

Appendix E Proforma for Planning Applications



MANCHESTER
CITY COUNCIL

Planning Application – Waste Management Strategy

Planning Application Number: 1124120/JO/2019

Date Submitted: 31/01/2022

Estimated volumes/ m² required by the development

Low Rise Domestic

Waste Types	Capacity Required (litres)	Number of bins required per household	Confirm what is to be provided
General refuse	140 / 240	1 x wheeled bin	n/a
Pulpable Recycling	140 / 240	1 x wheeled bin	n/a
Mixed Recycling	140 / 240	1 x wheeled bin	n/a
Garden Waste	140 / 240	1 x wheeled bin	n/a
Food Waste	23	1 x 23 litre caddy	n/a

High Rise Apartment Developments

	Yes/No - how much space has been provided?
0.43m ² has been provided per apartment for the container space. Space to manoeuvre and access containers individually has also been provided so that each container can be accessed and removed for collection individually.	Yes. 0.46m ² per apartment has been provided across 286 apartments for plot 2 and 3.

Commercial Developments

Please state number of bins you propose, showing calculations where appropriate.

General Waste -	The commercial units tenant/use are not determined (no tenancies have been agreed) and as such specific details can not at this stage be advised. Please note that the lease requirements will ensure that Commercial tenants make suitable arrangements for private collections.
Pulpable Recycling -	
Mixed Recycling -	
Food Waste -	
Industrial Waste -	

Has / will a contract be obtained with a licenced waste carrier?	☒ YES
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Mixed Use Developments

Are the stores for residential and commercial separate from each other?	☒ YES
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Internal Stores (Residential and Commercial)

Please provide details of internal stores / segregation of waste and recycling.

Separate Internal Refuse Stores are located on the ground floors for both Residential and Commercial units. See attached plans .
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Storage Areas for Waste Containers (Residential and Commercial)

Please provide details of container stores, attaching plans if appropriate.

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Ensure all bins in the store are accessible	☒ YES
Ensure recycling facilities are as easy to access as general refuse	☒ YES

Please confirm details of waste store ventilation and hygiene / cleaning proposals

Ventilation - See attached ventilation specification and layout

Hygiene - All Refuse Rooms will be sited on an impermeable surface to aid cleaning and general good housekeeping and the site team will have responsibility for ensuring cleaning is carried out routinely.

Please provide details of who will be responsible for placing the bins at the collection point and returning them to the store / property promptly e.g. resident / management company

This rooms will be managed by the site-based team. Containers will be regularly inspected by the site-based team to ensure they are rotated as required. See attached Waste Management Strategy.

Please ensure that you have attached:

Detailed plans of waste stores	☐ Yes
Location plans showing stores	☐ Yes
Location plans showing the proposed collection point and the route the collection vehicle will take	☐ Yes

Please ensure that you have completed this form in accordance with our GD04 Waste Storage and Collection Guidance for New Developments

Appendix 1 – Waste Strategy

Planning Condition 33 and 51

Condition 33: Notwithstanding the Waste and Servicing strategy within the Design and Access statement prepared by 5Plus stamped as received by the City Council, as Local Planning Authority, on the 17 May 2017, prior to the first occupation/use of each phase a scheme for the storage (including segregated waste recycling) and disposal of refuse for the residential and commercial elements within a phase shall be submitted for approval in writing by the City Council, as Local Planning Authority. The details of the approved scheme shall be implemented as part of each phase and shall remain in situ whilst the use or development is in operation.

Condition 51: Prior to the first occupation of each phase, a detailed waste and servicing strategy for each phase shall be submitted for approval in writing by the City Council, as Local Planning Authority. For the avoidance of doubt this shall include details of the type and sizes of refuse and servicing vehicles that will require access to the site including any associated management and operational requirements. The approved strategy, including any associated mitigation works, shall be implemented and be in place prior to the first occupation of each phase and thereafter retained and maintained in operation.

2.0 Refuse Strategy

2.1 Refuse Strategy Overview

The scheme has been designed such that every apartment will have access to a tri-separator refuse chute on their apartment level. This will be in close proximity to their apartment to promote effective waste disposal and avoid lengthy movement of waste across the development, which can often hinder recycling initiatives.

Tri-separating refuse chutes have been selected for more effective waste management. These connect to a separating hopper in the refuse stores at ground level which is controlled by a switch on each apartment floor level. This enables residents to choose the appropriate recycling bin for the waste that they are putting in the chute by pressing a button at the chute entrance. This will select the appropriate recycling container at ground level.

The strategy proposed will enable residents to segregate and dispose of waste in a reasonable and sustainable way in order to minimize environmental impact.

2.2 Refuse Room Management

2.2.1 Refuse Room Monitoring

The Chutes will discharge directly into Local Authority containers within the Refuse rooms located on the ground floor. This rooms will be managed by the site-based team. Containers will be regularly inspected by the site-based team to ensure they are rotated as required.

2.2.2 Refuse Room Cleaning

All Refuse Rooms will be sited on an impermeable surface to aid cleaning and general good housekeeping and the site team will have responsibility for ensuring cleaning is carried out routinely.

2.2.3 Waste container cleaning & maintenance

All containers will be visually inspected before being moved to ensure they are free from damage. Any units identified as damaged/unsafe will be repaired and replaced accordingly.

As part of the housekeeping process all waste containers will be regularly cleaned by an appropriate trained 3rd party to ensure they remain clean.

2.3 Refuse Collection

The site team will ensure that the residential waste containers are placed in the designated collection point on the appointed days for collection by the Local Authority. Once emptied by the Local Authority the units will be returned to the Refuse Rooms for re-use.

2.3.1 Vehicular Access

Waste and servicing areas have been located to the Dantzic Street side to allow the use of the layby which will act as a temporary location for a refuse vehicle. Refuse containers can be wheeled out directly from the adjacent bin stores to the collection point.

In addition, there is a second layby on Little Nelson Street that can be utilised.

For details on turning circles of refuse vehicles please refer to WSPs Transport Assessment.

2.3.2 **Noise Management**

The team are aware that the buildings are within a residential area and as such during the transfer of waste containers care will be taken to minimise noise.

In order to make reasonable efforts to avoid unnecessary or excessive noise to residents/surrounding areas the below provisions will be in place regarding the management of refuse containers:

Refuse Container movement to external collection point – timing of bin movements will be carried out late afternoon or evening as this is likely to have the lowest impact to residents from a noise perspective.

Refuse Container Rotations – container rotation will take place in the bin stores located within each building curtilage inside the enclosed car park. As such can be carried out as and when required without unreasonable disturbance to residents.

Refuse Container Cleaning – container cleaning will take place in the bin stores located within each building curtilage inside the enclosed car park. As such can be carried out as and when required without unreasonable disturbance to residents.

2.4 **Recycling**

Recycling is an integral element of effective Waste Management and is increasingly important to residents of high-rise developments who have historically found inadequate provisions to be in place. It is important that at design stage this concern is addressed in any new development to allow residents to engage in a meaningful and responsible recycling regime.

At the development residents will be provided with the correct infrastructure via the tri-separator to recycle all streams of waste in accordance with Manchester City Council guidance.

Notices will be installed prominently in all Refuse Chutes and Refuse Rooms around the development communicating to residents the refuse/recycling policy and clearly promoting the proposed system. Advice on how to dispose of larger items such as mattresses/washing machines etc. in line with the requirements of Manchester City Council will also be communicated.

Appendix 2 – Location Plans

7.3 Servicing Strategies

Waste Strategy

Refuse Strategy

MCC’s Residential Design Quality Guidance; Design for Waste section, and a third-party refuse chute manufacturer for weekly capacities and storage dimensions have informed this strategy.

Plot apartment types and numbers are listed below.

Block 2
200 apartments total
38 / 156 / 6
1 / 2 / 3 bedrooms

Block 3
86 apartments total
28 / 28 / 30
1 / 2 / 3 bedrooms

Block 4
334 apartments total
112 / 208 / 14
1 / 2 / 3 bedrooms

Block 5
136 apartments total
40 / 80 / 11
1 / 2 / 3 bedrooms

5 – 3 bed townhouses with
(Separate waste strategy)

Plot 2

General Waste
200 apartments x 125L = 25,000L = 22.7 no. 1100L refuse containers.
With compaction = 6 no. 1100L refuse containers

Co-Mingled
200 apartments x 63L = 12,500L = 12 no. 1100L refuse containers

Organic Waste
200 apartments x 63L = 12,500L = 12 no. 1100L refuse containers

Total
30 no. 1100L refuse containers

Due to restricted refuse storage space 2 no. collections of 15 no. 1100L refuse containers are required a week.

There is a chute room on every residential floor which is located adjacent to the core in the centre of the building.

The bins will be stored within the building at ground floor. There is a layby proposed on Dantzic Street which will act as a temporary location for a refuse vehicle and bins can be wheeled out directly from the adjacent bin store.

Waste and servicing areas have been located to the Dantzic Street side to minimise impact on active frontage of the main pedestrian route of Aspin Lane.

For turning circles of refuse vehicles please refer to WSP’s (transport consultant) Transport Assessment.

Plot 3

General Waste
86 apartments x 125L = 10,750L = 9.8 no. 1100L refuse containers
With compaction = 3 no. 1100L refuse containers

Co-Mingled
86 apartments x 63L = 5,375L = 5 no. 1100L refuse containers

Organic Waste
86 apartments x 63L = 5,375L = 5 no. 1100L refuse containers

Total
13 no. 1100L refuse containers

Due to restricted refuse storage space 2 no. collections of 8 no. 1100L refuse containers are required a week.

There is a chute room on every residential floor which is located adjacent to the core in the centre of the building.

The bins will be stored within the building at ground floor. There is a layby proposed on Little Nelson Street which will act as a temporary location for a refuse vehicle and bins can be wheeled out directly from the adjacent bin stores.

Waste and servicing areas have been located to the Dantzic Street side to minimise impact on active frontage of the main pedestrian route of Aspin Lane

For turning circles of refuse vehicles please refer to WSP’s (transport consultant) Transport Assessment.

Plots 2 & 3 Ground Floor Plan



- Key**
- Application Boundary
 - P2 Plot 2
 - P3 Plot 3
 - P4 Plot 4
 - P5 Plot 5
 - 1 Kings School
 - 2 Angel Meadow Park
 - 3 No. 1 Angel Square
 - 4 Railway Viaduct
 - 5 Cooperative Press (Grade II)
 - 6 Sharp St. Ragged School (Grade II)
 - 7 Tobacco Factory
 - 8 Warehouse Simpson St (Grade II)
 - 9 General refuse and organic waste store and pulpal materials store
 - 10 Proposed new layby
 - 11 Main entrance
 - 12 Refuse Collection Holding Zone

Appendix 3 – Ventilation Spec

Refuse Store Extract Fan Pressure Drop calculations

Drawing Ref: 1002-M-AME-DRG-57-ZZ-2001

Fan sizing & pressure drop calculations	
Project Name	Angel Meadows Plot 2
Project Ref	1002-M-AME-DES-57-C003
Date	15.10.20
Revision	D

Room	Area (m²)	Height (m)	ACH	Supply (m³/s)	Extract (m³/s)
Refuse Store	79	3	6	0.395	0.395
Total				0.395	0.395

Item - Extract	Qty	Air Volume (m³/s)	Velocity (m/s)	Pressure drop per unit length (pa/m)	Velocity pressure (pa)	ζ	Total Pressure drop (pa)
To Extract Fan							
External Louvre 700 x 450	1	0.395	1.25	0.05	0.938	6	5.625
Duct Entry	1	0.395	3.95	0.5	9.362	0.5	4.681
Transformation Reducer	1	0.395	3.95	0.5	9.362	0.04	0.374
355Ø Duct	0.9	0.395	3.95	0.5	9.362	-	0.450
355Ø B90	1	0.395	3.95	0.5	9.362	0.67	6.272
Attenuator	1	0.395	3.95	0.5	9.362	-	30.000
355Ø VCD	1	0.395	3.95	0.5	9.362	0.5	4.681
355Ø Duct	0.5	0.395	3.95	0.5	9.362	-	0.250
To Bellmouth							
355Ø Duct	0.3	0.395	3.95	0.5	9.362	-	0.150
Attenuator	1	0.395	3.95	0.5	9.362	-	30.000
355Ø Duct	0.5	0.395	3.95	0.5	9.362	-	0.250
Bellmouth	1	0.395	3.95	0.5	9.362	0.5	4.681
Sub total							87.414
20%							105



Refuse Store Pressure Drop Calculations

Drawing Ref: 1002-M-AME-DRG-57-ZZ-3001

Fan sizing & pressure drop calculations	
Project Name	Angel Meadows Plot 3
Project Ref	1002-M-AME-DES-57-C004
Date	15.10.20
Revision	D

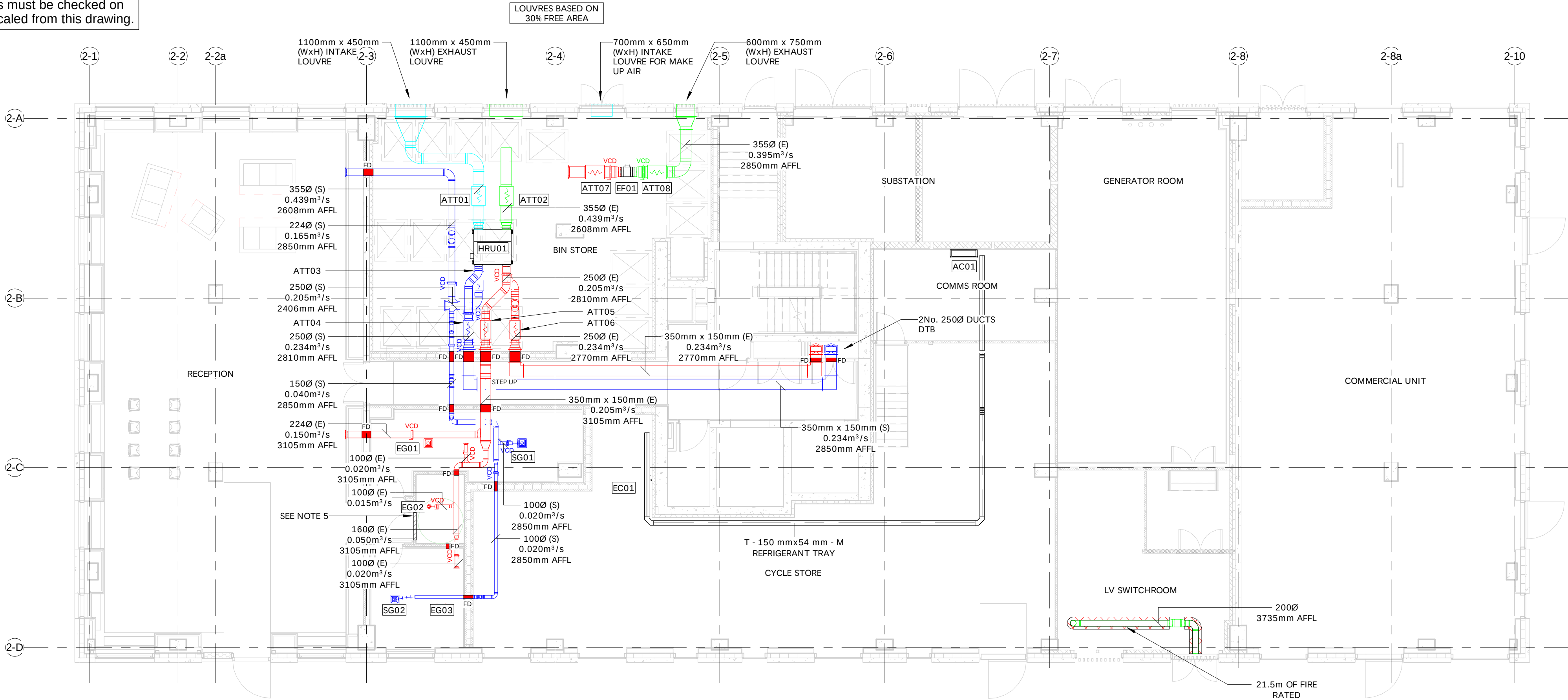
Room	Area (m ²)	Height (m)	ACH	Supply (m ³ /s)	Extract (m ³ /s)
Ground Floor Refuse Store	53.7	3.7	6	0.000	0.331
Total				0.000	0.331

Item - Extract	Qty	Air Volume (m ³ /s)	Velocity (m/s)	Pressure drop per unit length (pa/m)	Velocity pressure (pa)	ζ	Total Pressure drop (pa)
<u>To Extract Fan</u>							
External Louvre 800 x 350	1	0.331	1.25	0.05	0.938	6	5.625
Duct Entry	1	0.331	4.5	0.7	12.150	0.5	6.075
Transformation Reducer	1	0.331	4.5	0.7	12.150	0.04	0.486
300Ø Duct	0.25	0.331	4.5	0.7	12.150	-	0.175
300Ø VCD	1	0.331	4.5	0.7	12.150	0.5	6.075
Attenuator	1	0.331	4.5	0.7	12.150	-	30.000
300Ø Duct	0.25	0.331	4.5	0.7	12.150	-	0.175
<u>To Bellmouth</u>							
300Ø Duct	0.25	0.331	4.5	0.7	12.150	-	0.175
Attenuator	1	0.331	4.5	0.7	12.150	-	30.000
300Ø Duct	0.5	0.331	4.5	0.7	12.150	-	0.350
Bellmouth	1	0.331	4.5	0.7	12.150	0.5	6.075
Sub total							85.211
20%							102

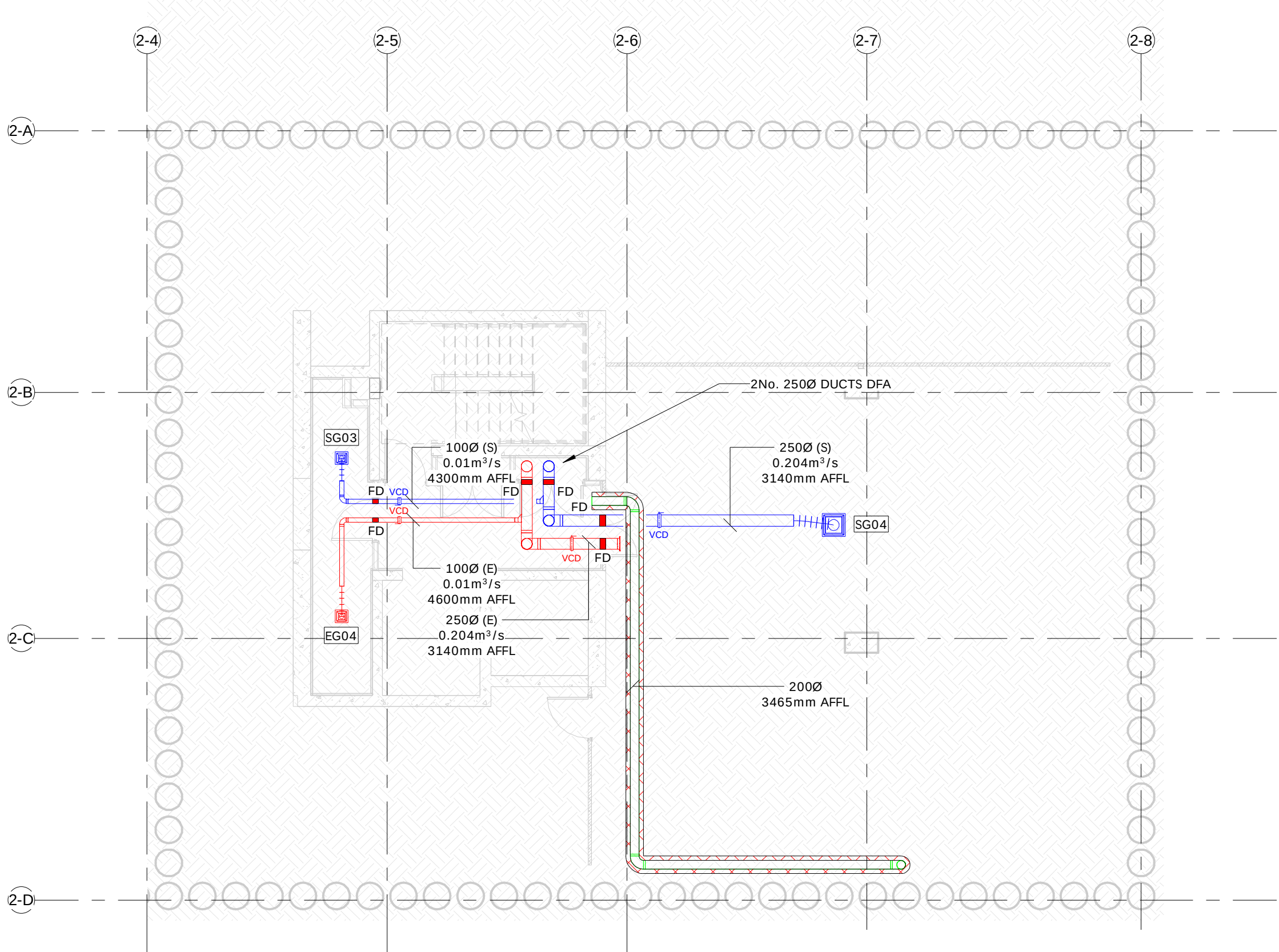


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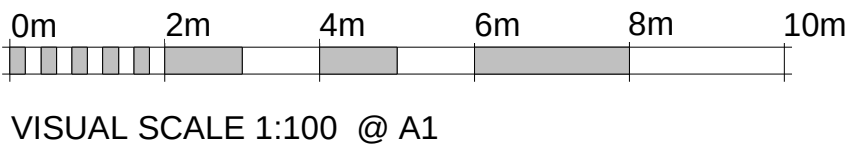
NOTES:
All dimensions must be checked on site and not scaled from this drawing.



Level 00 - Ventilation Layout
1 : 100



Basement Level - Ventilation Layout
1 : 100



EXTRACT GRILLE SCHEDULE:

Ref.	Location	Manufacturer	Model	Grille Type	Spigot Size (mm)	Overall Size (mm)	Volume (m³/s)	Colour
EG01	Parcel Room	GDL	E44SV+2B	4-Way Diffuser	N/A	150x150	0.02	RAL 9010
EG02	W.C.	GDL	96E00+1B	Air Valve	N/A	100Ø	0.01	RAL 9010
EG03	Management Office	GDL	E44SV+2B	4-Way Diffuser	N/A	150x150	0.02	RAL 9010
EG04	Kitchenette (Basement)	GDL	E44SV+2B	4-Way Diffuser	N/A	150x150	0.01	RAL 9010

SUPPLY GRILLE SCHEDULE:

Ref.	Location	Manufacturer	Model	Grille Type	Overall Size (mm)	Volume (m³/s)	Throw (m)	Colour
SG01	Parcel Room	GDL	E44SV+2B	4-Way Diffuser	150x150	0.02	1.0	RAL 9010
SG02	Management Office	GDL	E44SV+2B	4-Way Diffuser	150x150	0.02	1.5	RAL 9010
SG03	Kitchenette (Basement)	GDL	E44SV+2B	4-Way Diffuser	150x150	0.01	1.5	RAL 9010
SG04	Plant Room	GDL	E44SV+2B	4-Way Diffuser	300x300	0.204	2.5	RAL 9010

ATTENUATOR SCHEDULE:

Ref	Qty	Associated Equipment	Description	Manufacturer	Model/Type	Width (mm)	Height (mm)	Length (mm)	Volume (m³/s)	Weight (Kg)
ATT01	1	HRU01	Fresh Air Intake	Caice	LG01V/1E/L/S	400	380	770	0.439	23
ATT02	1	HRU01	Exhaust	Caice	LG01V/1E/L/S	400	380	770	0.439	23
ATT03	1	HRU01	Supply	Caice	LG01V/3A/L/S	400	350	1215	0.205	25
ATT04	1	HRU01	Supply	Caice	LG01V/3A/L/S	400	350	1215	0.234	25
ATT05	1	HRU01	Extract	Caice	LG01V/3A/L/S	400	350	1215	0.205	25
ATT06	1	HRU01	Extract	Caice	LG01V/3A/L/S	400	350	1215	0.234	25
ATT07	1	EF01	Extract	Caice	PG01U/1K/L/L	355	dia	915	0.395	18
ATT08	1	EF01	Exhaust	Caice	PG01U/1K/L/L	355	dia	615	0.395	13

EXTRACT FAN SCHEDULE:

Ref	Qty	Location	Manufacturer	Model	Type	Design Air Vol (m³/s)	Max SFP (W/1/s)	Control
EF01	1	Refuse Store	Vent-Axia	ACM250-17110010	In-Line	0.395	0.5	Local time & speed controllers. Interfaced with BMS.

HRU SCHEDULE:

Ref	Qty	Location	Manufacturer	Model/Type	Depth (mm)	Width (mm)	Height (mm)	Weight (Kg)	Duty (m³/s)	Max SFP (W/1/s)	Control
HRU01	1	Refuse Store	TOSHIBA	LGH-200RVX-E-1	1231	1144	808	110	0.414	1.53	Local PZ-61DR-E control & interfaced with BMS

EXTERNAL CONDENSER SCHEDULE:

Ref	Location	Manufacturer	Model Ref.	Description	Width (mm)	Depth (mm)	Height (mm)	Weight (Kg)
EC01	Cycle Store	TOSHIBA	PUZ-ZM35VKA	Inverter Heat Pump	809	300	630	46

AIR CONDITIONING SCHEDULE:

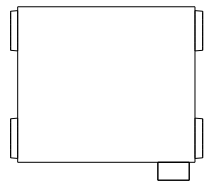
Ref	Location	Manufacturer	Model Ref.	Description	Flow Rate (m³/s)	Noise Power Level (dBA)	Width (mm)	Depth (mm)	Height (mm)	Weight (Kg)
AC01	Comms Room	TOSHIBA	PKA-M50HA	High Wall Unit w/ PAR33MAA Controller	n/a	60	896	249	295	13

Ref.	Date	Revisions	By
P01	19.07.19	PRELIMINARY ISSUE	N.T.
C01	20.08.19	CONSTRUCTION ISSUE	N.T.
C02	18.09.19	LAYOUT AMENDED TO AVOID DRAINAGE	N.T.
C03	01.11.19	UPDATED IN LINE WITH LATEST CALCULATIONS	N.T.
C04	13.01.20	UPDATED TO COMMENTS	N.T.
C05	24.01.20	LOUVRE FREE AREA UPDATED	M.D.
C06	27.08.21	LOUVRE SIZE UPDATED	M.D.
C07	16.12.21	BASEMENT SMOKE VENT ADDED	M.D.
C08	05.01.21	BASEMENT SMOKE AMENDED	M.D.

GENERAL NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- F.A.I. AND EXHAUST (HRU) DUCTWORK & SECONDARY DUCTS FROM HRU TO BE INSULATED.
- ACCESS PANELS TO BE INSTALLED IN LINE WITH DW144 TABLE 20 UNDER 'DUCTWORK CONTRACTOR' RESPONSIBILITY
- ACCESS HATCHES SHOWN INDICATIVELY WHERE A REQUIREMENT IS NEEDED. SIZE AND SETTING OUT TBC BY ARCHITECT.
- DOOR TO STAFF W.C. TO BE UNDERCUT BY 10mm TO ALLOW SUFFICIENT REPLACEMENT AIR INTO THE ROOM.
- FINAL SETTING OUT OF GRILLES TO BE CONFIRMED BY ARCHITECT.

VENTILATION LEGEND:



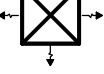
- MECHANICAL VENTILATION
HEAT RECOVERY UNIT



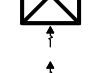
- 600mm x 600mm ACCESS HATCH



- INLINE EXTRACT FAN



- SUPPLY AIR GRILLE



- EXTRACT AIR GRILLE



- SUPPLY AIR VALVE



- EXTRACT AIR VALVE



- INDICATIVE ACCESS HATCH REQUIREMENT

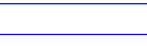
VCD

- VOLUME CONTROL DAMPER

FD

- FIRE DAMPER

DUCTWORK KEY:



- SUPPLY DUCT



- EXTRACT DUCT



- FRESH AIR INTAKE DUCT



- EXHAUST DUCT



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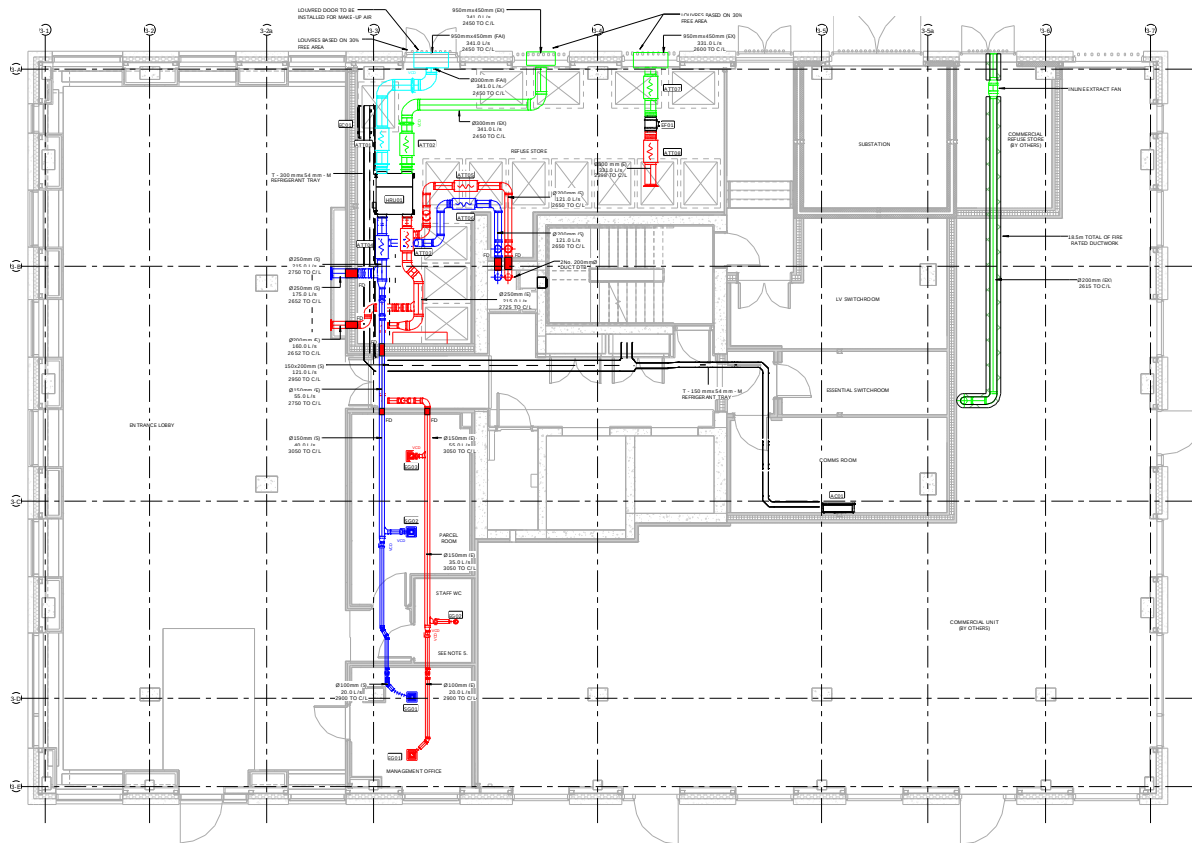
Building Services Engineering

Unit 9-10 Olympic Court, Boardmans Way,
Whitehills Business Park, Blackpool, FY4 5GU
Tel: 01253 760160
E-mail: info@ameon.co.uk

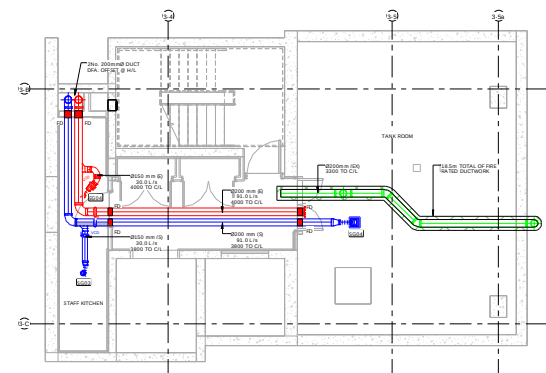
CONSTRUCTION

Client	Job Title	Drawing Title	Date July 2019	
	Angel Meadows Plot 2	Plot 2 Basement & Ground Floor Ventilation Layout	Scale @ A1 As indicated	Drawn by N.T.
			Drawing Number 1002-M-AME-DRG-57-ZZ-2001	Revision C08

NOTES:
All dimensions must be checked on
site and not scaled from this drawing



Level 00 Landlord Ventilation Layout
1:50



Level -01 Landlord Ventilation Layout
1:50

EXTRACT GRILLE SCHEDULE

Ref	Qty	Location	Manufacturer	Model	Grille Type	Pressure Drop (Pa)	Volume (m³/s)	Colour
EX01	1	Management Office	GRIL	GR01-10	Air Valve	1500	0.100	RAL 9010
EX02	1	Staff Kitchen (Basement)	GRIL	GR01-10	Air Valve	1500	0.100	RAL 9010
EX03	1	Staff Kitchen (Basement)	GRIL	GR01-10	4-Way Diffuser	1500	0.100	RAL 9010

SUPPLY GRILLE SCHEDULE

Ref	Qty	Location	Manufacturer	Model	Grille Type	Pressure Drop (Pa)	Volume (m³/s)	Throat (mm)	Notes (m)	Colour
SG01	1	Management Office	GRIL	GR01-10	4-Way Diffuser	1500	0.100	25	2.5	RAL 9010
SG02	1	Staff Kitchen (Basement)	GRIL	GR01-10	4-Way Diffuser	1500	0.100	25	2.5	RAL 9010
SG03	1	Staff Kitchen (Basement)	GRIL	GR01-10	4-Way Diffuser	1500	0.100	25	2.5	RAL 9010

ATTENUATOR SCHEDULE

Ref	Qty	Location	Manufacturer	Model	Type	Pressure Drop (Pa)	Volume (m³/s)	Throat (mm)	Notes (m)	Colour
ATT01	1	Management Office	GRIL	GR01-10	4-Way Diffuser	1500	0.100	25	2.5	RAL 9010
ATT02	1	Staff Kitchen (Basement)	GRIL	GR01-10	4-Way Diffuser	1500	0.100	25	2.5	RAL 9010
ATT03	1	Staff Kitchen (Basement)	GRIL	GR01-10	4-Way Diffuser	1500	0.100	25	2.5	RAL 9010

EXTRACT FAN SCHEDULE

Ref	Qty	Location	Manufacturer	Model	Type	Pressure Drop (Pa)	Volume (m³/s)	Throat (mm)	Notes (m)	Colour
EF01	1	Staff Kitchen (Basement)	GRIL	GR01-10	4-Way Diffuser	1500	0.100	25	2.5	RAL 9010

FAN SCHEDULE

Ref	Qty	Location	Manufacturer	Model	Type	Pressure Drop (Pa)	Volume (m³/s)	Throat (mm)	Notes (m)	Colour
FAN01	1	Staff Kitchen (Basement)	GRIL	GR01-10	4-Way Diffuser	1500	0.100	25	2.5	RAL 9010

EXTERNAL CONDENSER SCHEDULE

Ref	Qty	Location	Manufacturer	Model	Type	Pressure Drop (Pa)	Volume (m³/s)	Throat (mm)	Notes (m)	Colour
EC01	1	Staff Kitchen (Basement)	GRIL	GR01-10	4-Way Diffuser	1500	0.100	25	2.5	RAL 9010

AIR CONDITIONING SCHEDULE

Ref	Qty	Location	Manufacturer	Model	Type	Pressure Drop (Pa)	Volume (m³/s)	Throat (mm)	Notes (m)	Colour
AC01	1	Staff Kitchen (Basement)	GRIL	GR01-10	4-Way Diffuser	1500	0.100	25	2.5	RAL 9010

Ref	Rev	Description	By
001	01	ISSUED FOR CONSTRUCTION	M.D.
002	02	ISSUED FOR CONSTRUCTION	M.D.
003	03	ISSUED FOR CONSTRUCTION	M.D.
004	04	ISSUED FOR CONSTRUCTION	M.D.
005	05	ISSUED FOR CONSTRUCTION	M.D.
006	06	ISSUED FOR CONSTRUCTION	M.D.
007	07	ISSUED FOR CONSTRUCTION	M.D.
008	08	ISSUED FOR CONSTRUCTION	M.D.

GENERAL NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- F.A.I. AND EXHAUST AIR DUCTWORK & SECONDARY DUCTS FROM F.A.I. TO BE INSULATED.
- ACCESS PANELS TO BE INSTALLED IN LINE WITH DRAINAGE TABLE 30 UNDER DUCTWORK CONTRACTOR RESPONSIBILITY.
- ACCESS HATCHES SHOWN INDICATIVELY WHERE A REQUIREMENT IS NEEDED. SIZE AND SETTING OUT TBC BY ARCHITECT.
- DOOR TO STAFF W.C. TO BE UNDERCUT BY 50mm TO ALLOW SUFFICIENT REPLACEMENT AIR INTO THE ROOM.
- FINAL SETTING OUT OF GRILLES TO BE CONFIRMED BY ARCHITECT.
- FOR REFRIGERATION PIPEWORK REFER TO E5 SERIES DRAWINGS.
- LOCATION OF FIRE DAMPERS SHOWN AS PER: 3002-A, CTA-DWG-09-008, 3002-A-CTA-DWG-09-009 & 3002-A-CTA-DWG-09-010.
- ALL SETTINGS OUT BASED UPON CT REV MODEL REF: CMA-000-CT-ARCH-010-010-010.

VENTILATION LEGEND

- MECHANICAL VENTILATION HEAT RECOVERY UNIT
- 800mm x 600mm ACCESS HATCH
- INLINE EXTRACT FAN
- SUPPLY AIR GRILLE
- EXTRACT AIR GRILLE
- SUPPLY AIR VALVE
- EXTRACT AIR VALVE
- INDICATIVE ACCESS HATCH REQUIREMENT
- VOLUME CONTROL DAMPER
- FIRE DAMPER

DUCTWORK KEY

- SUPPLY DUCT
- EXTRACT DUCT
- FRESH AIR INTAKE DUCT
- EXHAUST DUCT

ameon
Building Services Engineering
Unit 9-10 Olympic Court, Boardmans Way
Wembley Business Park, Blackpool, FY4 6GU
Tel: 0253 760160
Fax: 0253 760150
E-mail: info@ameon.co.uk

CONSTRUCTION

Client	Job Title	Drawing Title	Date
Westfields	Angel Meadows Plot 3	PLOT 03 BASEMENT & GROUND FLOOR LANDLORD VENTILATION LAYOUT	2023-06-19
			Drawn by
			As indicated
			Drawing Number
			1002-MAME-ORG-67-ZZ-3001
			Revision
			C08

0m 2m 4m 6m 8m 10m
VISUAL SCALE 1:100 @ A0