

KEY PLAN
 --- LIMITS OF CONTRACT (AREA OF WORK)



0	RELEASED FOR CONSTRUCTION	16 SEP 2018
revisions		date
project		project

**G.O.C.B.
 SUNNY CORNER
 NEW BRUNSWICK**

drawing	design
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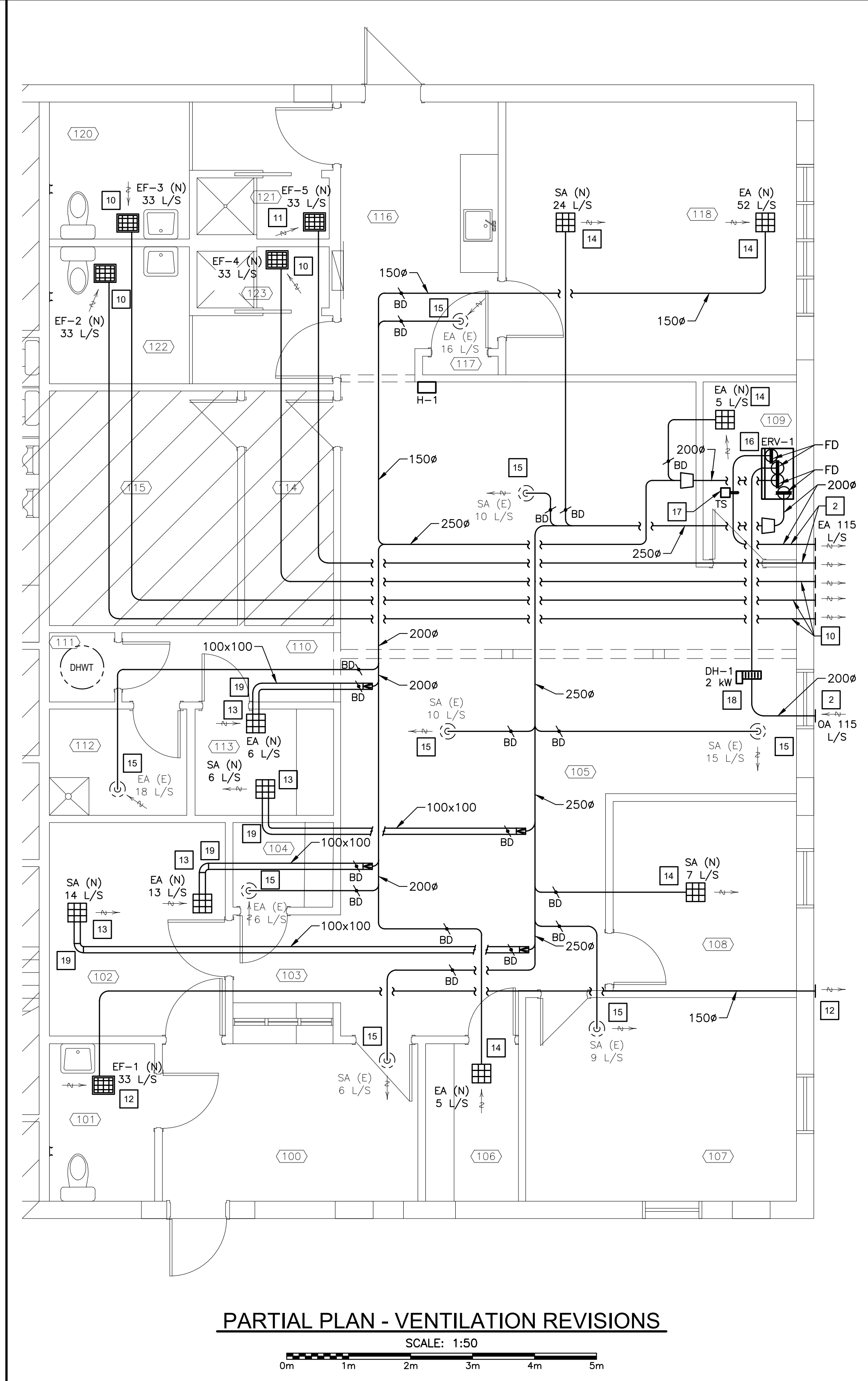
**HEATING AND VENTILATION
 DEMOLITION AND
 NEW CONSTRUCTION
 PARTIAL FLOOR PLANS**

designed	RJM	congr
date	JULY 20, 2018	
drawn	SET	dessiné
date	JULY 20, 2018	
approved		approuvé
date		
Tender	Submission	

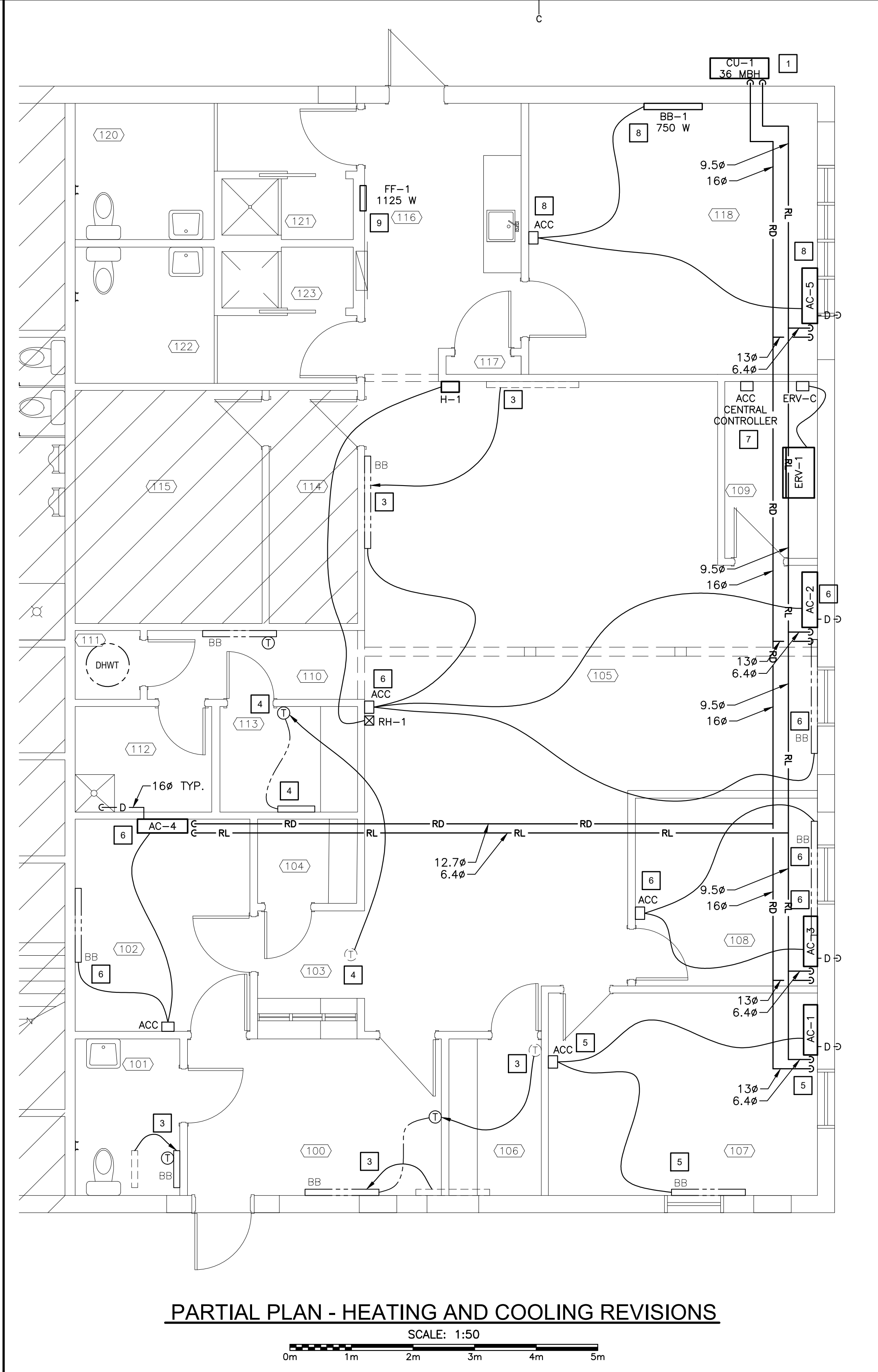
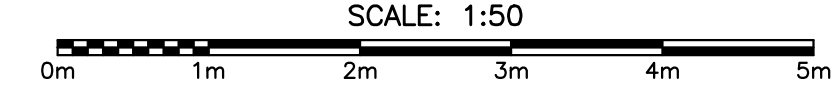
PWSC Project Manager / Administrateur de projets TPSC
 project number / no. du projet

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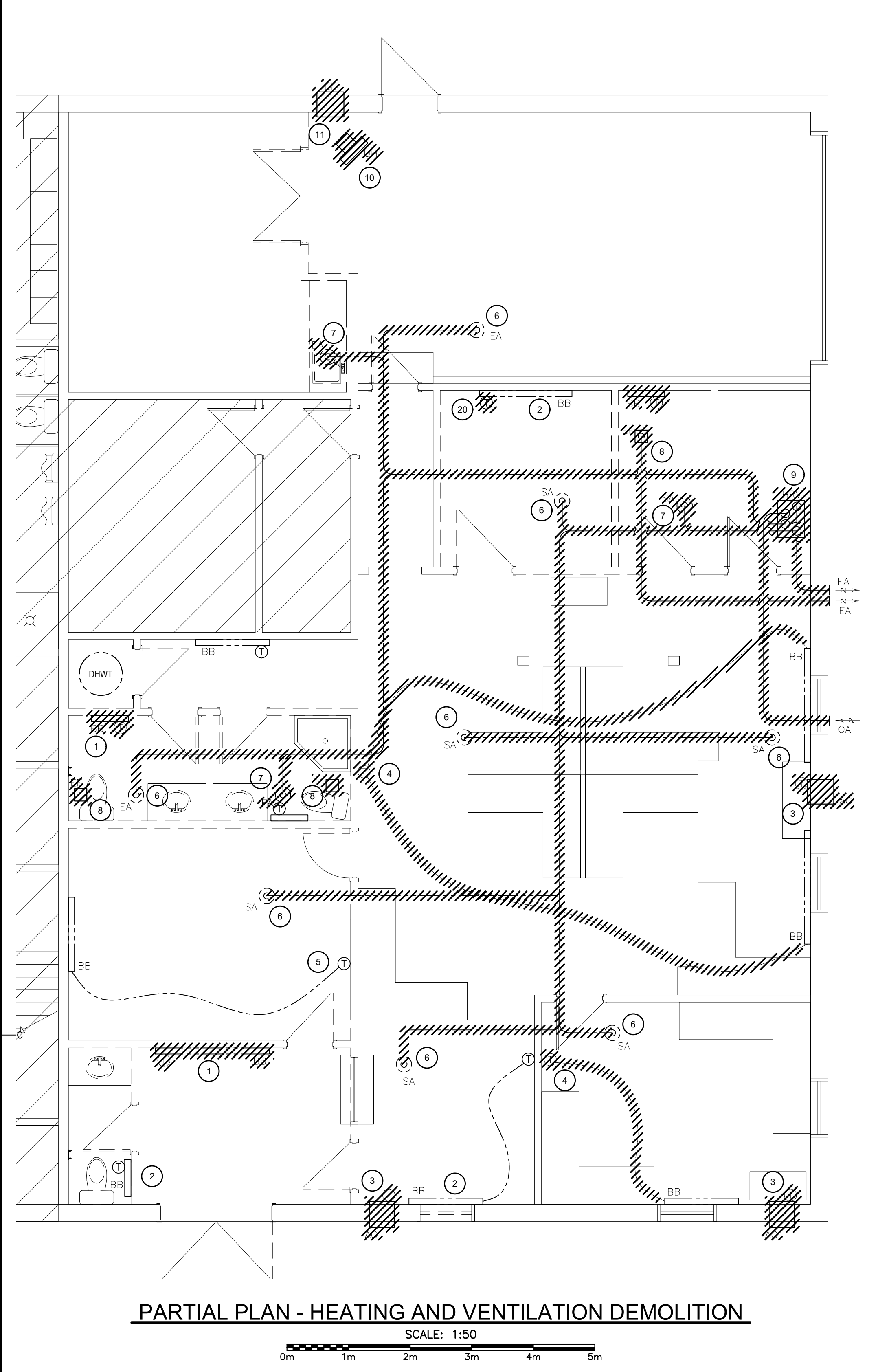
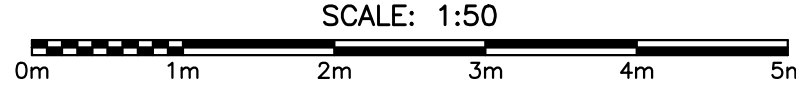
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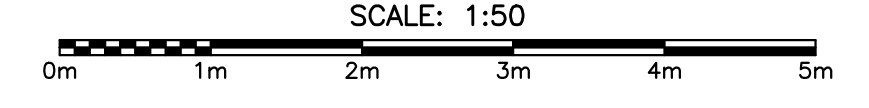
PARTIAL PLAN - VENTILATION REVISIONS



PARTIAL PLAN - HEATING AND COOLING REVISIONS



PARTIAL PLAN - HEATING AND VENTILATION DEMOLITION



HEATING & VENTILATION DEMOLITION KEYNOTES

- EXISTING BASEBOARD HEATER AND ANY ASSOCIATED THERMOSTATS AND WIRING TO BE REMOVED.
- EXISTING BASEBOARD HEATER AND ANY ASSOCIATED THERMOSTAT AND WIRING TO BE RELOCATED AS PART OF NEW WORK.
- EXISTING THROUGH WALL AC UNITS AND ASSOCIATED THERMOSTAT AND WIRING TO BE REMOVED. REPAIR WALL OPENING AS REQUIRED.
- REMOVE EXISTING THERMOSTAT AND ASSOCIATED WIRING TO BASEBOARD. BASEBOARD TO REMAIN.
- EXISTING THERMOSTAT AND ASSOCIATED WIRING FOR BASEBOARD TO BE RELOCATED AS PART OF NEW WORK.
- REMOVE EXISTING DUCTWORK. SA/EA DIFFUSER TO REMAIN.
- REMOVE EXISTING SA/EA DIFFUSER AND ASSOCIATED DUCTWORK.
- REMOVE EXISTING EXHAUST FAN, WIRING AND ASSOCIATED DUCTWORK.
- REMOVE EXISTING HRV AND ALL ASSOCIATED DUCTWORK.
- REMOVE EXISTING UNIT HEATER AND WIRING.
- REMOVE EXISTING EXHAUST FAN AND WIRING AND REPAIR WALL OPENING AS REQUIRED.

BRANCH DUCT AIRFLOW L/S	SCHEDULE DUCT Ø MIN.
0 - 20	100Ø
20 - 50	150Ø

GENERAL NOTES

- BALANCE HVAC SYSTEM TO AIRFLOWS SHOWN.
- COORDINATE BASEBOARD HEATER WIRING AND THERMOSTATS WITH ELECTRICAL.

HEATING, COOLING & VENTILATION KEYNOTES

- MOUNT CU-1 TO EXTERIOR WALL WITH BOTTOM OF UNIT 1.5 METERS ABOVE GRADE.
- UTILIZE EXISTING OA AND EA OPENING LOCATIONS FOR ERV-1 AND EF-5. OPENING FOR EF-2, EF-3 AND EF-4 TO BE NEW. PROVIDE NEW 200Ø WALL CAPS FOR ERV-1 OA AND EA DUCTS.
- RELOCATE EXISTING BASEBOARD, THERMOSTAT AND ASSOCIATED WIRING TO NEW LOCATION SHOWN.
- RELOCATE EXISTING THERMOSTAT AND ASSOCIATED WIRING TO NEW LOCATION SHOWN.
- INSTALL NEW AC-1. REPLACE EXISTING THERMOSTAT WITH NEW ACC AND WIRE TO AC-1 AND EXISTING BASEBOARD. AC-1 TO BE DRAINED TO EXTERIOR.
- INSTALL NEW AC-2, AC-3 AND AC-4. INSTALL NEW ACC AND WIRE TO AC-2, AC-3 AND AC-4 AND EXISTING BASEBOARD. AC-2 AND AC-3 TO BE DRAINED TO EXTERIOR. AC-4 TO BE DRAINED TO JS.
- INSTALL NEW ACC CENTRAL CONTROLLER.
- INSTALL NEW AC-5 AND BB-1. INSTALL NEW ACC AND WIRE TO NEW AC-5 AND BB-1. AC-5 TO BE DRAINED TO EXTERIOR.
- INSTALL NEW FF-1.
- INSTALL NEW EF-2, EF-3 AND EF-4. ROUTE EA DUCTWORK TO EXTERIOR AS SHOWN. CUT NEW OPENINGS AND INSTALL NEW LOUVERS.
- INSTALL NEW EF-5. ROUTE EA DUCTWORK TO EXISTING OPENING.
- INSTALL NEW EF-1. ROUTE EA DUCTWORK TO EXTERIOR AS SHOWN. CUT NEW OPENING AND INSTALL NEW WALL CAP.
- INSTALL NEW 300x300 SA/EA GRILLE c/w FIRE DAMPER. CONNECT 100x100 DUCT c/w 2 LAYERS OF 50mm ACOUSTIC LINING.
- INSTALL NEW 300x300 SA/EA GRILLE c/w FIRE DAMPER. ROUTE DUCTWORK TO ERV-1.
- CONNECT EXISTING SA/EA DIFFUSER TO NEW DUCTWORK. ROUTE DUCTWORK TO ERV-1.
- INSTALL NEW ERV-1 c/w FIRE DAMPERS IN DUCTWORK AT CEILING PENETRATIONS.
- INSTALL NEW DUCT TEMPERATURE SENSOR ON EA DUCT TO CONTROL DUCT HEATER.
- INSTALL NEW DUCT HEATER ON OA DUCT.
- ELBOWS REQUIRED AS INDICATED FOR SOUND REDUCTION. INSTALL 50mm ACOUSTIC LINING ON ENTIRE SQUARE BRANCH DUCT.
- REMOVE BUILT-IN THERMOSTAT.

HVAC LEGEND

--- (dashed)	EXISTING EQUIPMENT, DUCTWORK OR WIRING	⊕	EXISTING SA/EA DIFFUSER
--- (dotted)	EXISTING UNDER FLOOR PIPING	UH	UNIT HEATER, EXISTING
--- (hatched)	EXISTING TO BE REMOVED	EF	EXHAUST FAN, EXISTING
--- (solid)	EXISTING TO BE RELOCATED	HRV	HEAT RECOVERY VENTILATOR, EXISTING
--- (dashed)	NEW EQUIPMENT, DUCTWORK OR WIRING	H-1	HUMIDIFIER #1
--- (dotted)	NEW UNDER FLOOR PIPING	EA (N)	GRILLE/DIFFUSER TYPE (EXISTING/NEW) AIRFLOW IN L/S
--- (solid)	PIPE/DUCTWORK UP	5 L/S	NEW SA/EA GRILLE WITH FIRE DAMPER
--- (solid)	PIPE/DUCTWORK DOWN	FD	FIRE DAMPER
--- (solid)	REFRIGERANT SUPPLY PIPING	FD	NEW EXHAUST FAN WITH FIRE DAMPER
--- (solid)	REFRIGERANT RETURN PIPING	BD or \	BALANCING DAMPER
BB	BASEBOARD HEATER, EXISTING	CU-1	CONDENSING UNIT #1
AC	WALL AIR CONDITIONING UNIT, EXISTING	AC-1	AIR CONDITIONING UNIT #1
⊕	EXISTING THERMOSTAT	RH-1	RELATIVE HUMIDITY SENSOR
SA	SUPPLY AIR	BB-1	BASEBOARD #1
OA	OUTSIDE AIR	ACC	LOCAL CONTROLLER FOR AC UNIT
EA	EXHAUST AIR	FF-1	FORCE FLOW HEATER #1
RA	RETURN AIR	ERV-1	ENERGY RECOVERY VENTILATOR #1
→	AIRFLOW DIRECTION	TS	DUCT TEMPERATURE SENSOR
DH-1	DUCT HEATER #1	D	CONDENSATE DRAIN PIPING
ERV-C	ERV CONTROLLER		