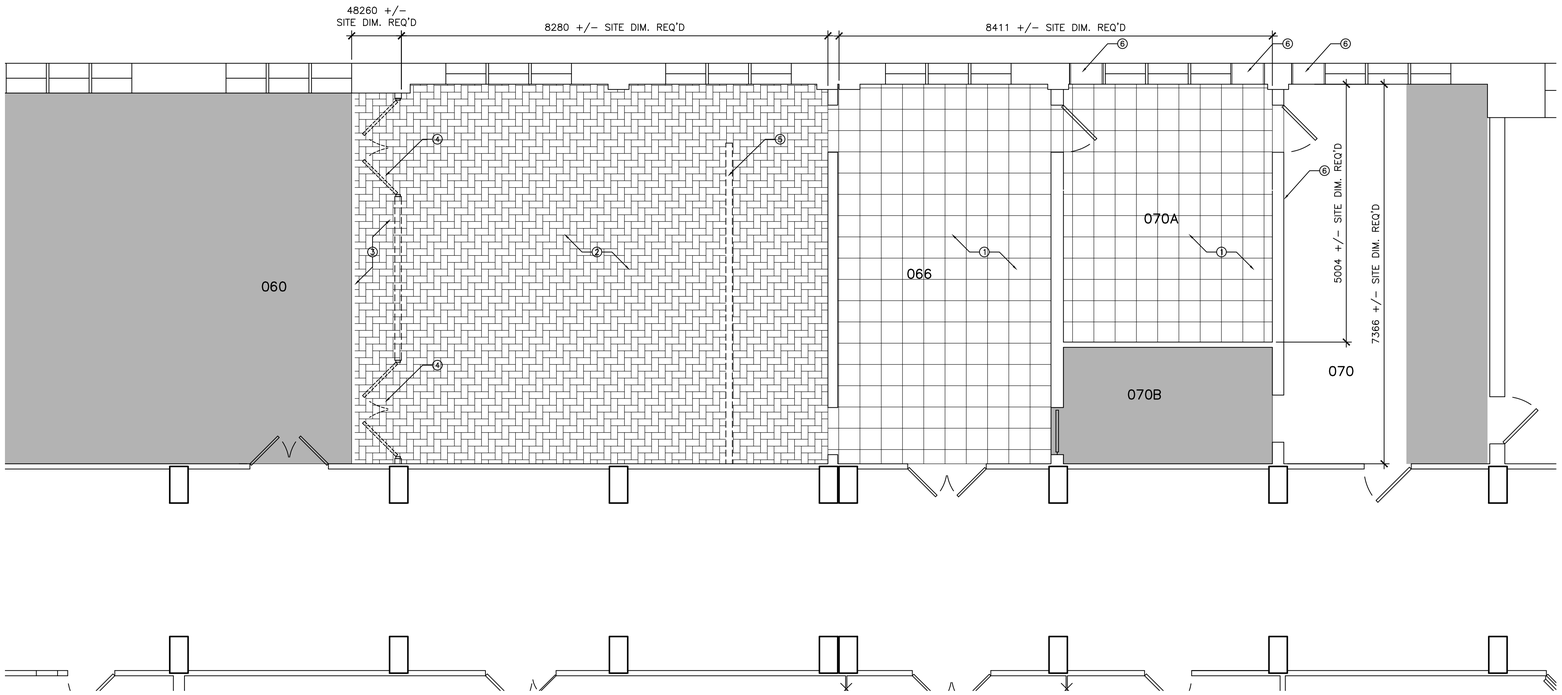
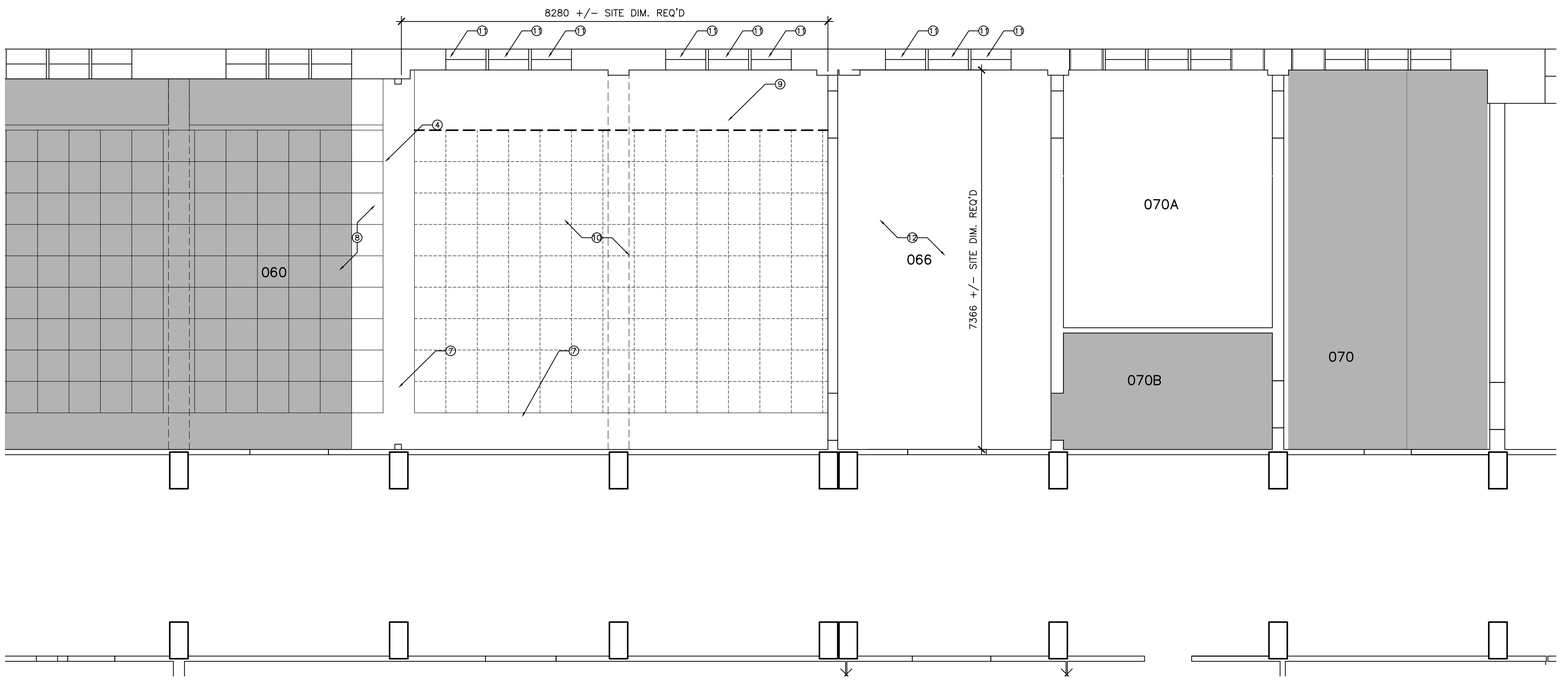


1 / A01 PARTIAL FLOOR PLAN – REMOVALS

SCALE 1:50



2 / A01 PARTIAL CEILING PLAN – REMOVALS

SCALE 1:50

DRAWING NOTES – SHEET A01
THESE NOTES APPLY TO DRAWING SHEET A01 ONLY

1. DENOTES EXTENT OF EXISTING VCT, BASE AND ALL ASSOCIATED ELEMENTS TO BE REMOVED. WHERE TILE AND BASE IS REMOVED, PATCH AND LEVEL AREAS TO RECEIVE NEW FINISHES. REFER TO SHEET 6084–A02 FOR MORE INFORMATION.
2. DENOTES EXTENT OF EXISTING QUARRY TILE AND BASE AND ALL ASSOCIATED ELEMENTS TO BE REMOVED. CHIP TILE FROM SLAB AND APPLY SELF LEVELER TO ACCOMMODATE NEW FLOOR FINISH. WHERE BASE IS REMOVED, PATCH AND REPAIR AREAS TO RECEIVE NEW FINISHES. REFER TO SHEET 6084–A02 FOR MORE INFORMATION.
3. DENOTES EXTENT OF EXISTING CERAMIC TILE AND BASE AND ALL ASSOCIATED ELEMENTS TO BE REMOVED. REMOVE TILE TO LINE OF ADJACENT CARPET FINISH. CHIP TILE FROM SLAB AND APPLY SELF LEVELER TO ACCOMMODATE NEW FLOOR FINISH. WHERE BASE IS REMOVED, PATCH AND REPAIR AREAS TO RECEIVE NEW FINISHES. REFER TO SHEET 6084–A02 FOR MORE INFORMATION.
4. EXISTING DOUBLE DOORS, FRAMES AND ALL ASSOCIATED ELEMENTS TO BE REMOVED.
5. EXISTING PARTITION TO BE REMOVED.
6. WHERE DUCTS HAVE BEEN REMOVED, REPAIR ADJACENT AREAS TO SOUND MATERIAL AND MAKE READY FOR INFILL. REFER TO MECHANICAL DRAWINGS AND SHEET 6084–A02 FOR MORE INFORMATION.
7. EXISTING BEAM AND BULKHEAD TO REMAIN. PATCH AND MAKE READY FOR NEW FINISH.
8. EXISTING CEILING SYSTEM TO REMAIN UNAFFECTED BY THE WORK.
9. EXISTING GYPSUM BOARD BULKHEAD, FASCIA AND ALL ASSOCIATED ELEMENTS TO BE REMOVED. PATCH WHERE REMOVED AND MAKE READY FOR NEW FINISH.
10. EXISTING SUSPENDED CEILING SYSTEM AND TILES TO BE REMOVED. INCLUDE ALL TILES WITHIN PLENUM SPACE AND ALL HANGERS.
11. REMOVE EXISTING HORIZONTAL BLINDS AND DISPOSE OF. PATCH SURFACES AND MAKE READY FOR NEW FINISHES.
12. INFILL ALL PENETRATIONS, HOLES OR DAMAGE WHERE DUCTS/PIPES OR HANGERS HAVE BEEN REMOVED.

NOTE:
REFER TO MECHANICAL DRAWINGS FOR EXTENT OF PIPE PENETRATIONS AT SLAB LEVEL TO BE CAPPED. WHERE PIPES ARE TO BE CUT AND REMOVED, CUT LEVEL AT SLAB AND CAP PRIOR TO APPLYING LEVELING BED.
WHERE OPENINGS AT FLOOR LEVEL ARE TO BE CAPPED, PERFORM SAME.

NOTE:
REFER TO SPECIFICATION SECTIONS FOR ABATEMENT PROCEDURES, LOCATIONS AND QUANTITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY AIR MONITORING AT THEIR COST IF ABOVE AND BEYOND THE 5 DAYS ALLOTTED FOR IN THE SPECIFICATIONS.

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- ALL TRADES TO COORDINATE WORK ON SITE, WITH APPROVAL OF DEPARTMENTAL REPRESENTATIVE TO AVOID ANY CONFLICTS AND/OR INTERFERENCE.
- ANY AND ALL REQUIRED SHUTDOWNS SHALL BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
- INSTALLATION OF ALL SYSTEMS SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.
- CONTRACTOR TO BE RESPONSIBLE FOR REINSTATEMENT AND REPAIR OF ANY DAMAGE CAUSED BY WORK.
- CONTRACTOR SHALL PREVENT THE SPREAD OF DUST AND DEBRIS BEYOND AREA OF WORK AND CLEAN ALL SURFACES AT COMPLETION.

KEY PLAN / PLAN CLÉ

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- Vérifier toutes les dimensions et l'etat des lieux et en assumer la responsabilité

A Detail no. / No. du détail
B Location drawing no. / sur dessin no.
C Drawing no. / dessin no.

project / projet: M50 - ROOM 066 MODIFICATIONS

MONTREAL ROAD CAMPUS

drawing / dessin: PARTIAL FLOOR PLANS: REMOVALS

designed / conçu: A.H/C.E.	date / date: JUNE 2022
drawn / dessiné: A.H/C.E.	scale / échelle: AS NOTED
checked / vérifié: CE	sheet / feuille: 6084-A01 of/de
approved / approuvé: MOC	W.O.no. / D.T.no.

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ACAD file: / fichier CDAO:

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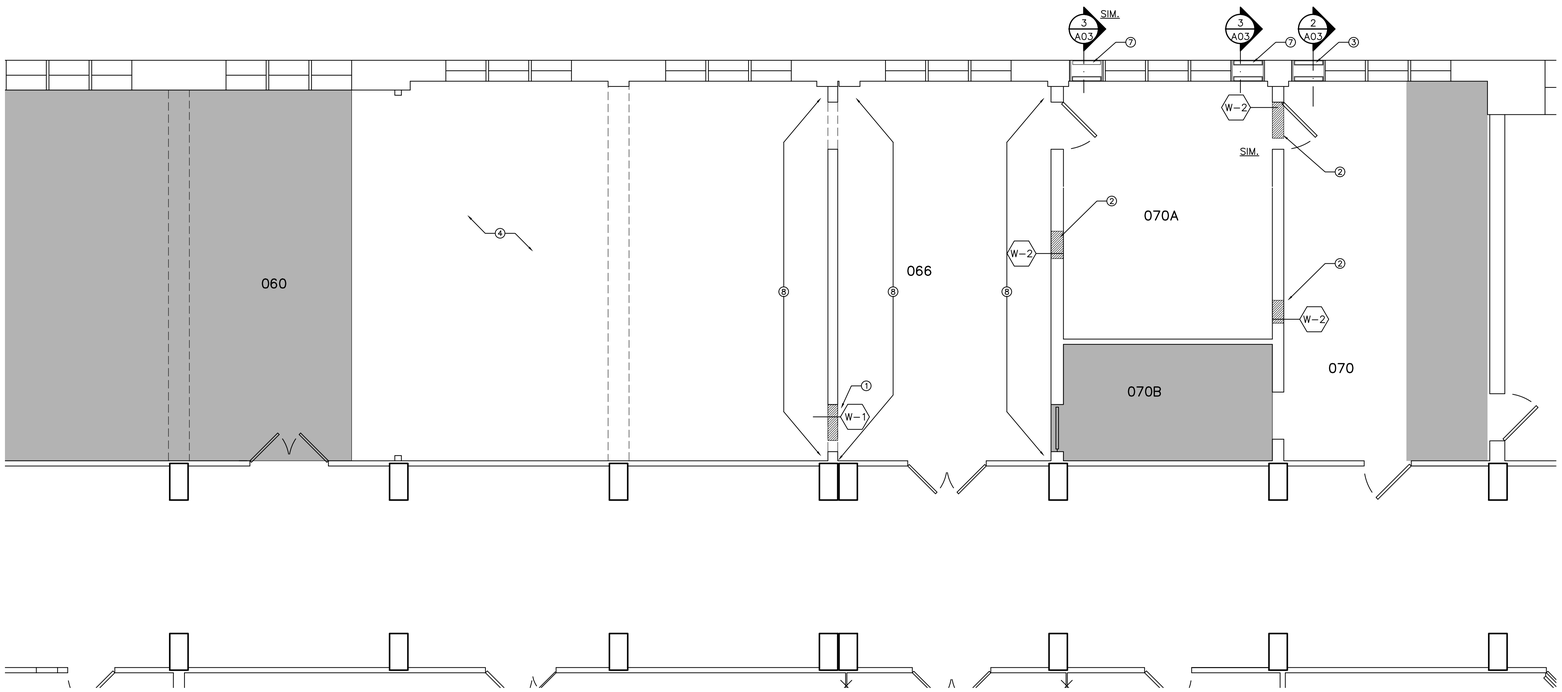
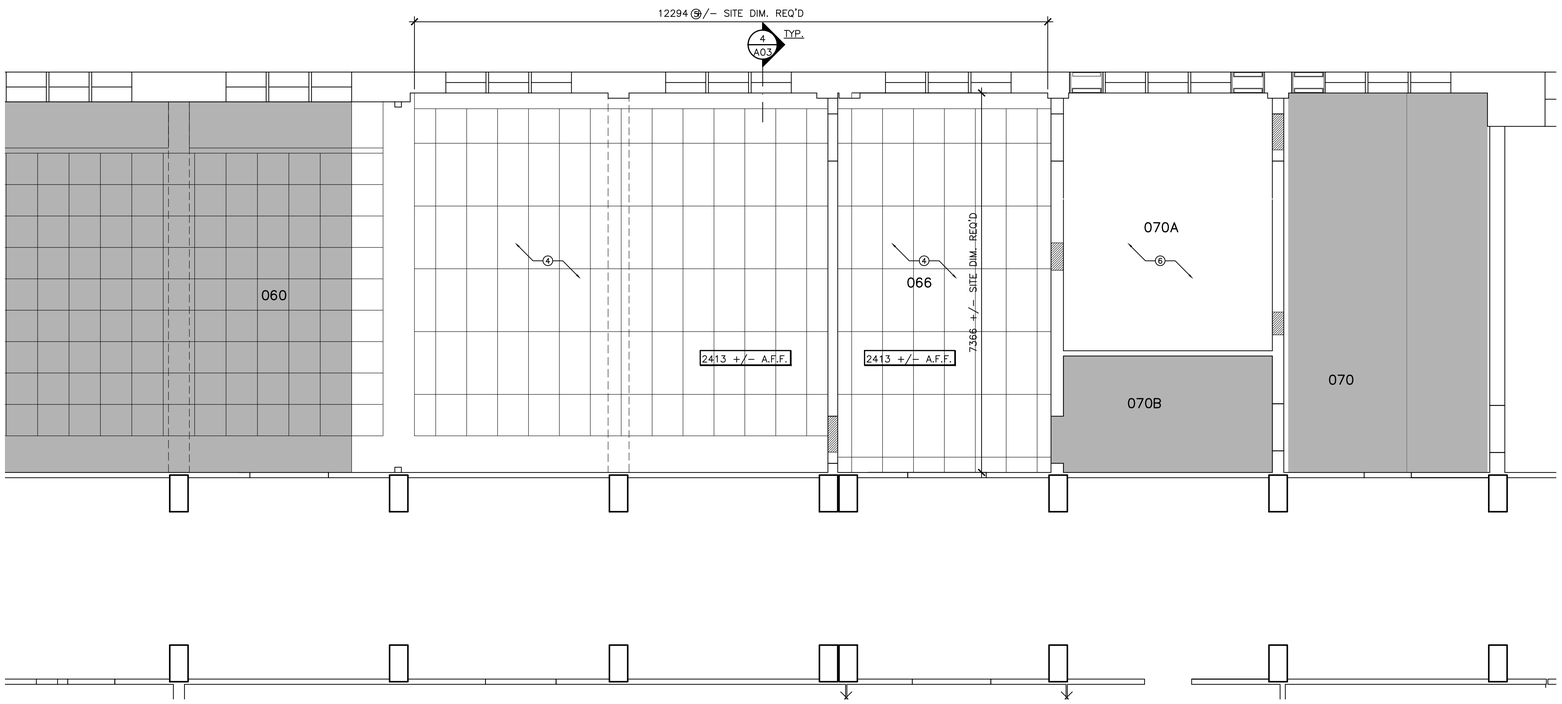


1 A02 PARTIAL FLOOR PLAN – NEW WORK

SCALE 1:50



2 A02 PARTIAL CEILING PLAN – NEW WORK

SCALE 1:50

DRAWING NOTES – SHEET A01
THESE NOTES APPLY TO DRAWING SHEET A01 ONLY

1. DENOTES NEW 700mm X 300mm NOMINAL CMU PARTITION INFILL WHERE DUCT HAS BEEN REMOVED. REFER TO TO DETAILS THIS SHEET AND MECHANICAL DRAWINGS FOR MORE INFORMATION.
2. NEW 700mm X 350mm NOMINAL CMU PARTITION INFILL WHERE DUCT HAS BEEN REMOVED. INFILL TO BE NEW 2hr FIRE RATED PARTITION TO ULC DESIGN 419: TWO LAYERS FIRECORE OR FIRECODE C, 64mm STEEL STUD FRAMING, ROXUL STONE WOOL TO FILL CAVITY. CUT BACK EXISTING ADJACENT MATERIALS TO PROVIDE EVEN/FLUSH CONNECTION BETWEEN NEW RATED PARTITION AND EXISTING PARTITION. FIRESTOP ALONG FULL CONNECTION. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
3. DENOTES NEW 600mm X 300mm NOMINAL EXTERIOR LOUVER INFILL WHERE DUCT HAS BEEN REMOVED. CAULK AT ALL CONNECTIONS, TYP. STANDARD OF CAULKING TO DOW CORNING 795 SILICONE BUILDING SEALANT. CUT BACK EXISTING ADJACENT MATERIALS TO PROVIDE EVEN/FLUSH CONNECTION BETWEEN INFILL AND EXISTING BUILDING EXTERIOR. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
4. NEW 610mm X 1219mm SUSPENDED CEILING SYSTEM: TILES TO BE ARMSTRONG, CORTEGA SQUARE LAY-IN TILES, GRID FACE, ITEM NUMBER 769, COLOUR: WHITE (WH). SUSPENSION SYSTEM TO BE ARMSTRONG "PRELUDE", EXPOSED TEE SYSTEM, COLOUR: WHITE.
5. NEW PREFABRICATED FASCIA TRIM ALONG PERIMETER: AXIOM BY ARMSTRONG. REFER TO DETAIL 3/A03 FOR MORE INFORMATION.
6. CEILING TO REMAIN OPEN. ALL EXPOSED SURFACES TO BE PAINTED: SEMI-GLOSS WHITE P1: SHERMAN WILLIAMS SW 7014 'EIDER WHITE'. SELECTION TO BE BASED ON ONE COLOUR. MIN THREE COATS TO MPI GLOSS LEVEL 2: INT 3.1A AND INT 4.2A FOR CONCRETE VERTICAL SURFACES, INT 3.2A FOR CONCRETE HORIZONTAL SURFACES. BRUSH AND ROLLER APPLICATION ONLY.
7. DENOTES NEW 600mm X 300mm NOMINAL EXTERIOR LOUVER INFILL WHERE DUCT HAS BEEN REMOVED. CAULK AT ALL CONNECTIONS, TYP. STANDARD OF CAULKING TO DOW CORNING 795 SILICONE BUILDING SEALANT. CUT BACK EXISTING ADJACENT MATERIALS TO PROVIDE EVEN/FLUSH CONNECTION BETWEEN INFILL AND EXISTING BUILDING EXTERIOR. PROVIDE OPENING TO ACCOMMODATE NEW DUCT. REFER TO TO DETAILS THIS SHEET AND MECHANICAL DRAWINGS FOR MORE INFORMATION.
8. LAMINATE 13mm GYPSUM BOARD TO FACE OF EXISTING PARTITION. SURFACE TO BE FLUSH AND CONTINUOUS WITH INFILL. SUPPLY AND INSTALL NEW J MOULD AT DOOR FRAMES. TAPE, SAND AND MAKE READY FOR NEW FINISH.

NOTE:
REFER TO SPECIFICATION SECTIONS FOR ABATEMENT INFORMATION.

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M50 - ROOM 066 MODIFICATIONS

MONTREAL ROAD CAMPUS

drawing / dessin
PARTIAL FLOOR PLANS:
NEW WORK

designed / conçu: A.H/C.E.	date / date: JUNE 2022
drawn / dessiné: A.H/C.E.	scale / échelle: AS NOTED
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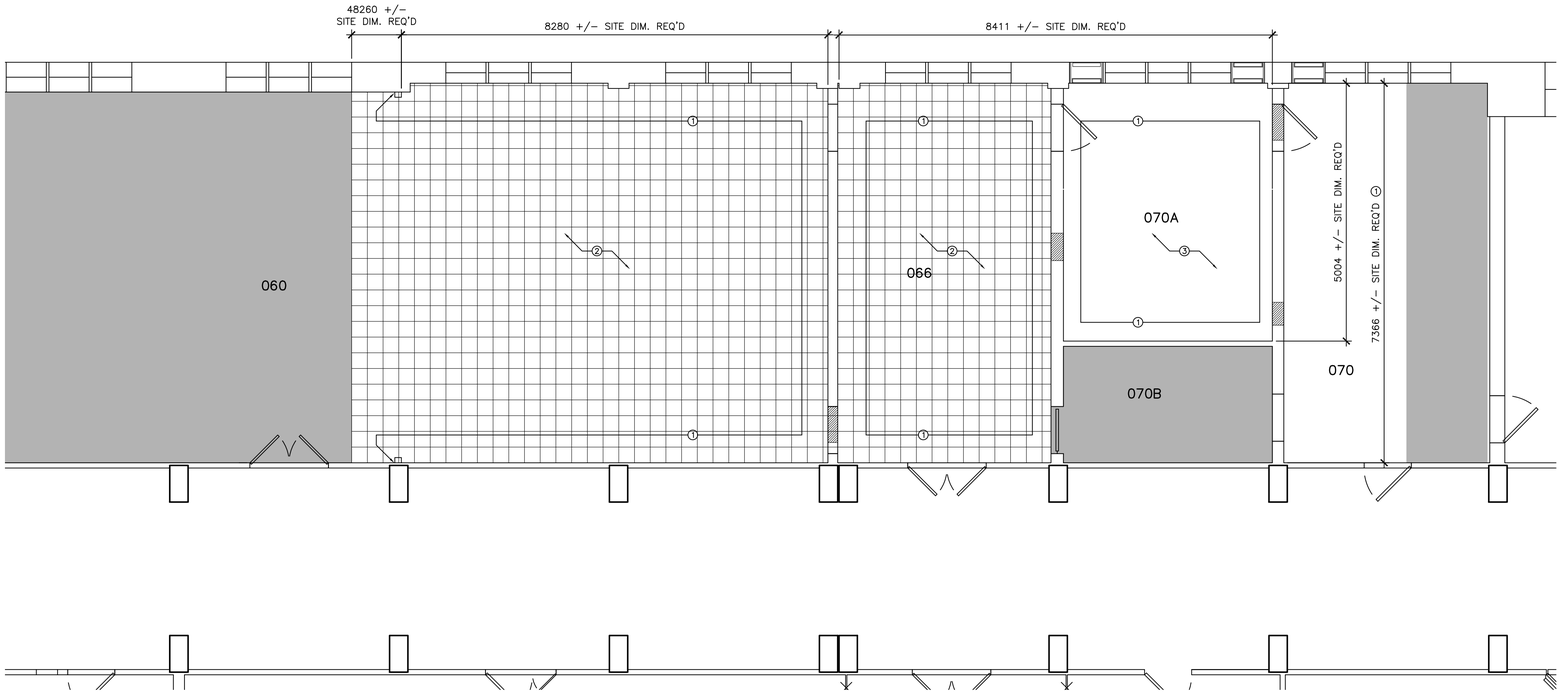
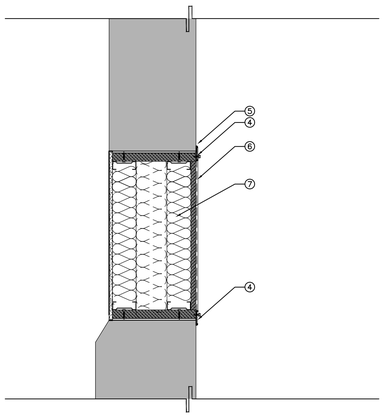


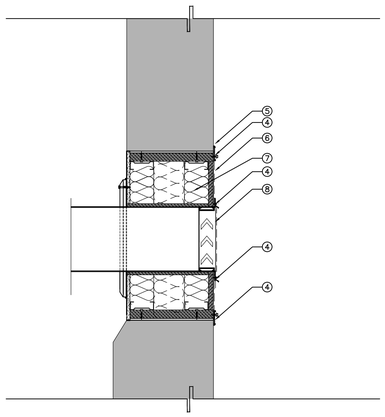
1 / A03 PARTIAL FLOOR PLAN – NEW WORK – FINISHES

SCALE 1:50



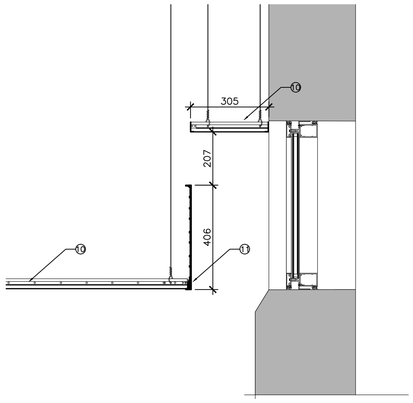
2 / A03 DETAIL @ NEW LOUVER INFILL

SCALE 1:10



3 / A03 DETAIL @ NEW LOUVER INFILL

SCALE 1:10



4 / A03 DETAIL @ NEW PERIMETER BULKHEAD

SCALE 1:10

DRAWING NOTES – SHEET A01
THESE NOTES APPLY TO DRAWING SHEET A01 ONLY

1. DENOTES EXTENT OF NEW PAINT FINISH: SEMI–GLOSS WHITE P1: SHERMAN WILLIAMS SW 7014 'EIDER WHITE'. SELECTION TO BE BASED ON ONE COLOUR. MIN THREE COATS TO MPI GLOSS LEVEL 2: INT 3.1A AND INT 4.2A FOR CONCRETE VERTICAL SURFACES, INT 3.2A FOR CONCRETE HORIZONTAL SURFACES. BRUSH AND ROLLER APPLICATION ONLY.
2. NEW VCT FLOORING TO ASTM– F1066 (04): 305mm X 305mm, SQUARE EDGE, CLASS 2 (THROUGH PATTERN): #51911 CLASSIC WHITE IMPERIAL TEXTURE STANDARD EXCELON BY ARMSTRONG. TRANSITION TO MATCH. SUPPLY AND INSTALL NEW 102mm HIGH VINYL BASE, PRE–MOLDED INSIDE AND OUTSIDE CORNERS: #48 GREY WG BY JOHNSONITE. PROVIDE NEW CARPET TO TILE AND ALL TRANSITION STRIPS. ACCESSORIES TO BE SELECTED FROM MANUFACTURER'S STANDARD RANGE.
3. TWO PART EPOXY FLOOR SYSTEM TO ASTM C 579–01(2012): SIKAFLOOR 261, SIKAFLOOR 156CA PRIMER OR APPROVED EQUAL. SUPPLY NEW 102mm HIGH COVED EPOXY BASE c/w ALUMINUM TOP TRIM.
4. NEW PRE–FINISHED 22 GAUGE ANODIZED ALUMINUM FLASHING. CAULK AT ALL CONNECTIONS, TYP. STANDARD OF CAULKING TO DOW
5. CORNING 795 SILICONE BUILDING SEALANT. COLOUR TO BE 'ANODIZED ALUMINUM' FROM MANUFACTURER'S STANDARD RANGE.
6. 25MM PRESSURE TREATED PLYWOOD FURRING. TYPICAL AROUND PERIMETER OF OPENING. PLYWOOD TO BE FASTENED TO SUBSTRATE c/w EPOXY ANCHOR: HILTI HIT–RE 100 OR APPROVED EQUAL.
7. NEW BATT INSULATION, DEPTH TO FILL VOID. STANDARD OF ACCEPTANCE: ROXUL COMFORTBATT OR APPROVED EQUAL.
8. INFILL LOCATION TO ACCOMMODATE NEW DUCT. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION. GROUT GAP BETWEEN NEW DUCT AND WALL, ENSURE TIGHT SEAL; NON–SHRINK GROUT STANDARD OF ACCEPTANCE: SIKAGROUT 212. ON BOTH FACES OF WALL,
9. SUPPLY AND INSTALL NEW MILLED ALUMINUM ESCUTCHEON PLATE, DIMENSION TO SUIT DUCT AND OPENING. ALL ESCUTCHEON/WALL CONNECTIONS TO BE CAULKED. STANDARD OF CAULKING TO DOW CORNING 795 SILICONE BUILDING SEALANT. COLOUR TO BE 'ANODIZED ALUMINUM' FROM MANUFACTURER'S STANDARD RANGE. PLATE TO BE SCREWED TO WALL FACE WITH TAPCON OR SIMILAR SCREWS.
10. ACOUSTIC CEILING PANEL FOR SUSPENDED CEILING SYSTEM: TO CAN2–92.1. CEILING HEIGHT TO REMAIN AS EXISTING HEIGHT
    - FLAME SPREAD RATING OF 25 OR LESS.
    - NOISE REDUCTION COEFFICIENT (NRC) DESIGNATION OF 0.70 TO 0.75.
    - CEILING ATTENUATION CLASS (CAC): MINIMUM 35.
    - LIGHT REFLECTANCE RANGE: ACTUAL LR OF 0.85.
    - EDGE TYPE: SQUARE.
    - COLOUR: WHITE.
    - STANDARD SIZE: 610 MM X 1 220 MM X 19 MM THICK AND 610 MM X 610 MM X 19 MM THICK, AS INDICATED.
    - CUSTOM SIZE: TO BE FIELD CUT AND EDGE FINISHED AS REQUIRED AND AS INDICATED.
    - SHAPE: FLAT.
    - ACCEPTABLE PRODUCTS AND MANUFACTURERS: ARMSTRONG ULTIMA.
    - SUSPENSION SYSTEM ACCEPTABLE PRODUCTS AND MANUFACTURERS: PRELUDE XL AS MANUFACTURED BY ARMSTRONG.
11. NEW PREFABRICATED CEILING TRIM FASCIA: ACCEPTABLE PRODUCT AND MANUFACTURER: AXIOM PERIMETER TRIM AS MANUFACTURED BY ARMSTRONG WORLD INDUSTRIES.

NOTE:
REFER TO MECHANICAL DRAWINGS FOR EXTENT OF PIPE PENETRATIONS AT SLAB LEVEL TO BE CAPPED. WHERE PIPES ARE TO BE CUT AND REMOVED, CUT LEVEL AT SLAB AND CAP PRIOR TO APPLYING LEVELING BED.
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MONTREAL ROAD CAMPUS

drawing / dessin: PARTIAL FLOOR PLANS: NEW WORK & DETAILS

designed / conçu: A.H/C.E.	date / date: JUNE 2022
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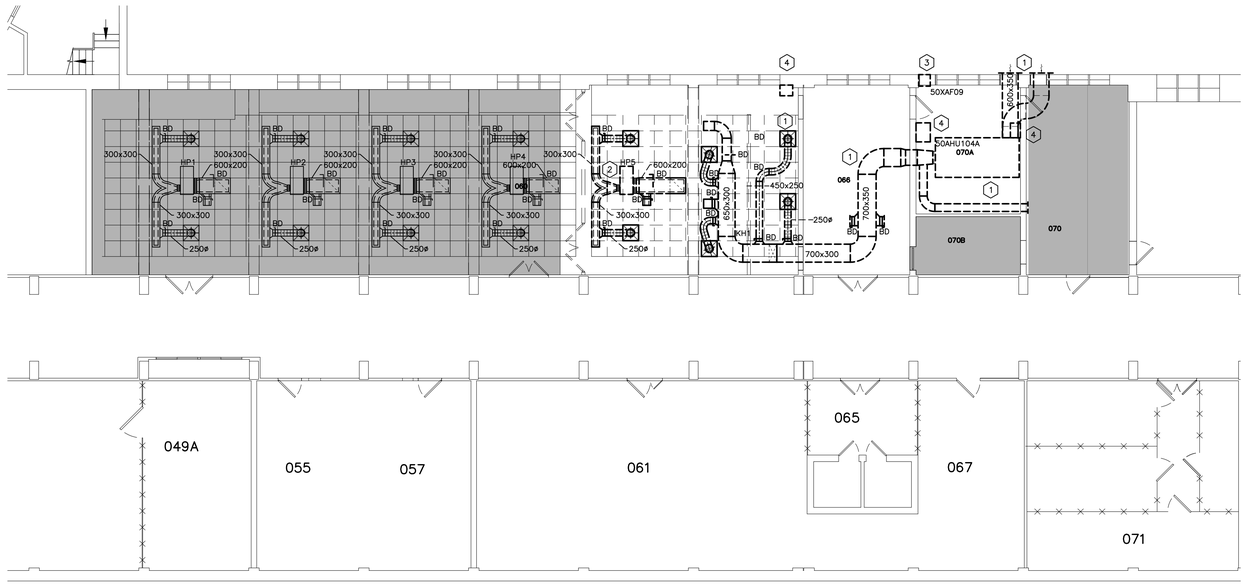
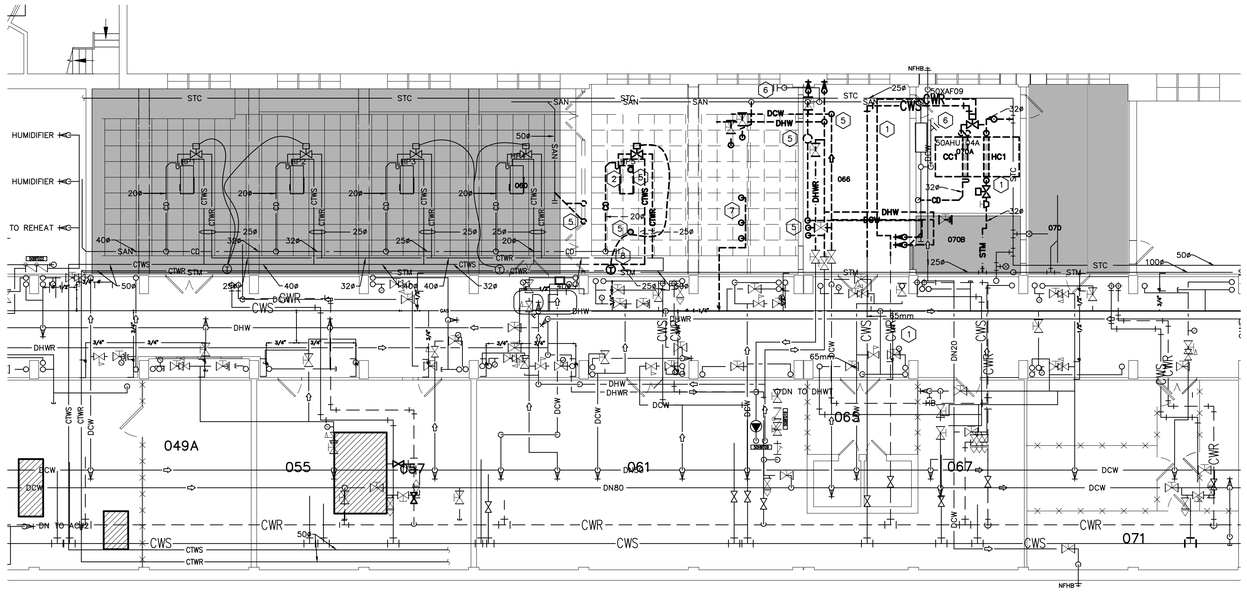


1 MO1 DEMOLITION PLAN: DUCTWORK

SCALE 1:100



2 MO1 DEMOLITION PLAN: PIPING

SCALE 1:100

MECHANICAL NOTES:

1. DISCONNECT AND REMOVE EXISTING AIR HANDLING UNIT 50AHU104A C/W HEATING COIL, COOLING COIL, DUCTWORK, SUPPLY AIR DIFFUSERS, AND BALANCING DAMPERS AS SHOWN, AND CONTROLS. PENETRATION THROUGH EXTERIOR WALL TO REMAIN FOR FUTURE CONNECTION. REMOVE EXISTING CHILLED WATER SUPPLY & RETURN, CONDENSATE DRAIN, STEAM HEATING, STEAM CONDENSATE BACK TO MAIN, CAP FOR FUTURE CONNECTION. ABATEMENT AS PER SPECIFICATIONS.
2. DISCONNECT AND REMOVE EXISTING HEAT PUMP HP5 C/W SUPPLY & RETURN DUCTWORK, SUPPLY AIR DIFFUSERS, AND BALANCING DAMPERS AS SHOWN, AND CONTROLS. REMOVE RELATED COOLING TOWER WATER SUPPLY & RETURN PIPING, CONDENSATE DRAIN BACK TO MAIN, CAP FOR FUTURE CONNECTION. ABATEMENT AS PER SPECIFICATIONS.
3. REMOVE EXISTING EXHAUST FAN 50XAF09 C/W CONTROLS.
4. REMOVE DDC CONTROLS AND CONTROL WIRING FOR EXISTING AIR HANDLING UNIT 50AHU104A, EXISTING EXHAUST FAN 50XAF09, AND EXHAUST FAN 50XAF10.
5. REMOVE EXISTING DOMESTIC COLD WATER, DOMESTIC HOT WATER, SANITARY DRAIN PIPING, GREASE TRAPS, FLOOR CAPS, AND ACCESSORIES AS REQUIRED AND AS SHOWN. CUT BACK TO MAIN AND CAP. CAP SANITARY PIPING BELOW FLOOR LEVEL AS REQUIRED.
6. EXISTING FLOOR CLEANOUTS TO REMAIN.
7. REMOVE EXISTING NATURAL GAS PIPING AND ACCESSORIES. CUT BACK TO MAIN AND CAP.
8. REMOVE EXISTING TEMPERATURE SENSOR.

FAN COIL UNITS

MANUFACTURER		TRANE
EQUIPMENT I. D.		50FCU131; 50FCU132; 50FCU133
MODEL		FCCB040
AIR FLOW	L/s / CFM	189 / 400
EXT. S. P.	Pa / in.w.c.	62.5 / 0.25
COOLING COIL		3-ROWS
CAPACITY SENS.	kW / MBH	2.8 / 9.68
CAPACITY TOTAL	kW / MBH	3.8 / 13.05
ENTER AIR	°C / °F	26.7/19.4 / 80.0/67.0 (DB/WB)
ENTER WATER	°C / °F	7.2 / 45
WATER FLOW	L/m / GPM	9.8 / 2.6
WATER P. D.	kPa / ft.	30.5 / 10.2
HEATING COIL		ELECTRIC
CAPACITY	kW / MBH	2.0 / 6.8
ENTER AIR	°C / °F	15.0 / 59.0 (DB)
ELECTRICAL		
POWER SUPPLY	V/PH/Hz	115/1/60
POWER	W	2167 (INCL. ELECTRIC HEATING)
REMARK		HORIZONTAL CONCEALED FAN COIL UNITS C/W RETURN PLENUM WITH BACK DUCT COLLAR INLET, 25mm MERV 13 FILTER, HIGH STATIC ECM MOTOR, VIBRATION ISOLATORS, CUSTOMER SUPPLIED TERMINAL INTERFACE (CSTI), AND UNIT MOUNT NON-FUSED DISCONNECT.

DIFFUSERS & GRILLES

MANUFACTURER		E. H. PRICE
PRODUCT		SQUARE DIFFUSERS
REF		SD1
MODEL		ø150/300x300/APDMC-BN/3/B12
AIR FLOW	L/s / CFM	47.2/100
REMARK		SD2
MODEL		ø200/600x600/APDMC-BN/3/B12
AIR FLOW	L/s / CFM	81.2/172
REMARK		–
PRODUCT		RETURN GRILLES
REF		RG1
MODEL		600x300/80/CH/B12
REF		RG2
MODEL		300x300/80/CH/B12
REMARK		CHANNEL BORDER FOR T-BAR LAYIN

ENERGY RECOVERY VENTILATOR

MANUFACTURER		TEMPEFF
EQUIPMENT I. D.		50ERV02
MODEL		RGSP-K MODEL 400
AIR FLOW	L/s / CFM	189/400
EXT. S. P.	Pa / in.w.c.	144.3/0.58
WINTER PERFORMANCE		
OUTDOOR AIR	°C / °F	-25.0 / -13.0
RETURN AIR	°C / °F	21.1 / 70.0
SUPPLY AIR	°C / °F	14.4 / 58.0
SENSIBLE EFF.	%	85.5
SUMMER PERFORMANCE		
OUTDOOR AIR	°C / °F	30.0 / 86.0
RETURN AIR	°C / °F	23.9 / 75.0
SUPPLY AIR	°C / °F	25.3 / 77.5
SENSIBLE EFF.	%	77.5
ELECTRICAL		
POWER SUPPLY	V/PH/Hz	115/1/60
FLA	A	6.4
POWER	W / HP	420 / 0.56
COOLING COIL (CC1)		3-ROWS
CAPACITY SENS.	kW / MBH	4.0 / 16.68
CAPACITY TOTAL	kW / MBH	5.1 / 17.56
ENTER AIR	°C / °F	26.7/19.4 / 80.0/67.0 (DB/WB)
ENTER WATER	°C / °F	7.2 / 45
WATER FLOW	L/m / GPM	13.2 / 3.5
WATER P. D.	kPa / ft.	14.4 / 4.8
HEATING COIL (HC1)		IN-DUCT ELECTRIC HEATING COIL
CAPACITY	kW / MBH	3.4 / 11.72
ENTER AIR	°C / °F	14.4 / 58.0 (DB)
HUMIDIFIER (HUM1)		ELECTRIC
MANUFACTURER		DRISTEEM
MODEL		VAPORSTREAM 5-1
STEAM CAPACITY	kg/hr / lb/hr	6.9 / 15.2
ELECTRICAL	V/Ph/Hz	208/1/60
CURRENT	A	25.6
POWER	kW	5.33
REMARK		ENERGY RECOVERY VENTILATOR TO INCLUDE HIGH EFFICIENCY ECM MOTOR. HUMIDIFIER SYSTEM TO INCLUDE DRISTEEM DRANE-KOOLER AND SINGLE DISPERSION TUBE. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

CIRCUIT BALANCING VALVE

MANUFACTURER	IMI HYDRONIC (TA)
REF	CBV
MODEL	STAS
SIZE	DN20
REMARK	FOR ALL FAN COIL UNITS, ERV

MECHANICAL LEGEND

	INDICATES NEW
	INDICATES EXISTING (TO REMAIN)
	INDICATES DEMOLISHED/ REMOVED
—SAN—	SANITARY DRAIN PIPING
—CD—	CONDENSATE DRAIN
—CWS—	CHILLED WATER SUPPLY
—CWR—	CHILLED WATER RETURN
—CTWS—	COOLING TOWER WATER SUPPLY
—CTWR—	COOLING TOWER WATER RETURN
—STM—	HEATING STEAM
—STC—	STEAM CONDENSATE
—DCW—	DOMESTIC COLD WATER
—DHW—	DOMESTIC HOT WATER
—DHWR—	DOMESTIC HOT WATER RETURN
—NG—	NATURAL GAS PIPING
	CONTROL LINE
	PIPE UP
	PIPE DOWN
	UNION
	CAP
	BALL VALVE
	2-WAY CONTROL VALVE – DDC
	3-WAY CONTROL VALVE – DDC
	CIRCUIT BALANCING VALVE
	DRAIN VALVE
	STRAINER
	CLEANOUT
	AIR VENT
	RECTANGULAR DUCTWORK
	RECTANGULAR DUCTWORK – WITH ACOUSTIC LINER
	FAN COIL UNIT
	FLEX CONNECTION
	SQUARE SUPPLY DIFFUSER
	RETURN GRILLE
	FLEXIBLE DUCTWORK, INSULATED
	ROUND TAKE OFF C/W BALANCING DAMPER
T	SPACE TEMPERATURE SENSOR (DDC)

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project / projet: M50, Room 066 Modifications

MONTREAL ROAD CAMPUS

drawing / dessin: MECHANICAL: DEMOLITION PLANS

designed / conçu	P.J.S.	date	MAY 2022
drawn / dessiné	P.J.S.	scale / échelle	AS NOTED
checked / vérifié		sheet / feuille	4 of/de 9
approved / approuvé		W.O.no.	D.T.no.

dwg.no. / dessin no.: 6084-M01

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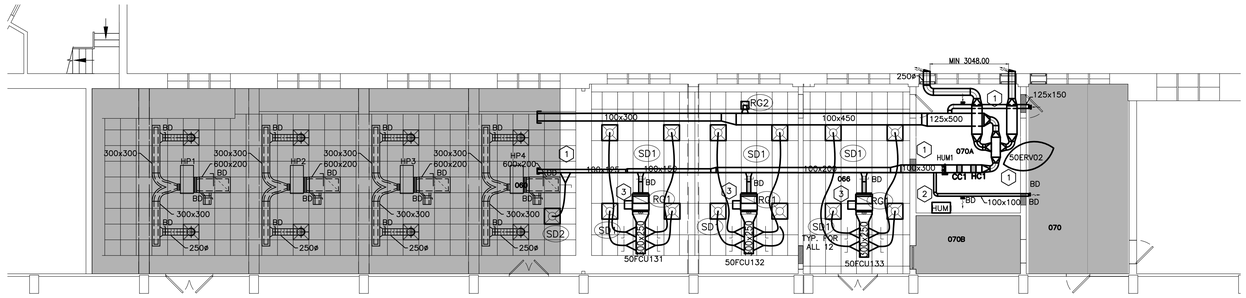
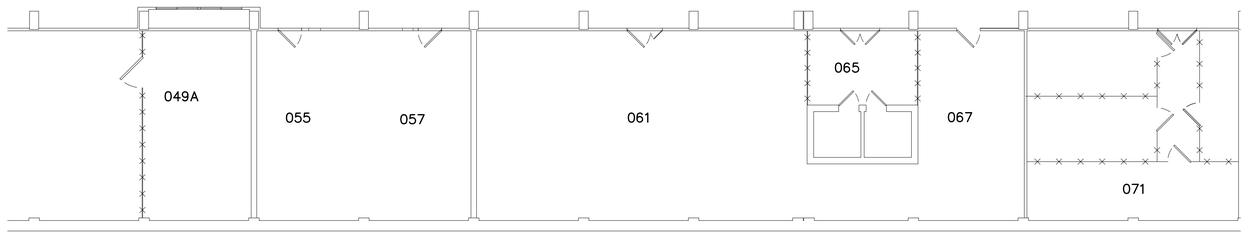
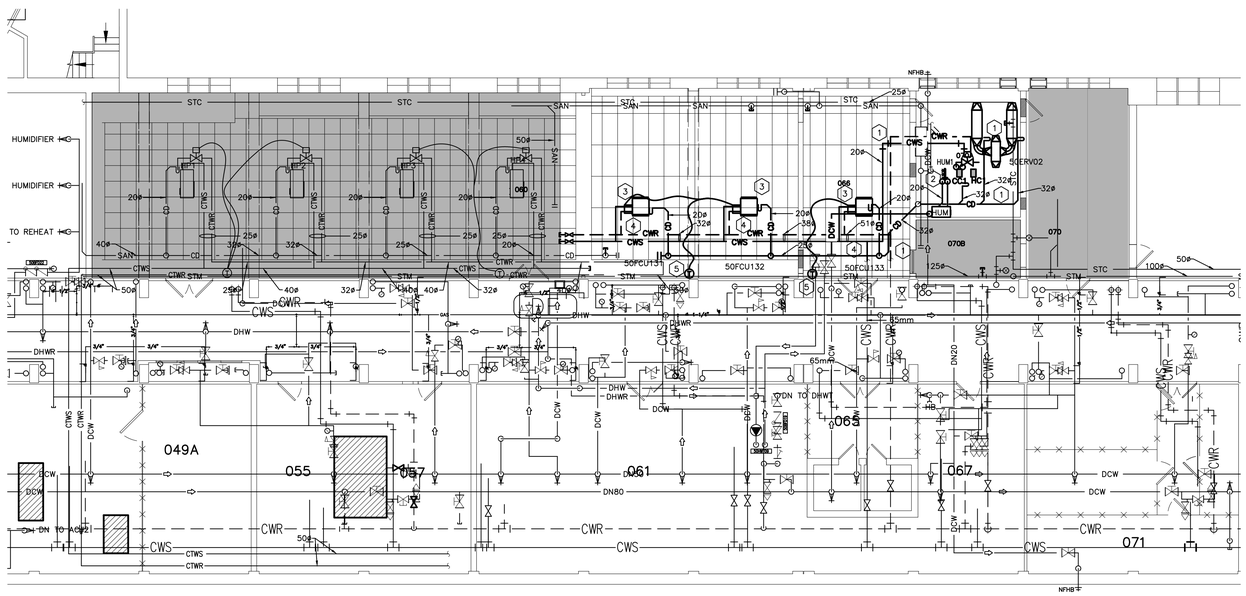




1 / M02 NEW CONSTRUCTION PLAN: DUCTWORK

SCALE 1:100



2 / M02 NEW CONSTRUCTION PLAN: PIPING

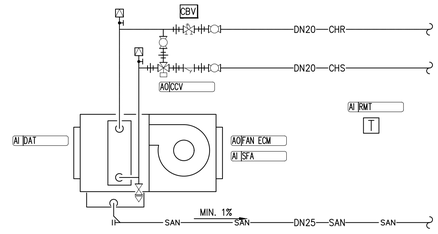
SCALE 1:100

MECHANICAL NOTES: (6)

1. PROVIDE NEW ENERGY RECOVERY VENTILATOR 50ERV02 C/W ELECTRIC HEATING COIL, CHILLED WATER COOLING COIL, OUTDOOR, EXHAUST, SUPPLY, & RETURN DUCTWORK, SUPPLY GRILLES AND DIFFUSERS, RETURN GRILLES, AND BALANCING DAMPERS AS SHOWN. FLEXIBLE SUPPLY DUCT TO SD2 DIFFUSERS ARE ø200 mm. CAP OUTDOOR & EXHAUST DUCTWORK IN ROOM 060 FOR FUTURE CONNECTION. PROVIDE NEW CHILLED WATER SUPPLY & RETURN, CONDENSATE DRAIN PIPING TO COOLING COILS. INSULATE NEW PIPE AND REPAIR INSULATION ON EXISTING PIPE AS PER SPEC. REFER TO SCHEDULES ON M01 FOR DETAILS OF ENERGY RECOVERY VENTILATOR, HEATING COIL, AND COOLING COIL. ALL RIGID SUPPLY, OUTDOOR AND EXHAUST DUCTWORK TO BE ACOUSTICALLY LINES AS PER SPEC. REUSE EXISTING WALL PENETRATIONS AS REQUIRED.
2. PROVIDE NEW ELECTRIC HUMIDIFIER, DRAIN COOLER, AND STEAM DISPERSION WAND IN DUCT DOWNSTREAM OF ENERGY RECOVERY VENTILATOR AS SHOWN. CONNECT DOMESTIC COLD WATER TO ELECTRIC HUMIDIFIER. CONNECT PIPING BETWEEN ELECTRIC HUMIDIFIER AND STEAM DISPERSION WAND ACCORDING TO MANUFACTURER'S INSTRUCTIONS. INSULATE NEW PIPE AND REPAIR INSULATION ON EXISTING PIPE AS PER SPEC. REFER TO SCHEDULE ON M01 FOR DETAILS OF HUMIDIFIER. REUSE EXISTING WALL PENETRATIONS AS REQUIRED.
3. PROVIDE FAN COIL UNITS C/W RELATED SUPPLY & RETURN DUCTWORK, ROUND ACOUSTIC INSULATED FLEXIBLE DUCTWORK, SUPPLY DIFFUSERS, RETURN GRILLES, AND BALANCING DAMPERS AS SHOWN. FLEXIBLE SUPPLY DUCT TO SD1 DIFFUSERS ARE ø150 mm. PROVIDE NEW ø150 mm FLEXIBLE OUTDOOR AIR DUCT AND TAKE-OFF WHERE REQUIRED, CONNECT TO NEW MAIN OUTDOOR AIR DUCTWORK. ALL RIGID SUPPLY AND RETURN DUCTWORK TO BE ACOUSTICALLY LINED AS PER SPEC. REFER TO SCHEDULE ON DRAWING M01 FOR DETAILS OF FAN COIL UNITS, DIFFUSERS, AND GRILLES.
4. PROVIDE NEW CHILLED WATER SUPPLY & RETURN PIPING, CONDENSATE DRAIN FOR NEW FAN COIL UNITS, CONNECT TO EXISTING MAIN. INSULATE NEW PIPE AND REPAIR INSULATION ON EXISTING PIPE AS PER SPEC. REFER TO PIPING DIAGRAM ON DRAWING M02 FOR FAN COIL UNIT CONNECTION DETAILS.
5. PROVIDE NEW DDC TEMPERATURE SENSORS TO CONTROL NEW FAN COIL UNITS BY DIV. 25.
6. BALANCE OUTDOOR AIR FLOW TO EACH FAN COIL UNIT AND SUPPLY GRILLE AS SHOWN IN TABLE ON DRAWING M02. BALANCE SUPPLY AIR FLOW TO EACH DIFFUSER AS SHOWN IN SCHEDULE ON DRAWING M01.
7. BALANCE CHILLED WATER FLOW TO EACH FAN COIL UNIT AS PER SCHEDULE ON DRAWING M01.
8. CARRY OUT COMMISSIONING ACCORDING TO SPECS.

OUTSIDE AIR FLOW (6)

O.A. CONNECTION	O.A. FLOW	
	L/s	CFM
FAN COIL UNITS		
50FCU131	14.6	31
50FCU132	14.6	31
50FCU133	14.6	31
OUTDOOR AIR GRILLES/DIFFUSERS		
SD2 (ROOM 060)	81.2	172
ROOM 070A	11.3	24
ROOM 070	42.9	91
TOTAL	179.2	380



3 / M02 FAN COIL UNIT DIAGRAM

N. T. S.

GENERAL CONTROL NOTES:

1. ALL DDC WORK SHOULD BE CARRIED OUT BY AINSWORTH CANADA, CONTACT: AARON DOBSON, (613)247-7938, AARON.DOBSON@AINSWORTH.COM
2. ALL DDC SENSORS AND CONDUIT IN THE FINISHED SPACE SHALL BE RECESSED IN WALL, **NOT SURFACE MOUNTED.**
3. MECHANICAL CONTRACTOR TO INSTALL CONTROL VALVES SUPPLIED BY AINSWORTH.
4. MECHANICAL CONTRACTOR TO CARRY COST FOR SETUP AND COMMISSIONING BY EQUIPMENT MANUFACTURER TECHNICIAN TOGETHER WITH AINSWORTH.

DDC SEQUENCE OF OPERATION:

1. FAN COIL UNITS:
   - 1.1. HEATING SEASON:
     - 1.1.1. ALL FAN COIL UNITS CHILLED WATER VALVES REMAIN CLOSED TO THE COIL. FAN COIL UNITS WILL START AND STOP ACCORDING TO USER-ADJUSTABLE OCCUPANCY SCHEDULE. FAN SHOULD RUN AT LOW SPEED SETTING WHEN TURNED ON.
     - 1.1.2. CONTROL SYSTEM SHOULD MODULATE THE ELECTRIC HEATING COILS TO MAINTAIN ROOM TEMPERATURE SET POINT.
   - 1.2. COOLING SEASON:
     - 1.2.1. ALL FAN COIL UNITS ELECTRIC HEATING COILS TO REMAIN OFF. FAN COIL UNITS WILL START AND STOP ACCORDING TO USER-ADJUSTABLE OCCUPANCY SCHEDULE.
     - 1.2.2. FANS SHOULD REMAIN AT LOW SPEED SETTING (USER-ADJUSTABLE) WHILE SYSTEM MODULATE CHILLED WATER VALVE TO MAINTAIN ROOM TEMPERATURE SET POINT.
     - 1.2.3. ONLY WHEN CHILLED WATER IS FULLY OPEN TO COOLING COIL AND ROOM TEMPERATURE IS STILL HIGHER THAN SET POINT FOR MORE THAN 10 MINUTES (USER-ADJUSTABLE), THE SYSTEM SHALL INCREASE THE FAN SPEED TO MAINTAIN ROOM TEMPERATURE SET POINT.
     - 1.2.4. WHEN ROOM TEMPERATURE DROPS BELOW SET POINT, SYSTEM SHALL FIRST REDUCE THE FAN SPEED.
   - 1.3. FAN STATUS:
     - 1.3.1. CONTROL SYSTEM SHOULD MONITOR FAN STATUS USING CURRENT SENSOR. SEND AN ALARM WHEN FAN MALFUNCTIONS.
2. ENERGY RECOVERY VENTILATOR:
   - 2.1. HEATING SEASON:
     - 2.1.1. CHILLED WATER VALVE TO REMAIN CLOSED TO THE COIL DOWNSTREAM OF ENERGY RECOVERY VENTILATOR. ENERGY RECOVERY VENTILATOR WILL START AND STOP ACCORDING TO USER-ADJUSTABLE OCCUPANCY SCHEDULE.
     - 2.1.2. CONTROL SYSTEM SHOULD MODULATE ELECTRIC HEATING COIL TO MAINTAIN TEMPERATURE SET POINT.
   - 2.2. COOLING SEASON:
     - 2.2.1. ELECTRIC HEATING COIL DOWNSTREAM OF ENERGY RECOVERY VENTILATOR TO REMAIN OFF. ENERGY RECOVERY VENTILATOR WILL START AND STOP ACCORDING TO USER-ADJUSTABLE OCCUPANCY SCHEDULE.
     - 2.2.2. CONTROL SYSTEM SHOULD MODULATE CHILLED WATER VALVE TO MAINTAIN TEMPERATURE SET POINT.

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MONTREAL ROAD CAMPUS

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W.O.no.	
D.T.no.	
dwg.no. / dessin no.	6084-M02

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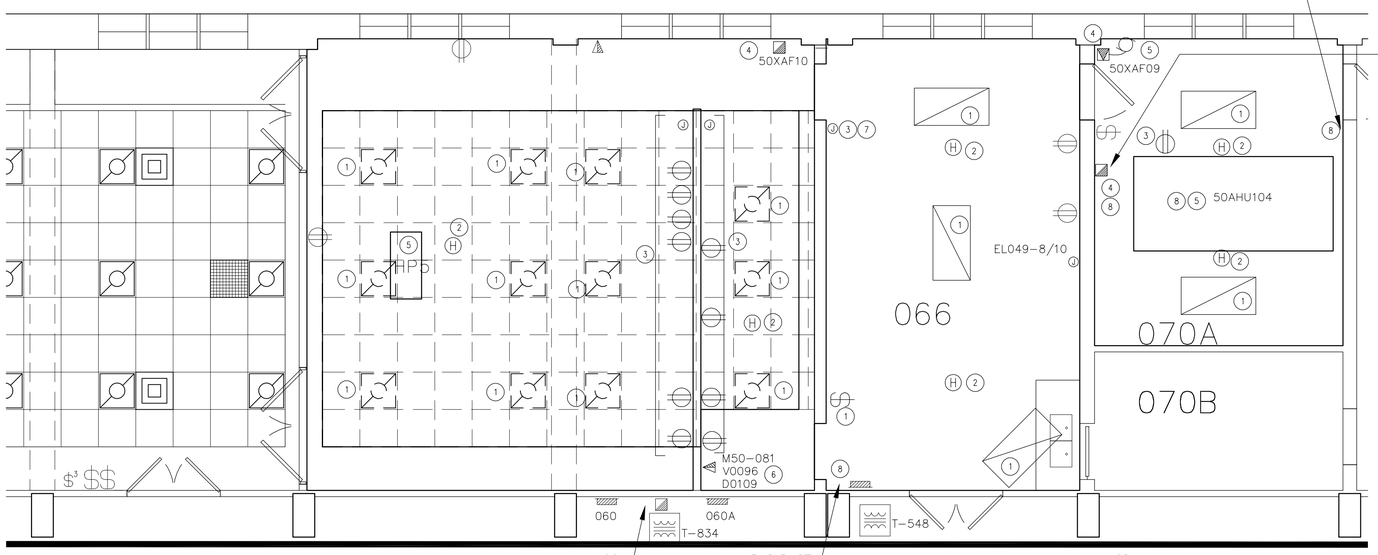
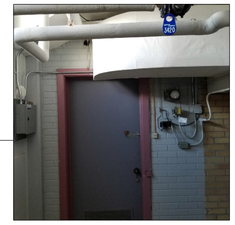
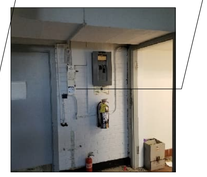




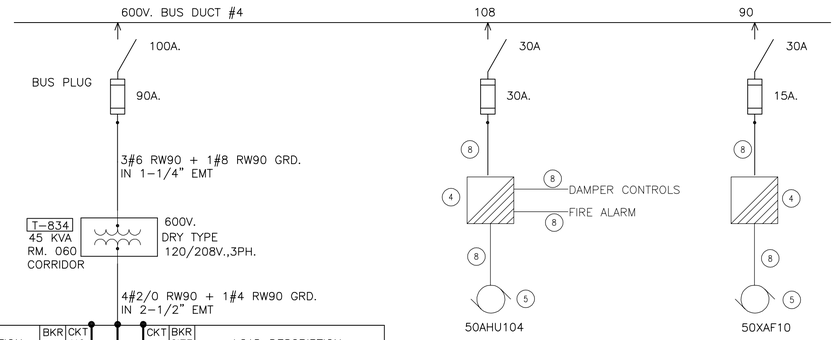
1 / E01 DEMOLITION PLAN

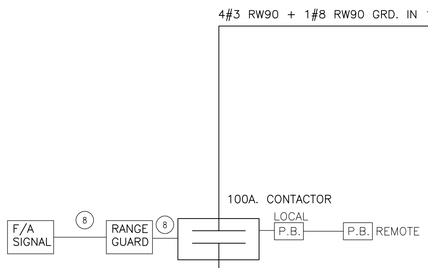
SCALE = 1:50



ELECTRICAL DRAWING SYMBOLS LEGEND

	FAN MOTOR
	LIGHTING FIXTURE
H	FIRE ALARM HEAT DETECTOR
$	2-WAY LIGHTING SWITCH
$3	3-WAY LIGHTING SWITCH
J	JUNCTION/PULL BOX
	RECEPTACLE
	SURFACE PANELBOARD
	DRY TYPE TRANSFORMER
	EXISTING 2X2 LIGHTING FIXTURE
	MAGNETIC MOTOR STARTER
	MANUAL MOTOR STARTER
	TELECOM OUTLET





LOAD DESCRIPTION	BKR SIZE	CKT NO	CKT NO	BKR SIZE	LOAD DESCRIPTION
	15	1	2	25	
	40	3	4		
		5	6		
	15	7	8		
		9	10	20	
		11	12		

120/208V.,3PH.,4W
100 AMP MAINS
SQUARE D: NQOD

NEUTRAL

PANELBOARD 060A

SURFACE MOUNTED

LOAD DESCRIPTION	BKR SIZE	CKT NO	CKT NO	BKR SIZE	LOAD DESCRIPTION
	15	1	2	30	
	15	3	4	15	
CONTACTOR & PANEL 060A	20	5	6	15	
		7	8	20	
	20	9	10	20	
		11	12	15	
	15	13	14	15	
	100	15	16	15	
		17	18	60	
		19	20		
	15	21	22	15	
	15	23	24	15	
HEAT PUMP HP1	20	25	26	20	HEAT PUMP HP2
		27	28		
		29	30		
HEAT PUMP HP3	20	31	32	20	HEAT PUMP HP4
		33	34		
		35	36	15	
HEAT PUMP HP5	20	37	38	15	
		39	40	20	
		41	42		

HP5

120/208V.,3PH.,4W
225 AMP MAINS
SQUARE D: NQOD

NEUTRAL

PANELBOARD 060

SURFACE MOUNTED

DEMOLITION NOTES:

1. DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURE AND SWITCH, CIRCUIT TO BE KEPT FOR NEW LIGHTS
2. EXISTING FIRE ALARM HEAT DETECTOR TO RELOCATED AS PER E02.
3. DISCONNECT AND REMOVE EXISTING WALL RECEPTACLE AND JUNCTION BOX, REMOVE CIRCUIT WIRING BACK TO SOURCE.
4. DISCONNECT AND REMOVE EXISTING STARTER.
5. DISCONNECT EXISTING HVAC EQUIPMENT.
6. EXISTING TELECOM CABLES WITH OUTLET TO BE COILED TO CEILING SPACE.
7. EXISTING CONDUIT STUB TO BE CUT BACK TO FLOOR LEVEL.
8. REMOVE ALL ASSOCIATED POWER,CONTROL, FIRE ALARM CONDUIT AND WIRES.

– PROVIDE FIRE ALARM VERIFICATION REPORT AS PER ULC-S537

2 / E01 SINGLE LINE DIAGRAM

SCALE =

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project / projet: M50 - ROOM 066 MODIFICATIONS

MONTREAL ROAD CAMPUS

drawing / dessin: ELECTRICAL - DEMOLITION PLAN

designed / conçu: KXL	date / date: JULY/2022
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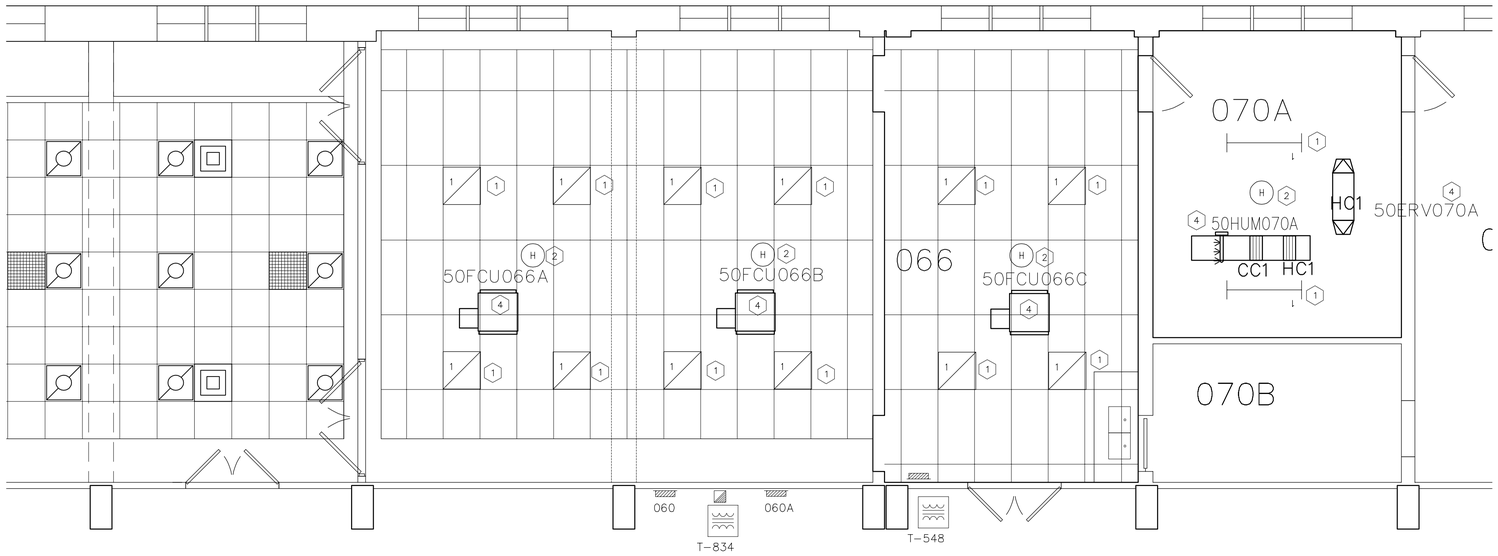

1 / E02 NEW CEILING PLAN

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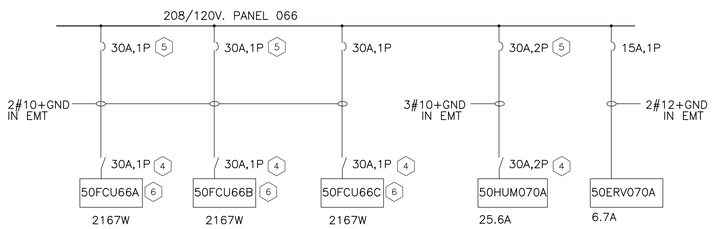

2 / E02 SINGLE LINE DIAGRAM

SCALE =

ELECTRICAL DRAWING SYMBOLS LEGEND

	LINEAR STRIP LIGHT
	2X2 RECESSED LIGHT
H	FIRE ALARM HEAT DETECTOR
	SURFACE PANELBOARD
	DRY TYPE TRANSFORMER

NEW WORK NOTES:

1. PROVIDE NEW LED LIGHTING WITH INTEGRAL SENSOR:
   - ROOM 066, CFI FLUXGRID RECESSED, 2X2, 4000K, 3000 LUMEN, , 2FOG-30L8402DUNVDIM-SWZCS, QTY:12
   - ROOM 070, CFI FLUXSTREAM LINEAR , 4 FOOT LONG, 4000K, 4000 LUMEN, FSS-440L840UNVDIM-SWZCS, QTY:2. MOUNTED TO CEILING.
   - REUSE EXISTING LIGHTING CIRCUIT
2. RELOCATE EXISTING HEAT DETECTOR AS SHOWN. PROVIDE VERIFICATION REPORT AS PER ULC-S537
3. PROVIDE NEW WIRING AND CONNECTION
4. PROVIDE MOTOR RATED TOGGLE SWITCH MOUNT ON HVAC EQUIPMENT PROVIDED BY DIVISION 25
5. PROVIDE NEW BREAKER, UPDATE PANEL DIRECTORY.
6. PROVIDE FLEXIBLE CONNECTION TO NEW HVAC EQUIPMENT

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M50 - ROOM 066 MODIFICATIONS

MONTREAL ROAD CAMPUS

drawing / dessin
ELECTRICAL - DEMOLITION PLAN

designed / conçu: KXL	date / date: JULY/2022
drawn / dessiné: KXL	scale / échelle: AS NOTED
checked / vérifié:	sheet / feuille: E01 of/de
approved / approuvé: ALS	W.O.no. / D.T.no.

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