

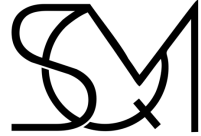


# MECHANICAL SERVICES - Kitchen Ventilation

SHOP 2, 11 ADA AVE, BROOKVALE, NSW, 2100

## Drawing List

Drawing Number	Drawing Title	Current Revision Description	Current Revision	Current Revision Date
M-000	COVER SHEET & DRAWING LIST	ISSUE FOR CONSTRUCTION	3	2024/10/21
M-001	LEGEND, NOTES, DETAILS & FAN SCHEDULE	ISSUE FOR CONSTRUCTION	2	2024/10/21
M-110	FITOUT KITCHEN VENTILATION PLAN	ISSUE FOR CONSTRUCTION	3	2024/10/21
M-120	SECTION - KITCHEN VENTILATION	ISSUE FOR CONSTRUCTION	3	2024/10/21
M-130	ELEVATION - SHOPFRONT	ISSUE FOR CONSTRUCTION	3	2024/10/21

<b>Date</b> 2024/09/05 2024/10/11 2024/10/21	<b>Issue</b> 1 2 3	<b>Description</b> PRELIMINARY ISSUE DRAWING UPDATED FOR NEW ARCH LAYOUT ISSUE FOR CONSTRUCTION	<b>Client:</b> 	<b>Architect:</b> 	<b>Mechanical Designer:</b> 	<b>Design by:</b> SJ	<b>Project:</b> Shop 2, 11 Ada Ave, Brookvale, NSW, 2100
						<b>Drawn by:</b> QD	
						<b>Checked by:</b> SJ	
						<b>Project number:</b> 800072	
						<b>Date:</b> 2024-10-21	<b>Drawing Title:</b> COVER SHEET & DRAWING LIST
						<b>Scale @ A3:</b> NTS	
						<b>Project Status:</b> ISSUE FOR CONSTRUCTION	
						<b>Drawing Number:</b> M-000	<b>Revision:</b> 3

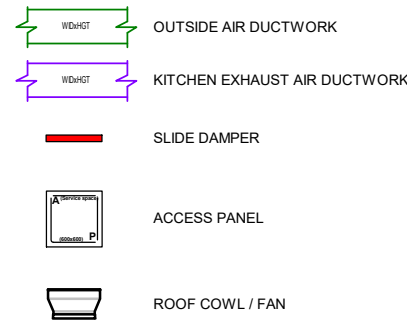
# GENERAL NOTES

THE CONTRACTOR SHALL REVIEW INTERROGATE AND SATISFY THEMSELVES THAT THE DESIGN IS ADEQUATE FOR THE PROJECT AND MEETS THE REQUIREMENTS OF;

- 1) AUSTRALIAN STANDARDS & BCA
- 2) CONSENT CONDITIONS
- 3) ARCHITECTURAL INTENT
- 4) ANY OTHER CODE OR STANDARD THAT IS APPLICABLE TO THE PROJECT

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. INFORMATION SHOWN IS FOR TENDER PURPOSES ONLY. THE CONTRACTOR SHALL CO-ORDINATE WITH ALL SERVICES ON SITE PRIOR TO MANUFACTURE AND SITE-INSTALLATION.
3. ALL DUCTWORK SHALL COMPLY WITH AS 4254 AND AS 1668 PART 1 & 2.
4. ALL DUCTWORK DIMENSIONS ARE SHEETMETAL SIZES. SIZES SHOWN IN ( ) ARE APPROXIMATE ONLY AND SHOULD BE CHECKED ON SITE WITH CONTRACTOR.
5. PROVIDE ALL SECONDARY GALVANISED STEEL SUPPORT FOR ALL SERVICES, UNLESS NOTED OTHERWISE. ALL SECONDARY SUPPORTS SHALL BE FROM LOAD BEARING ROOF, COLUMNS, BEAMS, WALLS, COLUMNS AND FLOORS ONLY.
6. SUPPORTING OF ALL DUCTING IN ACCORDANCE WITH CURRENT EARTHQUAKE CODES AND STANDARDS, WITH ALL BRACING AS REQUIRED.
7. ALL EXPOSED DUCTWORK CROSS BROKEN TO PREVENT POOLING OF WATER.
8. ALL DUCTWORK OTHER THAN EXHAUST DUCTWORK NOT IN THE CONDITIONED SPACE EXTERNALLY INSULATED UNLESS INDICATED OTHERWISE.
18. ACCESS PANELS WITHIN PLASTERBOARD CEILINGS SHALL BE POSITIONED TO SUIT THE LOCATION OF MECHANICAL SERVICES EQUIPMENT AND SHALL BE SUPPLIED AND INSTALLED BY THE BUILDING TRADE.
19. PROVIDE ACCESS PANELS IN PLASTERBOARD CEILINGS TO ENABLE ACCESS TO ALL DAMPERS, VALVES, AIR CONDITIONING UNITS, FANS ETC.
20. ADEQUATE CLEARANCE PROVIDED TO ALLOW FOR FUTURE, ONGOING MAINTENANCE AND SERVICE OF ALL INSTALLED PLANT AND EQUIPMENT.
21. PROVIDE FLANGED JOINTS ON ALL DUCTWORK EXPOSED TO VIEW. EMER PAINTS OR EQUIVALENT SHALL NOT BE USED.
22. ALL DUCTWORK SUPPORTS SHALL BE GALVANISED STEEL, INSTALLED NEAT MANNER WITH TIDY CUT ENDS.
23. PROVIDE ANODISED ALUMINUM FINISH TO AIR TERMINALS TO BE MOUNTED ON DUCTWORK.
24. ALLOW FOR ACCESS PANELS ON ALL KITCHEN EXHAUST DUCTWORK, AT CHANGE OF DIRECTIONS, AND AT EVERY 3m MAXIMUM STRAIGHT RUNS. PROVIDE TIGHT SEALS AS REQUIRED. ALLOW ALSO FOR ACCESS PANELS UPSTREAM ANDDOWNSTREAM OF CARBON AND HEPA FILTERS FOR TESTING/MAINTENANCE.
25. ALL PLANT AND EQUIPMENT INSTALLED/SUPPORTED ON APPROVED MACHINERY MOUNTS.
26. IN THE EVENT OF A FIRE SIGNAL AT THE FIP, TENANCY FAN COIL UNIT IS TO AUTOMATICALLY SHUTDOWN. ALL SYSTEMS SHALL AUTOMATICALLY RESET TO NORMAL MODE OPERATION AND CONTROL ONCE THE FIRE SIGNALS ARE CLEARED.

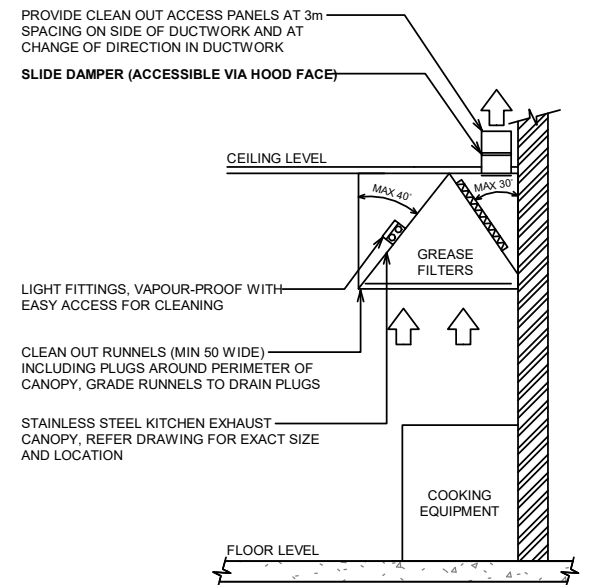
# LEGEND:



# FAN SCHEDULE:

<b>Equipment Reference</b>	<b>KEF-01</b>
Make or Equivalent	FANTECH
Model	GUE454V
Type	Gamma Ultra - Vertical
<b>Performance Details</b>	
Air Flow (l/s)	1200
Static Pressure (Pa)	300
<b>Fan Details</b>	
Diameter (mm)	450
Impeller Type	Mixed Flow
Fan Speed @ 50Hz (r/min)	1380
Input Power (kW)	1.04
Fan Weight (kg)	38.0
<b>Motor Details</b>	
Electrical Supply	240V 1ph 50Hz
Motor Frame	137
Motor Power (kW)	1.10
FLC / Start (A)	5.20/17.16
Motor Speed	4 pole
<b>Sound Levels (dBA)</b>	
63Hz	79
125Hz	83
250Hz	86
500Hz	77
1k Hz	76
2k Hz	72
4k Hz	68
8k Hz	60
Inlet dBA @ 3m	61
<b>Control</b>	VSD

# TYPICAL DETAILS:



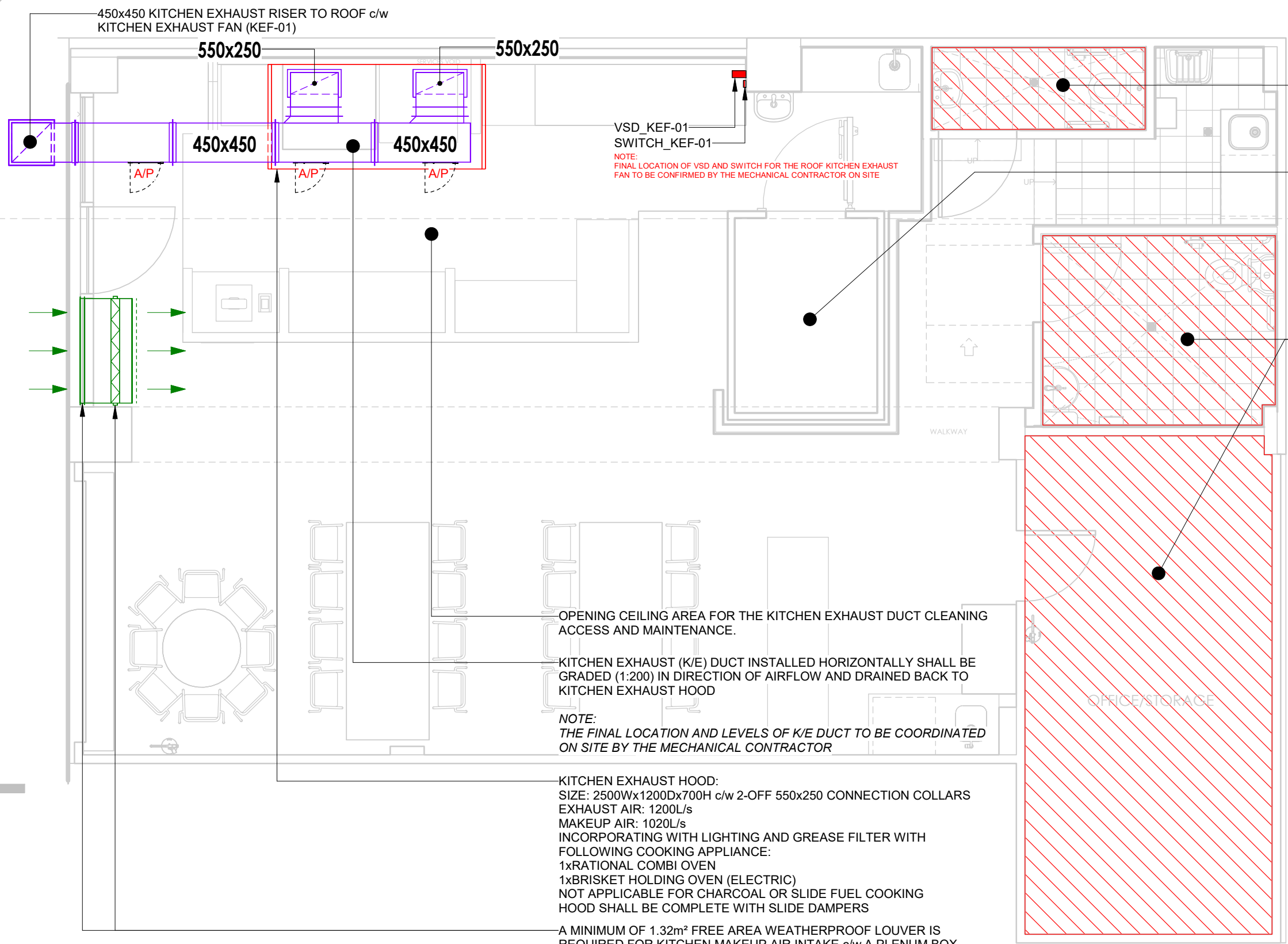
- NOTES:
1. CEILING/ROOF PENETRATION BY BUILDER.
  2. ALL SIDES OF CANOPY NOT AGAINST A WALL SHALL OVERHANG COOKING EQUIPMENT.
  3. KITCHEN EXHAUST CANOPY SUPPORT STRUCTURE BY BUILDER.

**1 KITCHEN EXHAUST HOOD CONNECT DETAILS**  
SCALE: NTS

<b>Date</b>	<b>Issue</b>	<b>Description</b>	<b>Client:</b>	<b>Architect:</b>	<b>Mechanical Designer:</b>	<b>Design by:</b>	<b>Project:</b>
2024/09/05	1	PRELIMINARY ISSUE				SJ	<b>Shop 2, 11 Ada Ave, Brookvale, NSW, 2100</b>
2024/10/21	2	ISSUE FOR CONSTRUCTION				QD	
						SJ	<b>Drawing Title:</b>
						800072	<b>LEGEND, NOTES, DETAILS &amp; FAN SCHEDULE</b>
						2024-10-21	<b>Drawing Number:</b>
						NTS	<b>M-001</b>
						<b>Project Status:</b>	<b>Revision:</b>
						<b>ISSUE FOR CONSTRUCTION</b>	<b>2</b>

1  
M-130

1  
M-120



MECHANICAL VENTILATION DESIGN FOR THIS AREA IS NOT WITHIN THE SCOPE OF WORK

NEW COOL ROOM AIR CONDITIONING SYSTEM BY OTHERS

MECHANICAL VENTILATION DESIGN FOR THESE AREAS ARE NOT WITHIN THE SCOPE OF WORK

VSD\_KEF-01  
SWITCH\_KEF-01  
NOTE:  
FINAL LOCATION OF VSD AND SWITCH FOR THE ROOF KITCHEN EXHAUST FAN TO BE CONFIRMED BY THE MECHANICAL CONTRACTOR ON SITE

OPENING CEILING AREA FOR THE KITCHEN EXHAUST DUCT CLEANING ACCESS AND MAINTENANCE.

KITCHEN EXHAUST (K/E) DUCT INSTALLED HORIZONTALLY SHALL BE GRADED (1:200) IN DIRECTION OF AIRFLOW AND DRAINED BACK TO KITCHEN EXHAUST HOOD

NOTE:  
THE FINAL LOCATION AND LEVELS OF K/E DUCT TO BE COORDINATED ON SITE BY THE MECHANICAL CONTRACTOR

KITCHEN EXHAUST HOOD:  
SIZE: 2500Wx1200Dx700H c/w 2-OFF 550x250 CONNECTION COLLARS  
EXHAUST AIR: 1200L/s  
MAKEUP AIR: 1020L/s  
INCORPORATING WITH LIGHTING AND GREASE FILTER WITH FOLLOWING COOKING APPLIANCE:  
1xRATIONAL COMBI OVEN  
1xBRISKET HOLDING OVEN (ELECTRIC)  
NOT APPLICABLE FOR CHARCOAL OR SLIDE FUEL COOKING HOOD SHALL BE COMPLETE WITH SLIDE DAMPERS

A MINIMUM OF 1.32m<sup>2</sup> FREE AREA WEATHERPROOF LOUVER IS REQUIRED FOR KITCHEN MAKEUP AIR INTAKE c/w A PLENUM BOX CONTAINING F5 FILTERS. THE PLENUM BOX SHALL BE EQUIPPED WITH A SIDE ACCESS PANEL.

Date	Issue	Description
2024/09/05	1	PRELIMINARY ISSUE
2024/10/11	2	DRAWING UPDATED FOR NEW ARCH LAYOUT
2024/10/21	3	ISSUE FOR CONSTRUCTION

Client:



Architect:



Mechanical Designer:



Design by:	SJ
Drawn by:	QD
Checked by:	SJ
Project number:	800072
Date:	2024-10-21
Scale @ A3	1:50
Project Status:	ISSUE FOR CONSTRUCTION

Project:

**Shop 2, 11 Ada Ave, Brookvale, NSW, 2100**

Drawing Title:

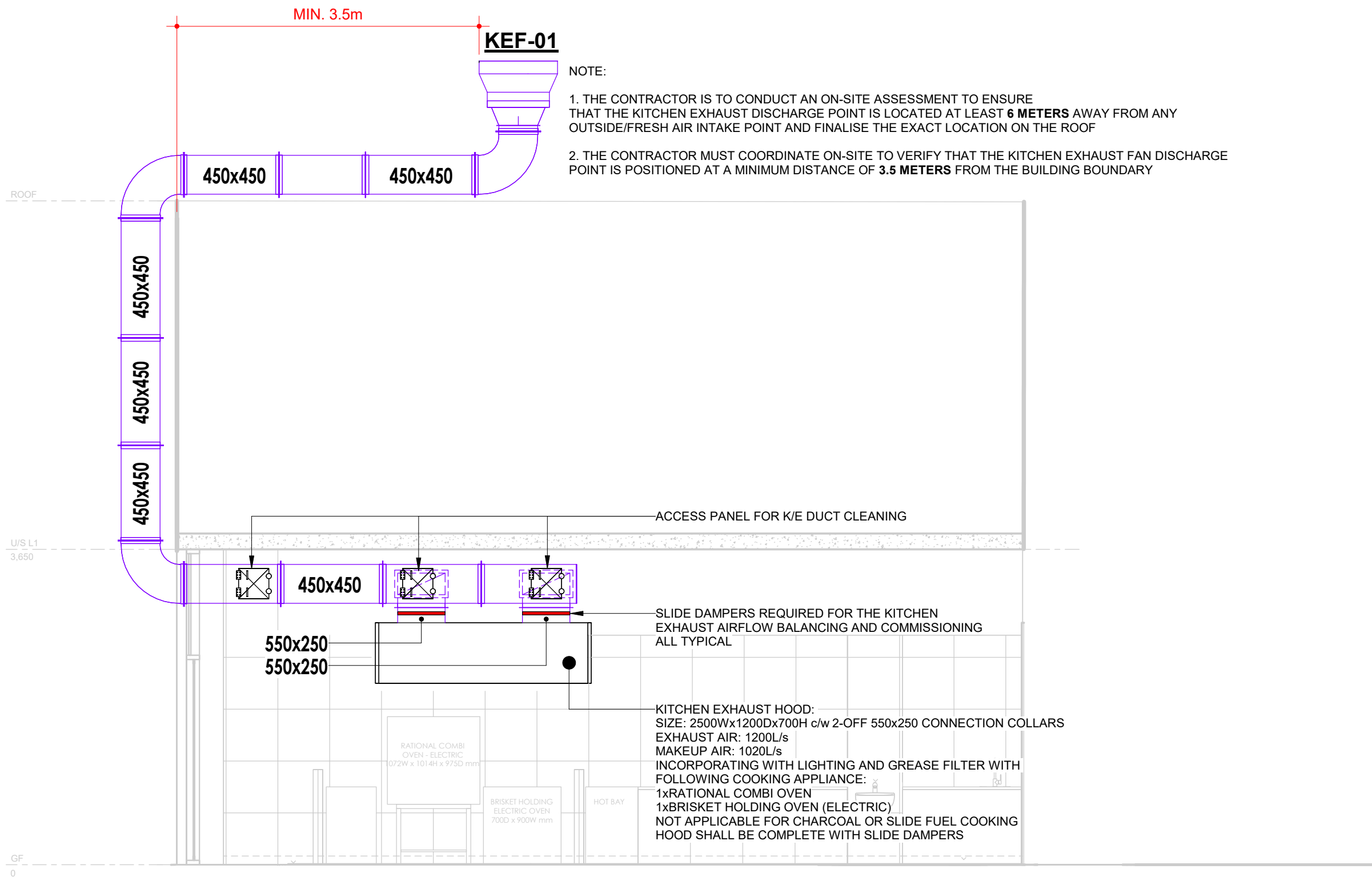
**FITOUT KITCHEN VENTILATION PLAN**

Drawing Number:

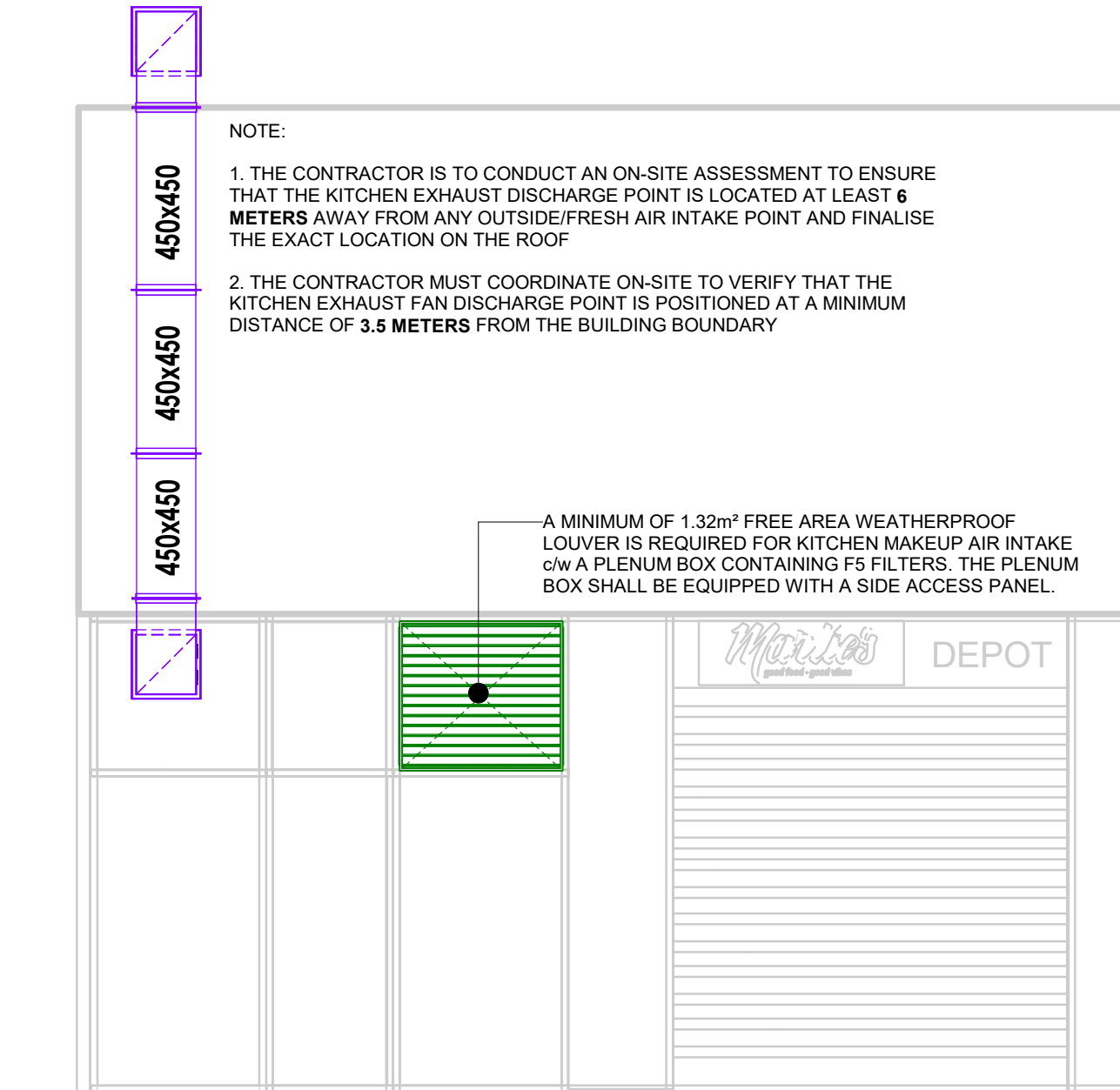
**M-110**




Revision:

**3**



Date	Issue	Description	Client:	Architect:	Mechanical Designer:	Design by:	Project:
2024/09/05	1	PRELIMINARY ISSUE				SJ	<b>Shop 2, 11 Ada Ave, Brookvale, NSW, 2100</b>
2024/10/11	2	DRAWING UPDATED FOR NEW ARCH LAYOUT				QD	
2024/10/21	3	ISSUE FOR CONSTRUCTION				SJ	
						Project number: 800072	Drawing Title:
						Date: 2024-10-21	<b>SECTION - KITCHEN VENTILATION</b>
						Scale @ A3: 1:50	Drawing Number:
						Project Status: <b>ISSUE FOR CONSTRUCTION</b>	<b>M-120</b>
							Revision: <b>3</b>



<b>Date</b>	<b>Issue</b>	<b>Description</b>	<b>Client:</b>	<b>Architect:</b>	<b>Mechanical Designer:</b>	<b>Design by:</b>	<b>Author</b>	<b>Project:</b>			
2024/09/05	1	PRELIMINARY ISSUE				Drawn by:	Checker	<b>Shop 2, 11 Ada Ave, Brookvale, NSW, 2100</b>			
2024/10/11	2	DRAWING UPDATED FOR NEW ARCH LAYOUT				Checked by:	Designer		Project number:	800072	Drawing Title:
2024/10/21	3	ISSUE FOR CONSTRUCTION				Date:	2024-10-21		Scale @ A3	NTS	<b>ELEVATION - SHOPFRONT</b>
						Project Status:	ISSUE FOR CONSTRUCTION	Drawing Number:	<b>M-130</b>	Revision:	<b>3</b>