

VENT AXIA INLINE FAN TO WC WITH
OVERRUN & 234x29 mm FLAT DUCT
RUNS TO AIRBRICK ADAPTOR (15 l/s)

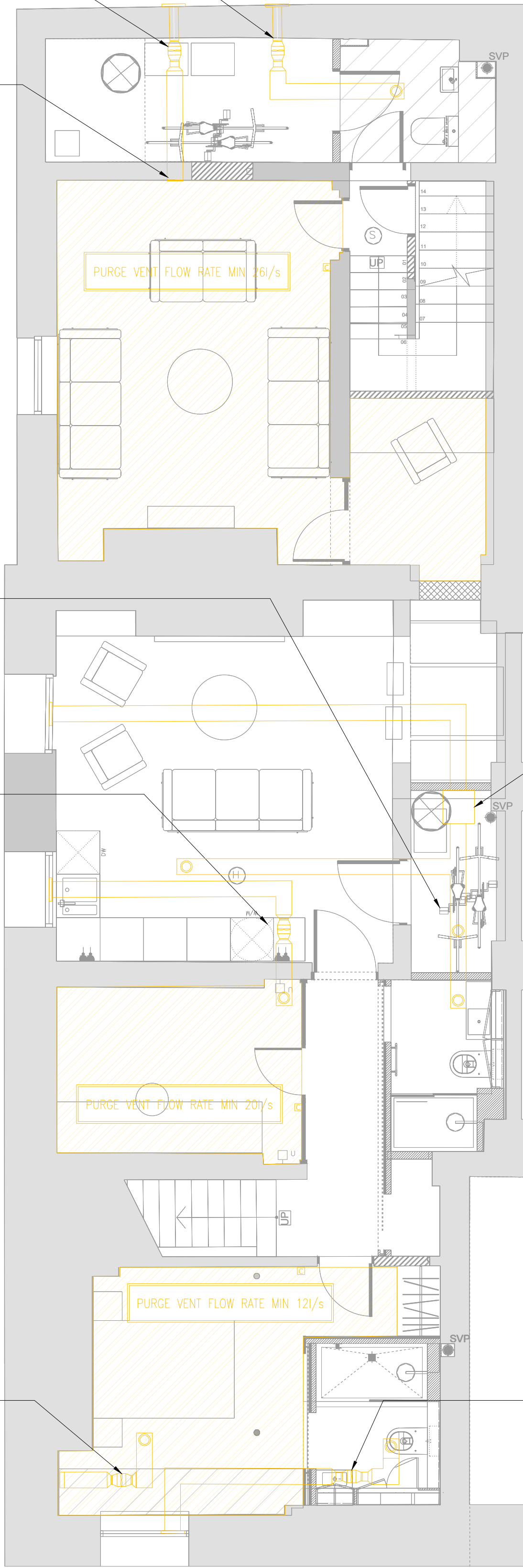
VENT AXIA COOLBOX NRB 20
FAN WITH PURGE SWITCH & 220x60
mm FLAT DUCT RUNS TO AIRBRICK
ADAPTOR

WALL MOUNTED EXTRACT GRILLE

VENT AXIA INLINE FAN TO WC WITH
OVERRUN & 220x60 mm FLAT DUCT
RUNS TO AIRBRICK ADAPTOR

VENT AXIA COOLBOX NRB 20
FAN WITH PURGE SWITCH &
220x60mm DUCT RUNS TO VENT
ABOVE WINDOWS

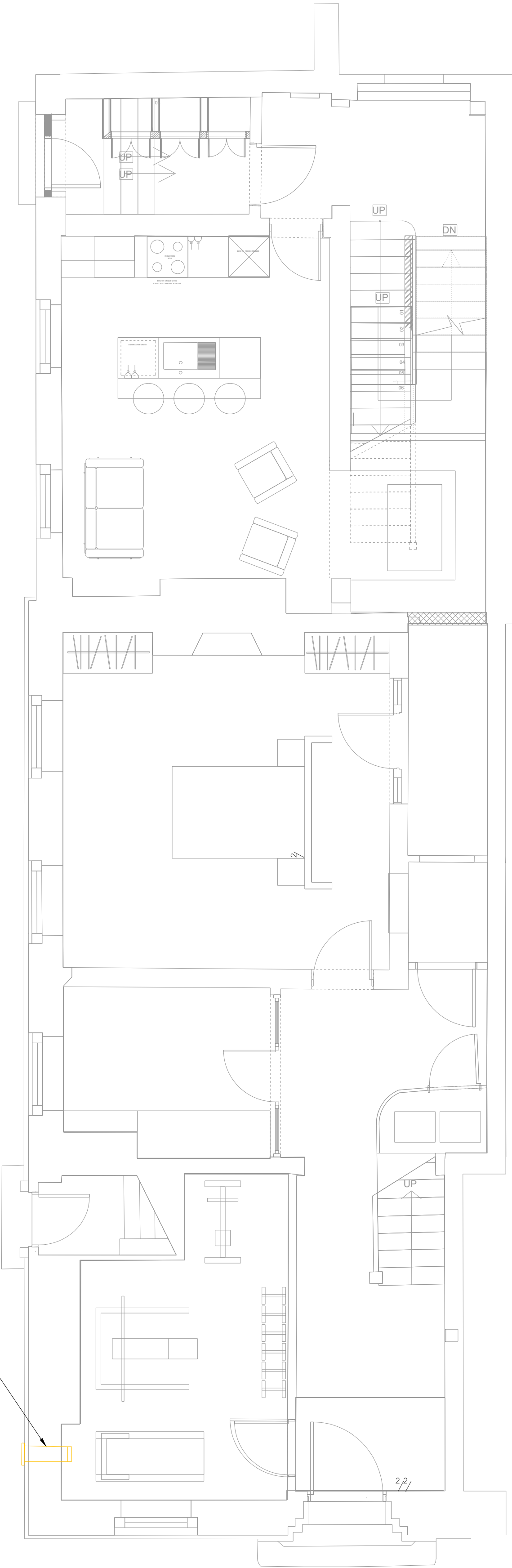
VENT AXIA COOLBOX NRB 20
FAN WITH PURGE SWITCH &
220x60mm DUCT RUNS TO VENT,
VENT RISES TO ABOVE FLOOR



VENT AXIA CMEV TO WC / UTILITY &
KITCHEN 220x60 mm FLAT DUCT RUNS
TO AIRBRICK ADAPTOR (MIN 29 l/s)

VENT AXIA INLINE
FAN WITH 234x29mm DUCT RUNS TO
VENT ABOVE WINDOWS

FLAT DUCT FROM BELOW TO H/L &
INTO AIRBRICK



Notes:

- This drawing is subject to copyright and is not to be reproduced in part or whole without approval.
- Do not scale this drawing - check all dimensions on site.
- This drawing shall be read in conjunction with the project specification(s) and all other contract documentation.
- All dimensions are in millimetres unless otherwise stated.
- Location of all equipment shown shall be confirmed/approved with the Client/Architect/Engineer prior to any installation.
- This drawing must be read in conjunction with Mechanical and Electrical performance specifications and all other drawings as issued by the Architect, Structural Engineer and Watt Energy and Consulting Engineers.
- The location of equipment is typical only. The Contractor shall perform all calculations to determine the exact quantity and agree the final locations with the Architect.
- This drawing shows the intended location of building services plant and service routes in such detail as to indicate the design. The drawing does not show all components that may be necessary to provide a full working installation.
- The positions of connection points, accessories and building services items are approximate and shown for guidance to assist during the tender process.
- Fully co-ordinated drawings, Construction drawings and Builderswork drawings shall be produced by the contractor. Under no circumstances shall the tender drawings be used as installation drawings.

VENTILATION LEGEND

- SUPPLY DIFFUSER (CEILING MOUNTED)
- EXTRACT VALVE (CEILING MOUNTED)
- EXTRACT VALVE (WALL MOUNTED)
- SUPPLY DIFFUSER
- EXTRACT GRILLE
- EXTRACT FAN AS VENT AXIA LO-CARBON MULTIVENT MVDC-MS OR EQUAL AND APPROVED
- RE-CIRCULATION OVER HOB EXTRACT WITH LOCAL SPEED CONTROLLER AND CARBON FILTRATION
- VENTILATION BOOST SWITCH
- UNDERCUT DOOR
- 300 X 300 ACCESS HATCH
- EXHAUST TERMINAL IN ROOF
- ATTENUATOR
- EXTRACT FAN
- FIRE DAMPER
- VOLUME CONTROL DAMPER
- SUPPLY DIFFUSER
- EXTRACT DIFFUSER

P2	09/05/24	AMENDED TO SUIT COMMENTS / SITE CHANGES	PR
P1	18/03/24	PRELIMINARY ISSUE	PR
Rev:	Date:	Status/Amendments:	By:



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Client:

LEASING OPTIONS LTD

Project:
28 ST JOHNS, MANCHESTER

Drawing Title:
MECHANICAL SERVICES
VENTILATION LAYOUT
BASEMENT & GROUND FLOOR

Drawn By: PR	Checked By: DW	Cad By: DK
Scale: 1:50	Paper Size: A1	Date Created: 13/03/2024
Drawing Number: WECE / 399 / M / 300	Drawing Revision: P2	

WE&CE DRAWINGS ARE FOR DESIGN INTENT ONLY.
THE MEP CONTRACTOR IS RESPONSIBLE FOR THE
FINAL INSTALLATION DRAWINGS INCLUDING ALL
SETTING OUT, DIMENSIONS, ALIGNMENT AND
COORDINATION WITH THE ARCHITECTS
REQUIREMENTS.

Purge Vent Calculation - 28 St Johns Street												
Room Ref	Part F Room Assessment	Room Floor Area (sqm) excluding kitchen units and fixed furniture	Floor to ceiling height (m)	Part F Target 1/20th Window Opening Area (sqm)	Achieved Window Opening Area (sqm)	Part F Purge rate required (ACH)	Purge Shortfall from windows (ACH)	Additional Purge Fan (l/s)	Purge achieved by MVHR (ACH)	Part F 4ACH Purge achieved combined Purge fan & openable windows (PASS/FAIL)	Total ACH Achieved	Notes
17.8.4 & 17.8.5	Living Room and Study	23.70	2.212	1.19	0.6720	4	1.73	26.00	1.79	PASS	4.05	
19.8.7	Living Room	19.76	2.262	0.99	1.3400	4	-1.43	0.00	0.00	PASS	5.43	No fan required
19.8.4	Study	7.81	2.262	0.39	0.0000	4	4.00	20.00	4.08	PASS	4.08	
19.8.2	Bedroom	11.42	2.262	0.57	0.3400	4	1.62	12.00	1.67	PASS	4.05	