

GENERAL NOTES

- DO NOT SCALE FROM THIS DRAWING.
- POSITIONS OF ALL FITTINGS ARE INDICATIVE ONLY.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT SPECIFICATIONS.

VENTILATION NOTES

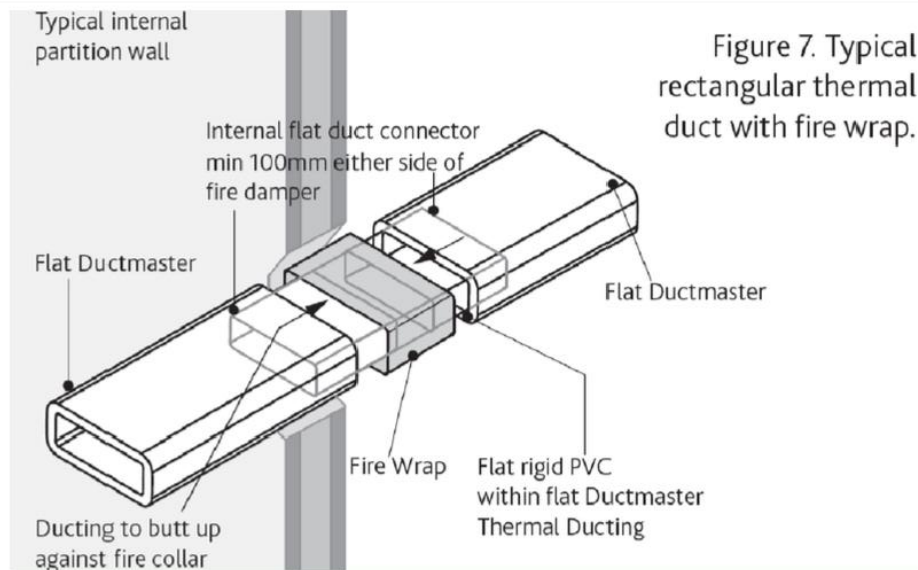
- ALL DUCTWORK SHALL BE MANUFACTURED IN RIGID PLASTIC & SHALL BE MANUFACTURED IN ACCORDANCE WITH THE DOMESTIC VENTILATION COMPLIANCE GUIDE.
- FIRE SLEEVES / INTUMESCENT FIRE COLLARS SHALL BE PROVIDED WHERE DUCTWORK PASSES THROUGH ANY FIRE RATED STRUCTURE PLEASE REFER TO FIRE REPORT / ARCHITECTURAL DRAWINGS FOR FURTHER DETAILS OF FIRE RATED WALLS / SLABS ETC.
- FLEXIBLE DUCTWORK SHALL BE USED FOR FINAL CONNECTIONS ONLY. NO FLEXIBLE DUCTWORK SHALL BE MORE THAN 500mm IN LENGTH. FLEXIBLE DUCTWORK SHALL BE ACOUSTIC TYPE ON MVHR CONNECTIONS.
- THE DUCTWORK SUB-CONTRACTOR SHALL PROVIDE AN INSULATED PLENUM BOX TO ALLOW FOR TRANSFORMATION OF THE RIGID PLASTIC DUCTWORK TO THE EXTERNAL LOUVER.
- EXTERNAL LOUVER CONNECTION TO BE AS PER ARCHITECTS DETAILS.
- THE DUCTWORK SUB-CONTRACTOR SHALL ALLOW FOR A VISUAL SITE SURVEY OF THE BUILDING STRUCTURE PRIOR TO FABRICATION OF DUCTWORK.
- THERMAL INSULATION SHALL BE APPLIED TO INTAKE AND EXHAUST DUCTWORK AS A MINIMUM.
- BATHROOM / WC DOORS SHALL BE UNDERCUT TO PROVIDE VENTILATION AIR PATH ROUTES.
- MVHR CONNECTIONS TO BE CIRCULAR DUCTWORK TO CEILING VOID AND SLIM DUCT WITHIN CEILING VOID.

AV	AIR VALVE	EL	ARCHITECTURAL LOUVER (0.03m ² Free Area Minimum)
S	SUPPLY	DFA	DROP FROM ABOVE
E	EXTRACT	DTB	DROP TO BELOW
FA	FRESH AIR INTAKE	MVHR	MECHANICAL VENT WITH
EX	EXHAUST	CV	HEAT RECOVERY
EF	EXTRACT FAN		CEILING VOID

IMAGE OF MVHR INCORPORATING COOKER HOOD



FIRE WRAP IN RECTANGULAR SLIM LINE DUCTWORK



04	ST	18.05.23	STAGE 3 - PLANNING COMMENTS INCORPORATED
03	ST	24.03.23	STAGE 3 - COMMENTS INCORPORATED
02	ST	01.03.23	STAGE 3 - COMMENTS INCORPORATED
01	ST	16.02.23	STAGE 3 - PRELIMINARY
REVCHK	DATE	DESCRIPTION	



AURA Technical Services Ltd.
97 Alderley Road
Wilmslow
SK9 1PT

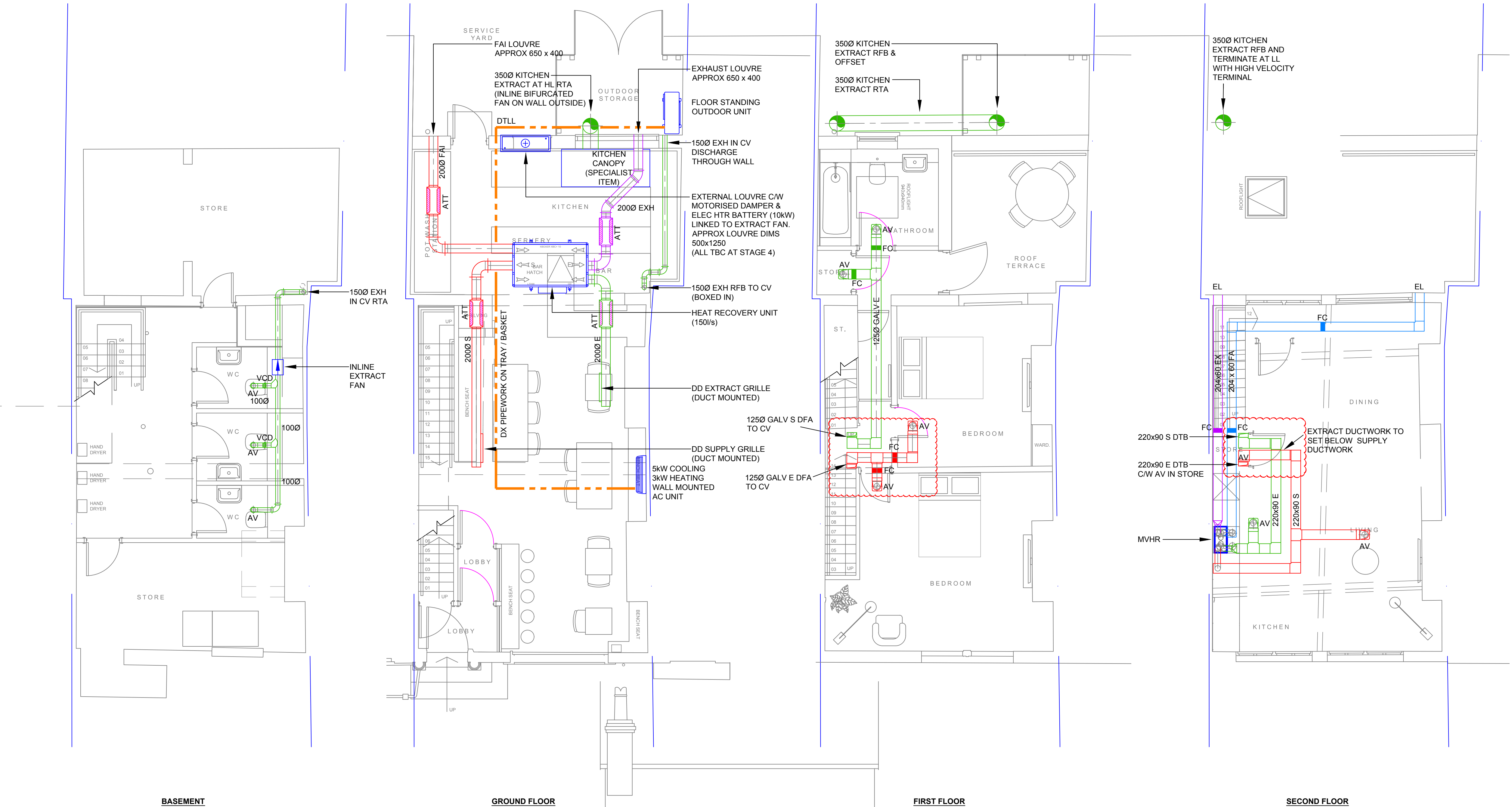
www.auratechnicalservices.co.uk

Drawn: DC	Chkd: ST	App: RC	A1
Date: MAY'23	Scale: 1:50		

Project:
33 THOMAS STREET

Drawing
MECHANICAL SERVICES
VENTILATION & AIR CONDITIONING LAYOUT
ALL FLOORS

Drawing No:	BAC001-AUR-ZZ-ZZ-DR-5701	Rev:	P04
-------------	--------------------------	------	-----

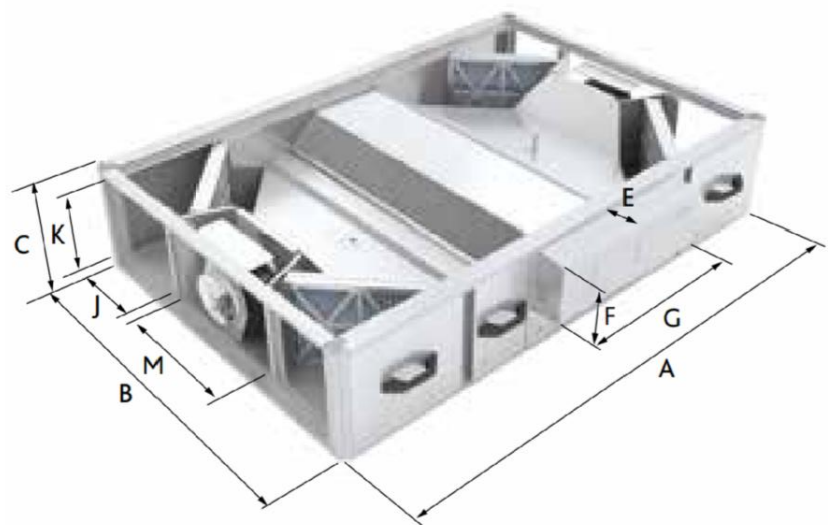
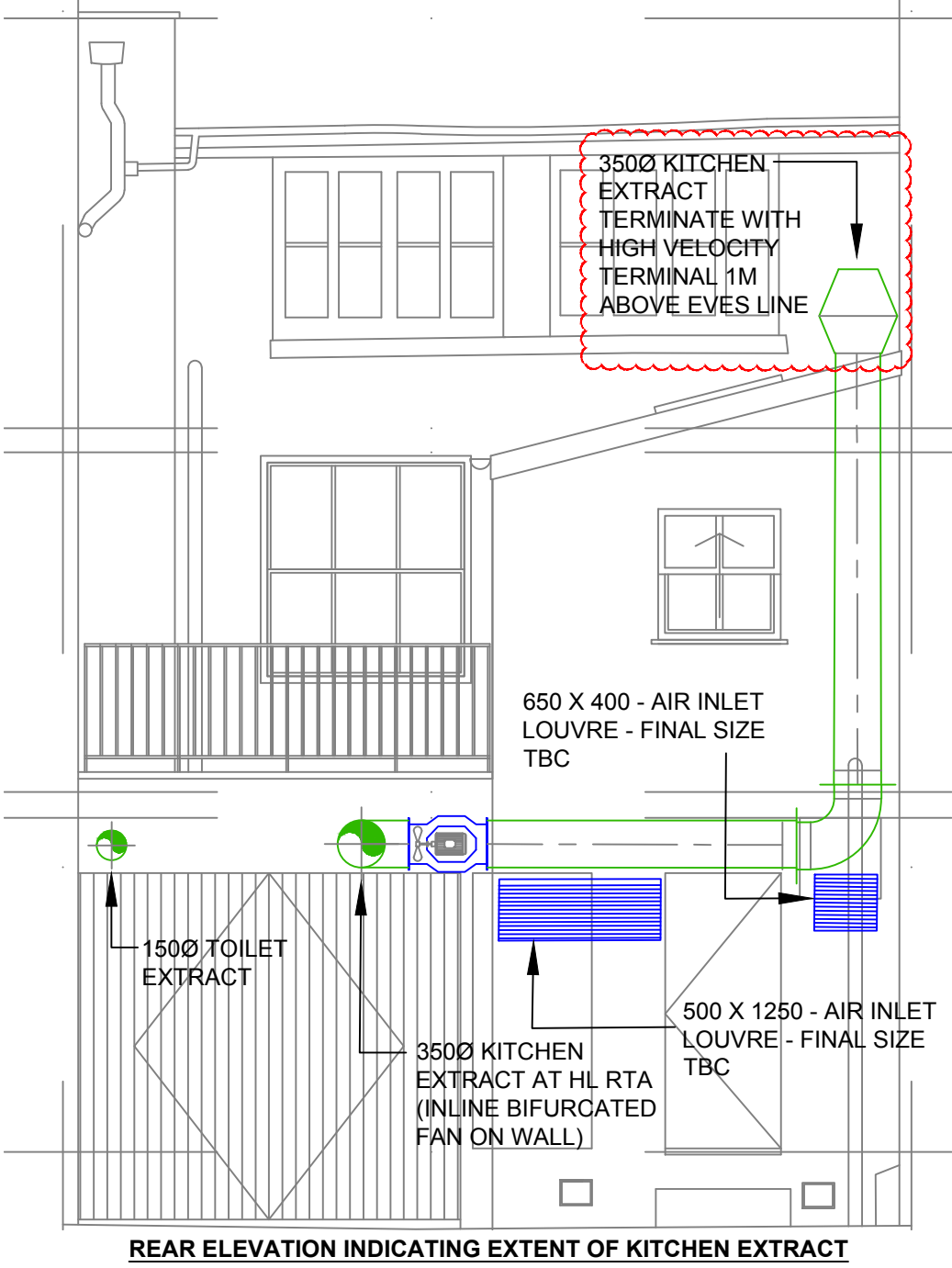


Item	Plan Size (mm)		Power	Area (m ²)	Co-efficient Factor	Flow Rate (m ³ /s)
4 Burner Range & Oven	800	750	Elec	0.60	0.30	0.180
Fryer	400	780	Elec	0.31	0.45	0.140
Counter	2000	870	-	1.74	0.03	0.052
Theoretical Extract Flow Rate						0.373
Canpopy Factor (Wall Mounted Open Both Ends)						1.250
Specific extract flow rate required						0.466

DW 172 Calc - 33 Thomas st
16/02/2023
Aura

Supply Duct Size (From AHU)
Extract Duct Size (To AHU) 350Dia
Supply Spigot Size (2No.)
Extract Spigot Size (1No.) 350Dia

Assumes Supply via motorised damper c/w elec heater battery linked to extract fan.
Kitchen Specialist to confirm Kitchen equipment
Duties to be confirmed at Stage 4



Fan Unit Dimensions (mm)		
A	B	C
1600	1000	260

GROUND FLOOR HEAT RECOVERY UNIT ESTIMATED DIMENSIONS (BASED ON NUAIRE XBC10)

GROUND FLOOR HEAT RECOVERY UNIT ESTIMATED DIMENSIONS (BASED ON NUAIRE XBC10)



INTERNAL CAFE AC UNIT