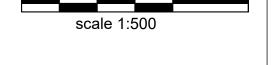




Scale:1/500



30m



Client Ms. Fang Fanglam

Rev. Date Revisions

Project 22 Torrington Place London WC1E 7HJ

1/500 @A3

Drawn By RG Checked By

Date

07/2024

Project No. 24062 Drawing No. E101

Existing Site Plan

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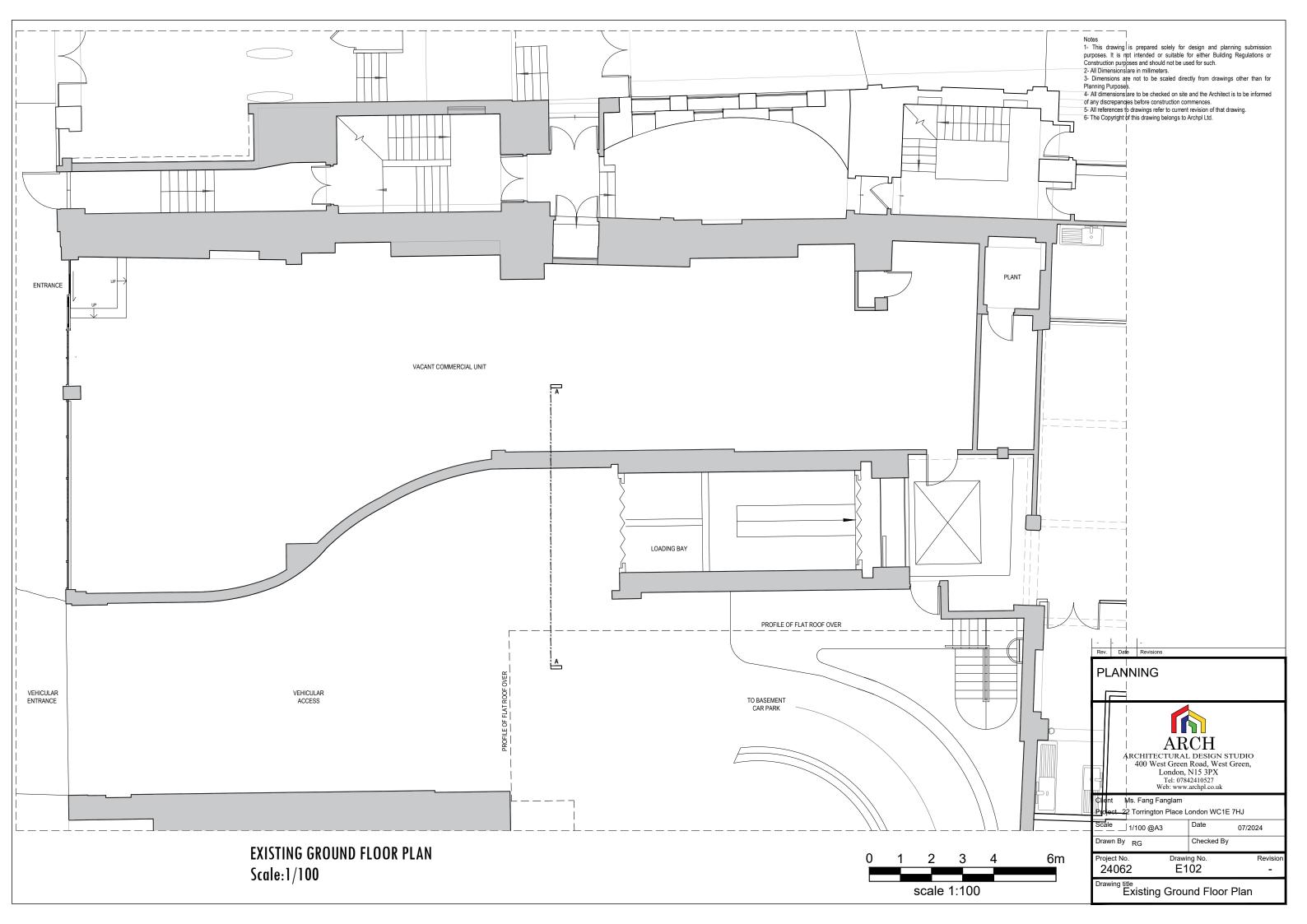
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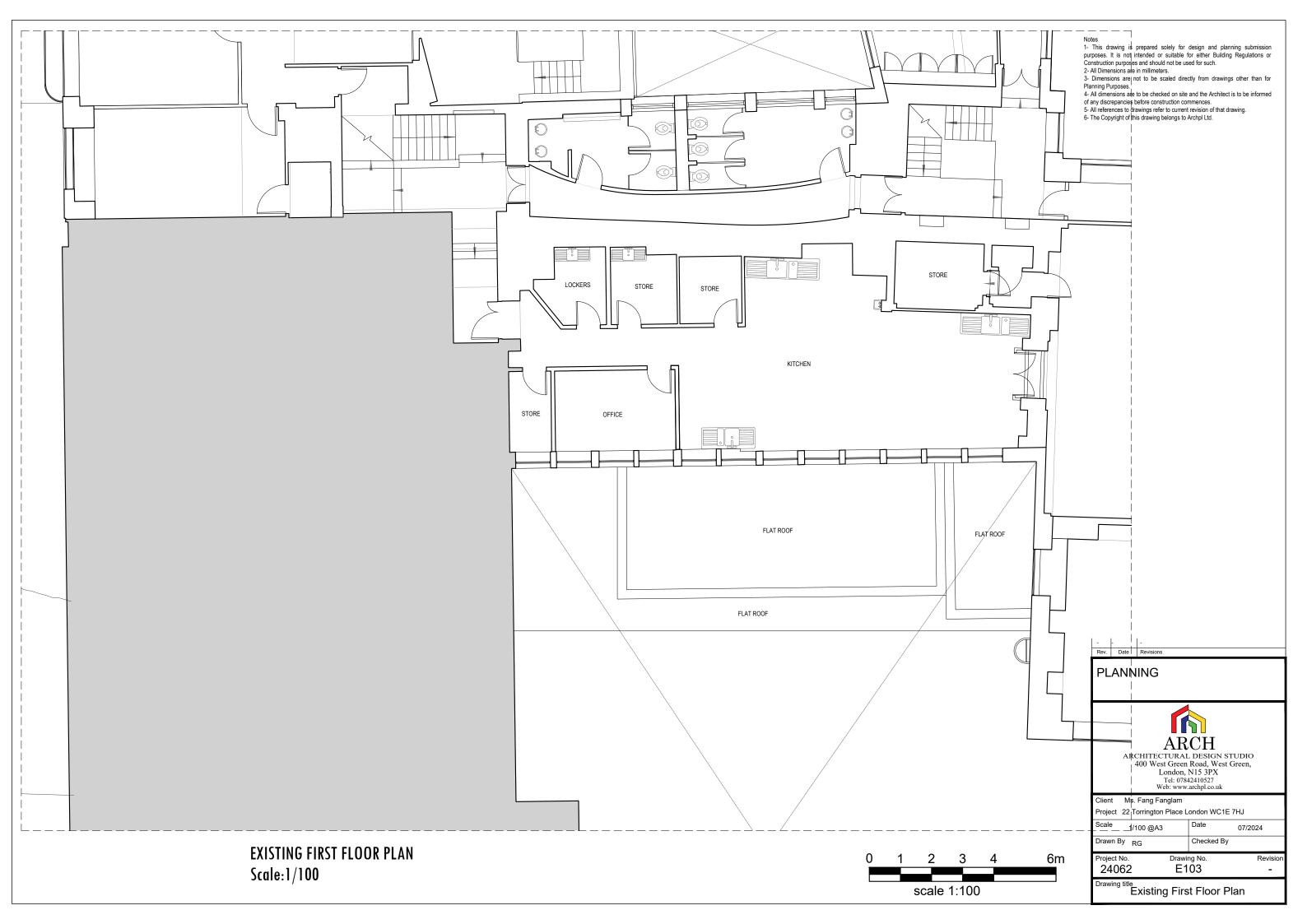
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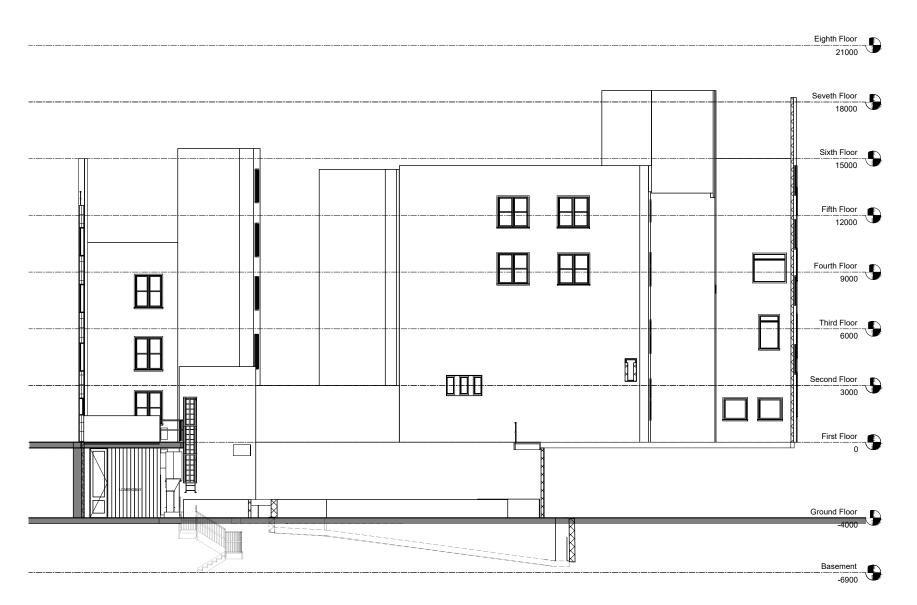
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**EXISTING NORTH ELEVATION** Scale:1/200

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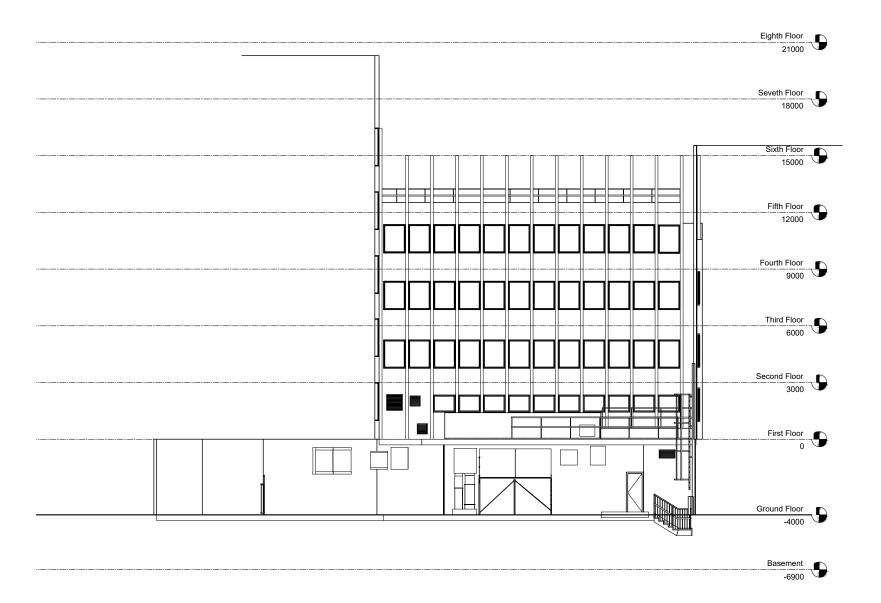
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10m

scale 1:200



**EXISTING EAST ELEVATION** Scale:1/200

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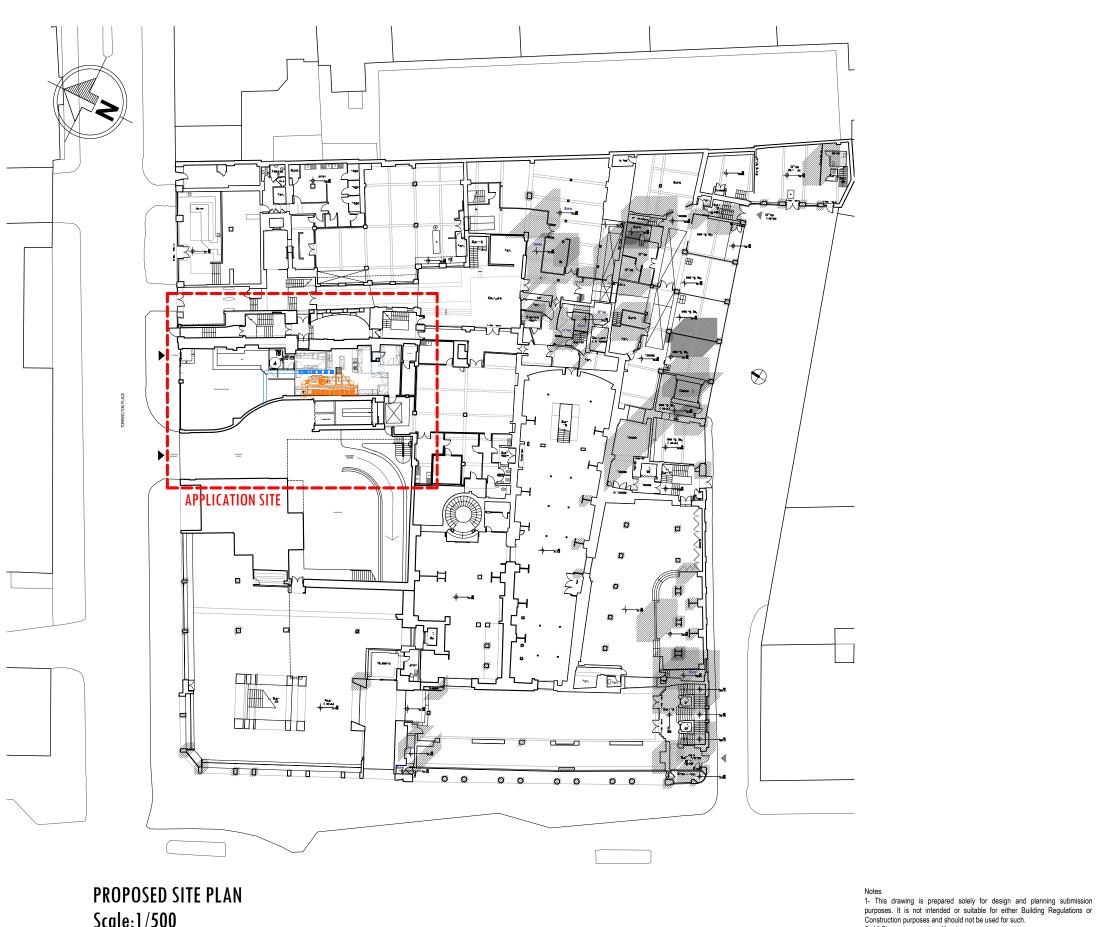
E105

**Existing East Elevation** 

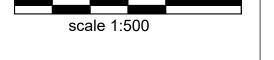
Revision

Project No. 24062

10m scale 1:200



PROPOSED SITE PLAN Scale:1/500



30m



Client Ms. Fang Fanglam

Project 22 Torrington Place London WC1E 7HJ

1/500 @A3

Drawn By RG Checked By

Date

07/2024

Project No. 24062

Drawing No. P101

Proposed Site Plan

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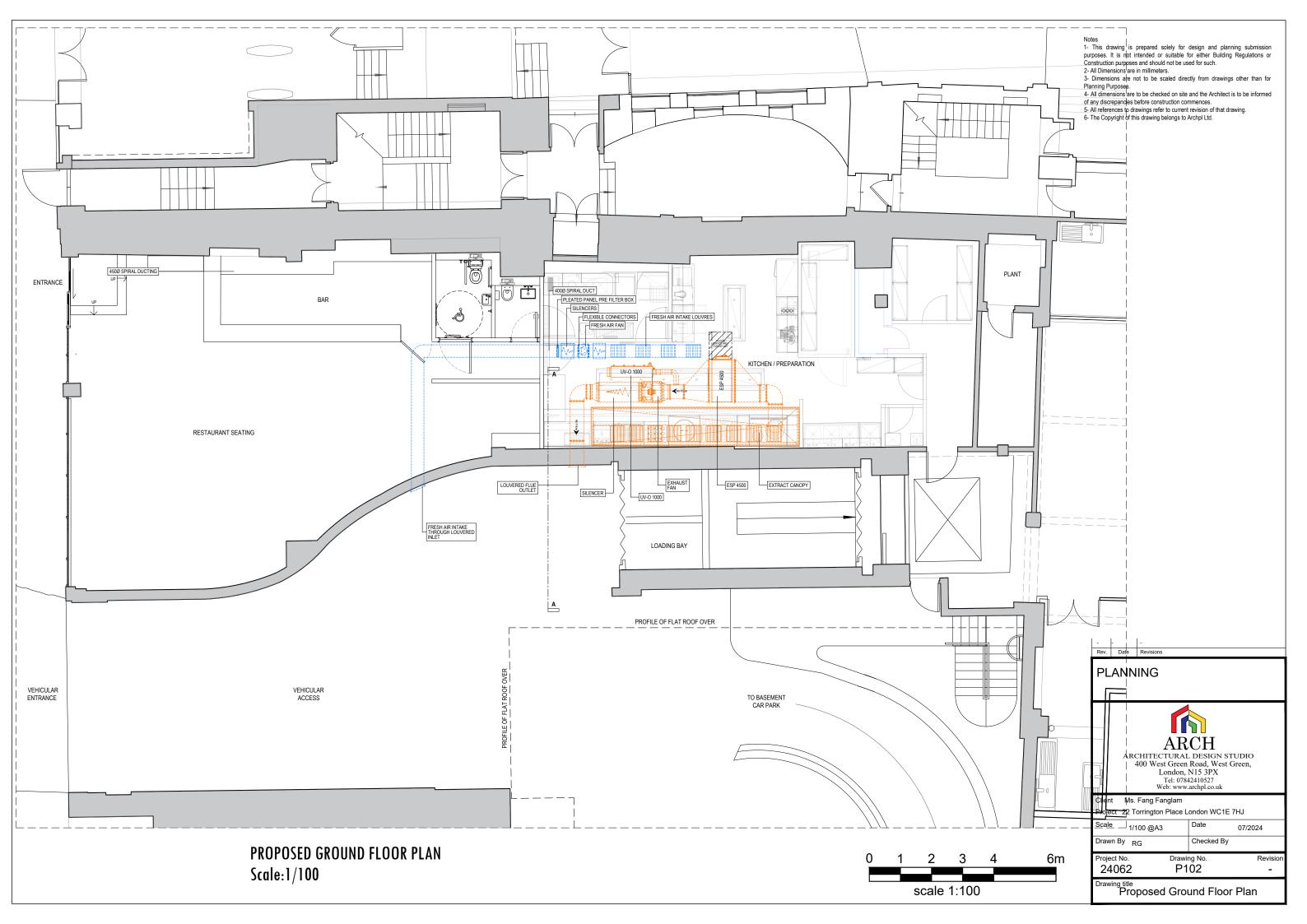
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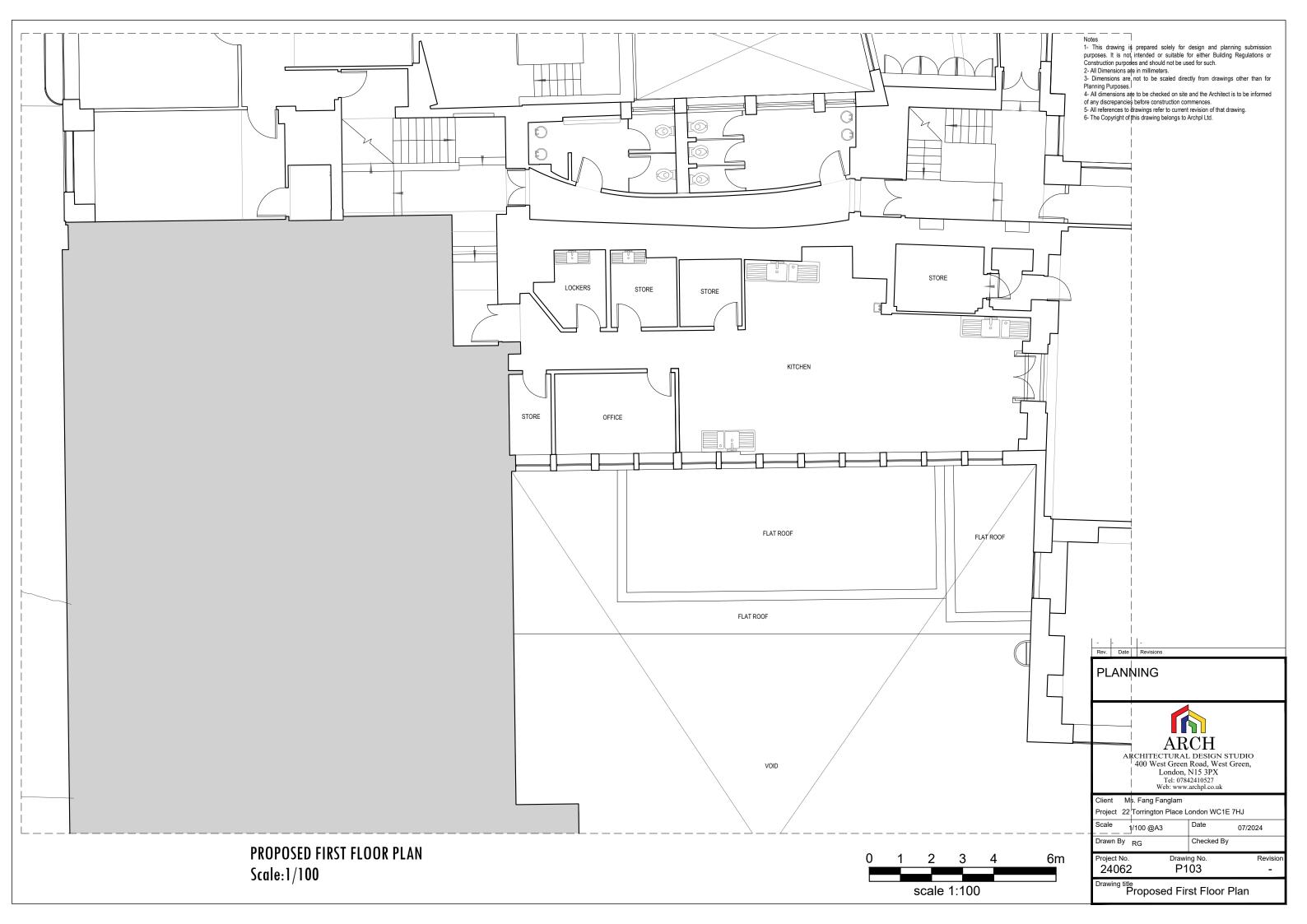
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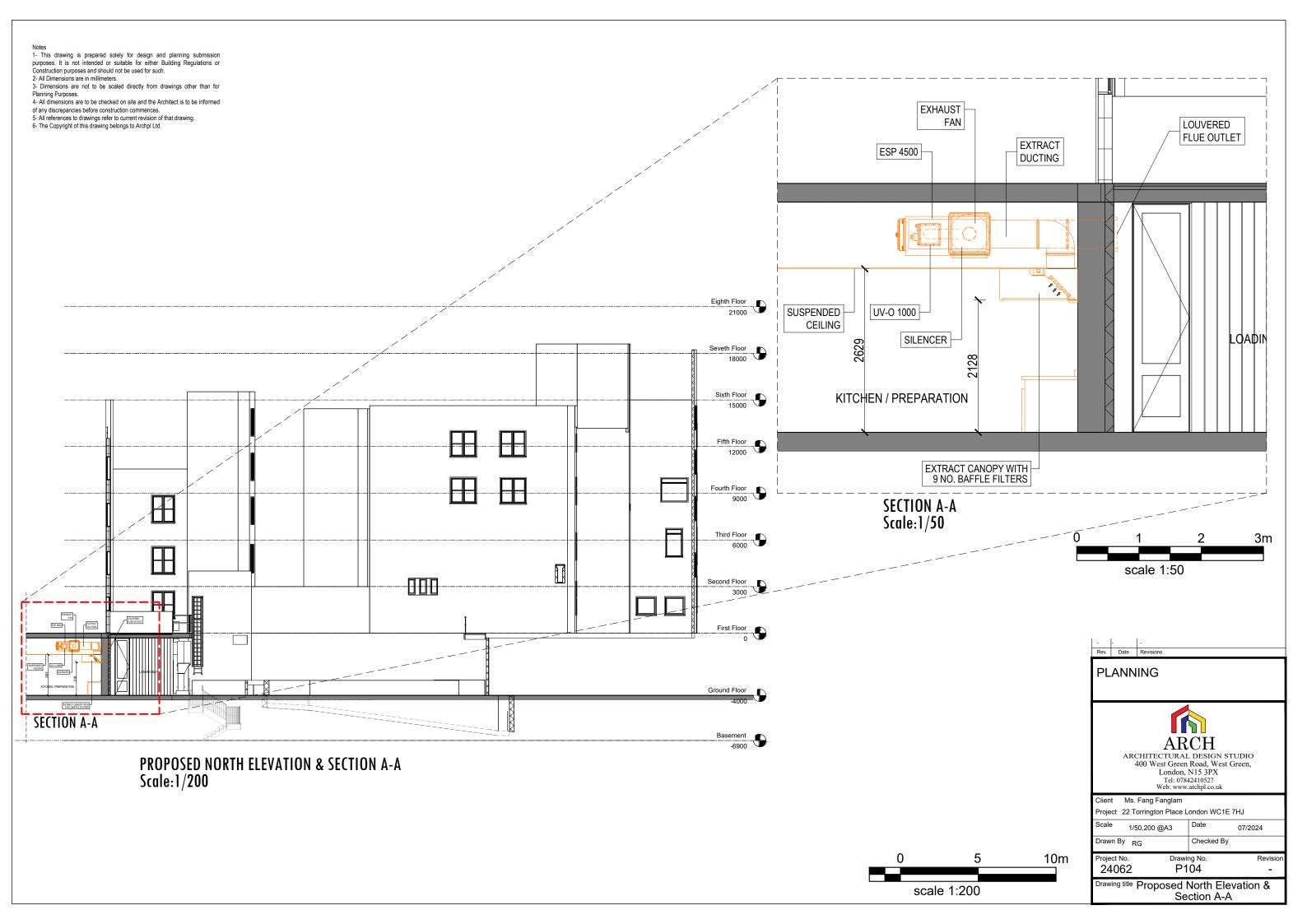
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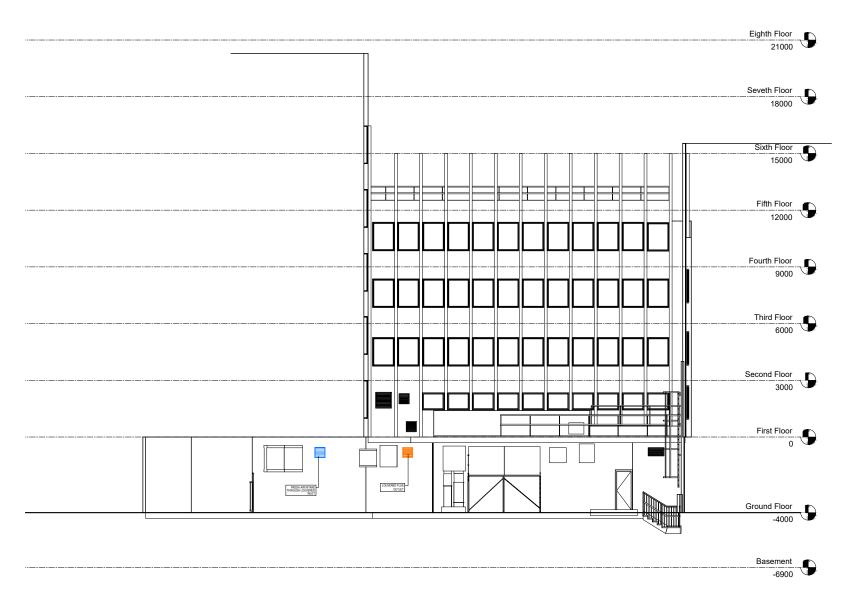
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PROPOSED EAST ELEVATION Scale:1/200

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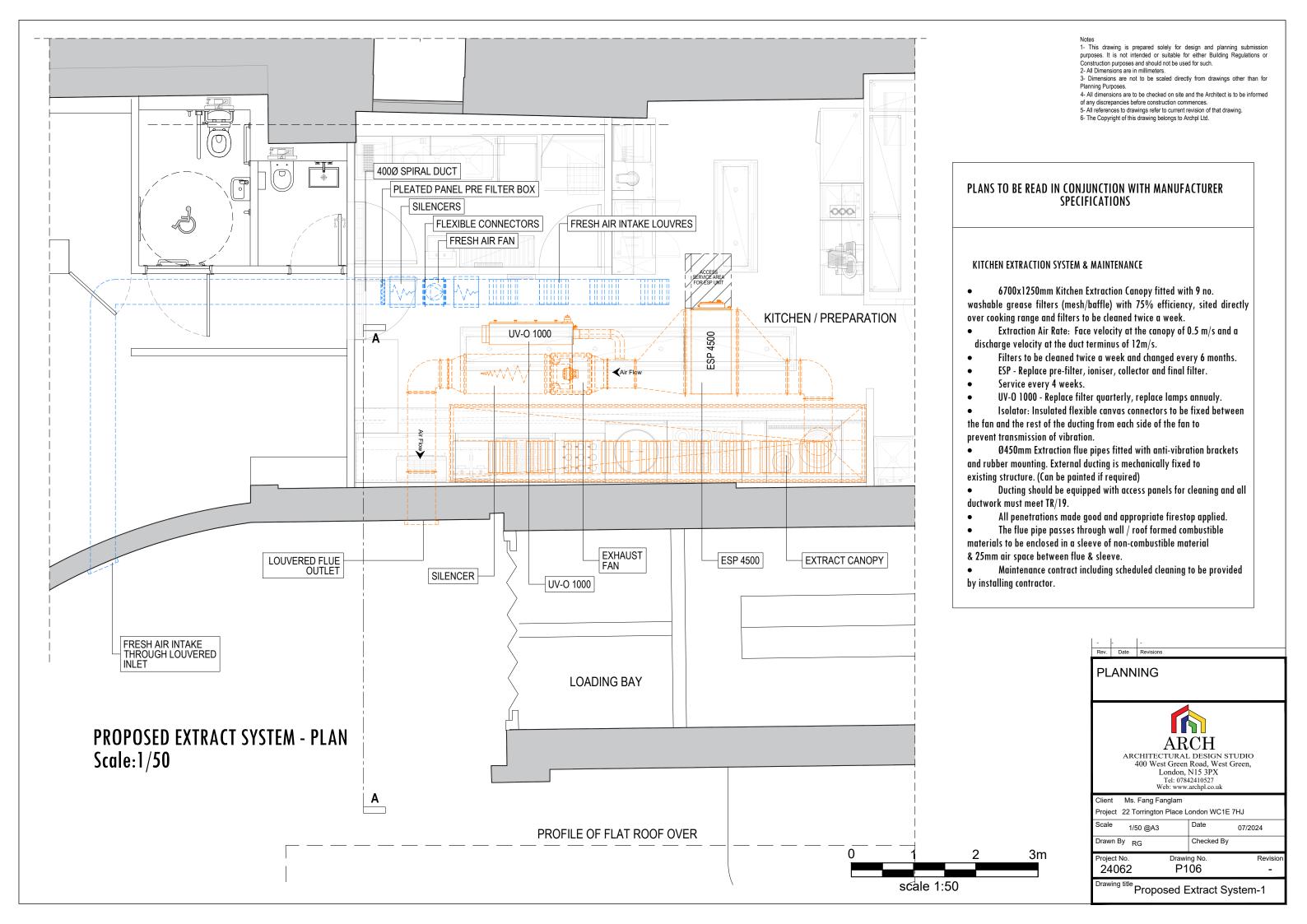
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Project No. 24062 Drawing No. P105 Revision

Checked By

Drawing title Proposed East Elevation

Drawn By RG



### EXTRACT SYSTEM DETAILS

Typical problems encountered with commercial kitchen

#### Ventilation systems are used-

linear extract method: each linear meter of active filter length is assigned a vent rate depending on the vent canopy type.

Source of Noise	How/Why Noise Arises
Extract/supply fan	Fan motor noise, Fan impeller turning

The dimensions of a canopy are dictated by the size of the catering equipment that it is serving, the two criteria that have the most influence on the amount of air required for effective ventilation are the plan dimensions and height.
unless restricted by walls etc., the plan dimensions of the canopy should always exceed the plan dimensions of the catering equipment by a minimum of 200mm on each free side and by 300mm at the front and rear. dimensions at the side may need to be increased where high output equipment is located at the end of the cooking line-up.

Where combination steamer and certain types of baking ovens are used, the overhang at the front should be 600mm to cope with steam or fumes that arise when the doors of the appliance are opened.

The height of the canopy is governed by the height of the ceiling and the underside of the canopy should be located between 2000 and 2100 mm above the finished floor level. the efficiency of canopies less than 400mm high are less than normal because the collection volume is reduced, in these situations, the face velocity may need to be increased to 0.5m/s to compensate. where the ideal flow rate cannot be achieved the size of the canopy may be increased to aid capture, the ideal distance between the lowest edge of the grease filter and the top of the cooking surface should be between 450mm to 1350mm. this is to avoid the risk of excessive temperatures or fire in the filter that could cause the extracted arease to

vaporise and pass through to the ductwork. this dimension will vary with the type of cooking appliance and can be reduced where fire suppression equipment is installed, but should never be below 1350mm where mesh filters are

Canopy type	Light duty	Medium duty		Heavy duty		Extra heavy duty
Wall mounted	0.23-0.31 (m3/s)	0.31-0.46(m	3/ <b>s</b> )	0.31-0.62 (m	3/ <b>s</b> )	>0.54 (m <sub>3</sub> /s)

# types of system are available:

cassette system: is an integrated system incorporating partitioned or dedicated extract and partitioned or dedicated supply. the systems are modular and contain a number of cassettes of proprietary design, which filter and separate grease from the air prior to its exhaust. the grease is normally collected in a non-drip integral or perimeter trough for removal and

materials of construction of canopy; the food safety (general food hygiene) regulations[20] requires that in food preparation areas:
'ceilings and overhead fixtures must be designed, constructed and finished to

prevent the accumulation of dirt and reduce condensation, the growth of undesirable moulds and the shedding of particles,' in relation to canopies, it is best practice to use stainless steel especially if the relevant surface comes directly into contact with food, typically canopies and other overhead fixtures are fabricated using ultra fine-grained stainless steel (grade 304). higher grades of stainless steel may also be specified.

## Other best practice avidelines include:

where air must be equalised within a supply plenum of a canopy 0.8 mm perforated stainless steel sheet should be used. in addition, care should be taken to ensure that the face velocity is about 0.7 m/s. noise generation increases when velocities of 0.9 m/s are exceeded

• discharge grills on make-up air system should be fabricated with 1mm perforated stainless steel sheet.

 condensation should be avoided in canopies that are provided with supply plenum, where insulation is used it should:

• be a rigid foil faced non fibrous slab, with a class 1 spread of flame; and

not be fibre based as this could contaminate food

kitchen ventilation systems often have relatively high resistance against which a fan has to operate. therefore, fans need to be sized to cope with a design pressure of a minimum additional 10% pressure margin. care must to be taken:
• to ensure operational changes e.g. build up of dirt on mesh filters are taken into

• if changes are made to the ventilation system that may alter the operating

to overcome such changes variable speed control or balancing dampers may be used, a range of impeller designs is available as follows:

backward curved centrifugal, mixed flow or axial flow impellers are preferred as they are less prone to imbalance and are easier to clean and maintain due to

their open construction.

• fixed or adjustable metal impellers are recommended.

• lightweight multi-vane or plastic-type impellers can warp and are prone to collecting grease. although plastic bladed fans can be used in non-grease, low

the fan must be able to operate at between 400 and 600 at 95% relative humidity motors should be rated to ip55. where fan motors sit within warm moist air streams, they should be upgraded to withstand more onerous conditions, to avoid excessive temperature build-up, temperature detectors should be fitted.

drain holes should be provided at the lowest point in the fan housing to remove ondensation. care needs to be taken to ensure that the drain hole do downgrade the index of protection (ip) of the motor.

dual or variable speed regulation are widely used, the fan must always operate at its design duty, especially when grease is being produced. a minimum extract level should be set within the speed regulator to ensure that, even at low speed, an adequate rate of ventilation is maintained, speed regulation should be applied to both make-up air and extraction air. speed regulation cannot be employed with water wash/cartridge systems as flow rates are fixed

make-up and extract fan operation should be interlocked with gas supply, so that gas supply is switched off if the fans fail, fans should be isolated when fire a suppression system is activated.

the connection between ductwork and fan housing should be suitable for use in grease-laden atmospheres and at duct temperature. joints must be clamped or bonded to prevent air leakage, under fire conditions the material should have a minimum integrity of at least 15 minutes.

#### Fan type Advantages Disadvantages Roof Extract Temperature limitations, but Good temp range when motor is suitable for kitchen use. Fans (Vertical Jet Discharge outside of air stream Easy removal for cleaning and Requires good roof access for vith Centrifugal Impellers More expensive than inline/ No space restrictions Good external appearance No discharge ductwork required

### Cartridae filters

Installed horizontally, cartridge filters comprise a high velocity slot opening on to a series of baffles which cause air to change direction four times compared to only twice in a conventional baffle filter. The cartridge filters are installed over the full length of the extract plenum and should be sloped to allow trapped grease to fall through a drain to a grease drawer. These filters are intended for heavy grease loads. Having a higher velocity enables lower air volumes to be used. Air balancing is required to prevent carry over of grease.

### Fine filtration:

A basic filtration system can be used to deal with a low intensity odour problem, but more usually will form a protective pre-treatment step before an activated carbon

Recommendations for maintenance of odour control system For a system employing fine filtration and carbon filtration;

- Change fine filters every two weeks
- Change carbon filters every 4 to 6 months
- For a system employing ESP and other in line abatement systems:

Noise reduction methods for various noise sources and transmission paths: Reflected sound from walls, ceiling, and walls.Direct sound can be controlled only by selecting quiet equipment. Reflected sound is controlled by adding sound absorption to room and to location of

Noise reduction methods for various noise sources and

iranzinizzion haniz	
Description	Noise reduction method
Direct sound radiated from sound source to ear. Reflected sound from walls, ceiling, and walls.	Direct sound can be controlled only by selecting quiet equipment. Reflected sound is controlled by adding sound absorption to room and to location of equipment.

Inadequate height of the discharge stack is one of the main reasons the emissions from a kitchen gives rise to odour nuisance. The stack design is paramount to

achieving good dispersion. Good stack dispersion requires:
• The effective stack height (discharge height plus plume rise) must be high enough to ensure that adequate dilution takes place before the plume interacts

 Discharge velocity influences the plume rise and therefore the effective stack height. The effective stack height can be estimated from:

 $\ddot{A}H = 3W.d/U$ 

W (m/s) is the efflux speed at the chimney top
U (m/s) is the wind speed at the height of the stack d (m) is the internal diameter of the stack Ideally W/U should be greater than 4. If W/V is less than 1.5, then down wash will occur resulting in a reduced effective stack height

• The discharge to be outside the wake of nearby buildings. Discharging ventilation air below a roof ridge may result in excessive entrainment within building down wash. In certain situations, the use of high velocity discharge systems can force

• The flow to be unimpeded. Cowls can increase the static pressure, noise, potential down draught and risk of re-entry of the exhaust back into the building. Alternative stack terminals are available and include:

terminals without integral drains e.g. reducing cone, solid top cones; and
 terminals with integral drains e.g. open top cone and drain, induction types and

sleeve type.
• Straight and vertical discharge.

Figure 4.5 shows examples of best stack design.

Guidance on stack requirements for commercial kitchens varies between Local Authorities. The range of guidance issued by Local Authorities is summarised below: • Guidance on the minimum stack height ranges from:

• 1 m above the eaves of the premises and/or above any dormer window:

1 m above ridge height of any building within 15 m; and
 low level discharge should be avoided.

 The height of external ground level should be taken into account when setting stack height. This is particularly important on rising ground where houses may be located above the discharge A stack should be positioned to be as far as possible from the nearest residential

A stack discharging into a semi-enclosed area such as a courtyard or the area

between back additions should be avoided.

• Use of Chinaman's hats or other cowls is not recommended

 The prevailing wind direction should also be considered in the ducting positioning • The ducting should be rigid in construction and resiliently mounted.

• Large section ducts may need bracing or stiffeners to prevent drumming.

In certain instances restriction on stack height might arise, for example:

• Where an A3 premises is a listed building and a visible stack is prohibited;

• Where an A3 premises is located within a conservation area and a visible stack is • Operators of the A3 premises do not have legal right to attach a stack to upper

Motor Frame Size and type

Silencer Type: Helios Flanged Circular Attenuator - RSD 450-800

Coarse or Greas	se filtration			
Filter type	Recommended Face Velocity (m/s)	Typical Efficiency	Advantages	Disadvantages
Cartridge	4.5-5.5 (at entry)	90-95%	Higher efficiency Non-overloading pressure drop	High pressure drop Special plenum fabrication required



- 1. Cooking particulates and odours
- 2. Canopy Grease Filter
- 3. ESP Particulate Control Unit
- 4. UV-O 1000 (below)
- 5. Ozone joins airflow

TECHNICAL SPECIFICATION	ESP 4500
Supply	220-240
Power Consumption	<b>40</b> <sub>w</sub>
Maximum Airflow	2.1 <sub>M3/SEC</sub> (UP TO)
Dimensions (mm)	W 1350 H 630 D 640
Weight	118кв

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NTS @A3 07/2024 Drawn By RG Checked By

Project No

Drawing No 24062 P107

Date

Revisio

Drawing title Proposed Extract System-2

### MINIMUM VENTILATION RATES:

- AN INTERNAL AMBIENT AIR TEMPERATURE OF 28 MAX.
- MAX. HUMIDITY LEVELS OF 70%
- DEDICATED MAKE UP AIR SYSTEM TO BE APPROXIMATELY 85% OF THE EXTRACT FLOW RATE MIN. AIR CHARGE RATE OF 40 PER HOUR

# MINIMUM REQUIREMENTS FOR CANOPY

- LIGHT LOADING - O 25m/s (APPLIES TO STEAMING OVENS ROLLING PANS RAINS MARIE AND STOCK-POT SERVERS) - MEDIUM LOADING - 0.35 m/s (APPLIES TO DEEP FAT FRYERS, BRATT PANS SOLID AND OPEN TOP RANGES AND

- HEAVY LOADING - 0.5 m/s (APPLIES TO CHARGRILLS, MESQUITE AND SPECIALIST BROILER UNITS)

- A MATERIAL THAT WOULD COMPLY WITH THE FOOD HYGIENE REQUIREMENT IS STAINLESS STEEL.

#### Grease Filtration

- HAVE A MIN. PERFORMANCE THE SAME AS A BAFFLE FILTER

#### - BE EASY TO CLEAN

# MINIMIIM REQUIREMENTS FOR DUCT WORK

- ALL DUCTWORK SHOULD BE LOW PRESSURE CLASS A AND CONSTRUCTED IN ACCORDANCE WITH HYCA SPECIFICATION

- DUCT VELOCITIES SHOULD BE AS FOLLOWS

SUPPLY (m/s) EXTRACT (m/s)

MAIN RUNS BRANCH RUNS

- ALL INTERNAL SURFACES OF THE DUCTWORK SHOULD BE ACCESSIBLE FOR CLEANING AND INSPECTION. ACCESS PANELS SHOULD BE INSTALLED AT 3.0m CENTERS AND SHOULD BE GREASE TIGHT USING A HEAT PROOF GASKET OR SEALANT. DUCT WORK SHOULD NOR PASS THROUGH FIRE RARRIERS

WHERE IT IS NOT POSSIBLE TO IMMEDIATELY DISCHARGE THE CAPTURED AIR, FIRE RATED DUCTWORK MAY BE REQUIRED.

## MINIMUM REQUIREMENTS FOR FANS

FANS MUST BE CAPABLE OF DEALING WITH THE OPERATING STATIC PRESSURE WITHIN THE DUCT WORK SHOULD BE DESIGNED WITH A MIN. 10% PRESSURE MARGIN (NOTE OPERATING STATIC PRESSURE WILL INCREASE THROUGHOUT A

BACKWARD CURVED CENTRIFUGAL, MIXED FLOW OR AXIAL FLOW IMPELLERS ARE PREFERRED AS THEY ARE LESS PRONE TO IMBALANCE AND ARE MORE EASILY MAINTAINED/CLEANED DUE TO THEIR OPEN CONSTRUCTION. FIXED OR ADJUSTABLE METAL IMPELLERS WITH A ROBUST AND OPEN CONSTRUCTION SHOULD BE USED

FAN MOTORS SHOULD BE RATED TO IRSS WITH NO NEED TO MOUNT THE MOTOR OUTSIDE OF THE AIR STREAM FOR FANS THAT HAVE MOTORS WITHIN THE AIR STREAM AND ARE VENTILATING COOKING EQUIPMENT THAT PRODUCE HIGH LEVELS OF TEMPERATURE AND HUMIDITY THE SPECIFICATION FOR THE MOTOR SHOULD BE UPGRADE TO WITHSTAND MORE

# MINIMUM REQUIREMENTS FOR ODOUR CONTROL

# OBJECTIVES

- FOR NEW PREMISES OR PREMISES COVERED BY PLANNING CONDITIONS RESTRICTING THE IMPACT OF ODOUR THE SYSTEM SHALL BE DESIGNED TO PREVENT HARM TO AMENITY.

- FOR EXISTING PREMISES NOT COVERED BY PLANNING CONDITIONS RESTRICTING THE IMPACT OF ODOUR, THE SYSTEM SHALL BE DESIGNED TO AVOID STATUTORY NUISANCE AND SHALL COMPLY WITH THE PRINCIPLES OF BEST PRACTICAL

TO ACHIEVE THESE OBJECTIVE THE ODOUR CONTROL SYSTEM SHALL INCLUDE AN ADEQUATE LEVEL OF

# 1 ODOLIR CONTROL - AND

2.STACK DISPERSION.

THE OVERALL PERFORMANCE OF THE ODOUR ABATEMENT SYSTEM WILL REPRESENT A BALANCE OF 1 AND 2.

# THE DISCHARGE STACK SHALL:

1. DISCHARGE THE EXTRACTED AIR NOT LESS THAN 1m ABOVE THE ROOF RIDGE OF ANY BUILDING WITHIN 20m OF THE BUILDING HOUSING THE COMMERCIAL KITCHEN.
2. IF 1 CANNOT BE COMPLIED WITH FOR PLANNING REASONS, THEN THE EXTRACTED AIR SHALL BE DISCHARGE NOT LESS

THAN 1m ABOVE THE ROOF EAVES OR DORMER WINDOW OF THE BUILDING HOUSING THE COMMERCIAL KITCHEN. ADDITIONAL ODOUR CONTROL MEASURES MAY BE REQUIRED.

3. IF 1 OR 2 CANNOT BE COMPLIED WITH PLANNING REASONS, THEN AN EXCEPTIONALLY HIGH LEVEL ODOUR CONTROL

### ODOUR ARRESTMENT PLANT PERFORMANCE

LOW TO MEDIUM LEVEL CONTROL MAY INCLUDE: 1. FINE FILTRATION OR ESP FOLLOWED BY CARBON FILTRATION (CARBON FILTERS RATED WITH A 0.1 SECOND RESIDENCE TIME) - ESP3000E ELECTROSTATIC PRECIPITATOR FINÈ FILTRATION SYSTEM WILL BE INSTALLED BEFORE

2 FINE FILTRATION FOLLOWED BY COUNTERACTANT/ NEUTRALIZING SYSTEM TO ACHIEVE THE SAME LEVEL OF

### HIGH LEVEL ODOUR CONTROL MAY INCLUDE:

1. FINE FILTRATION OR ESP FOLLOWED BY CARBON FILTRATION (CARBON FILTERS RATED WITH A 0.2-0.4 SECOND RESIDENCE TIME ) - ESP3000E ELECTROSTATIC PRECIPITATOR FINE FILTRATION SYSTEM WILL BE INSTALLED BEFORE

2. FINE FILTRATION OR ESP FOLLOWED BY UV OZONE SYSTEM TO ACHIEVE THE SAME LEVEL OF CONTROLS AS 1.

#### VERY HIGH LEVEL ODOLLR CONTROL MAY INCLUDE:

1 FINE FILTRATION OR ESP FOLLOWED BY CARRON FILTRATION (CARRON FILTERS RATED WITH A O 4-O 8 SECOND RESIDENCE TIME) - ESP3000E ELECTROSTATIC PRECIPITATOR FINE FILTRATION SYSTEM WILL BE INSTALLED BEFORE THE FAN / MOTOR UNIT.

2. FINE FILTRATION OR ESP FOLLOWED BY CARBON FILTRATION AND BY COUNTREACTANT/NEUTRALISING SYSTEM TO ACHIEVE THE SAME LEVEL OF CONTROL AS 1

3. FINE FILTRATION OR ESP FOLLOWED BY UV OZONE SYSTEM TO ACHIEVE THE SAME LEVEL OF CONTROL AS 1. 4. FINE FILTRATION OR ESP FOLLOWED BY WET SCRUBBING TO ACHIEVE THE SAME LEVEL OF CONTROL AS 1.

MAINTENANCE MUST BE CARRIED OUT TO ENSURE THESE PERFORMANCE LEVELS ARE ALWAYS ACHIEVED.

## MINIMUM REQUIREMENTS FOR NOISE CONTROL

FOR NEW PREMISES OR PREMISES COVERED BY PLANNING CONDITIONS RESTRICTING THE IMPACT OF NOISE THE SYSTEM SHALL BE DESIGNED TO PREVENT AN ACOUSTIC IMPACT ON EXTERNAL ENVIRONMENT AND THEREFORE HARM TO THE AMENITY, AS WELL AS ENSURING THAT NOISE EXPOSURE OF KITCHEN STAFF DOES NOT CONSTITUTE A HEARING HAZARD

FOR EXISTING PREMISES NOT COVERED BY PLANNING CONDITIONS RESTRICTING THE IMPACT OF NOISE THE SYSTEM SHALL BE DESIGNED TO AVOID STATUTORY NUISANCE AND SHALL BE COMPLY WITH THE PRINCIPLES OF `BEST PRACTICABLE

TO ACHIEVE THESE OBJECTIVES THE NOISE CONTROL SYSTEM SHALL INCLUDE:

CONTROL OF NOISE AT SOURCE TO THE GREATEST EXTENT POSSIBLE (WITH THE ADDED BENEFIT OF HEARING

CONTROL OF NOISE TO THE ENVIRONMENT BY TAKING ACQUSTIC CONSIDERATION INTO ACCOUNT WITHIN DUCT, GRILLE

THE CONTROL SYSTEM SHOULD MEET THE REQUIREMENTS LAID DOWN IN BS4142: 1997 "METHOD FOR RATING INDUSTRIAL NOISE AFFECTING MIXED RESIDENTIAL AND INDUSTRIAL AREAS"

# MINIMUM REQUIREMENTS FOR FIRE SUPPRESSION

PROPRIETORS OF COMMERCIAL KITCHEN ARE UNDER A DUTY TO ENSURE THAT THE FIRE PRECAUTIONS MEET THE REQUIREMENTS OF THE `FIRE PRECAUTIONS (WORKPLACE) REGULATIONS 1997

PROPRIETORS OF COMMERCIAL KITCHENS HAVE A DUTY TO ENSURE THAT THE VENTILATION SYSTEM SERVING THE RESPECTIVE PREMISES ARE MAINTAINED AND OPERATED EFFECTIVELY. GOOD MAINTENANCE IS A PREREQUISITE FOR ENSURING THAT A SYSTEM COMPLIES WITH BEST PRACTICABLE MEANS UNDER STATUTORY NUISANCE PROVISION AND WILL FORM A KEY ELEMENT OF ANY SCHEME DESIGNED TO MINIMIZE HARM TO THE AMENITY UNDER PLANNING REGULATION. GOOD MAINTENANCE IS REQUIRED BY THE FOOD HYGIENE REGULATIONS AND WILL ALSO MINIMIZE THE RISK OF FIRE. THE RECOMMENDED CLEANING PERIOD FOR EXTRACT DUCTWORK IS:

HEAVY LISE 12-16 HOLIRS PER DAY 3 MONTHLY 6-12 HOURS PER DAY MODERATE USE 6 MONTHLY 2-6 HOURS PER DAY ΔΝΝΙΙΔΙΙΥ

# RECOMMENDATIONS FOR MAINTENANCE OF ODOUR CONTROL SYSTEM INCLUDE:

- SYSTEM EMPLOYING FINE FILTRATION AND CARRON FILTRATION CHANGE CARRON FILTERS EVERY 4 TO 6 MONTHS - USE A SYSTEM EMPLOYING ESP AND OTHER IN LINE ABATEMENT.

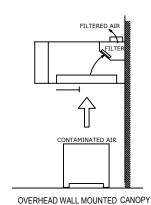
# CLEAN EVERY 2-6 MONTHS.

EMAQ+ (Environmental Monitoring & Air Quality) Training and Technical Guidance from Experts
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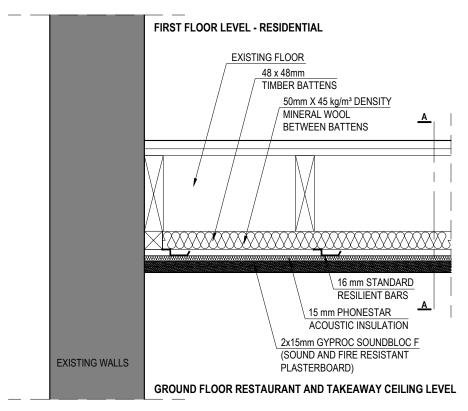
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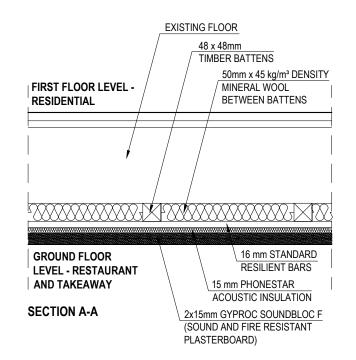
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Project 22 Torrington Place London WC1E 7HJ Date NTS @A3 07/2024 Drawn By RG Checked By Project No Drawing No Revisio 24062 P108

Drawing title Proposed Extract System-3



TYPICAL DETAIL - scale 1:10 NOISE AND FIRE MITIGATION MEASURES BETWEEN THE GROUND FLOOR RESTAURANT AND THE FIRST FLOOR RESIDENTIAL UNITS



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Drawing title
Proposed Noise Mitigation Measures

10 20 40 60cm scale 1:10