



APEGA PERMIT TO PRACTICE NO. 11944  
06/03/2020

**NORR**

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Revision	Description	Date
5	ISSUED FOR CONSTRUCTION 2	2020/03/06
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	2019/03/14

Revision	Description	Date
Client		client

PSPC

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

Project Title / Titre du projet  
JASPER STAFF HOUSING CONSTRUCTION

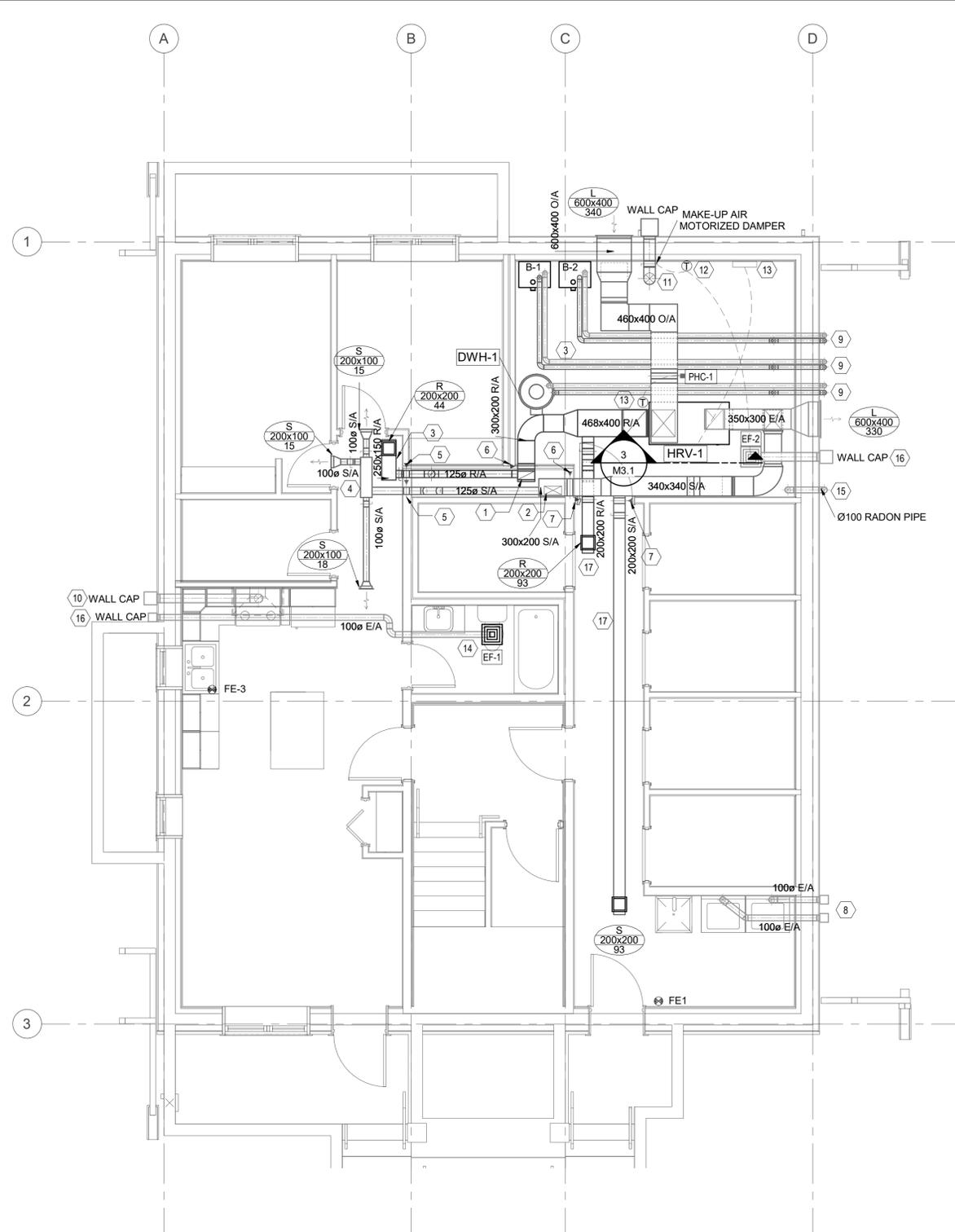
5 PLEX

902 PATRICIA STREET  
JASPER, AB, T0E 1E0

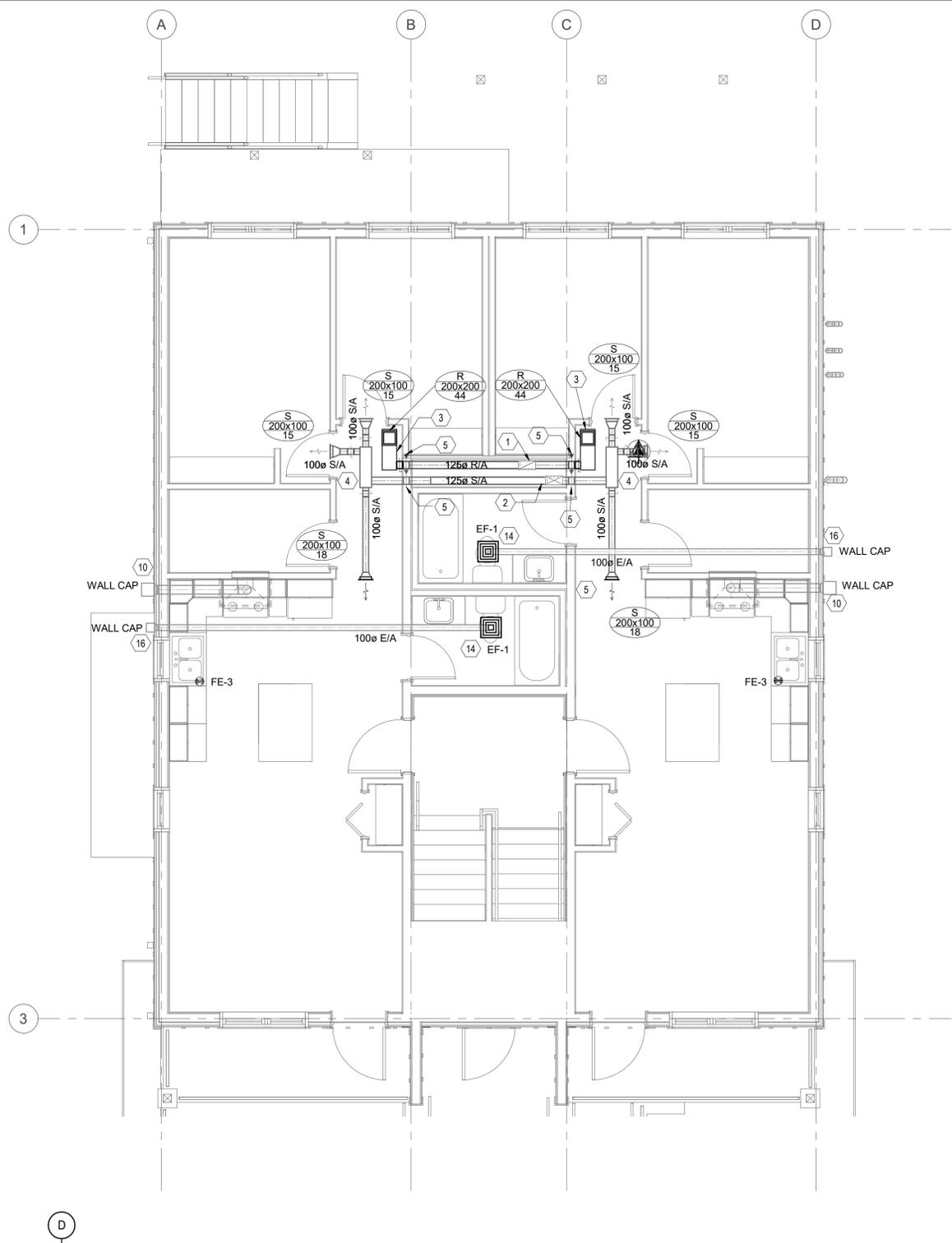
Designed by / Conçu par	Drawn by / Dessiné par	Approved by / Approuvé par
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PSPC Project Manager / Administrateur de Projets TP502 ROB HAFER		
Drawing Title / Titre du dessin	LOWER LEVEL AND MAIN FLOOR VENTILATION PLAN	

LOWER LEVEL AND MAIN FLOOR VENTILATION PLAN

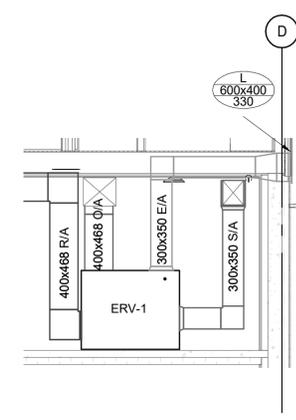
Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.100429.001	M3.1	5
	OF	



**1 LOWER LEVEL VENTILATION PLAN**  
SCALE: 1 : 50



**2 MAIN LEVEL VENTILATION PLAN**  
SCALE: 1 : 50



**3 ERV-1 SECTION**  
SCALE: 1 : 50

**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.

**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.
- 300x200 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.
- 75Ø COMBUSTION AIR DUCT AND VENT FROM TO THE BOILER/DWH TO/FROM EXTERIOR WALL 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.
- HRV CONTROLLER ON WALL. PHC-1 TO BE CONTROLLED BY DUCT MOUNTED DISCHARGE AIR TEMP. SENSOR.
- 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 DRAWING M2.1. CONTRACTOR TO ALLOW FOR RADON VENT PIPE TO DISCHARGE THROUGH EXTERIOR WALL. INCLUDING ROUGH-IN PIPING FOR RADON EXHAUST FAN RD-1 TO BE INSTALLED IN MECHANICAL ROOM. INCLUDING ALLOWANCE FOR PIPING INSULATION TO PREVENT FREEZING.
- E/A DUCT WITH EXTERNAL INSULATION AND BACKDRAFT DAMPER.
- DUCT RUNNING BELOW JOIST

