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NORR

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Revision	Description	Date
4	ISSUED FOR CONSTRUCTION	2019/10/29
3	ISSUED FOR 90% REVIEW	2019/08/29
2	ISSUED FOR 60% REVIEW	2019/05/09
1	ISSUED FOR 30% REVIEW	2018/03/14

Revision Client Description Date client

PSPC

10025 JASPER AVE
EDMONTON, ALBERTA, T5J 1S6
PH. 780-919-9445

Project Title Project
JASPER STAFF HOUSING CONSTRUCTION

5 PLEX

902 PATRICIA STREET
JASPER, AB, T0E 1E0

Designed by Conçu par
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Drawn by Dessiné par
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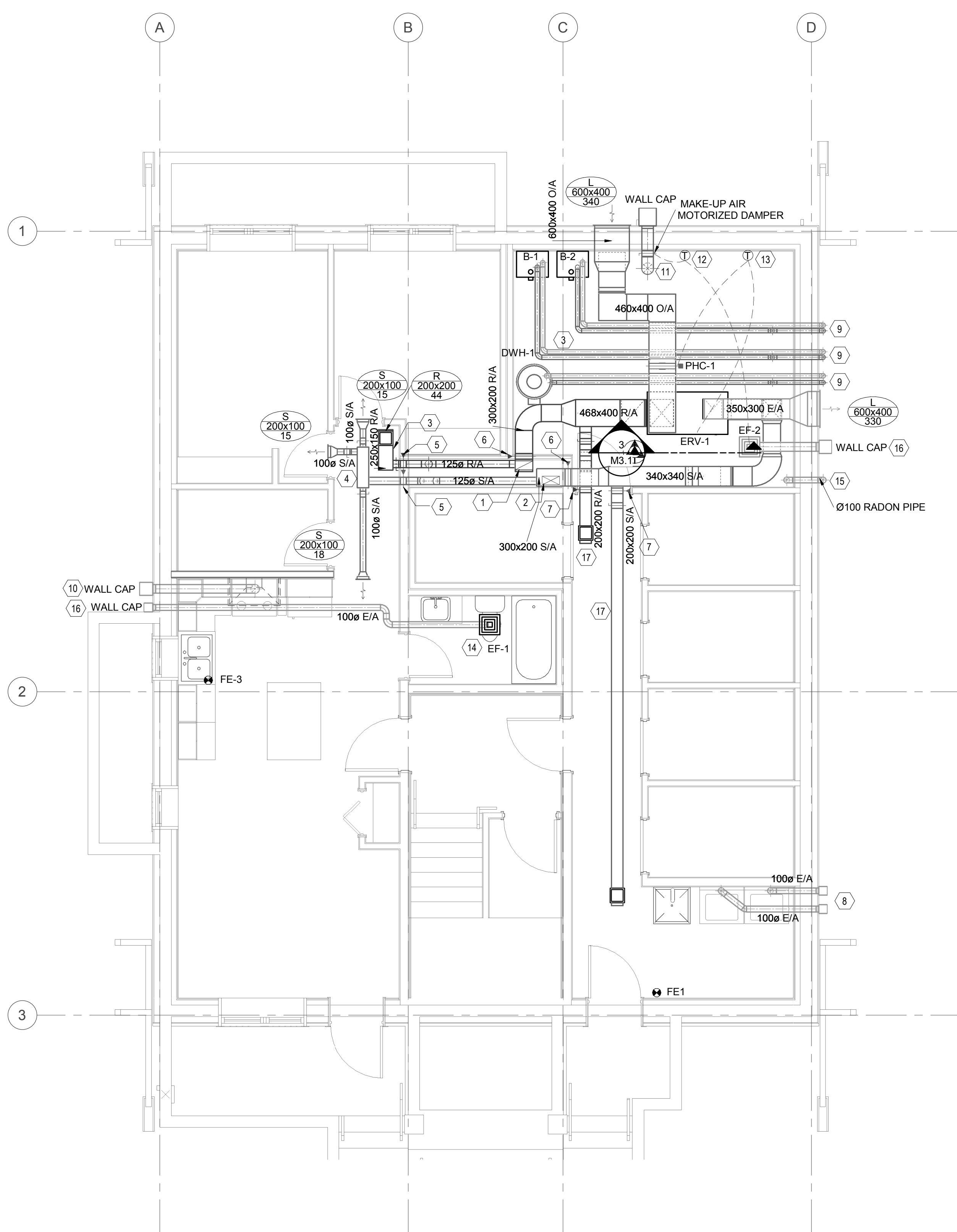
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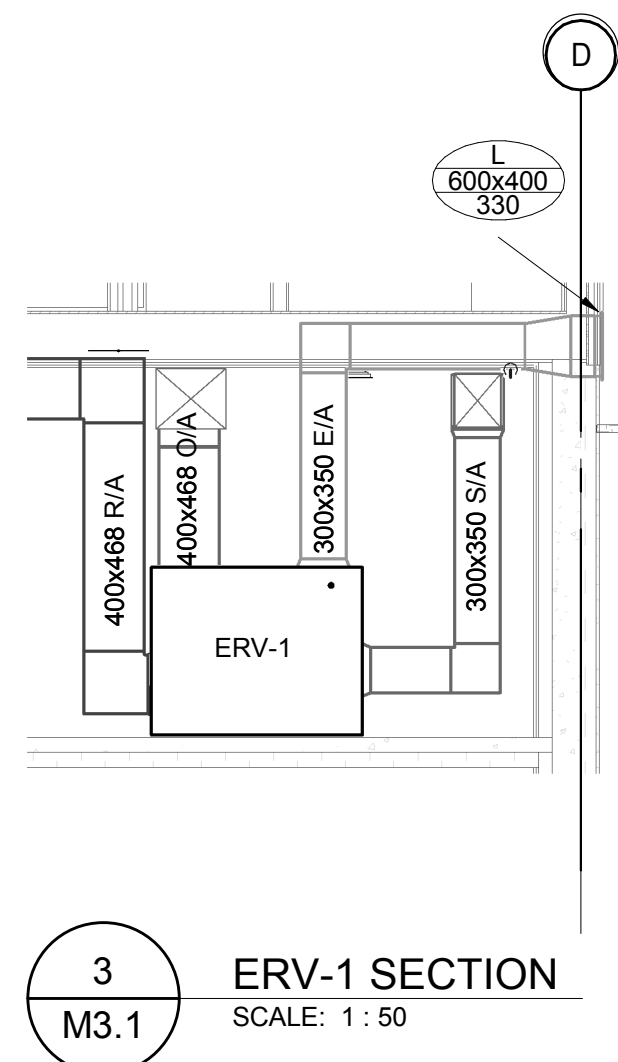
Drawing Title Titre du dessin

LOWER LEVEL AND MAIN FLOOR
VENTILATION PLAN

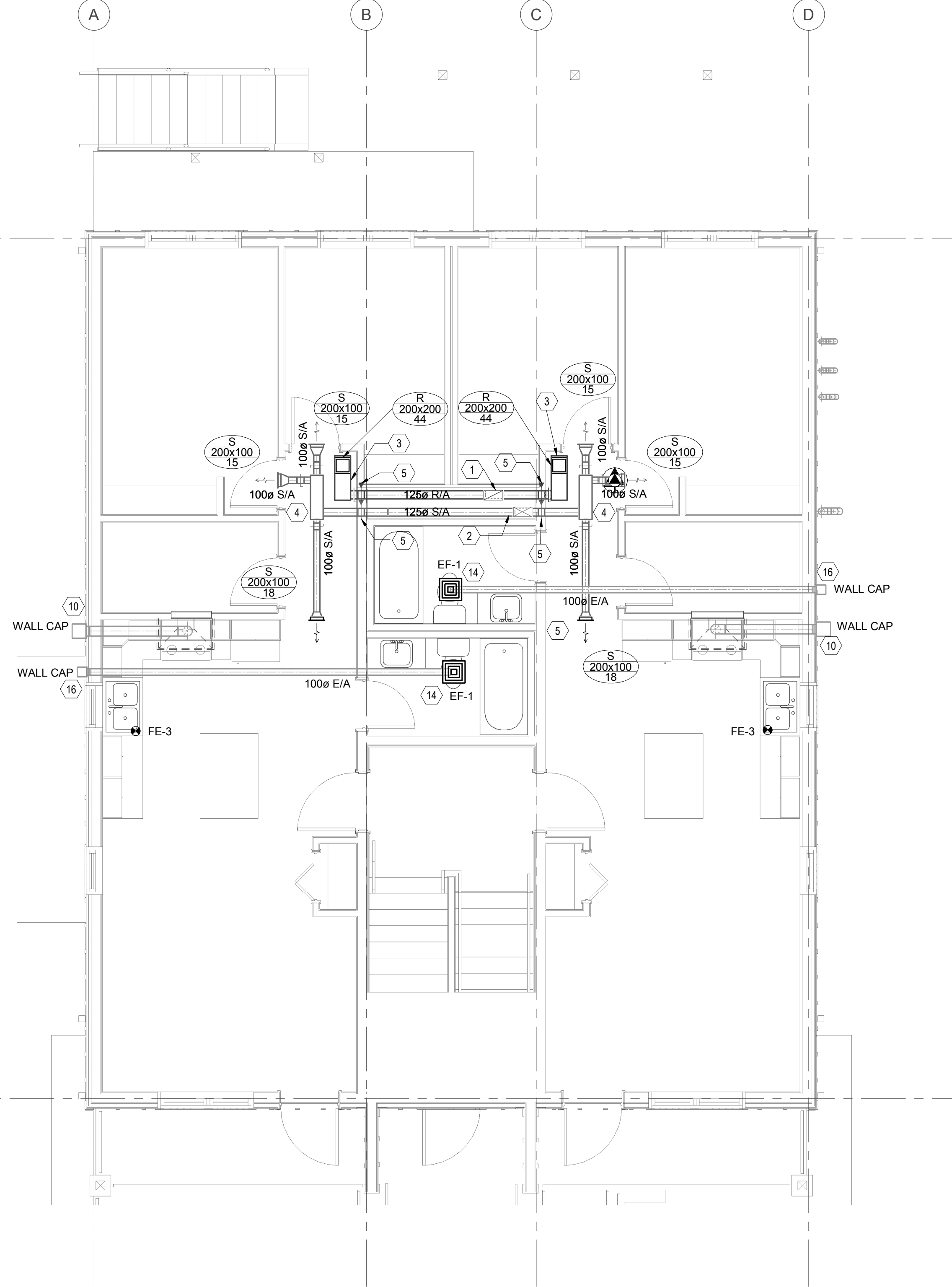
Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.100429.001	M3.1 OF	4



1
M3.1
LOWER LEVEL VENTILATION PLAN
SCALE: 1 : 50



3
M3.1
ERV-1 SECTION
SCALE: 1 : 50



2
M3.1
MAIN LEVEL VENTILATION PLAN
SCALE: 1 : 50

KEYNOTES:

- 300x150 RETURN AIR DUCT WITH 25MM THICKNESS ACOUSTIC INSULATION FROM BELOW.
- 300x150 SUPPLY AIR DUCT WITH 25MM THICKNESS ACOUSTIC INSULATION FROM BELOW.
- 250x150 RETURN AIR DUCT WITH 25MM THICKNESS ACOUSTIC.
- 250x150 SUPPLY AIR DUCT WITH 25MM THICKNESS ACOUSTIC.
- 125Ø FIRE DAMPER. COORDINATE EXACT LOCATION OF ACCESS DOOR ON SITE.
- 250x150 FIRE DAMPER. COORDINATE EXACT LOCATION OF ACCESS DOOR ON SITE.
- 200x200 FIRE DAMPER. COORDINATE EXACT LOCATION OF ACCESS DOOR ON SITE.
- 2 100Ø DRYER EXHAUST THROUGH WALL WITH EXTERNAL INSULATION.
- 4@75Ø (BOILERS) AND 2@75Ø (DWH) PVC COMBUSTION AIR DUCT AND VENT FROM/TO THE BOILER/DWH TO/FROM ROOF AS PER MANUFACTURER'S RECOMMENDATIONS.
- 150Ø KITCHEN EXHAUST DUCTWORK THROUGH WALL WITH RAIN CAP AND BACKDRAFT DAMPER. EXTERNALLY INSULATE KITCHEN EXHAUST.
- 200Ø MAKE UP AIR DUCT WITH EXTERNAL INSULATION DOWN TO FLOOR WITH COLD AIR TRAP.
- REVERSE ACTING THERMOSTAT CONNECTED WITH EF-2 AND MAKE-UP AIR MOTORIZED DAMPER. WHEN MECHANICAL ROOM TEMPERATURE RISE TO SET-POINT EF-2 RUNS AND MAKE-UP AIR MOTORIZED DAMPER OPENS. REFER TO M1.2 DETAIL 10.
- ERV CONTROLLER ON WALL. SET SUPPLY AIR TEMPERATURE FOR 21°C. INTERLOCK PHC-1 WITH ERV-1.
- EF-1 IS LOCATED IN RATED CEILING. EXHAUST PIPE RUNS THROUGH JOIST SPACE TO EXTERIOR WALL. E/A DUCT WITH EXTERNAL INSULATION AND BACKDRAFT DAMPER.
- PROVIDE 100mm PVC VENT PIPE AND CAPPED FOR RADON EXTRACTION SYSTEM. REFER TO DETAIL DRAWING M2.1. CONTRACTOR TO ALLOW FOR RADON VENT PIPE TO DISCHARGE THROUGH EXTERIOR WALL, INCLUDING ALLOWANCE FOR PIPING INSULATION TO PREVENT FREEZING.
- E/A DUCT WITH EXTERNAL INSULATION AND BACKDRAFT DAMPER.
- DUCT RUNNING BELOW JOIST

HVAC GENERAL NOTES:

- SUPPLY AND INSTALL ALL FIRE STOPPING MATERIAL AND ENSURE THAT ALL FIRE PENETRATIONS ARE PROTECTED AS REQUIRED BY THE NATIONAL BUILDING CODE AND THE LOCAL AUTHORITIES.
- ALL WASHROOM FANS ARE TO BE LOCATED IN THE CEILING. COORDINATE EXACT LOCATION OF ALL FANS AND ASSOCIATED DUCTWORK ON SITE.
- ALLOW FOR WALL CAPS AT ALL DUCTWORK ON EXTERIOR WALLS AS REQUIRED.
- AIR BALANCING DAMPERS TO BE PROVIDED FOR ALL BRANCH DUCTWORK FEEDING INDIVIDUAL AIR TERMINALS.
- ENSURE ALL DUCTWORK EXTENDING TO EXTERIOR OF BUILDING IS INSULATED.
- INSTALL 100mm THICK HOUSEKEEPING PAD UNDER ALL MECHANICAL EQUIPMENT IN MECHANICAL ROOM. COORDINATE WITH GENERAL CONTRACTOR.
- INSTALL ALL WALL CAPS, EXHAUST OR INTAKE LOUVERS AT THE EXTERIOR WALLS 450mm ABOVE THE FLOOR LEVEL.
- PROVIDE DAMPERS ON AIR INTAKES AND EXHAUSTS TO NATIONAL ENERGY CODE REQUIREMENTS.