Project Name

Yaowarat

Project Description

Kitchen Vent

Client

CKA

Project Number

S00123

Project Address

Yaowarat
Square Gardens
Manchester
M15 6AE

Site Contact:

Mobile No:

Site Specific Notes:

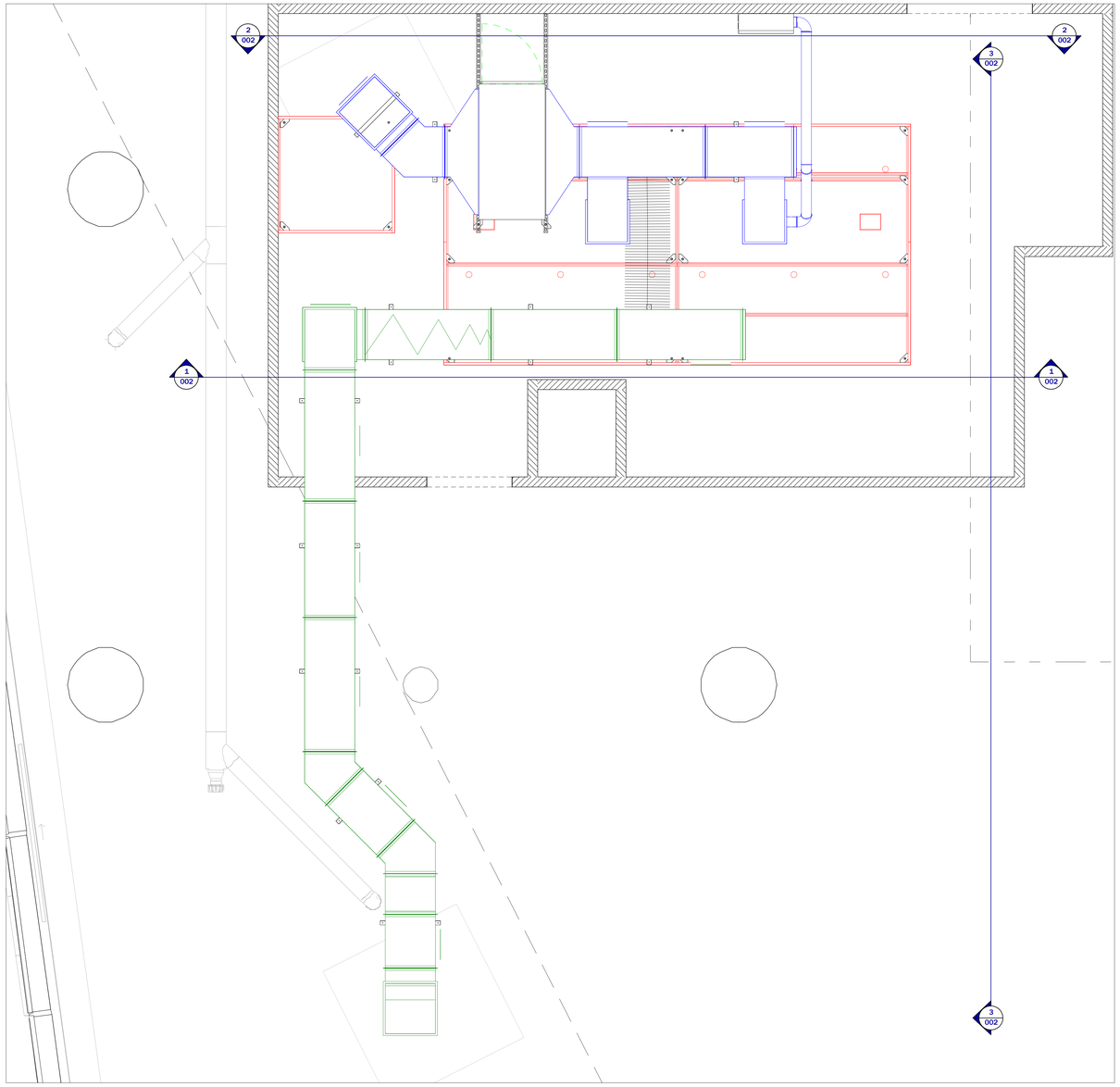


Inox Contact Details

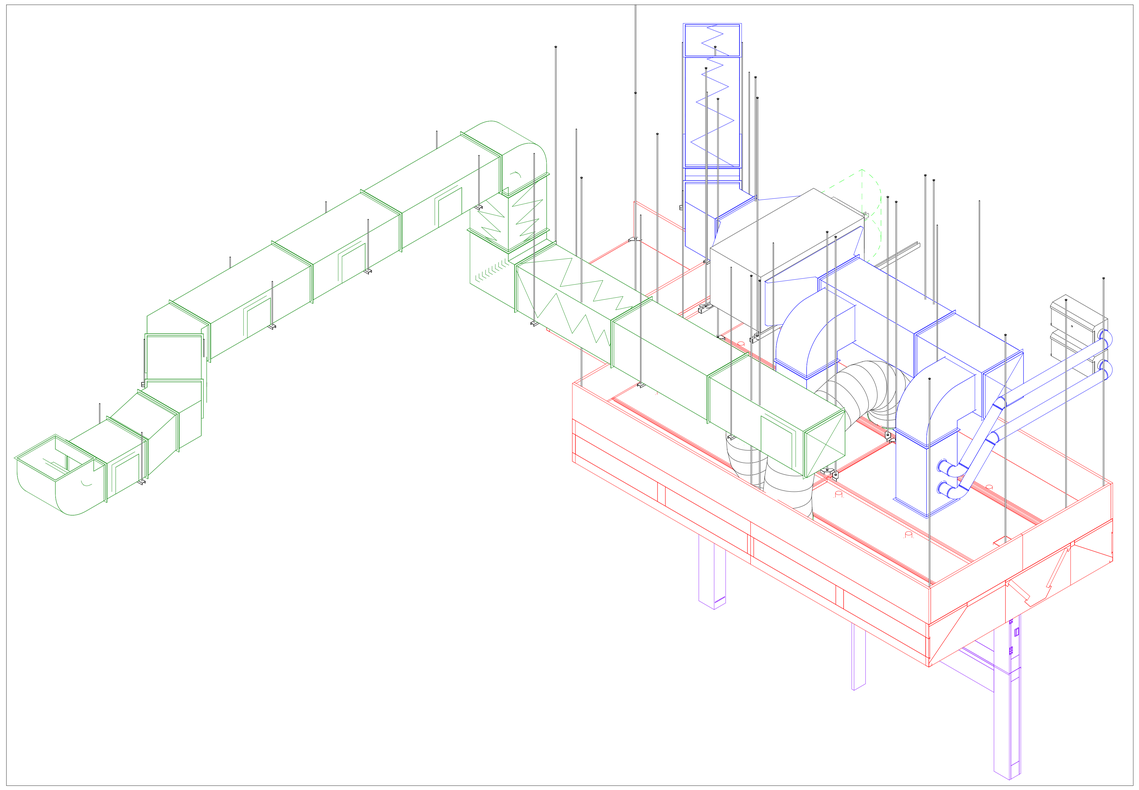
Designer: **Sam Derbyshire**
Email: **sam@inoxfabrications.com**
Mobile No:

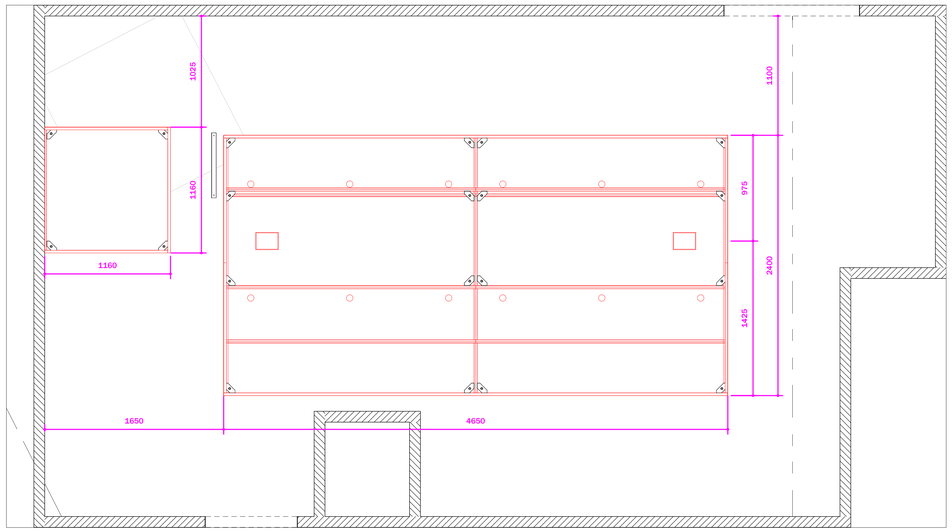
Project Manager: George Lowthion
Email: george@inoxfabrications.com
Mobile No: 07485357631

Revision Schedule			
Rev	**Description**	**Date**	**Issued to**
P01	**For Comment/Approval**	**28/08/26**	**Nicola Harris**



1 KITCHEN VENT - PLAN
1 : 20





2 KITCHEN VENT - HOODS
1 : 20

HOOD DETAILS

Item Number	Manufacturer	Description	Sections	Length	Depth	Front Height	Floor Offset	Infill Height	Hood Weight	Hood Notes
IFESW 1	Inox	Island Type Extract and Supply Air Hood	2	4650	2400	480	2100	400	312.48 kg	Bolt On Fronts
IFCH_1	Inox	Condense hood	1	1160	1160	480	2100	400	30.95 kg	Condense Hood

EXTRACT VOLUME

Item Number	Extract Volume	Extract Pressure Drop	No of Extract Spigots	Extract Spigot Width	Extract Spigot Depth	Extract Spigot Velocity
IFESW 1	1.856 m^3/s	120.0 Pa	2	400	400	5.800 m/s

SUPPLY AIR VOLUME

Item Number	Supply Air Volume	Supply Air Pressure Drop	No of Supply Air Spigots	Supply Air Spigot Width	Supply Air Spigot Depth	Supply Air Spigot Velocity
IFESW 1	1.578 m^3/s	0.0 Pa	2	399	399	4.955 m/s

LIGHTS

Item Number	Light Manufacturer	Light Model	Number of Lights	Lights Volts	Lights Watts	Lights Amps	Lights Notes
IFESW 1	Scolmore	Nano Inceptor	12	230 V	58 W	5.000 A	Pre-wired to single connection point

FILTERS

Item Number	Filter Manufacturer	Type of Filter	No of Filters	Filter Size
IFESW 1	Longar	Baffle Filter	16	500mm x 400mm

SDU SCHEDULE

Item Number	Number of Risers	SDU Length	SDU Width	SDU Height	SDU Riser Height	SDU Top Height
	2	4050	150	890	2400	1200

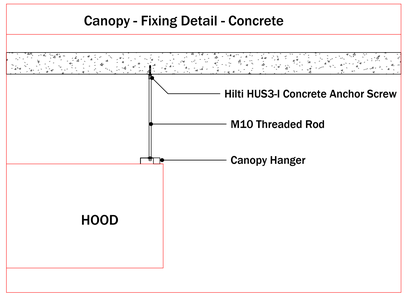
VENTILATION CANOPY FLOW RATE CALCULATION SHEET

Project:	YAOWARAT, MANCHESTER	Job No:	SO0123
		Rev	P01
Drawing Ref	1323E YAOWARAT, MANCHESTER		
		Date	04/06/2026

Equipment To Ventilated:

Item	Description	Width (mm)	Depth (mm)	Power	Area	TCC	Flow Rate
26	Refrigeration Unit	2230	700	Electric	1.56	0.03	0.0468
27	Induction Hob / Ceramic Stove	340	430	Electric	0.15	0.2	0.0292
28	Induction Hob / Ceramic Stove	340	430	Electric	0.15	0.2	0.0292
31	Refrigeration Unit	2230	700	Electric	1.56	0.03	0.0468
32	Induction Hob / Ceramic Stove	340	430	Electric	0.15	0.2	0.0292
33	Induction Hob / Ceramic Stove	340	430	Electric	0.15	0.2	0.0292
37	Benches, Spreaders & Worktop	1925	800	N/A	1.54	0.03	0.0462
41	Chrome Griddle	700	450	Electric	0.32	0.4	0.1260
43	Chinese Wok Range Induction	450	600	Electric	0.27	0.4	0.1080
44	Deep Fat Fryer	600	480	Electric	0.29	0.45	0.1296
77	Multi Function Cooking Pan	1100	760	Electric	0.84	0.65	0.5434
79	Combination Ovens	850	775	Electric	0.66	0.32	0.2108
	Theorectical extract volume required						1.3746
	Canopy Factor						1.35
	Extract Flow Rate M3/SEC						1.856
	Supply Flow Rate (85%) M3/SEC						1.577

The above calculation is to allow ventilation of equipment under the canopy only, it does not allow for general ventilation to the kitchen, and is based on DW/172 Extract Flow Rate Calculation Method 1.



Rev	Description	Date
P01	For Comment/Approval	28/08/26

PROJECT NAME
Yaowarat

PROJECT ADDRESS
Yaowarat
Square Gardens
Manchester
M15 6AE

TITLE
KITCHEN VENT PLAN

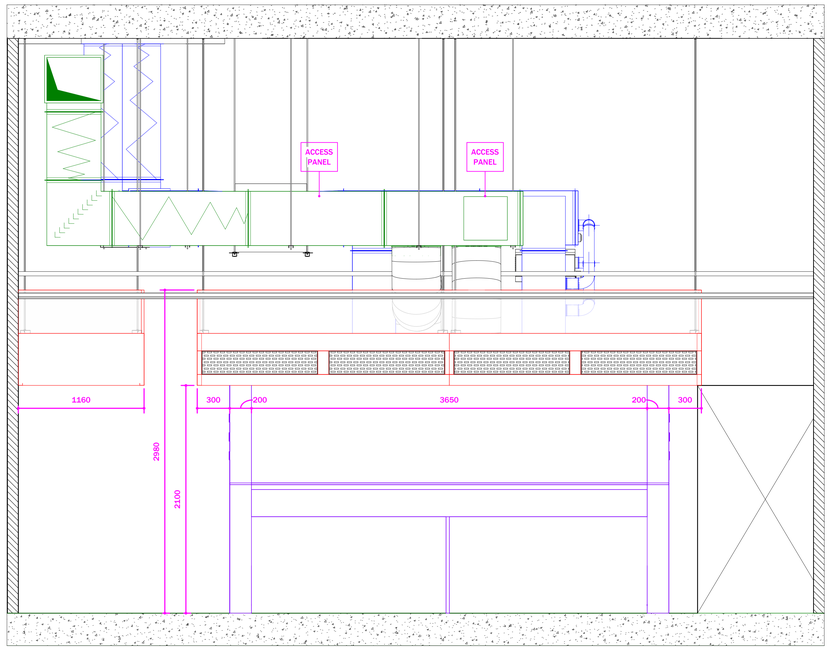
CLIENT
CKA

PROJECT NUMBER
S00123

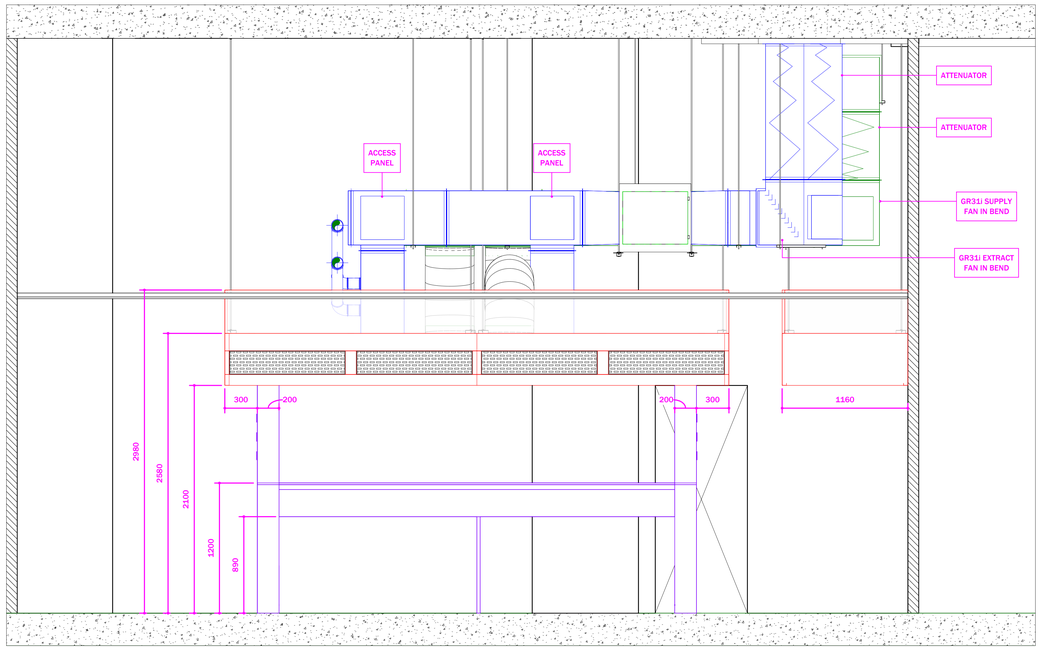
DRAWNING NUMBER
001

REV	SCALE (@A0)
P01	As indicated

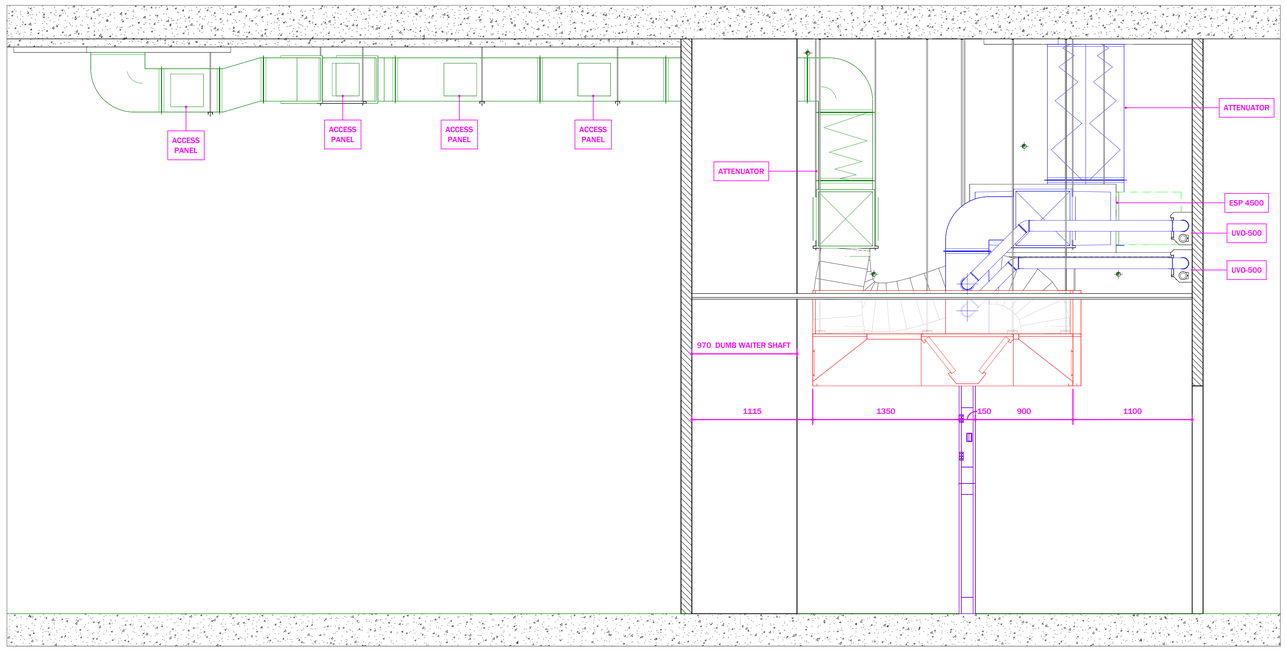
DRAWN BY	CHECKED BY	DATE
SD	GL	28/08/26



1 HOOD FRONT
1 : 20



2 HOOD REAR
1 : 20



3 HOOD END
1 : 20

NOTES

- ALL FIRST FIX AND SECOND FIX ELECTRICAL WORKS INCLUDING FIXING CONTROL PANELS AND FAN CONTROLS IN POSITION BY OTHERS.
- INOX HAS ONLY ALLLOWED FOR A FINAL CONTROL CHECK TO ENSURE SYSTEMS RUNS AS PER DESIGN.
- GAS SOLENOID VALVE BY OTHERS.
- STAINLESS STEEL WALL CLADDING REQUIRES A FLAT DRY SURFACE FOR BONDING TO (FINISHED WALLS).
- CONDENSE HOOD REQUIRES FINISHED WALLS PRIOR TO INSTALLATION.
- HOOD IS MANUFACTURED TO SUIT A MAX SUSPENDED CEILING HEIGHT OF 2450mm. HIGHER CEILINGS WILL REQUIRED VALANCE TO TOP OF HOOD AT EXTRA COST.
- ALL HOODS ARE INSTALLED AT 2100mm FROM FINISHED FLOOR LEVEL.
- ALL HOODS ARE SUPPORTED FROM STRUCTURAL CEILING.
- ALL SERVICES MUST AVOID CANOPY HANGING POINTS.
- A MINIMUM CLEARANCE OF 1000mm AROUND THE HOOD MUST BE LEFT TO ALLOW ENGINEERS SAFE HIGH LEVEL ACCESS.
- HIGH LEVEL ACCESS TO BE PROVIDED FOR WORKS OVER 4 MTR.
- INOX FABRICATIONS LTD DO NOT ALLOW FOR: PLANNING PERMISSIONS, BUILDING CONTROL CONSENT, FIRE OFFICER APPROVAL. ALL PARTS OF THE VENT DESIGN MUST BE APPROVED BT THE CORRECT BODY INCLUDING STRUCTURAL ENGINEERS, DESIGNERS AND ARCHITECTS.
- INOX DO NOT CO-ORDINATE ANY OTHER SERVICES.
- NO ALLOWANCE HAS BEEN MADE FOR: FIRE RATED DUCTING, TEMPERED AIR, CANOPY EMERGENCY LIGHTING, POWERED ACCESS EQUIPMENT, SECONDARY SUPPORT STEEL WORK, ROOF EDGE PROTECTION, ROOF ACCESS EQUIPMENT, KITCHEN AREA LIGHTING, ODOUR CONTROL, ELECTRICAL WORKS.

Rev	Description	Date
P01	For Comment/Approval	28/08/26

PROJECT NAME
Yaowarat

PROJECT ADDRESS
Yaowarat
Square Gardens
Manchester
M15 6AE

TITLE
SECTIONS

CLIENT
CKA

PROJECT NUMBER
S00123

DRAWNING NUMBER
002

REV	SCALE (@A0)
P01	1 : 20

DRAWN BY	CHECKED BY	DATE
SD	GL	28/08/26

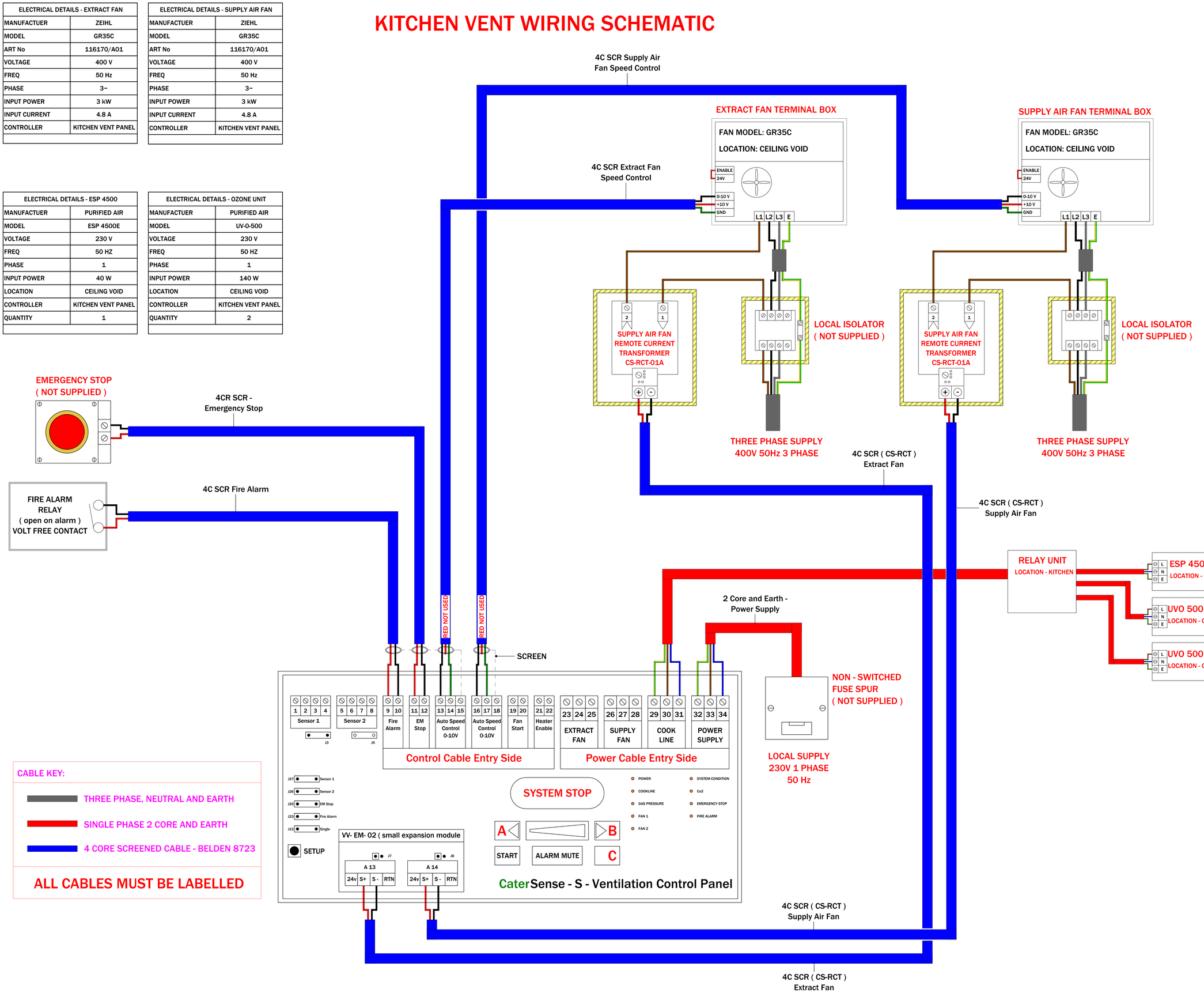
KITCHEN VENT WIRING SCHEMATIC

ELECTRICAL DETAILS - EXTRACT FAN	
MANUFACTUER	ZEIHL
MODEL	GR35C
ART No	116170/A01
VOLTAGE	400 V
FREQ	50 Hz
PHASE	3~
INPUT POWER	3 kW
INPUT CURRENT	4.8 A
CONTROLLER	KITCHEN VENT PANEL

ELECTRICAL DETAILS - SUPPLY AIR FAN	
MANUFACTUER	ZIEHL
MODEL	GR35C
ART No	116170/A01
VOLTAGE	400 V
FREQ	50 Hz
PHASE	3~
INPUT POWER	3 kW
INPUT CURRENT	4.8 A
CONTROLLER	KITCHEN VENT PANEL

ELECTRICAL DETAILS - ESP 4500	
MANUFACTUER	PURIFIED AIR
MODEL	ESP 4500E
VOLTAGE	230 V
FREQ	50 HZ
PHASE	1
INPUT POWER	40 W
LOCATION	CEILING VOID
CONTROLLER	KITCHEN VENT PANEL
QUANTITY	1

ELECTRICAL DETAILS - OZONE UNIT	
MANUFACTUER	PURIFIED AIR
MODEL	UV-0-500
VOLTAGE	230 V
FREQ	50 HZ
PHASE	1
INPUT POWER	140 W
LOCATION	CEILING VOID
CONTROLLER	KITCHEN VENT PANEL
QUANTITY	2



Rev	Description	Date
P01	For Comment/Approval	28/08/26

PROJECT NAME
Yaowarat

PROJECT ADDRESS
Yaowarat
Square Gardens
Manchester
M15 6AE

TITLE
WIRING SCHEMATIC

CLIENT
CKA

PROJECT NUMBER
S00123

DRAWNING NUMBER
003

REV	SCALE (@A0)
P01	1 : 25

DRAWN BY	CHECKED BY	DATE
SD	GL	28/08/26