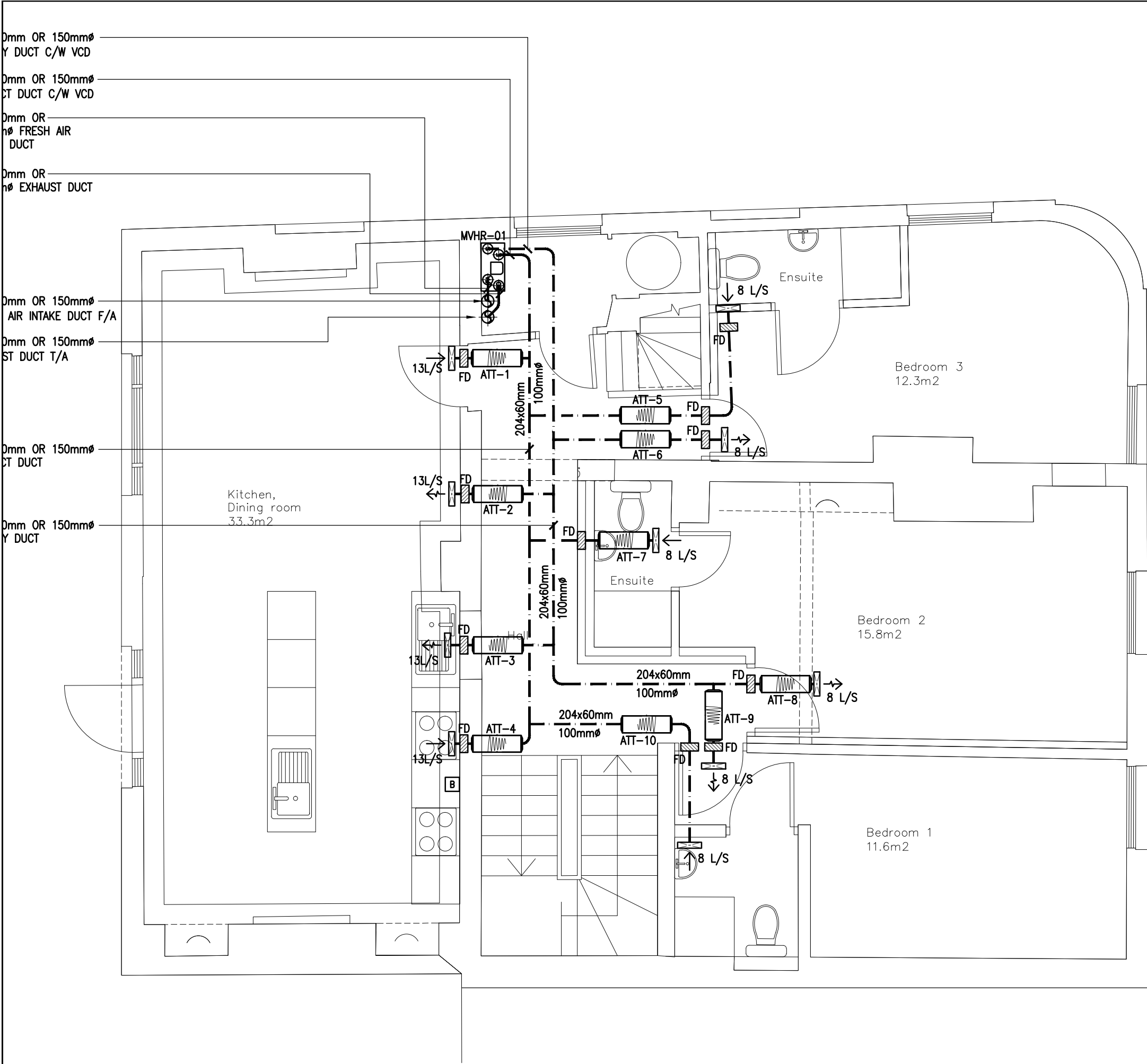
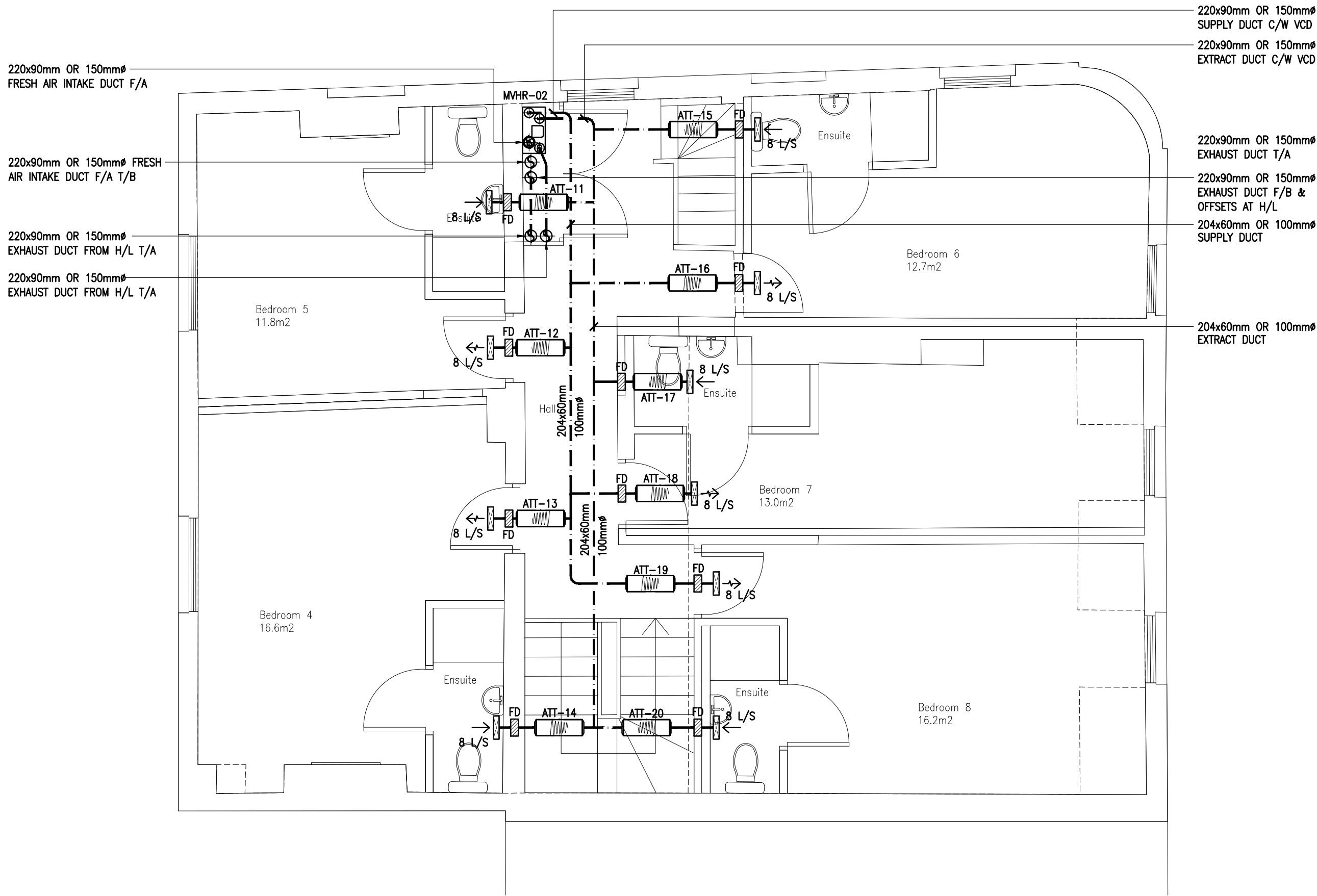
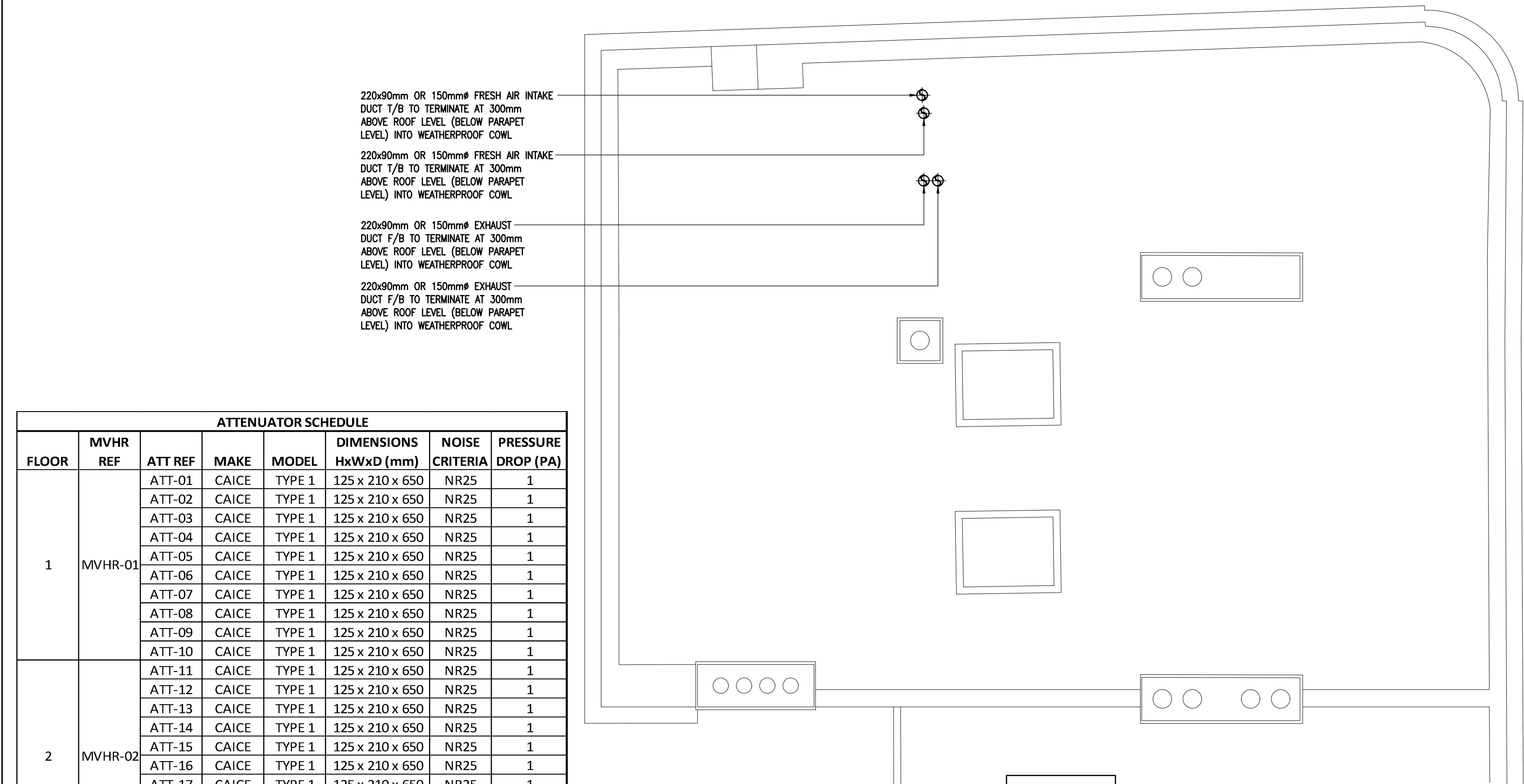




FIRST FLOOR

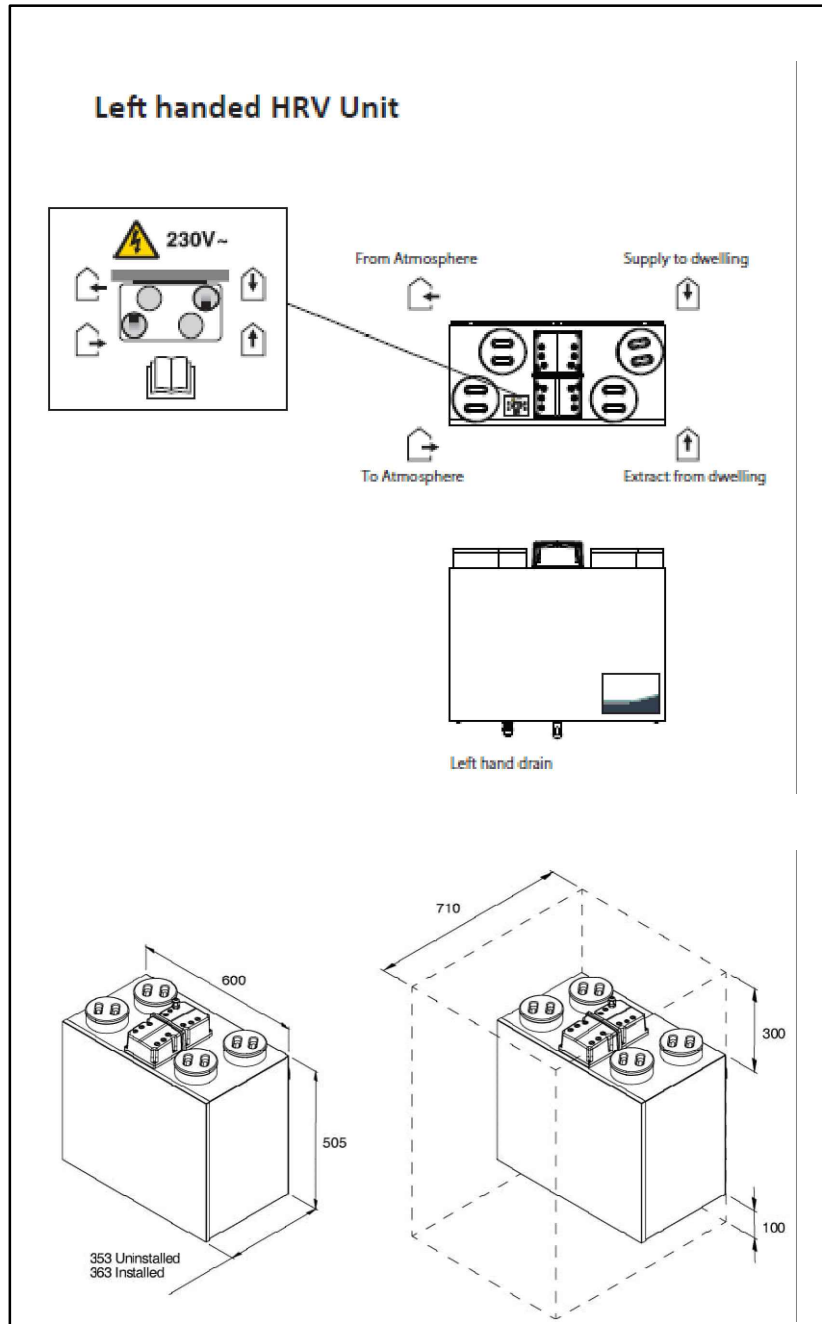


SECOND FLOOR



ROOF LEVEL

ATTENUATOR SCHEDULE						
FLOOR	MVHR REF	ATT REF	MAKE	MODEL	DIMENSIONS HxWxD (mm)	NOISE CRITERIA
1	MVHR-01	ATT-01	CAICE	TYPE 1	125 x 210 x 650	NR25
		ATT-02	CAICE	TYPE 1	125 x 210 x 650	NR25
		ATT-03	CAICE	TYPE 1	125 x 210 x 650	NR25
		ATT-04	CAICE	TYPE 1	125 x 210 x 650	NR25
		ATT-05	CAICE	TYPE 1	125 x 210 x 650	NR25
		ATT-06	CAICE	TYPE 1	125 x 210 x 650	NR25
		ATT-07	CAICE	TYPE 1	125 x 210 x 650	NR25
		ATT-08	CAICE	TYPE 1	125 x 210 x 650	NR25
		ATT-09	CAICE	TYPE 1	125 x 210 x 650	NR25
		ATT-10	CAICE	TYPE 1	125 x 210 x 650	NR25
2	MVHR-02	ATT-11	CAICE	TYPE 1	125 x 210 x 650	NR25
		ATT-12	CAICE	TYPE 1	125 x 210 x 650	NR25
		ATT-13	CAICE	TYPE 1	125 x 210 x 650	NR25
		ATT-14	CAICE	TYPE 1	125 x 210 x 650	NR25
		ATT-15	CAICE	TYPE 1	125 x 210 x 650	NR25
		ATT-16	CAICE	TYPE 1	125 x 210 x 650	NR25
		ATT-17	CAICE	TYPE 1	125 x 210 x 650	NR25
		ATT-18	CAICE	TYPE 1	125 x 210 x 650	NR25
		ATT-19	CAICE	TYPE 1	125 x 210 x 650	NR25
		ATT-20	CAICE	TYPE 1	125 x 210 x 650	NR25



THE INDIVIDUAL APARTMENTS SHALL BE PROVIDED WITH INDEPENDENT MECHANICAL VENTILATION HEAT RECOVER (MVHR) UNIT WITHIN EACH APARTMENT. THE FLOW RATES SHALL BE IN ACCORDANCE WITH BUILDING REGULATION PART F – VENTILATION AND AS LISTED BELOW;

MINIMUM LOW RATE TO BE 0.3 L/SEC PER M² FLOOR AREA OR DETERMINED FROM DWELLING SIZE AS FOLLOWS, WHICHEVER IS THE GREATER:

- 1 BED UNITS 19 L/SEC
- 2 BED UNITS 25 L/SEC
- 3 BED UNITS 31 L/SEC
- 4 BED UNITS 37 L/SEC
- 5 BED UNITS 43 L/SEC

FOR EACH ADDITIONAL BEDROOM, ADD 6 L/SEC

MINIMUM HIGH RATE TO BE DETERMINED FROM TOTTALLING FLOW RATES FROM WET ROOMS:

- KITCHENS 13 L/SEC
- UTILITIES 8 L/SEC
- BATHROOMS 8 L/SEC
- TOILETS 6 L/SEC
- UTILITY CUPBOARDS 8 L/SEC

THE MVHR UNIT SHALL COMPRISE OF A HUMIDISTAT AND TIMER WHILE OPERATING CONTINUOUSLY WITH THE BOOST AND OVERRUN TIMER ADJUSTABLE BETWEEN 0–30 MINUTES MANUALLY ACTIVATED VIA REMOTE SWITCH.

THIS DRAWING SHALL NOT BE RELIED UPON BY THE CONTRACTOR AS A WORKING DRAWING. THIS DRAWING HAS BEEN PRODUCED FOR DESIGN PURPOSES ONLY. ANY INSTALLATION BASED ON THIS DRAWING IS AT THE CONTRACTORS RISK.

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NOTES

- DO NOT SCALE FROM THIS DRAWING, USE FIGURED DIMENSIONS ONLY, AND CHECK ALL DIMENSIONS ON SITE.
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KEY – GENERAL:

- SERVICES AT LOW LEVEL.
- SERVICES BELOW FLOOR.
- SERVICES IN CEILING VOID.
- SERVICES IN VERTICAL (RISER).
- H/L – HIGH LEVEL. L/L – LOW LEVEL. M/L – MID LEVEL.
- F/A – FROM ABOVE. F/B – FROM BELOW.
- T/A – TO ABOVE. T/B – TO BELOW.

KEY – VENTILATION:

- FRESH AIR FROM OUTSIDE.
- SUPPLY AIR TO UNIT.
- HEAT RECOVERY VENTILATION UNIT – WHOLE HOUSE VENTILATION.
- EXTRACT AIR FROM UNIT.
- EXHAUST AIR TO OUTSIDE.
- HIGH LEVEL DUCTWORK.
- FIRE DAMPER.
- MVHR BOOST SWITCH.
- EXTRACT AIR CIRCULAR DIFFUSER C/W VCD.
- SUPPLY AIR CIRCULAR DIFFUSER C/W VCD.
- SUPPLY AIR TERMINAL C/W FIRE DAMPER.
- VOLUME CONTROL DAMPER.
- ATTENUATOR.

KEY – VENTILATION:

ALL ENSUITE DOORS TO BE UNDERCUT & PROVIDE 7600mm² FREE AREA.

BACKGROUND VENTILATION @ 0.3 l/s/m²
12m(L)x8.5m(W) = 102m² x 2 FLOORS = 204m²
61.2 l/s THEREFORE IS 62 l/s

WHOLE DWELLING VENTILATION RATE
BATHROOM @ 8 l/s x 8 = 64 l/s
KITCHEN @ 13 l/s x 2 = 26 l/s
90 l/s

- 2 No. MVHR (1 No. PER FLOOR)
- TITON MVHR HRV 1.6 Q PLUS C/W SUMMER BY PASS
- (FA) FRESH AIR INTAKE (EA) EXHAUST AIR TERMINALS TO BE 1000mm APART

P5	08.04.24	EL	DB	PRELIMINARY ISSUE
P4	06.02.24	RAD	DB	PRELIMINARY ISSUE
P3	08.11.23	RAD	DB	PRELIMINARY ISSUE
P2	23.10.23	RAD	DB	PRELIMINARY ISSUE
P1	17.10.23	RAD	DB	PRELIMINARY ISSUE
Rev	Date	CAD/Chkd	Description	

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Architect
PROUN ARCHITECTS LTD

Project
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GRAVESEND
KENT, DA11 0NP**

Drawing
**GROUND, FIRST & ROOF
VENTILATION SERVICES
LAYOUTS**

Scale 1:50	Size A1	Engineer DB	Date OCT '23
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Drawing No. 2997-57-00	Rev P5
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