



Addendum / Addenda

No./N^o
3

Project Description / Description de projet M-36 Kelvin Room Renovations		
Solicitation No./ No de sollicitation 13-22089	Project No./N ^o de projet 3876	W.O. No./N ^o d'ordre de travail
Departmental Representative / représentant ministériel Noel Fagan		Date December 10, 2013
<p>Notice: This addendum shall form part of the tender documents and all conditions shall apply and be read in conjunction with the original plans and specifications.</p>		<p>Nota: Cet addenda fait partie intégrale des dossiers d'appel d'offres; toutes les conditions énoncées doivent être lues et appliquées en conjonction avec les plans et les devis originaux.</p>

Architectural :

1. Add the attached drawing 3876-A03 to reflect work in room 1100B that is being added to the scope of the project.
2. Fill existing boxes for 2 floor receptacles that are being removed. New flooring to go over top.

Mechanical :

3. Replace drawings 3876-M02, 3876-M03 and 3876-M04 with the attached to reflect work in room 1100B that is being added to the scope of the project as well as clarify ductwork in room 1100A.
4. Remove the following specification sections from the specifications : 250112, 251001 and 251002.
5. Contact information for Direct Energy (now known as Airtron) :
Aaron Dobson
Account Executive - Services
Direct Energy Business Services
100-2935 Conroy Road, Ottawa, ON
Phone: 613-247-7938 Fax: 613-247-7990
Mobile: 613-203-1951

Electrical :

6. In room 1100B, remove existing surface mounted receptacle and conduit as well as surface mounted conduit and box for telecom jacks in 2 locations to allow for wall repair. Re-install flush mounted receptacles and boxes for data wiring in new walls in same location. Refer to new architectural drawing 3876-A03 for both locations of wall repairs.

7. Remove 2 existing floor plugs near front of room, fed from L4-10. Remove wire back to panel.

General

8. Contractor is to access the site only through the rear receiving area. Front entrance and front stairwell are not to be used at all.

GENERAL NOTES

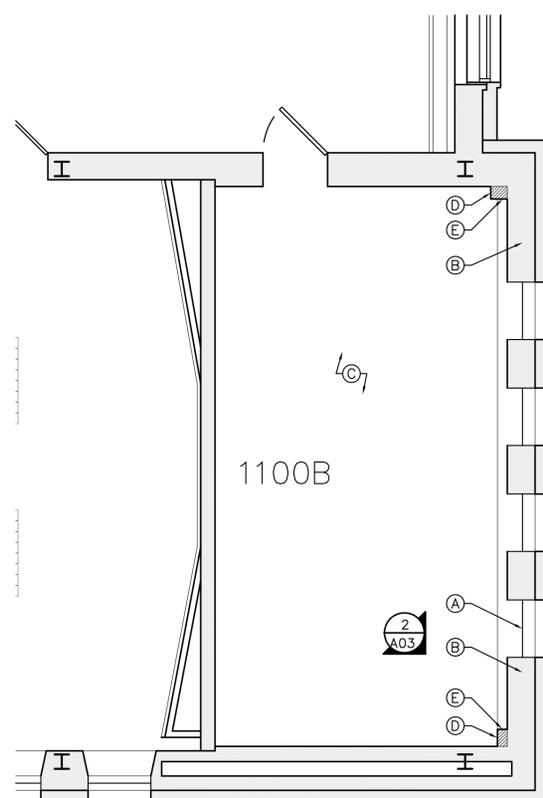
- CONTRACTORS TO CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR TO DEMOLITION OR CONSTRUCTION AND REPORT ANY ERRORS OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTORS MUST VISIT THE SITE & FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK.
- PREVENT THE SPREAD OF DUST & DEBRIS BEYOND THE WORK AREA AND CLEAN ALL SURFACES AT COMPLETION.
- MAKE GOOD ALL SURFACES AFFECTED BY THIS WORK.
- COORDINATE ALL SHUTDOWNS WITH THE DEPARTMENTAL REPRESENTATIVE.
- PROVIDE ALL LABOUR AND MATERIAL REQUIRED TO FORM A COMPLETE, FUNCTIONAL SYSTEM AS DESCRIBED ON DRAWINGS.
- ALL DIMENSIONS ARE TO FRAMING.

NEW CONSTRUCTION NOTES:

- INSTALL NEW PIPE CHASE, FROM T/O EXISTING FLOOR TO U/S OF EXISTING CEILING. PIPE CHASE TO BE WALL TYPE W1, SEE BELOW FOR DETAILS. CHASE IS TO BE FRAMED AROUND EXISTING STEEL WINDOW LEDGE FRAME.
- PATCH AND REPAIR EXISTING WALLS AS REQUIRED TO CREATE A SMOOTH, FLAT TRANSITION WITH NEW PIPE CHASE. PREP TO RECEIVE NEW PAINT.
- PRIME AND PAINT (2 COATS) ALL WALLS AND WINDOW LEDGE ACCESS PANELS IN ROOM 1100B. PRIMER TO BE ICI DULUX LIFEMASTER PRIMER (IN CONTRASTING COLOUR TO PAINT), ZERO VOC, 100% ACRYLIC, PAINT COLOURS TO MATCH EXISTING.
- MODIFY EXISTING WINDOW LEDGE ACCESS PANELS TO ACCOMMODATE SHORTER LENGTHS.
- CUT BACK TOP OF EXISTING WINDOW LEDGE TO BE FLUSH WITH FACE OF NEW PIPE CHASE. EXISTING STEEL WINDOW LEDGE FRAME IS TO REMAIN AS IS.

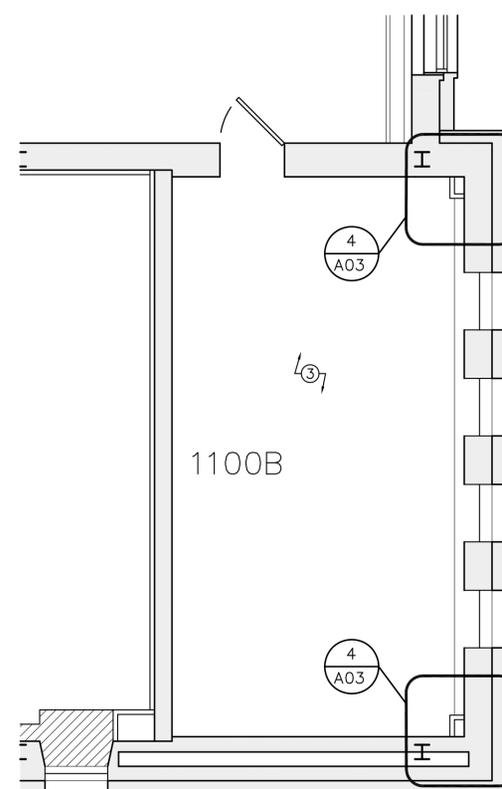
W1 - NEW PIPE CHASE

- 64mm, 18 Ga STEEL STUDS AT 300 O/C.
- 16mm (5/8") DRYWALL. MUD, TAPE AND SAND IN PREPARATION FOR NEW PAINT



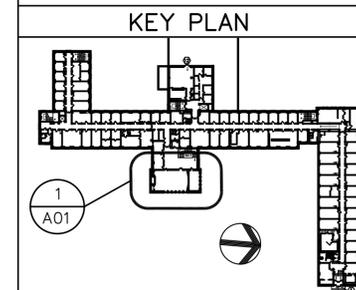
DEMOLITION NOTES:

- EXISTING WINDOWS TO REMAIN.
- EXISTING WALLS TO REMAIN.
- EXISTING FLOORING AND SUSPENDED CEILING THROUGHOUT ROOM TO REMAIN. DO NOT DAMAGE DURING DEMOLITION AND/OR CONSTRUCTION OF NEW PIPE CHASES. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL SURFACES WITHIN ROOM WHICH ARE NOT AFFECTED BY WORK.
- REMOVE EXISTING STEEL FRAMED, METAL LATH AND PLASTER PIPE CHASE. SAW CUT PLASTER AT JOINTS WITH ADJACENT WALLS. DO NOT DAMAGE ADJACENT WALLS, CEILING, OR FLOOR.
- CUT WINDOW LEDGE TO ACCOMMODATE NEW PIPE CHASE, LEAVING EXISTING STEEL WINDOW LEDGE FRAME INTACT.



1
A03
DEMOLITION - EXISTING FLOOR PLAN
SCALE = 1:50

3
A03
NEW CONSTRUCTION - FLOOR PLAN
SCALE = 1:50

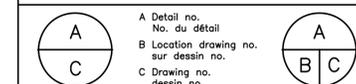


KEY PLAN

No.	Date	Revision	By:
0	DEC. 10 2013	ISSUED FOR ADDENDUM #3	BL

Date Printed: DEC. 10 2013 Date imprimée:

- Verify all dimensions and site conditions and be responsible for same
- Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité



project projet

M-36
KELVIN ROOM RENOVATION

MONTREAL ROAD CAMPUS

ADDENDUM #1
MODIFICATIONS TO ROOM 1100B

designed conçu date **NOV. 2013**

drawn **BL** dessiné scale **AS NOTED** échelle

checked **SWH** vérifié sheet **3** of/de **3** feuille

approved **BV** approuvé W.O.no. D.T.no.

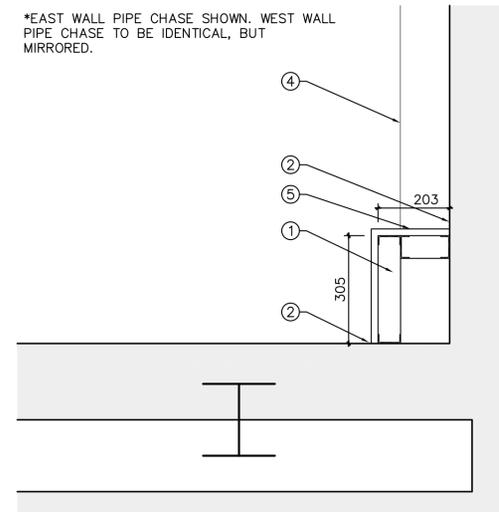
dwg.no. dessin no.

3876-A03



2
A03
DEMOLITION - EXISTING PIPE CHASE & WINDOW LEDGE
SCALE = 1:50

*EAST WALL PIPE CHASE SHOWN. WEST WALL PIPE CHASE TO BE IDENTICAL, BUT MIRRORED.



4
A03
NEW CONSTRUCTION - PIPE CHASE
SCALE = 1:10

GENERAL NOTES:

- DRAWINGS TO BE READ IN CONJUNCTION WITH ALL CONTRACT DRAWINGS AND PROJECT SPECIFICATIONS.
- DRAWINGS INDICATE GENERAL ROUTING OF SERVICES ONLY. CONTRACTOR TO BE RESPONSIBLE TO PROVIDE ANY ADDITIONAL LABOUR AND MATERIALS REQUIRED TO OFFSET AROUND EXISTING BUILDING FEATURES AND SERVICES TO AVOID INTERFERENCES.
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND CLEARANCES ON SITE PRIOR TO DEMOLITION OR CONSTRUCTION ACTIVITIES AND REPORT ANY DISCREPANCIES OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR TO VISIT SITE AND FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF WORK PRIOR TO PROJECT COMMENCEMENT.
- ALL TRADES TO COORDINATE WORK ON SITE TO AVOID ANY CONFLICTS AND/OR INTERFERENCES.
- ANY AND ALL REQUIRED SHUTDOWNS SHALL BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
- ALL EQUIPMENT AND SYSTEM INSTALLATIONS SHALL BE IN ACCORDANCE WITH NATIONAL BUILDING CODE AS APPLICABLE.
- ALL EQUIPMENT AND SYSTEM INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- DO NOT SCALE DRAWINGS.

14. CUT BACK AND RETAIN EXISTING SUPPLY DUCTWORK FOR FUTURE RE-CONNECTION (TYP OF 6).

GENERAL MECHANICAL NOTES:

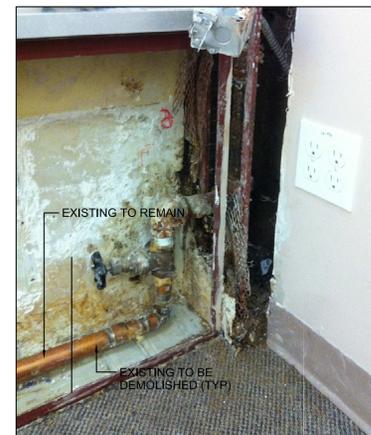
- EXISTING HEATING SYSTEM PIPING INSULATION CONTAINS ASBESTOS. FOLLOW MANDATED PROCEDURES FOR REMOVAL AND DISPOSAL OF EXISTING PIPING AND INSULATION.
- MINIMIZE DISRUPTION TO HEATING SYSTEM. RUN NEW HEATING SYSTEM SUPPLY AND RETURN PIPING PRIOR TO DEMOLITION OF EXISTING PIPING. FINAL CONNECTION TO THE EXISTING HEATING SYSTEM, EQUIPMENT AND SWITCH OVER TO NEW DISTRIBUTION PIPING SHALL BE SCHEDULED WITH DEPARTMENTAL REPRESENTATIVE.
- DIRECT ENERGY SHALL BE SUBCONTRACTED FOR ALL HVAC CONTROLS WORK ON THIS PROJECT, INCLUDING DEMOLITION ACTIVITIES.



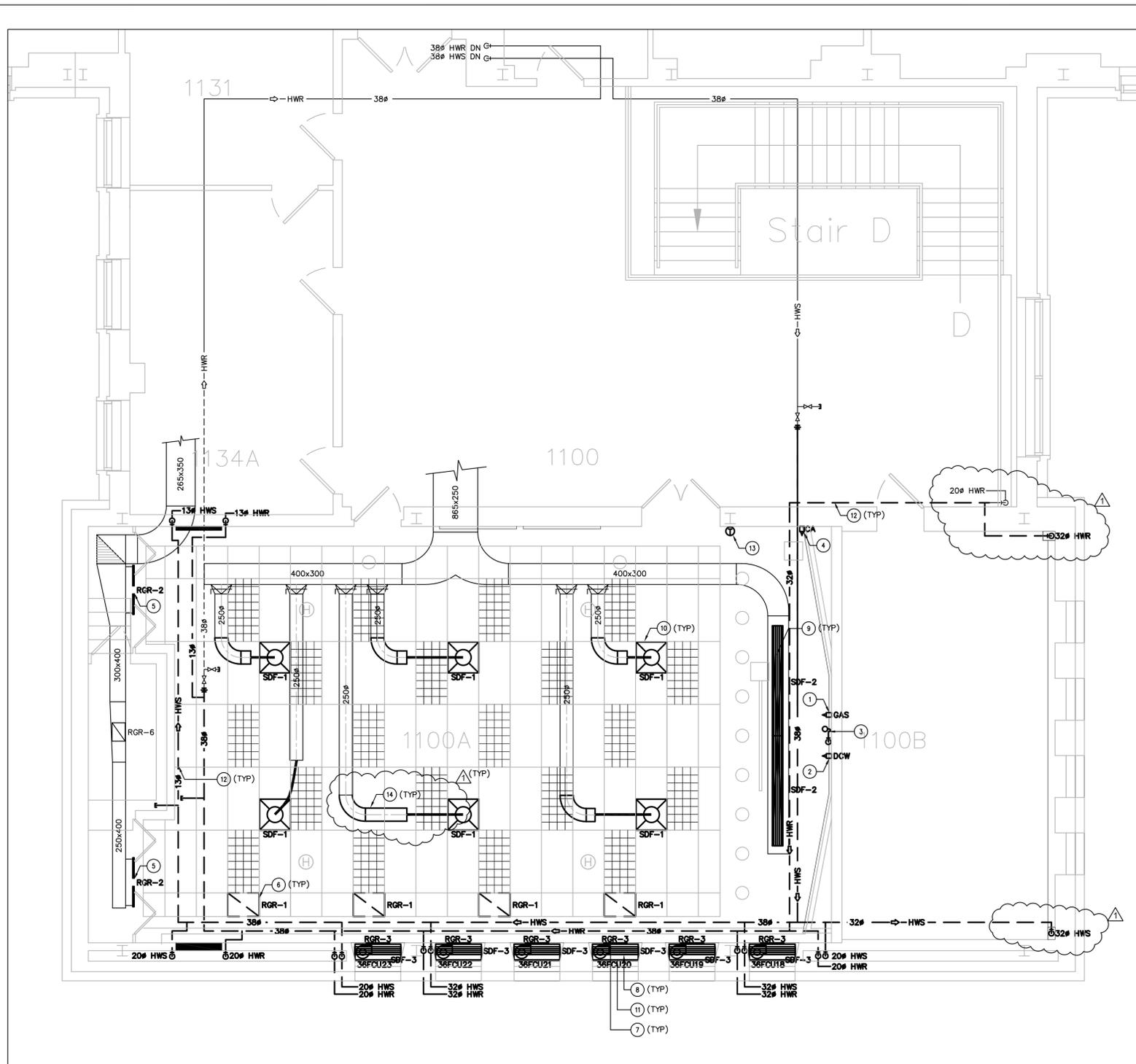
2
M02
 TYPICAL KELVIN ROOM PERIMETER FORCE FLOW HEATER TO BE DEMOLISHED
 SCALE - NTS



3
M02
 EXISTING MAXWELL ROOM HEATING PIPING TO BE DEMOLISHED (NW CORNER)
 SCALE - NTS



3
M02
 EXISTING MAXWELL ROOM HEATING PIPING TO BE DEMOLISHED (NE CORNER)
 SCALE - NTS

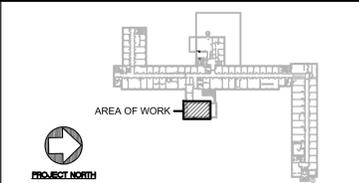


1
M02
 PARTIAL 2ND FLOOR PLAN DEMOLITION
 SCALE - 1:50

MECHANICAL DEMOLITION: (X)

- CUT BACK AND CAP EXISTING NATURAL GAS OUTLET AT WALL.
- CUT BACK AND CAP EXISTING DOMESTIC COLD WATER OUTLET AT WALL.
- CUT BACK AND CAP EXISTING DRAIN CONNECTION AT WALL.
- CUT BACK AND CAP EXISTING COMPRESSED AIR PIPING ABOVE CEILING.
- REMOVE AND DISPOSE OF EXISTING RETURN GRILLES RGR-2 (TYP OF 2).
- REMOVE AND DISPOSE OF EXISTING RETURN GRILLES RGR-1 (TYP OF 4).
- REMOVE AND DISPOSE OF EXISTING RETURN GRILLES RGR-3 (TYP OF 6).
- REMOVE AND DISPOSE OF EXISTING SUPPLY DIFFUSERS SDF-3 (TYP OF 6).
- REMOVE AND DISPOSE OF EXISTING SUPPLY DIFFUSERS SDF-2 (TYP OF 2) AND CAP DUCT CONNECTION.
- REMOVE AND DISPOSE OF EXISTING SUPPLY DIFFUSERS SDF-1 (TYP OF 6). RETAIN SUPPLY DUCTWORK FOR FUTURE RECONNECTION TO NEW SUPPLY DIFFUSERS.
- REMOVE AND DISPOSE OF EXISTING PERIMETER FORCE FLOW HEATERS CW ACCESSORIES, INCLUDING ASSOCIATED HEATING COIL, FAN MOTORS, CONTROL VALVES, CONTROL WIRING, TEMPERATURE CONTROLLER, CONTROL WIRING, ASSOCIATED PIPING AND POWER CONNECTIONS (TYPICAL FOR 36FCU18 THROUGH 36FCU23).
- REMOVE AND DISPOSE OF EXISTING HEATING SYSTEM SUPPLY AND RETURN PIPING AS INDICATED.
- EXISTING SMART STAT ROOM TEMPERATURE CONTROLLER TO BE RELOCATED TO ACCOMMODATE NEW STUD WALL.
- CUT BACK AND RETAIN EXISTING SUPPLY DUCTWORK FOR FUTURE RE-CONNECTION (TYP OF 6).

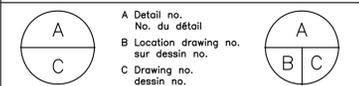
KEYPLAN



No.	Date	Revision	By:	Par:
10	12 2013	ISSUED FOR ADDENDUM#1		DIF
0	26 11 2013	ISSUED FOR TENDER		DIF

Date Printed 10 12 2013 Date imprimée

- Verify all dimensions and site conditions and be responsible for same
- Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité



project projet

M-36 KELVIN ROOM RENOVATIONS

MONTREAL ROAD CAMPUS

MECHANICAL: DEMOLITION

designed **ALS** conçu **NOV 2013** date

drawn **ALS** dessiné **AS SHOWN** scale échelle

checked **JWG / ZM** vérifié **2** of/de **4** feuille

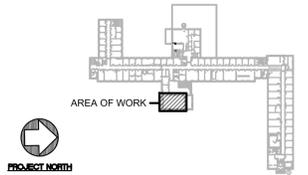
approved **BV** approuvé W.O.no. **A1-000504-01-09-18-01** D.T.no.

dwg.no. **3876-M02** dessin no.

GENERAL NOTES:

- DRAWINGS TO BE READ IN CONJUNCTION WITH ALL CONTRACT DRAWINGS AND PROJECT SPECIFICATIONS.
- DRAWINGS INDICATE GENERAL ROUTING OF SERVICES ONLY. CONTRACTOR TO BE RESPONSIBLE TO PROVIDE ANY ADDITIONAL LABOUR AND MATERIALS REQUIRED TO OFFSET AROUND EXISTING BUILDING FEATURES AND SERVICES TO AVOID INTERFERENCES.
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND CLEARANCES ON SITE PRIOR TO DEMOLITION OR CONSTRUCTION ACTIVITIES AND REPORT ANY DISCREPANCIES OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
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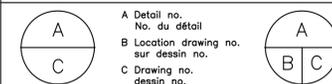
KEYPLAN



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12	12 10 2013	ISSUED FOR ADDENDUM #1		DIF
0	26 11 2013	ISSUED FOR TENDER		DIF

Date Printed 10 12 2013 Date imprimée

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project project

M-36 KELVIN ROOM RENOVATIONS

MONTREAL ROAD CAMPUS

drawing dessin

MECHANICAL: NEW WORK

designed **ALS** conçu **ALS** date **NOV 2013** date

drawn **ALS** dessiné **ALS** scale **AS SHOWN** échelle

checked **JWG / ZM** vérifié **JWG / ZM** sheet **3** of/de **4** feuille

approved **BV** approuvé **BV** W.O.no. **A1-000504-01-09-18-01** D.T.no.

dwg.no. **3876-M03** dessin no.

MECHANICAL NEW WORK: (X)

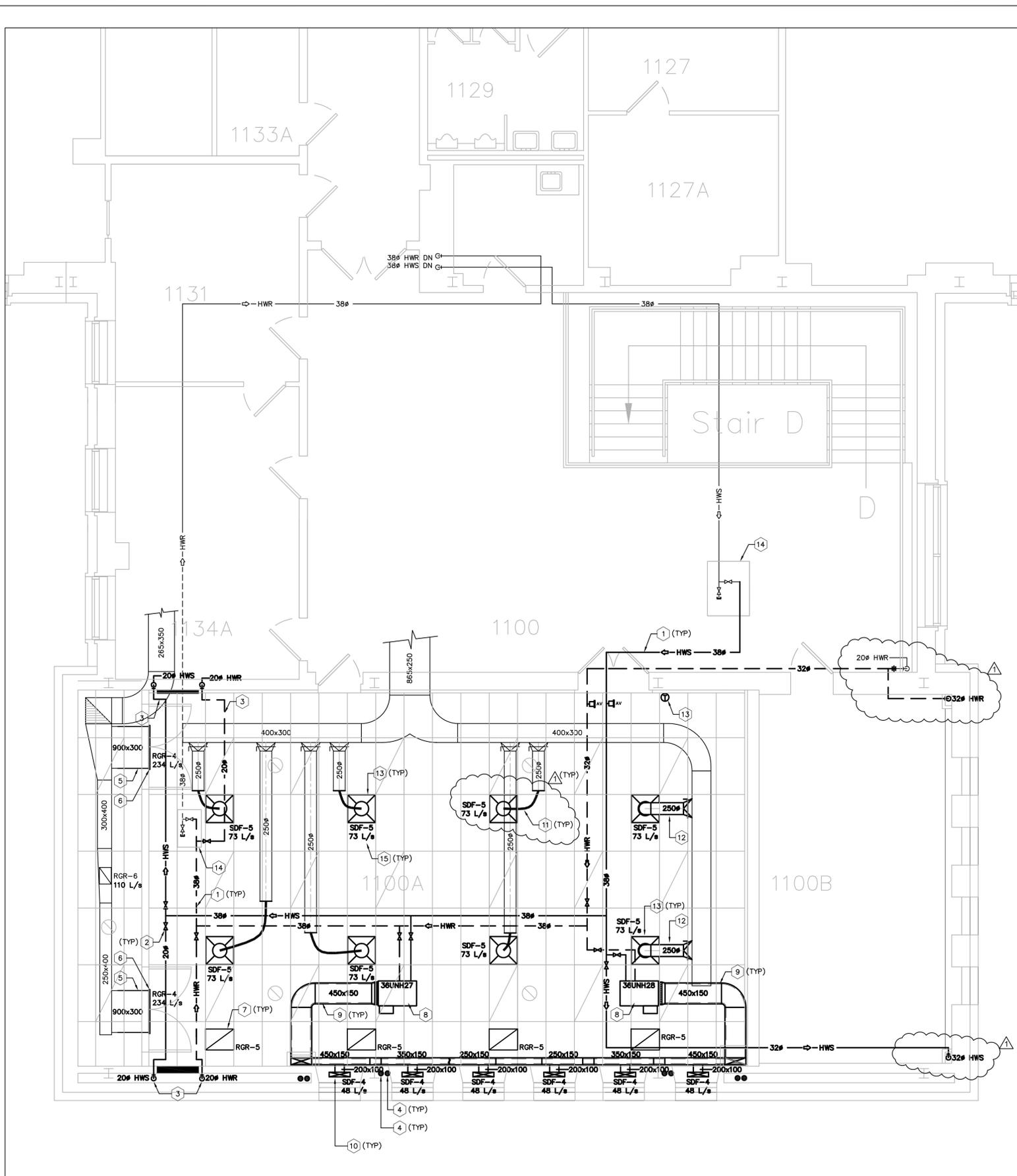
- PROVIDE NEW HEATING WATER SUPPLY AND RETURN PIPING C/W INSULATION AS INDICATED ON DRAWINGS. REFER TO SPECIFICATIONS FOR MATERIAL AND INSULATION DETAILS. CONNECT TO EXISTING PIPING IN LOCATIONS INDICATED.
- PROVIDE NEW ISOLATION VALVES AT MAIN HEATING WATER SUPPLY AND RETURN PIPING AT ALL RUN-OUT LOCATIONS TO SERVE TERMINAL DEVICES.
- PROVIDE NEW HEATING WATER SUPPLY AND RETURN PIPING, C/W INSULATION, ISOLATION VALVES, UNIONS AND CIRCUIT BALANCING VALVE (TO MATCH REMOVED CIRCUIT BALANCING VALVE) FOR EXISTING WALL CABINET HEATERS (TYP OF 2).
- CAP ENDS OF ABANDONED HEATING SUPPLY AND RETURN PIPING IN TERRA COTTA WALLS SERVING DEMOLISHED PERIMETER FORCE FLOW UNITS (TYP).
- EXTEND EXISTING 900x300 RETURN AIR DUCT TO ACCOMMODATE NEW WALL LOCATION (TYP OF 2).
- PROVIDE NEW RETURN GRILLES, RGR-4 C/W BALANCING DAMPER. REFER TO SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL DETAILS (TYP OF 2).
- PROVIDE NEW RETURN GRILLES RGR-5. REFER TO SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL DETAILS (TYP OF 4).
- PROVIDE NEW CEILING MOUNTED FORCE FLOW UNITS (36UNH27 AND 36UNH28) C/W FLEXIBLE DUCT CONNECTOR AND VIBRATION ISOLATION IN APPROXIMATE LOCATIONS INDICATED. PROVIDE ALL NECESSARY ACCESSORIES INCLUDING: TEMPERATURE SENSOR, CONTROL WIRING, CONTROL VALVES, FILTER, AND HEATING SUPPLY AND RETURN WATER PIPING C/W INSULATION.
- PROVIDE NEW ACOUSTICALLY LINED SUPPLY DISTRIBUTION DUCTWORK C/W INSULATION FROM NEW CEILING MOUNTED FORCE FLOW UNITS (36UNH27 AND 36UNH28) AND CONNECT TO SUPPLY DIFFUSERS SDF-4 AS INDICATED ON PLAN (TYP OF 6).
- PROVIDE NEW SUPPLY GRILLES, SDR-4 C/W BALANCING DAMPER. REFER TO SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL DETAILS (TYP OF 6).
- PROVIDE NEW INSULATED FLEXIBLE SUPPLY DUCTWORK TO SERVE NEW SUPPLY DIFFUSERS SDF-5 IN NEW LOCATIONS (TYP OF 6).
- PROVIDE NEW SUPPLY DUCT TAKE-OFFS C/W BALANCING DAMPER AND INSULATION AND EXTEND DUCT FROM EXISTING SUPPLY DUCTWORK TO SERVE NEW SUPPLY DIFFUSER SDF-5 LOCATIONS (TYP OF 2).
- PROVIDE NEW SUPPLY DIFFUSERS SDF-5. REFER TO SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL DETAILS (TYP OF 8).
- REPAIR PIPING INSULATION ON EXISTING HEATING PIPING IN AREAS WHERE NEW, EXISTING AND DEMOLISHED PIPING INTERSECT.
- BALANCE SUPPLY AND RETURN DIFFUSERS TO VALUES INDICATED.
- EXISTING SMART STAT ROOM TEMPERATURE CONTROLLER TO BE RELOCATED TO ACCOMMODATE NEW STUD WALL.

CONTROL WORK DRAWING NOTES:

- DIRECT ENERGY SHALL BE SUBCONTRACTED FOR ALL HVAC CONTROLS WORK ON THIS PROJECT, INCLUDING DEMOLITION ACTIVITIES.
- EXISTING CONTROL GRAPHICS TO BE UPDATED TO INCORPORATE ALL NEW POINTS AS PER THE NRC STANDARD.
- MODIFICATION OF THE EXISTING CONTROLLER SHALL BE COMPLETED TO ACCOMMODATE SEQUENCE OF OPERATION FOR THE NEW FORCE FLOW UNITS 36UNH27 AND 36UNH28. THESE MODIFICATIONS SHALL INCORPORATE, BUT MAY NOT BE LIMITED TO THE FOLLOWING:
 - FORCE FLOW UNIT 36UNH27
 - FAN ENABLE
 - FAN STATUS: LOW, MEDIUM, HIGH
 - DISCHARGE AIR TEMPERATURE
 - HEATING VALVE MODULATION CONTROL
 - SPACE TEMPERATURE (EXISTING TO BE RE-USED)
 - FORCE FLOW UNIT 36UNH28
 - FAN ENABLE
 - FAN STATUS: LOW, MEDIUM, HIGH
 - DISCHARGE AIR TEMPERATURE
 - HEATING VALVE MODULATION CONTROL
 - SPACE TEMPERATURE (EXISTING TO BE RE-USED)
- EXISTING M-36 CONTROLLER TO HAVE POINTS LIST UPDATED UPON PROJECT COMPLETION.
- CONTROL WIRING / CONDUITS TO BE APPROPRIATE TAGGED WITH POINT NAMES AS PER NRC STANDARD.
- DIRECT ENERGY TO PROVIDE ELECTRONIC AS-BUILTS FOR STORAGE ON THE ASPM BAS SERVER AND PROVIDE REQUIREMENTS DOCUMENTATION TO GENERAL CONTRACTOR FOR INCLUSION IN MAINTENANCE MANUALS.

NEW FORCE FLOW UNIT CONTROL SEQUENCE:

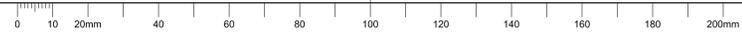
- GENERAL
 - WHEN SYSTEM IS STOPPED, THE FAN IS STOPPED AND THE HEATING VALVE IS CLOSED.
 - HEATING VALVE AND THREE SPEED FAN SHALL MODULATE TO MAINTAIN ROOM TEMPERATURE SETPOINT.
- START-UP MODE
 - FORCE FLOW UNIT SHALL BE STARTED BY AUTOMATIC START/STOP SCHEDULED PROGRAM TO MAINTAIN ROOM TEMPERATURE SETPOINT.
 - A CURRENT SENSOR SHALL BE INSTALLED ON THE LOAD SIDE OF THE FAN. THE DDC SYSTEM USES THE SENSOR TO CONFIRM STATUS OF THE FAN, AND GENERATES AN ALARM IF STATUS DEVIATES FROM DDC STOP/START CONTROL.
- NORMAL OPERATION
 - IN WINTER MODE THE HEATING VALVE WILL BE MODULATED TO MAINTAIN ROOM TEMPERATURE SETPOINT. THE FAN SPEED WILL BE KEPT IN LOW SPEED, HOWEVER FAN SPEED CAN BE OVERRIDDEN BY OWS OR CLIENT VIA SMART STAT. IF FAN SPEED IS MANUALLY OVERRIDDEN TO LOW, MEDIUM OR HIGH SPEED IT WILL RETURN TO AUTOMATIC MODE ONCE OCCUPANCY FLAG IS VACANT.
 - WHEN IN AUTOMATIC MODE FAN SPEED IS CONTROLLED VIA TWO SETPOINTS, FANMEDSP (1 DEG F) AND FANHIGSP (2 DEG F). IF ROOM TEMPERATURE FALLS BELOW FANMEDSP THE FAN WILL CYCLE TO MEDIUM SPEED. IF ROOM SETPOINT FALLS BELOW FANHIGSP FAN WILL CYCLE TO HIGH SPEED. FAN WILL CYCLE BACK TO LOW SPEED ONCE ROOM TEMPERATURE SETPOINT IS ACHIEVED.
 - POWER FAILURE: ON RETURN TO NORMAL POWER FOLLOWING POWER FAILURE, THE SYSTEM WILL BE RESTARTED AUTOMATICALLY IF SO SCHEDULED.



1 PARTIAL 2ND FLOOR PLAN NEW WORK
 SCALE - 1:50

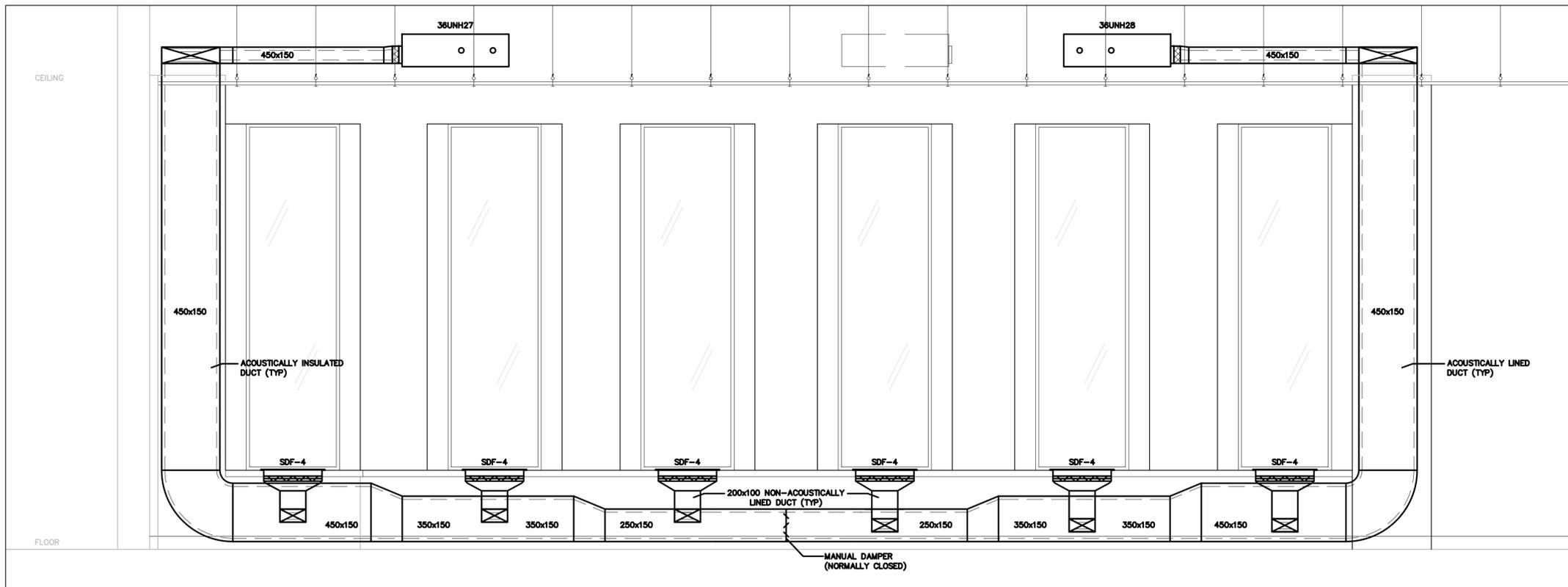


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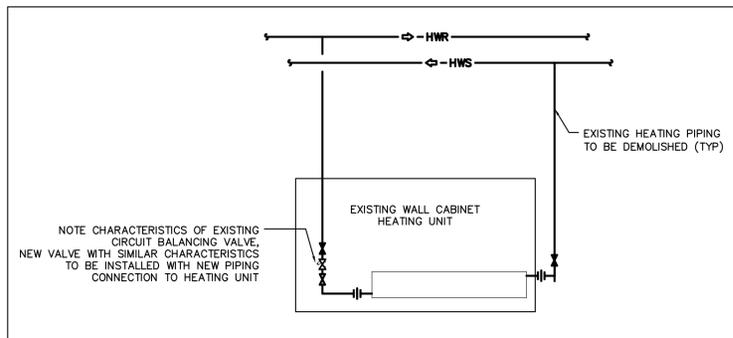
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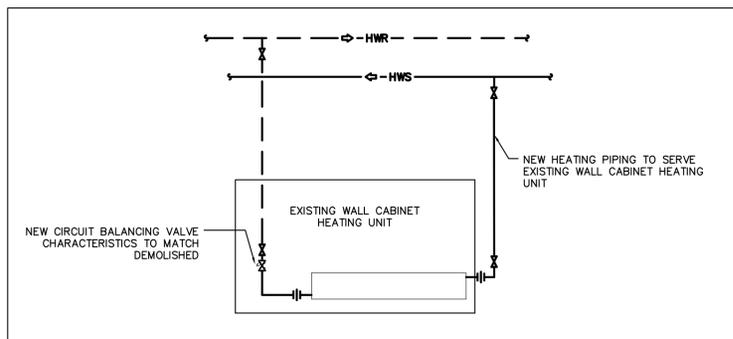
1
M04
 ELEVATION - DUCT DISTRIBUTION
 NEW WORK

SCALE - NTS



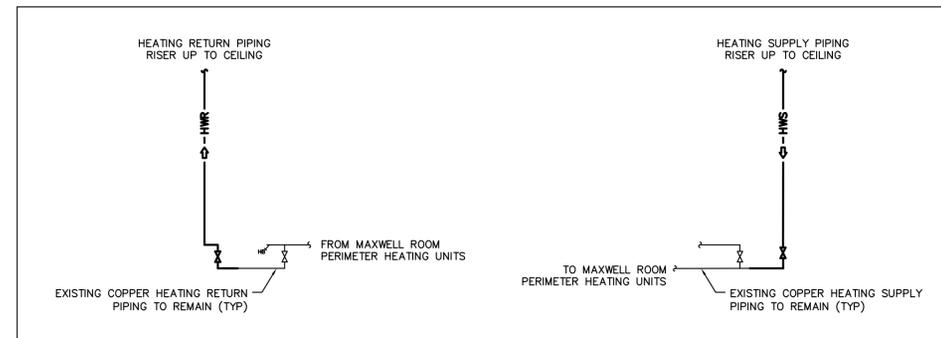
2
M02
 TYPICAL KELVIN ROOM WALL CABINET HEATER
 PIPING DEMOLITION SCHEMATIC

SCALE - NTS



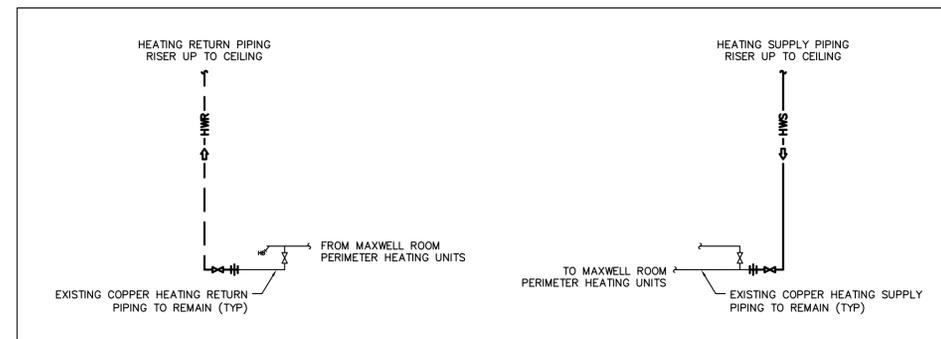
5
M04
 TYPICAL KELVIN ROOM WALL CABINET HEATER
 NEW PIPING SCHEMATIC

SCALE - NTS



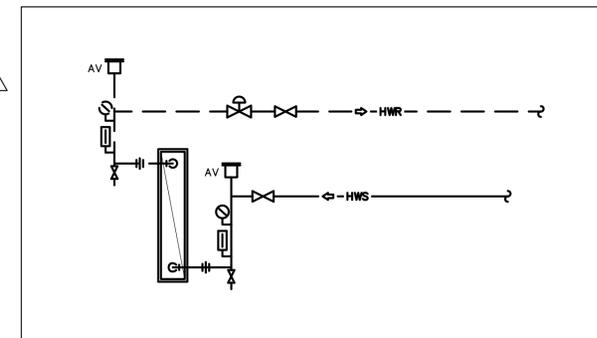
3
M04
 TYPICAL MAXWELL ROOM
 PIPING DEMOLITION SCHEMATIC

SCALE - NTS



6
M04
 TYPICAL MAXWELL ROOM
 NEW PIPING SCHEMATIC

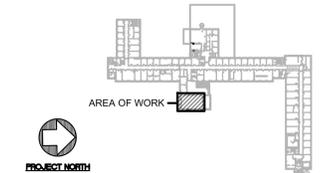
SCALE - NTS



4
M04
 TYPICAL NEW KELVIN ROOM FORCE FLOW HEATER
 HEATING COIL PIPING CONNECTIONS

SCALE - NTS

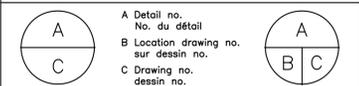
KEYPLAN



No.	Date	Revision	By:
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0	26 11 2013	ISSUED FOR TENDER	DIF

Date Printed 10 12 2013 Date imprimée

- Verify all dimensions and site conditions and be responsible for same
- Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité



project projet

M-36 KELVIN ROOM RENOVATIONS

MONTREAL ROAD CAMPUS

MECHANICAL: ELEVATIONS DETAILS AND SCHEMATICS

designed **ALS** conçu **ALS** date **NOV 2013** date

drawn **ALS** dessiné **ALS** scale **AS SHOWN** échelle

checked **JWG / ZM** vérifié **JWG / ZM** sheet **4** of/de **4** feuille

approved **BV** approuvé **BV** W.O.no. **A1-000504-01-09-18-01** D.T.no.

dwg.no. **3876-M04** dessin no.

