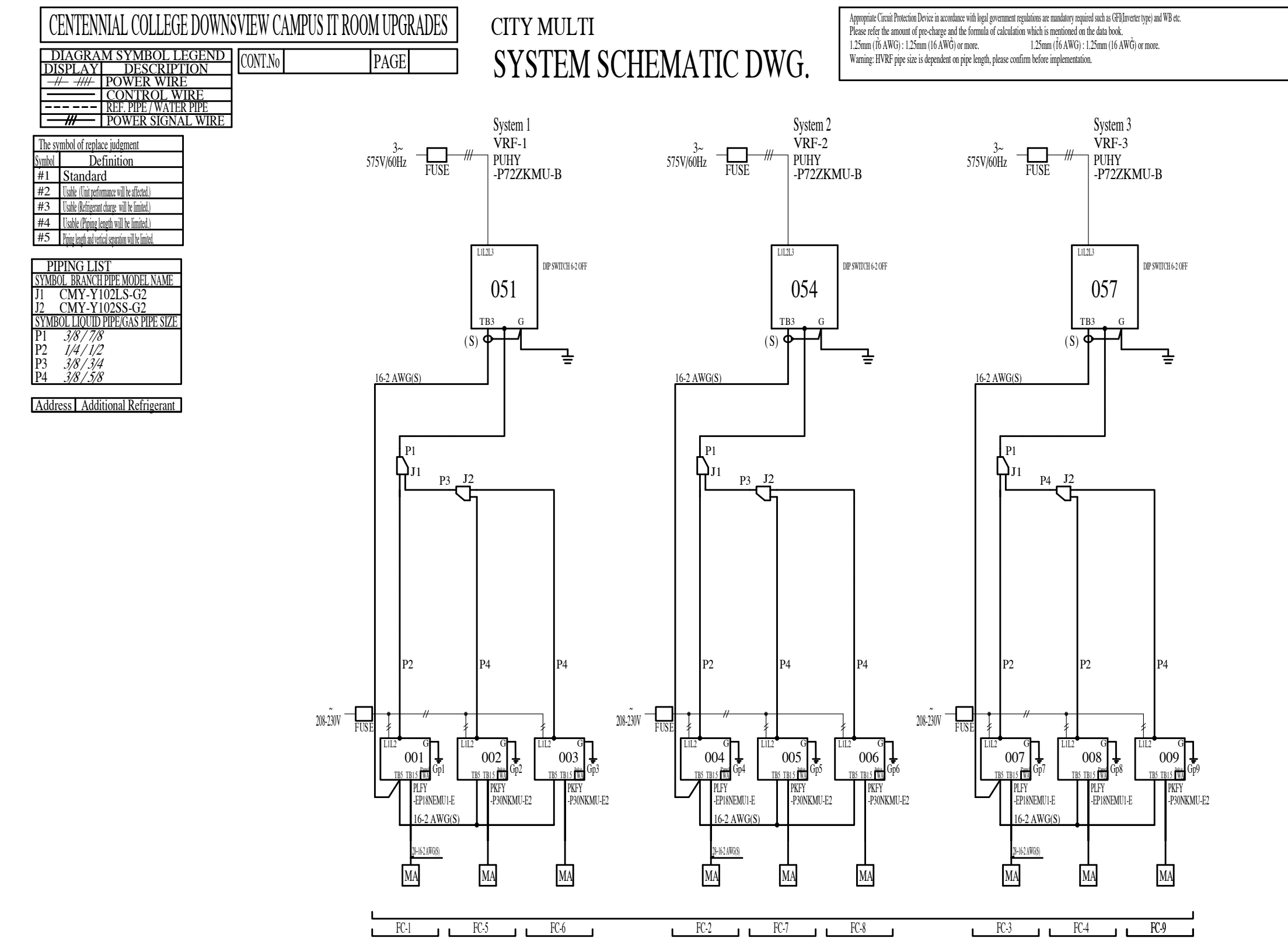
- Notes added to cooling unit's schedule: "C/W BACNET CARD CAPABLE OF STATUS INPUT TO BAS. COORDINATE WITH BASE BUILDING CONTROLS". To allow units to be controlled via independent thermostat control with existing in space humidity and temperature sensor tied back to the BAS to remain. Additional BAS input for equipment status of each new VRF unit is required

END OF ADDENDUM M-01

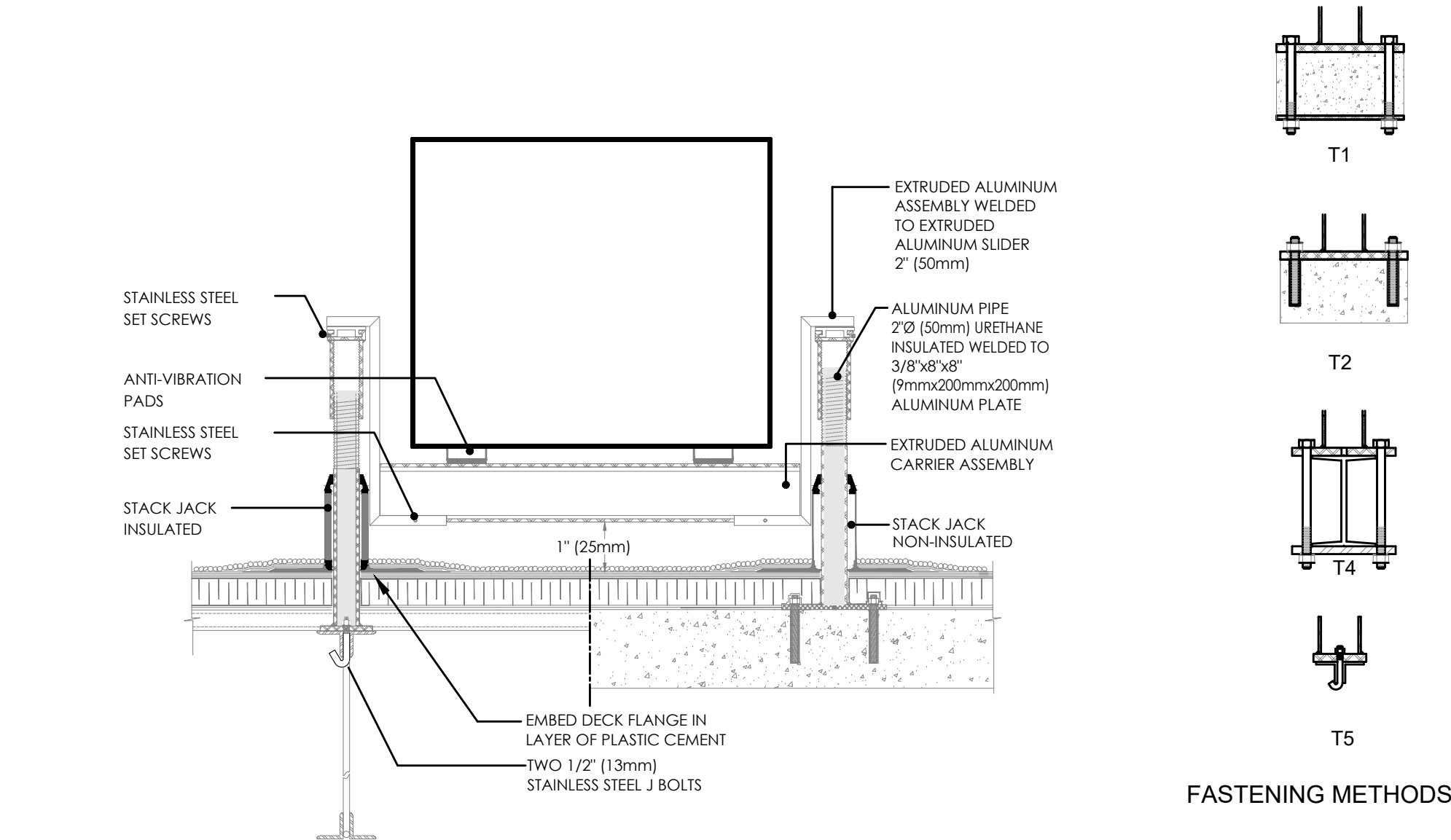
VRF FAN COIL UNIT SCHEDULE								
SYMBOL	LOCATION	MOUNTING	TOTAL COOLING (KW)	TOTAL HEATING (KW)	VOLTAGE/PH/Hz	MCA	WEIGHT (KG)	MANUFACTURER AND MODEL (BASIS OF DESIGN: MITSUBISHI AIR)
FC-1 TO FC-4	IT ROOM - 2220	CEILING	5.3	N/A	208, 1- Phase, 60 Hz	0.54	25	MITSUBISHI ELECTRIC: PLY-EP18NEMU-E1R1-T C/W CONDENSATE PUMP, WIRED TO NEW COMMON THERMOSTAT; C/W BACNET CARD, CAPABLE OF STATUS INPUT TO BAS. COORDINATE WITH BASE BUILDING CONTROLS
FC-5 TO FC-9	IT ROOM - 2220	WALL	8.8	N/A	208, 1- Phase, 60 Hz	0.63	21	

VRF OUTDOOR UNIT SCHEDULE								
SYMBOL	LOCATION	TOTAL COOLING (KW)	TOTAL HEATING (KW)	VOLTAGE/PH/Hz	MCA	MOCP	WEIGHT (KG)	MANUFACTURER AND MODEL (BASIS OF DESIGN: MITSUBISHI AIR)
VRF-1 TO VRF-3	ROOF	21.1	N/A	575V, 3- Phase, 60 Hz	11	15	222	MITSUBISHI ELECTRIC: PUHY-P72ZKMU-B (-BS) C/W LOW AMBIENT COOLING KIT: HOOD WITH CONTROL DAMPER ASSEMBLY & WIND DEFLECTORS, C/W BACNET CARD CAPABLE OF STATUS INPUT TO BAS. COORDINATE WITH BASE BUILDING CONTROLS

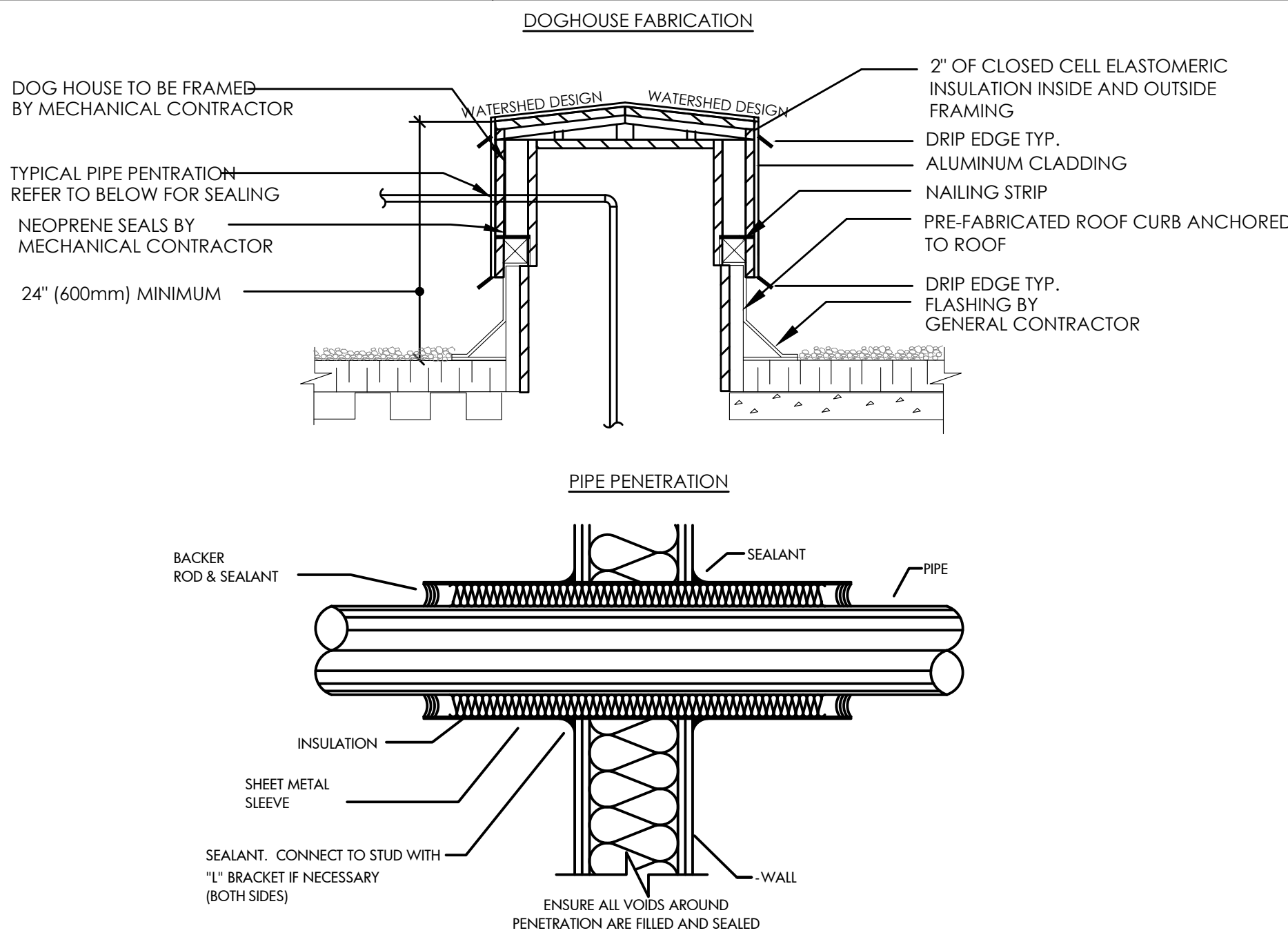
MECHANICAL SCHEDULES



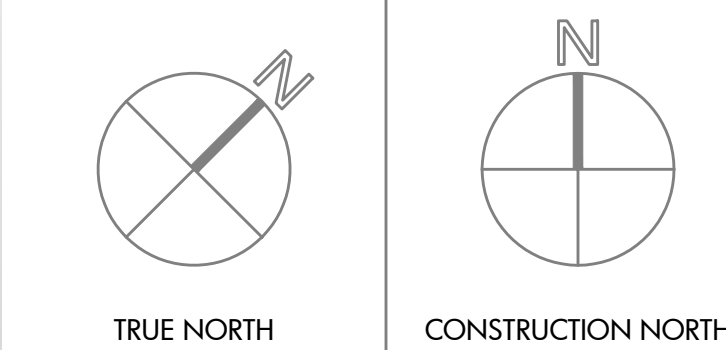
VRF PIPING SCHEMATIC



DETAIL OF EQUIPMENT SUPPORT



DETAIL OF DOGHOUSE AND PIPING PENETRATIONS



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NO.	ISSUED	DATE	BY
4	ISSUED FOR ADDENDUM M01	2025/11/10	J.C.
3	REISSUED FOR TENDER	2025/09/08	J.C.
2	ISSUED FOR TENDER	2025/08/06	J.C.
1	ISSUED FOR 75% DESIGN	2025/03/21	J.C.



CLIENT

CENTENNIAL COLLEGE

65 Carl Hall Rd, Toronto, ON

PROJECT:

CENTENNIAL COLLEGE DOWNSVIEW CAMPUS IT ROOM UPGRADES

DRAWING TITLE:

MECHANICAL SCHEDULES AND DETAILS

DRAWN BY: J.C.	SCALE: NTS
CHECKED BY: M.V.	DRAWING NUMBER: M600
DATE: MAR. 2025	
PROJECT NUMBER: 25-007	

November 10, 2025 - 03:17pm Plotted by: jcrowe

ADDENDUM

E-02

Architect:	N/A	Date:	November 10th, 2025
Project:	UPS and Cooling Assessment at Downsview Campus	Project No.:	25-007

This addendum forms part of the contract documents and amends the original bidding requirements, drawings and specifications noted below.

1. **Electrical**

1.1 Drawings:

.1 Refer to Drawing E000

- Clarification: Added sheet E002 to drawing list.

.2 Refer to Drawing E002

- Added "(SUPPLIED BY OWNER)" to UPS specification sections no longer in the electrical contractor's scope. The owner will be pre-purchasing the UPS and as such will be responsible for providing submittals/shop drawings to the consultants and contractor following consultant review. The contractor will still be responsible for providing closeout submittals. Additionally, alternate UPS manufacturers were removed from specification as the owner is moving forward with purchasing the APC Symmetra PX.

.3 Refer to Drawing E101

- Updated drawing notes to reflect that the electrical contractor will no longer be responsible for purchasing the UPS. The electrical contractor will coordinate with the manufacturer to deliver and install the proposed UPS on site.

END OF ADDENDUM E-02

ELECTRICAL DRAWING LIST

E000	GENERAL NOTES
E001	ELECTRICAL SPECIFICATIONS
E002	UPS SPECIFICATIONS 
E100	ELECTRICAL ROOM PROPOSED POWER PLAN
E101	IT ROOM PROPOSED POWER PLAN
E102	ROOF PROPOSED POWER PLAN
E200	DETAILS
ED00	IT ROOM DEMOLITION POWER PLAN

GENERAL NOTES

1. DO NOT SCALE DRAWINGS FOR INSTALLATION PURPOSES. OBTAIN ALL DIMENSIONS FROM THE MANUFACTURER'S SHOP DRAWINGS, AND ON SITE INSPECTIONS.
2. PRIOR TO INSTALLATION OF BOXES IN WALLS, VERIFY THAT NO INTERFERENCES EXIST.
3. MECHANICAL AND ELECTRICAL TRACES SHALL WORK IN CONJUNCTION WITH EACH OTHER SO AS TO AVOID INTERFERENCES BETWEEN PIPING, DUCTWORK, CONDUIT, LIGHTING FIXTURES, ETC.
4. REVIEW MECHANICAL DRAWINGS AND PROVIDE ON SITE INSPECTIONS TO DETERMINE FULL EXTENT OF PROJECT PRIOR TO SUBMITTING BID.
5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE (OBC), ONTARIO ELECTRICAL SAFETY CODE (OESC) AND THE LOCAL AUTHORITIES REQUIREMENTS.
6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH THE WORK OF OTHER TRADES PROVIDE HORIZONTAL AND/OR VERTICAL OFFSETS AS REQUIRED TO SUIT THIS COORDINATION.
7. REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL WIRING DEVICE FINAL HEIGHT AND LOCATION.
8. ALL WIRING SHALL BE A MINIMUM #12 AWG-IN CONDUIT SUITABLE FOR THE APPLICATION.
9. AC90 (BX) SHALL ONLY BE ALLOWED FOR SHORT RUNS OF LESS THAN 5 FEET IN LENGTH, UNLESS OTHERWISE NOTED.
10. ALL MATERIALS SHALL BEAR A CSA (CANADIAN STANDARDS ASSOCIATION) LABEL.
11. ALL INTERIOR LIGHT SWITCHES, RECEPTACLES, AND DATA OUTLETS, INCLUDING CONDUITS SHALL BE "CONCEALED" WITHIN THE WALL STRUCTURE.
12. ELECTRICAL SWITCHES, OUTLETS, PUSH-BUTTONS ETC. SHALL COMPLY WITH ACCESSIBILITY FOR ONTARIANS WITH DISABILITIES ACT (AODA) FOR MOUNTING HEIGHTS AND LOCATION WHERE APPLICABLE.
13. EXIT SIGNS SHALL BE GREEN, EDGE-LIT, "RUNNING-MAN" PICTOGRAM C/W LED LIGHT SOURCE, ALUMINUM HOUSING, AND UNIVERSAL MOUNTING, WHERE HANG CEILING EXIST PROVIDE A PENDANT MOUNT TYPE SUSPENDED FROM A THREADED ROD OR EMIT CONDUIT AT THE HEIGHT SPECIFIED.
14. BATTERY PACKS SHALL BE 200 WH, 20% SPARE CAPACITY 12VOLT, ALUMINUM HOUSING C/W TWO (2) SWATCH, LED, MP4, DIE CAST HEADS AND WHITE FINISH, PROVIDE MATCHING REMOTE HEADS.
15. ALL UNIVERSAL WASHROOM HARDWARE DEVICES TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR C/W WIRING AND CONDUIT FOR A COMPLETE INSTALLATION, UNLESS OTHERWISE NOTED.
16. ALL SECURITY DOOR ACCESS HARDWARE DEVICES SHALL BE SUPPLIED "BY OTHERS", THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRING AND CONDUIT ROUGH-IN FOR A COMPLETE INSTALLATION, UNLESS OTHERWISE NOTED.
17. ALL COMMUNICATION CABLEING TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR C/W CONDUIT, OUTLET JACKS, AND FACE PLATES FOR A COMPLETE INSTALLATION, UNLESS OTHERWISE NOTED. MAXIMUM LENGTH OF ETHERNET CABLES SHALL BE 300 FEET.
18. ALL AUDIO/VISUAL DEVICES SHALL BE SUPPLIED "BY OTHERS", THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT ROUGH-IN ONLY, UNLESS OTHERWISE NOTED.
19. POWER AND CONTROL WIRING FOR MECHANICAL EQUIPMENT ON THE ROOF MUST RISE WITHIN THE CURB UNLESS OTHERWISE NOTED.
20. ALL EXTERIOR OUTLET BOXES TO BE "CONCEALED" AND SHALL C/W A VAPOUR BARRIER CHAMBER TO PREVENT AIR LEAKAGE.
21. THE ELECTRICAL CONTRACTOR SHALL PROVIDE BALANCED PHASING (A,B,C) FOR ALL EQUIPMENT PANEL LOADS, ADJUST BREAKER SCHEDULES AS REQUIRED.
22. PROVIDE FIRE-STOP MATERIAL AS REQUIRED FOR ALL WALL AND FLOOR PENETRATIONS TO MAINTAIN THE SMOKE SEAL AND FIRE RATING, FOR RECESSED JUNCTION BOXES USE ULTI - FIRE BLOK.
23. PROVIDE ALL MATERIALS AND ACCESSORIES REQUIRED FOR A COMPLETE GROUNDING SYSTEM AS REQUIRED BY THE GOVERNING AUTHORITIES, GROUND ALL EQUIPMENT AND DEVICES AS REQUIRED AND IN ACCORDANCE WITH THE OESC.
24. UPON THE COMPLETION OF THE CONTRACT, ISSUE A FORMAL CERTIFICATE INDICATING THE DATE OF COMPLETION OF THE PROJECT AND/OR REPLACE ANY DEFECTS WHICH MAY APPEAR IN ANY OF THE WORK WITHIN ONE (1) YEAR.

DEMOLITION NOTES

1. ELECTRICAL SYSTEMS SHOWN ON DEMOLITION PLANS ARE BASED ON INFORMATION OBTAINED FROM ORIGINAL CONTRACTOR/OWNER RECORD DOCUMENTS. THESE DRAWINGS ARE NOT BASED ON "AS-BUILT RECORD" OR ON EXHAUSTIVE FIELD MEASUREMENT AND ARE PROVIDED TO ASSIST THE CONTRACTOR IN DETERMINING THE EXTENT OF WORK REQUIRED. THE CONTRACTOR SHALL MAKE ALLOWANCE IN THEIR TENDER PRICE FOR THE REMOVAL OF ADDITIONAL ABANDONED SERVICES AND THE PROTECTION OF EXISTING SERVICES THAT MUST REMAIN. RECORD THE LOCATION OF ALL EXISTING SERVICES THAT REMAIN ON AS-BUILT RECORD DRAWINGS.

LEGEND - SINGLE LINE DIAGRAM

THIS LEGEND OF SYMBOLS REPRESENTS MANTECON PARTNERS INC.
STANDARD LEGEND. ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS

SYMBOL	DESCRIPTION
	BREAKER (MCCB)
	FUSED DISCONNECT SWITCH
	SWITCH
	FUSE
	DRAWOUT BREAKER
	METER SOCKET
	TRANSFORMER
	GENERATOR
	DIGITAL MULTIMETER
	AUTOMATIC TRANSFER SWITCH (ATS)
	BREAKER WITH LS PROTECTION
	BREAKER WITH LSIG PROTECTION
	SURGE PROTECTION DEVICE
	POWER METER

LEGEND - POWER SYSTEM

THIS LEGEND OF SYMBOLS REPRESENTS MANTECON PARTNERS INC.
STANDARD LEGEND. ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS

SYMBOL	DESCRIPTION
	ELECTRICAL PANEL
	DUPLEX RECEPTACLE - CEILING MOUNTED
	DIRECT CONNECTION
	NON FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	NON-FUSED DIRECT CONNECTION
	MOTOR CONNECTION [DISCONNECT BY ELECTRICAL]
	MOTOR CONNECTION [COMBINATION STARTER BY ELECTRICAL]
	MOTOR CONNECTION [JUNT MOUNTED DISCONNECT BY MECHANICAL]

LEGEND - ABBREVIATION

THIS LEGEND OF SYMBOLS REPRESENTS MANTECON PARTNERS INC.
STANDARD LEGEND. ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS

SYMBOL	DESCRIPTION
R	REMOVE
R/R	REMOVE AND REINSTALL
ER	EXISTING TO BE RELOCATED
EX	EXISTING TO REMAIN
GFI	GROUND FAULT INTERRUPT
NL	NIGHT LIGHT
WP	WEATHER-PROOF
ADO	AUTOMATIC DOOR OPENER
HD	HAND DRYER
D/W	DISHWASHER
F/R	REFRIGERATOR
M/W	MICROWAVE
PTO	PUSH TO OPEN
PTL	PUSH TO LOCK

