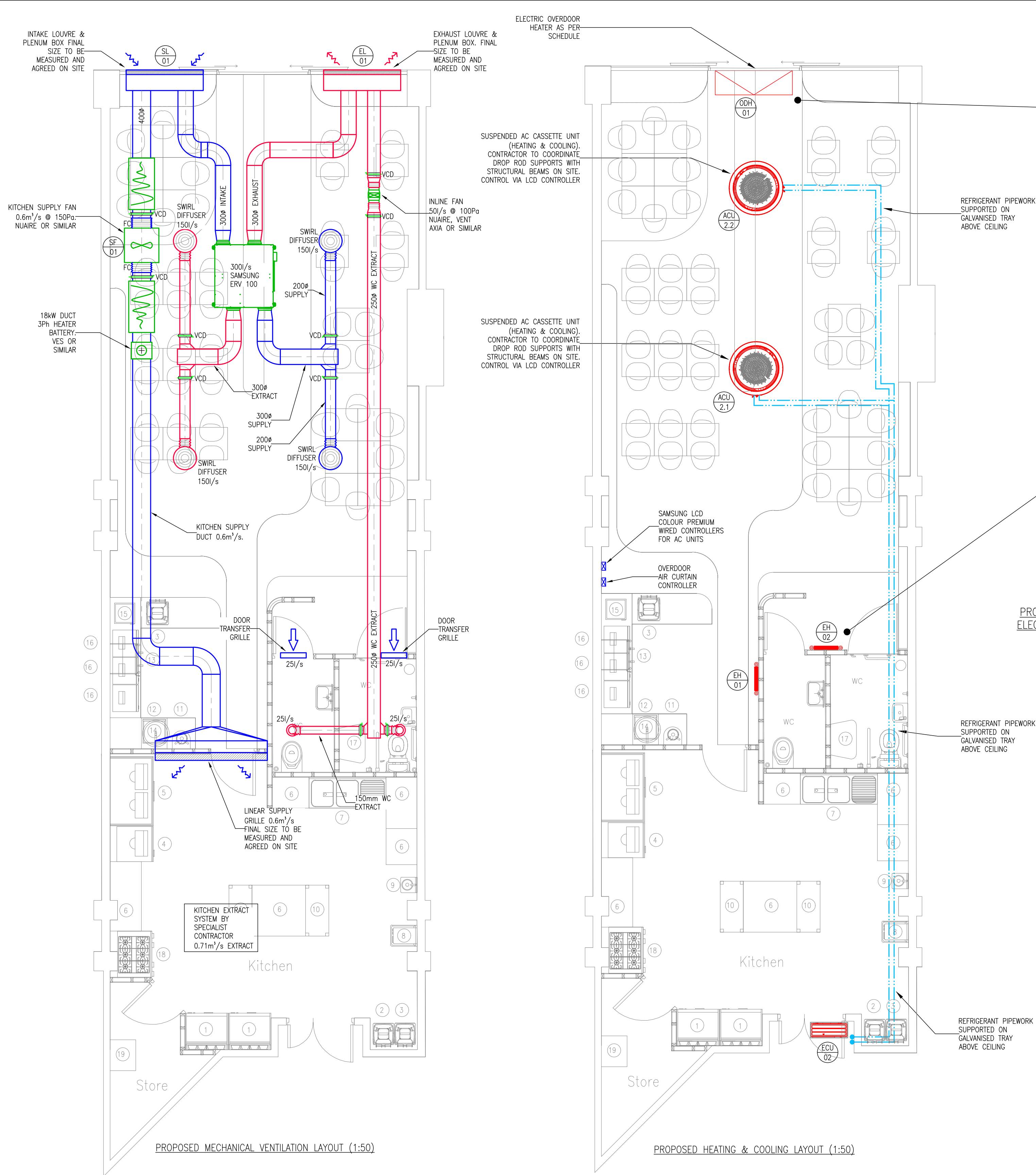




TYPICAL INSTALLATION OF PROPOSED OVERDOOR HEATER



PROPOSED MYSON DECOR ELECTRIC STYLE RADIATORS VERTICAL OPTION



ARCHITECTS CGI IMAGE FOR VISUALISATION PURPOSES

SR S150-E	
Normal unit length	m 1.5
Door height	m 2-2.4
Electrical supply	V/ph/Hz 400/3N/50
Max. Cable size allowed (solid/stranded)	mm ² 16/10
Max. Current consumption (unit)	A 23.8
Max. Fan power	kW 0.3
Max. Power consumption, heating	kW 15.6
Max. Specific fan power	W/(s) 0.63
Max. Heating capacity	kW 14.8
Weight casing style F / R / C	kg 76/92/67
Air inlet temperature	°C
Discharge air temperature	°C
Speed	1 2 3 4 5 6
Air volume	m ³ /h 660 910 1020 1320 1520 1700
Heating capacity	kW 3.3 4.5 5.1 6.6 7.6 8.5
Sound pressure level at 3m	dB(A) 28 35 39 43 47 50

REFRIGERATION INSTALLATION

- THE SPECIALIST AIR CONDITIONING CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPLY, INSTALLATION AND COMMISSIONING OF THE VRF SYSTEMS IN ACCORDANCE WITH BS EN 378.
- AIR CONDITIONING SPECIALIST TO SUPPLY, INSTALL, TEST AND COMMISSION ALL INTERCONNECTING REFRIGERATION PIPEWORK BETWEEN THE OUTDOOR AND INDOOR UNITS.
- ALL PIPEWORK TO BE CARRIED OUT IN REFRIGERATION QUALITY SOFT/MEDIUM DRAIN COPPER TUBING TO BS2871 PART 2: 1972 COMPLETE WITH THE APPROPRIATE JOINT PIPES FOR TWIN AND TRIPLE SYSTEMS.
- PIPEWORK SHALL BE CARRIED OUT BY AN APPROVED (CERTIFICATE APPROVAL MUST BE SUBMITTED PRIOR TO INSTALLATION COMMENCEMENT) REFRIGERANT ENGINEER AND IN ACCORDANCE TO BS-EN 378 2000 SPECIFICATION. RATIOA TOOLS REQUIRED FOR ALL PIPEWORK, TORQUE SPANNERS, FLARING BLOCKS ETC.
- LONGEST POSSIBLE LENGTHS OF COPPER PIPE SHOULD BE UTILISED TO MINIMISE JOINTS ON SITE.
- APPROPRIATE REFRIGERATION INSTALLATION TOOLS MUST BE UTILISED. DRY NITROGEN MUST BE UTILISED AT ALL TIMES IN THE SYSTEM DURING BRAZING.
- ALL PIPEWORK (SUCTION AND LIQUID LINES) TO BE INSULATED WITH SLIP ON CLOSE CELL ELASTOMERIC PIPE INSULATION (AS MANUFACTURED BY ARMAFLEX OR EQUAL AND APPROVED) WITH A FIRE PERFORMANCE CLASS 0 OF THE 1985 BUILDING REGULATIONS, HAVING A WALL THICKNESS OF NOT LESS THAN 13mm.

- AFTER INSTALLATION OF PIPEWORK, AND PRIOR TO SEALING OF INSULATION JOINTS AND STARTING OF EQUIPMENT, PIPEWORK SHOULD BE PRESSURE STRENGTH TESTED TO 42 BAR, CHECKED FOR DEFORMATION, AND THEN LEAK TESTED AT 33 BAR AND HOLD FOR 24 HOURS AND CHECKED FOR LEAKS. THEN VACUUMED/DEHYDRATED TO (-752MM HG) 2 TORR, AND HELD AT THAT SETTING FOR 12 HOURS (MINIMUM). HSE DOCUMENT GSA SHOULD BE FOLLOWED DURING PRESSURE TESTING PERIOD.
- REFRIGERANT CHARGE WEIGHT MUST BE CALCULATED, TO THE ACTUAL INSTALLED LENGTH OF PIPEWORK IN ACCORDANCE TO MANUFACTURERS RECOMMENDATIONS.
 - THE CHARGING SHOULD BE CARRIED OUT WITH AN APPROPRIATE CHARGING STATION.
 - PIPEWORK TO BE PROPERLY FIXED AND SUPPORTED AT A MINIMUM OF 1.5 METRE CENTRES AND WHERE REQUIRED SHOULD BE RUN ON GALVANISED TRAYS. ALL PIPEWORK TO BE LABELLED WITH ID NUMBER (CONDENSING UNITS REF.) AT 3 METRE INTERVALS.
 - JOINTS IN COPPER PIPE SHALL BE BRAZED. BRAZING SHALL BE CARRIED OUT TO THE REQUIREMENTS OF THE HVCA CODE OF PRACTICE - BRAZING AND BRONZE WELDING OF COPPER PIPE AND SHEET.
 - WHERE VRF AND VENTILATION PLANT IS INSTALLED ABOVE SOLID CEILINGS I.E. PLASTERBOARD SUITABLY SIZED ACCESS HATCHES ARE TO BE INSTALLED TO ALLOW ACCESS FOR INSTALLATION, COMMISSIONING, MAINTENANCE, CLEANING AND REMOVAL.
 - A CONDENSATE LINE SHALL BE INSTALLED TO EACH AC UNIT. THIS SHALL BE INSTALLED AND INSULATED ALL AS PER THE STANDARD SPECIFICATION. MINIMUM SIZE OF CONDENSATE PIPES TO BE 25mm COPPER OR PLASTIC, INSULATED AND PUMPED OR BY GRAVITY FROM EACH FAN COIL / CASSETTE, DRAINS TO RUN 1.80 MIN FALLS.
 - CONDENSATE PIPEWORK FROM VRF UNITS SHALL RUN WITHIN THE CEILING VOID TO THE NEAREST DRAINAGE POINT AND SHALL BE COMPLETE WITH IN LINE SELF SEALING TRAP.
 - THE TENDERING CONTRACTOR'S AIR CONDITIONING SPECIALIST SHALL BE RESPONSIBLE FOR THE INTERCONNECTING CONTROL WIRING BETWEEN THE INDOOR AND OUTDOOR UNITS AND CONTROL WIRING BETWEEN REMOTE CONTROLLER AND RELEVANT COMPONENTS. THIS WORK SHALL BE CO-ORDINATED WITH THE ELECTRICAL SUB CONTRACTOR FOR THE ROUTING AND TRUNKING OF THE CABLES.
 - CONTROL WIRING SHALL NOT BE RUN NEXT TO POWER WIRING. A MINIMUM SPACE OF 100mm BETWEEN BOTH CONTROL AND POWER CABLES SHALL APPLY.

Copyright ©2022 Octave Design Services Ltd All Rights Reserved.
UK Company Reg No. 09484672

GENERAL

- DO NOT SCALE FROM THIS DRAWING
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL PREMIER CK INFORMATION.
- ALL PLANT AND EQUIPMENT WILL BE INSTALLED AND COMMISSIONED FULLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

VENTILATION INSTALLATION

- VENTILATION SYSTEMS TO BE COMPLETE WITH ALL ACCESSORIES, CONTROLS AND FITTINGS TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION
- ALL VENTILATION SYSTEMS AND COMPONENTS TO BE INSTALLED, TESTED AND COMMISSIONED IN ACCORDANCE WITH BUILDING REGULATIONS APPROVED DOCUMENT F.
- DUCTWORK SHALL BE INSTALLED IN GALVANISED STEEL WITH CIRCULAR PROFILE AND SPIRAL SEAMS WHERE POSSIBLE OR OTHERWISE STATED IN ACCORDANCE WITH HVCA DW 144 AND BS EN 1506, OTHERWISE RECTANGULAR GALVANISED STEEL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH HVCA DW 144 AND BS EN 1505.
- VOLUME CONTROL DAMPERS IN ACCORDANCE WITH HVCA DW 144 ARE TO BE PROVIDED TO ALL DUCTWORK BRANCHES.
- EXTERNAL LOUVRES ARE TO BE COMPLETE WITH REMOVABLE INSECT MESH.
- ACCESS SHALL BE PROVIDED IN ALL DUCTWORK FOR INSPECTION, MAINTENANCE AND COMMISSIONING IN ACCORDANCE WITH HVCA DW 145 AND HVCA TR19.
- FLEXIBLE DUCTING SHALL BE USED FOR THE FINAL UNIT / GRILLE / PLENUM CONNECTION, NO MORE THAN 300mm PER LEG SHOULD BE USED AS PER SPEC GUIDANCE.
- ALL DUCTING WITHIN AN UNHEATED SPACE MUST BE INSULATED IN ACCORDANCE WITH PART F OF THE 2010 BUILDING REGULATIONS. EXHAUST AIR LEGS ARE TO BE FULLY INSULATED BACK TO THE UNIT.
- SUPPLY AND EXTRACT GRILLES SHALL BE COMMISSIONED / TRIMMED AT THE GRILLE TO ENSURE THE CORRECT FLOW RATE IS ACHIEVED.
- THE CONTRACTOR IS TO ENSURE ANY DUCTWORK PASSING THROUGH FIRE RATED WALLS IS PROVIDED WITH A FIRE DAMPER TO SUIT THE RATING OF THE FIRE WALL.
- ALL FINAL POSITIONS OF CONTROLLERS TO BE AGREED ON SITE.
- ALL MAINS WIRING TO BE CARRIED OUT BY THE APPOINTED ELECTRICAL CONTRACTOR.

CONTRACTORS GENERAL SCOPE OF WORKS IN RELATION TO THIS DRAWING:

CONTRACTOR SCOPE OF WORKS GENERALLY BUT NOT LIMITED TO:

- PRE-ORDER SURVEY TO MARK OUT POSITIONS, DETERMINE ANY UNFORESEEN ISSUES AND ESTABLISH THE SITE CONSTRAINTS.
- FULL CEILING SPACE COORDINATION AND SETTING OUT EXERCISE WITH ALL OTHER SERVICES.
- PROVIDE SUITABLE METHOD OF INSTALLING HIGH LEVEL EQUIPMENT AND NEW EXTERNAL LOUVRES
- INSTALLATION OF NEW VENTILATION UNITS, DUCTWORK, GRILLES, DAMPERS, SENSORS, CONTROLLERS
- POWER SUPPLIES BY OTHERS.
- FULL COMMISSIONING AND TO PROVIDE A FUNCTIONAL SYSTEM THROUGHOUT
- MAKING GOOD OF ANY DAMAGE TO WALLS/FLOORS/CEILING
- TRAINING TO CLIENT/SITE CARETAKER
- O&M MANUAL/COMMISSIONING CERTIFICATES / AS FITTED DRAWING FOR ALL MODIFICATIONS AND NEW INSTALLATIONS

T5	CONFIRMED HEATER BATTERY AND FAN SIZES	CP	CP	16.06.23
T4	VENTILATION SYSTEM REVISED. KITCHEN AC SYSTEM OMITTED. NOTE FURTHER DEVELOPMENT IS REQUIRED ON THIS DESIGN	CP	CP	06.06.23
T3	BUILDING LAYOUT UPDATED	MR	CP	13.02.23
T2	AC SCHEDULE UPDATED	CP	CP	12.09.22
T1	TENDER ISSUE	CP	CP	26.08.22
P1	ISSUED FOR COMMENTS	CP	CP	05.07.22
REV	DESCRIPTION	BY	CHKD	DATE

STATUS

TENDER



The Heath Business & Technical Park
Runcorn, Cheshire, WAT 4GX
Tel: +44(0)1928 51 1016
Email: info@octavedesignservices.com
Web: www.octavedesignservices.com

mechanical • electrical • utilities • design • specification • project management

CLIENT

CAROLYN REID – EAT ITALIAN LTD

SITE

UNIT 3, 39–41 PARKER STREET,
CITY TOWER–MANCHESTER M1 4BT

PROJECT

EAT ITALIAN RESTAURANT FITOUT

TITLE

PROPOSED HVAC DETAILS

DATE APPOINTED	SCALE AT A1	DRAWN BY	CHECKED BY
JUNE 2022	1:50	C.PRATT	C.PRATT
PROJECT No.	DRAWING No.	REVISION	
01497	01497–M–01	T5	