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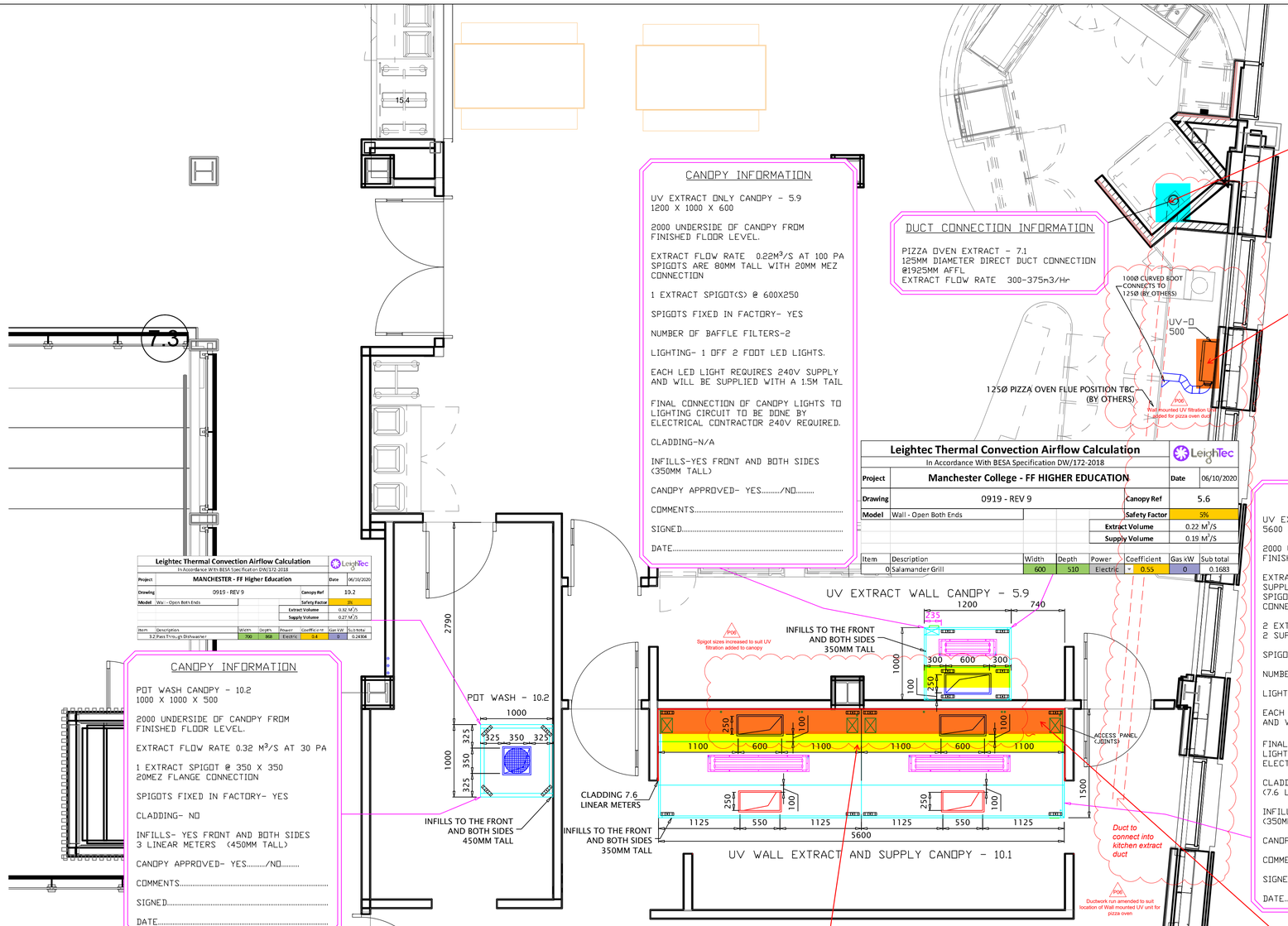
CANOPY LAYOUT

Location: Food Court Servery
Canopy Type: Direct Extract
Spigot Connection
Filter Type: n/a
Ventilation System (Ductwork & Fans): Refer to Mechanical Contractor

Odour Control: UV-O (refer to Purified Air UVO500flyerA2FINAL.pdf)
Wall mounted. Connection into leg of duct from Pizza Oven



CANOPY INFORMATION

UV EXTRACT ONLY CANOPY - 5.9
1200 X 1000 X 600

2000 UNDERSIDE OF CANOPY FROM FINISHED FLOOR LEVEL.

EXTRACT FLOW RATE 0.22M³/S AT 100 PA
SPIGOTS ARE 80MM TALL WITH 20MM MEZ CONNECTION

1 EXTRACT SPIGOT(S) @ 600X250

SPIGOTS FIXED IN FACTORY- YES

NUMBER OF BAFFLE FILTERS-2

LIGHTING- 1 OFF 2 FOOT LED LIGHTS.

EACH LED LIGHT REQUIRES 240V SUPPLY AND WILL BE SUPPLIED WITH A 1.5M TAIL

FINAL CONNECTION OF CANOPY LIGHTS TO LIGHTING CIRCUIT TO BE DONE BY ELECTRICAL CONTRACTOR 240V REQUIRED.

CLADDING-N/A

INFILLS-YES FRONT AND BOTH SIDES (350MM TALL)

CANOPY APPROVED- YES...../NO.....

COMMENTS.....

SIGNED.....

DATE.....

DUCT CONNECTION INFORMATION

PIZZA OVEN EXTRACT - 7.1
125MM DIAMETER DIRECT DUCT CONNECTION @1925MM AFFL
EXTRACT FLOW RATE 300-375m3/Hr

Leightec Thermal Convection Airflow Calculation
In Accordance With BESA Specification DW/172-2018

Project	Manchester College - FF HIGHER EDUCATION	Date	06/10/2020
Drawing	0919 - REV 9	Canopy Ref	5.6
Model	Wall - Open Both Ends	Safety Factor	5%
		Extract Volume	0.22 M³/S
		Supply Volume	0.19 M³/S

Item	Description	Width	Depth	Power	Coefficient	Gas kW	Sub total
0	Salamander Grill	600	510	Electric	0.55	0	0.1683

CANOPY INFORMATION

UV EXTRACT & SUPPLY CANOPY - 10.1
5600 X 1500 X 600

2000 UNDERSIDE OF CANOPY FROM FINISHED FLOOR LEVEL.

EXTRACT FLOW RATE 1.26M³/S AT 100 PA
SUPPLY FLOW RATE 1.07M³/S AT 40 PA
SPIGOTS ARE 80MM TALL WITH 20MM MEZ CONNECTION

2 EXTRACT SPIGOT(S) @ 600X250
2 SUPPLY SPIGOT(S) @ 550X250

SPIGOTS FIXED IN FACTORY- YES

NUMBER OF BAFFLE FILTERS-12

LIGHTING- 2 OFF 4 FOOT LED LIGHTS.

EACH LED LIGHT REQUIRES 240V SUPPLY AND WILL BE SUPPLIED WITH A 1.5M TAIL

FINAL CONNECTION OF CANOPY LIGHTS TO LIGHTING CIRCUIT TO BE DONE BY ELECTRICAL CONTRACTOR 240V REQUIRED.

CLADDING-YES REAR AND SIDES (7.6 LINEAR METERS)

INFILLS-YES FRONT AND BOTH SIDES (350MM TALL)

CANOPY APPROVED- YES...../NO.....

COMMENTS.....

SIGNED.....

DATE.....

Leightec Thermal Convection Airflow Calculation
In Accordance With BESA Specification DW/172-2018

Project	MANCHESTER - FF Higher Education	Date	06/10/2020
Drawing	0919 - REV 9	Canopy Ref	10.2
Model	Wall - Open Both Ends	Safety Factor	5%
		Extract Volume	0.32 M³/S
		Supply Volume	0.27 M³/S

Item	Description	Width	Depth	Power	Coefficient	Gas kW	Sub total
3.2	Pass Through Dishwasher	700	868	Electric	0.4	0	0.2436

CANOPY INFORMATION

POT WASH CANOPY - 10.2
1000 X 1000 X 500

2000 UNDERSIDE OF CANOPY FROM FINISHED FLOOR LEVEL.

EXTRACT FLOW RATE 0.32 M³/S AT 30 PA

1 EXTRACT SPIGOT @ 350 X 350
20MEZ FLANGE CONNECTION

SPIGOTS FIXED IN FACTORY- YES

CLADDING- NO

INFILLS- YES FRONT AND BOTH SIDES 3 LINEAR METERS (450MM TALL)

CANOPY APPROVED- YES...../NO.....

COMMENTS.....

SIGNED.....

DATE.....

Odour Control: UV (refer to Leightec Standard UV technical specification.pdf)
Located behind filters

Leightec Thermal Convection Airflow Calculation
In Accordance With BESA Specification DW/172-2018

Project	Manchester College - FF HIGHER EDUCATION	Date	02/03/2020
Drawing	0919 - Rev 9	Canopy Ref	10.1
Model	Wall - Closed Both Ends	Safety Factor	5%
		Extract Volume	1.26 M³/S
		Supply Volume	1.07 M³/S

Item	Description	Width	Depth	Power	Coefficient	Gas kW	Sub total
4.1	Combination Ovens 10 grid.	750	746	Electric	0.32	0	0.17904
4.2	Open-Top Range & Oven	700	850	Electric	0.3	0	0.1785
4.3	Open-Top Range & Oven	700	850	Electric	0.3	0	0.1785
		800	850	N/A	0.03	0	0.0204
		400	850	N/A	0.03	0	0.0102
		400	850	Electric	0.45	0	0.153
		400	850	Electric	0.45	0	0.153
		400	850	Electric	0.45	0	0.153
		600	850	N/A	0.03	0	0.0153

Location: Refectory Kitchen Cookline
Canopy Type: Wall Canopies
Filter Type: Longar Type 2 Baffle Filter (refer to left photo & refer to Longar Type 2 Baffle Filter.pdf)
Filter Location: Refer to yellow highlights
Ventilation System (Ductwork & Fans): Refer to Mechanical Contractor

SUPPLY AIR

IF NOT INCLUDED WITHIN THE KITCHEN VENTILATION PACKAGE, TO BE PROVIDED BY OTHERS, TO ACHIEVE ADEQUATE COMBUSTION AIR IN ACCORDANCE WITH GAS SAFE. REQUIREMENTS.
IF THE AIR IS NOT TEMPERED DRAUGHTS AND DISCOMFORT MAY BE CAUSED IN COLD WEATHER
GAS APPLIANCES LIKE HEATING BOILERS LOCATED IN THE KITCHEN VICINITY ARE TO BE ISOLATED FROM THE KITCHENS NEGATIVE AIR PRESSURE BY OTHERS.

CANOPY

CANOPY CONSTRUCTED FROM 0.9MM 304 GRADE STAINLESS STEEL. COMPLETE WITH BAFFLE FILTERS AND COOL WHITE LED LIGHTS RATED AT IP 54 TO UNDERSIDE UNLESS STATED OTHERWISE. CANOPIES TO BE SEALED WITH FOOD SAFE SILICONE. ALL BUILDER WORK OPENINGS TO BE FORMED PRIOR TO INSTALLATION. SUSPENDED CEILINGS WHERE FITTED TO BE INSTALLED FOLLOWING CANOPY INSTALLATION

- ALL OPENINGS TO BE FORMED BY MAIN CONTRACTOR INCLUDING ALL BUILDERS WORKS FOR VENTILATION SYSTEMS
- MAIN CONTRACTOR TO ENSURE THE REAR WALL OF THE COOK LINE EQUIPMENT IS CLEAR OF ALL LOOSE PLASTER WORK, TIMBER, TILES AND SERVICES TO ENABLE STAINLESS STEEL WALL CLADDING TO BE FITTED
- WALLS TO THE REAR OF COOK LINES TO BE OF A NON-CONBUSTABLE/FIRE RATED MATERIAL PRIOR TO STAINLESS STEEL WALL CLADDING BEING FITTED.
- ALL EXISTING CANOPIES AND DUCTING NOT TO BE REUSED ARE TO BE STRIPPED OUT BY OTHERS OR LTS CAN PROVIDE THIS SERVICE
- MAIN CONTRACTOR TO PROVIDE & FIT ALL FLASHING & SEALING MATERIALS FOR DUCTING THROUGH ROOF.
- WHERE ANY APPLIANCE IS SHOWN THAT IS NOT UNDERNEATH A CANOPY, ROOM VENTILATION IS TO BE CALCULATED AND INSTALLED TO THESE AREAS

rev	date	revision description	by	ch'd
P06	24/06/21	Canopy drawings - As Noted & Sheet 2 added	LGR	
P05	09/03/21	Canopy drawings - As Noted	LGR	
P04	03/03/21	Canopy drawings - As Noted	LGR	
P03	02/03/21	Canopy drawings - As Noted	LGR	
P02	01/02/21	Canopy drawings - As Noted	LGR	
P01	24/09/20	Canopy drawings first issue	LGR	MPS

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PRIOR TO THE APPOINTMENT OF THE OFFICIAL CDM CO-ORDINATOR AND PRINCIPAL CONTRACTOR, THIS DRAWING IS ISSUED STRICTLY AS DESIGN INTENT ONLY

project name: Manchester College

sheet name: 01 First Floor - HE Kitchen & Food Court - Ventilation Canopy Details - 1 of 2

architects / clients drawing reference
originator: leightec
title: Canopy Layout
dwg number: 04130,01
date: 24/06/21 Rev: H

VCK project no	designed by	scale	paper size
220110	LGR	1 : 35	A1

drawing number: CC-VCK-XX-01-DR-Y-4302

status: S2 — suitability description: SUITABLE FOR INFORMATION
revision: P06 — revision description: PRELIMINARY