

1. General Design Requirements

Overview

The following section outlines the requirements for buildings and uses of the new build part of the development. It should be noted that the information is a summary of detail designs provided by the Design Team in the form of drawings, specifications, schedules & reports that should be consulted for detail explanations.

1.1. Service and Component Life

New materials will comply with BS 7543 and BS ISO 15686. The design and service life of the building and component parts will be as listed below. Maintenance will be required during this service life, in accordance with the component suppliers' recommendations.

- Structural frame	50 years
- Structural frame (new structural elements only)	50 years
- Cladding - Primary components	60 years
- Cladding - Secondary components	30 years
– Cladding – Door & ironmongery	10 years
 Roof coverings 	25 years
- Internal wall	25 years
- Mechanical & electrical services	in accordance w

Mechanical & electrical services in accordance with CIBSE guide
 M table 12.A1 (New Plant)

1.2. Sustainability Standards

1.2.1 BREEAM

New build BREEAM target will be Very Good. The building is being assessed under BREEAM New Construction Core and Shell. Green Lease Agreements outlining fit out obligations are to be incorporated by the tenant, to ensure compliance with BREEAM. Refer to the project environmental report and appendix for further details.

1.2.2. Energy Efficient Systems

In order to comply with Building Control and Planning requirements the tenant must comply with relevant Part L Requirements including fit out equipment efficiencies. Refer to the environmental report appendix for further details.

Fire Protection

- This document is to be read in conjunction with the fire strategy report.
- Fire rated steel structure in accordance with the Fire Strategy report. Refer to SKA-FP-100 Additional Fire protection to Basement 09 12 2016 & Fire Strategy Report

2.1. Main Events Space

Room Name & Number

Events Space / Room A.B1.06

Brief

To provide a multipurpose events space for 2,200 people incl staff with finishes in accordance with "base build" definition as noted below.

Architectural

Base build FFL to Soffit: 8.400m nom.

Base build FFL to U/S of beam: 7.785m nom.

Occupancy Level:

800 ppl total with ability to enhance to 2000 people plus 200 staff.

Suggested split for enhanced scheme:

- 1670 ppl. @ B1 Level
- 330 ppl. @ MZ Level
- 200 staff

Walls

- Box in Box exposed masonry wall by the main contractor to 58dB Rw. Tenant to compliment acoustic desing criteria to values as recommended in the Acoustic Report.
- 60mim fire resistance around main space &120min compartmentatin. Refer to Fire Strategy Report and Orms FR series for locations
- No skirtings

Partitions

 Partitions between main space and ancillary areas to be in paint grade blockwork Acoustic rating ≥55dB Rw. Refer to Acoustic report annex for locations

Floor

Power float concrete slab with access to jetting points for cavity drainage system below

Ceiling

Exposed Box in Box composite deck soffit with intumescent painted primary steel. Structural support grid provided for fit out by the operator to structural engineer design.

Doors

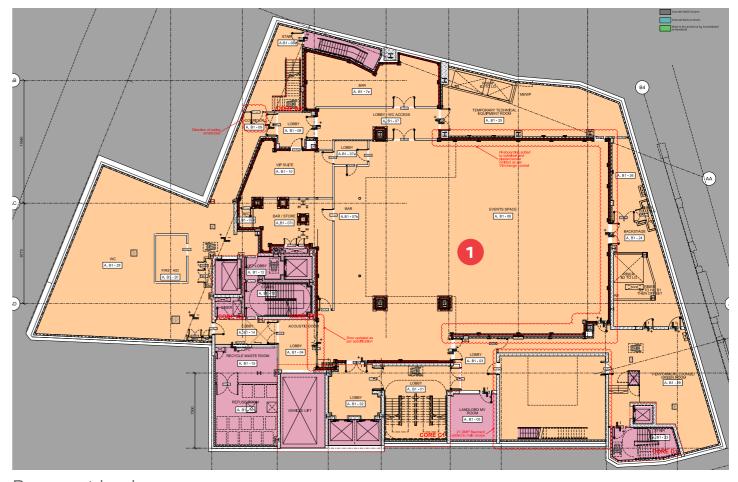
- Hardwood frame doors with full height high pressure laminate. Riser doors to be in painted finish.
- Stainless steel ironmongery
- Doors to be fire rated FR3OS & FR6OS.
 Refer to Fire Strategy Report and Orms
 FR series for locations
- Acoustic performance 25dB Rw & 40dB Rw. Refer to Acoustic report annex for locations
- ACS

Signage

Statutory only

Structural Imposed Load

- Uniform Distributed Load qk 10.0 (kN/m2)
- Concentrated Loads gk 15.0 (kN)
- Horizontal Loads on Partitions, Walls and Parapets qk 3.0 (kN/m)
- Frequency >8.4 Hz



Basement level

KEY

Base build

Common parts

Capped off Services

- Response Factor N/A
- Criteria Client Requirement
- Suspended Loads Refer to drawings
- Digital Screens gk 1.0 (kN/m2) to wall elevations-Refer to drawings

Superimposed Dead Load

Nominal Load for Services and Finishes gk 0.5 (kN/m2)

Mechanical

Temperature:

-Winter 21 +/- 2 -Summer 24 +/- 2

Ventilation and Environmental Strategy

- Type Mechanical supply & extract
- Rate 8I/s/person at full 2000 person occupancy. Tenant to install centralised air handling plant with all associated chiller water and LTHW connections.

2.1. Main Events Space

Landlord Installation

The following capped services shall be provided:

- Capped ductwork from above ground intake and exhaust louvres
- Metered chilled water flow and return (7/12°C) capped at riser
- Metered LTHW flow and return (70/50°C) capped at riser
- Metered domestic water

Tenant Installation

- Events gallery AHU(s) and ductwork to serve events gallery. Supply and extract ductwork, grilles, dampers, insulation etc. to serve the Events Gallery and ancillary areas.
- Extension to the chilled water and LTHW connections including FCUs and radiators or trench heaters within the ancillary spaces not conditioned by the main events space air handling plant.

Electrical

Power: - Small Power 25 W/m2 Lighting: - Work Lighting 9W/m2

12W/m2

Landlord Installation:

- House Lighting

- Power supplies and distribution boards serving specialist venue systems. Refer to 3.2.5 back of house and section 8 Theatre consultant section
- All specialist venue systems temporary power panels
- Spare taps off on busbar for serving distribution boards in future fit out of general small power, house and work lighting.

- Temporary general and emergency lighting.
- Minimum fire detection and alarm system.
- Containment within riser for future ICT cabling.

Tenant Installation:

- Extension of power supplies from the distribution boards provided for specialist venue systems to suit fit out requirements.
- Metered distribution boards and power supplies to suit fit-out.
- Provision of small power, house lighting and work lighting.
- Extension of fire alarm system to suit fit out.
- Lighting including general, display and production lighting.
- LED Screens.

Public Health

Cold water storage: 4 litre / person Hot water storage 1 litre / person Based on 2000 people

Landlord Installation

- Metered domestic hot and cold water services, capped at local riser.
- Sanitary drainage stub stacks and vent pipes.
- Sprinkler main with zone valve and single sprinkler head

Tenant Installation

 Supply and installation of any sanitary ware and kitchenette equipment required. -Extension of the domestic hot and cold water supplies to serve any sanitary ware and connection to the drainage stub stacks provided. Trace

- heating to domestic hot water where required.
- Extension of the sprinkler system to suit layout.

Acoustic

Interior noise criteria when rooms are unoccupied:

- Ground borne (railway noise)	NR 30
- Equivalent LAeq	35dBA
- Services and other noise	NR 30
- Equivalent LAeq	35dBA
- Events gallery bar	NR 45
- Equivalent LAeq	50dBA

Security

Criteria: TBA

Camera coverage to allow recognition as shown on drawings.

Access control to doors.

Lifts

 The Events Gallery is served by vertical transportation as follows.

Core A1 / F1 (Fire fighting lift)
Core A2 / G1 (Goods lift)

Core C1 / G2 (Vehicle lift)

Core C1/ P9 & P10 (Passenger)

Core D1 / PG8 (Passenger and goods

For further information refer to the lift specification.

A/V

Landlord Installation:

 Power supplies and distribution boards serving specialist venue systems, Stage lighting / Audiovisual / Stage Engineering / Screens) including all

- cabling and containment runs back the main electrical intake.
- All specialist venue systems temporary power panels
- BWIC zones to accommodate specialist venue systems containment routes in the field
- The new slab for the production/ broadcast facility but no partitions etc. or specialist services - only domestic services on a temporary, (surfacemounted) basis that will allow removal or reconfiguration during fit-out
- Television stub up for Tenant installation

Tenant Installation:

- LED Screens.
- Fit out of specialist venue systems equipment.
- Supply of all production and ICT equipment and the provision of associated local cooling.
- Secondary structure associated with screen mountings across the site, (not the mounting systems but the frames/ galleries/columns to which they will be fixed)
- Refer to section 8 of this report for full details

Miscellaneous

 Technical gantry around Events Gallery by Tenant. Refer to structural engineer's drawings for interface

WiFi

2.2. Bar Areas

Room Names & Numbers

- B1 Level: Bar / A.B1.07c & 07b
- B1 Level: Temporary Bar or Preparation Kitchen / A.B1.07e
- MZ Level: Bar / A.B1.06

Brief

To provide fixed and temporary spaces for bar and food preparation to suit multiple types of events with finishes in accordance with "base build" definition as noted below.

Architectural

Following areas included in Events Space

Base build FFL Soffit: B1 Bar 2.745M

B1 Temp Bar: 3.400m

MZ Bar 4.770m nom.

Base build FFL to U/S of beam:

B1 Bar 2.735mnom.

B1 Temp Bar:3.115 nom.

MZ Bar: 4.770m nom.

Occupancy Level: Refer to events space

Walls

- Box in Box exposed masonry wall by the main contractor to 58dB Rw. Tenant to compliment acoustic design criteria to values as recommended in the Acoustic Report.
- 60mim fire resistance around main space &120min. Refer to Fire Strategy Report and Orms FR series for locations
- No skirtings

Partitions

- Partitions between main space and ancillary areas to be in paint grade blockwork

- Acoustic rating ≥55dB Rw. Refer to Acoustic report annex for locations
- Plasterboard infill partitions to be taped and jointed only. No finises

Floor

Power float concrete slab at B1 level and MZ level

Ceiling

Exposed metal deck with primary steel fire protected with intumescent paint

Doors

- Hardwood frame doors with full height high pressure laminate to door leaf. Riser doors to be in painted finish
- Stainless steel ironmongery
- Fire rating N/A
- Acoustic performance 25dB Rw. Refer to Acoustic report annex for locations

Signage

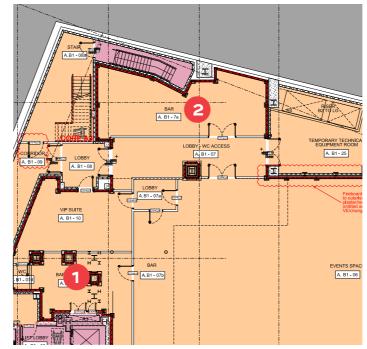
Statutory only

Bar areas at ground (1&2) Structural

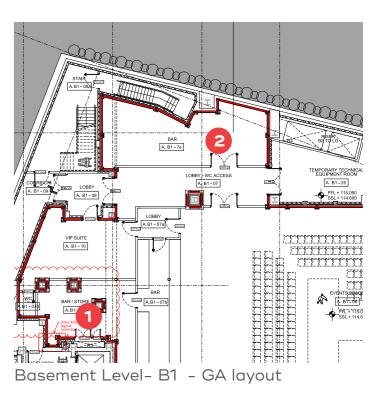
Imposed Load

- Response Factor

- Uniform Distributed Load including partitions ak 10.0 (kN/m2)
- Concentrated Loads Ok 15.0 (kN)
- Horizontal Loads on Partitions, Walls and Parapets ak 3.0 (kN/m)
- Frequency >8.4 Hz N/A
- Client Requirement -Criteria

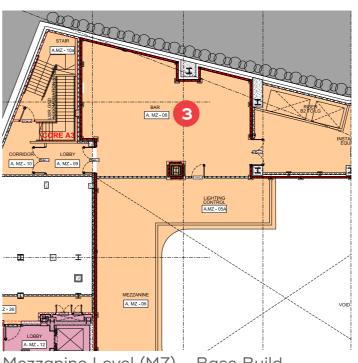


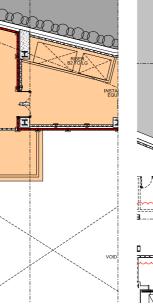
Basement Level B1 - Base Build



A. MZ - 06

Mezzanine Level - MZ GA layout





Mezzanine Level (MZ) - Base Build



- 1. Bar
- 2. Temporary bar or preparation kitchen
- 3. Bar (Wall Removed for Stage 3 design update)

VIP LOUNGE A. MZ - 07



Capped off Services

2.2. Bar Areas

Superimposed Dead Load

 Nominal Load for Services and Finishes gk 0.5 (kN/m2)

Bar areas at Mezzanine (3)

Structural

Imposed Load

- Uniform Distributed Load including partitions qk 5.0 (kN/m2)
- Concentrated Loads Qk 4.5 (kN)
- Horizontal Loads on Partitions, Walls and Parapets qk 3.0 (kN/m)
- FrequencyResponse FactorN/A
- Criteria Client Requirement

Superimposed Dead Load

- Nominal Load for Services and Finishes gk 2.1 (kN/m2)
- 1.6kN/m2 for floor finishes
- 0.5kN/m2 for ceiling and services

Mechanical

Temperature:

Winter 22 + / - 2Summer 24 + / - 2

Ventilation Rate 8 l/s/person fresh air Occupancy included in events gallery

Landlord Installation:

- Metered chilled water flow and return connection (7/12°C), capped at riser.
- Metered LTHW flow and return connection (70/50°C), capped at riser.

Tenant Installation:

- Supply and extract ductwork, grilles, dampers, insulation etc. from the main events gallery AHU(s) to serve space.
- Extension to the chilled water and LTHW connections including FCUs and radiators or trench heaters within the ancillary spaces not conditioned by the main events space air handling plant.

Electrical

Power

Small Power 25W/m2

Lighting

Work lighting 9W/m2
House Lighting 12W/m2

Landlord Installation:

- Rising busbar with spare tap offs in local riser.
- Minimum fire detection and alarm system.
- Temporary general and emergency lighting.
- Containment within riser for future ICT cabling.

Tenant Installation:

- Containment, Metered distribution boards and power supplies to suit fit out
- Provision of small power, house lighting and work lighting.
- Extension of fire alarm system to suit fit out.
- All lighting including general, emergency, display and production lighting and associated lighting controls to suit fit out.

Public Health

Cold water storage: 4 litre / person Hot water storage 1 litre / person Based on 2000 people

Landlord Installation

- Metered domestic hot and cold water services, capped at local riser.
- Sanitary drainage stub stacks and vent pipes.

Sprinkler main with zone valve and single sprinkler head

Tenant Installation

 Supply and installation of any sanitary ware or equipment required such as bar sinks and glass washers. Extension of the domestic hot and cold water supplies to serve these fixtures and connection to the drainage stub stacks provided. Trace heating to domestic hot water where required.

Acoustic

For interior noise criteria and any relevant limitations on installed equipment refer to the project acoustic report.

Security

Criteria: As part of fit out

Lifts

N/A

2.2. Mezzanine

Room Names & Numbers

- Mezzanine / A.MZ.O5, O5A & O6

Brief

To provide mezzanine level for occupancy of main Event Space with finishes in accordance with "base build" definition as noted below.

Architectural

Base build FFL to Soffit: 4.770m nom. Base build FFL to U/S of beam: 4.770m nom.

Occupancy Level: Staff only with ability to be enhanced to 340ppl as part of the as described in the Main Event Space section. Enhanced layout not part of main contract.

Walls

- Box in Box exposed masonry wall by the main contractor to 58dB Rw. Tenant to compliment acoustic tesing criteria to values as recommended in the Acoustic Report.
- 120min compartmentation at interfaces.
 Refer to Fire Strategy Report and Orms
 FR series for locations
- LED steel gantry by tenant/operator
- No skirtings

Partitions

- Exposed masonry wall to Box in Box
- Plasterboard infill partitions to be taped and jointed only. No finises
- 40dB Rw acoustic requirement. Refer to Acoustic report annex for locations

Floor

Exposed levelling screed

Ceiling

- Concrete composite deck with primary steel structure intumescent painted

Doors

- Hardwood frame doors with full height high pressure laminate lining to door leaf. Riser doors to be in painted finish
- Stainless steel ironmongery
- Fire rating N/A
- Acoustic performance 25 & 30dB
 Rw Refer to acoustic report annex for locations

Signage

Statutory only

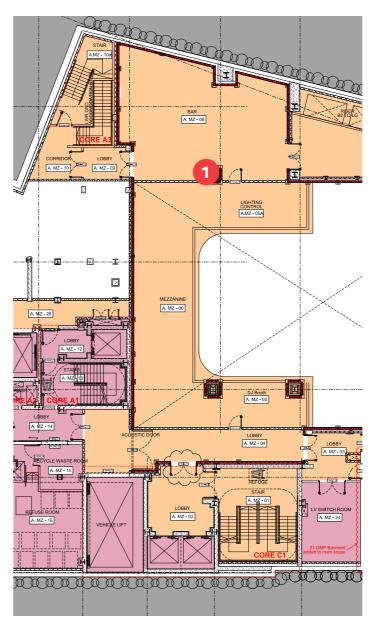
Miscellaneous

- Temporary guarding where required for health and safety

Structural

Imposed Load

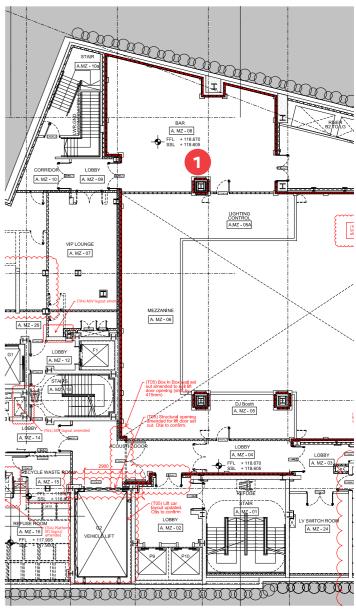
- Uniform Distributed Load including partitions qk 5.0 (kN/m2)
- Concentrated Loads Qk 4.5 (kN)
- Horizontal Loads on Partitions, Walls and Parapets qk 3.0 (kN/m)
- FrequencyResponse FactorN/A
- Criteria Client Requirement



Mezzanine Level - Base build

Superimposed Dead Load

- Nominal Load for Services and Finishes gk 2.1 (kN/m2)
- 1.6kN/m2 for floor finishes and
- 0.5kN/m2 for ceiling and services



Mezzanine Level - Fit out layout

KEY

Base build

Common parts

Capped off Services

2.2. Mezzanine

Mechanical

Temperature:

Winter 21 + / - 2Summer 24 + / - 2

Ventilation and Environmental Strategy

- Type Mechanical supply & extract
- Rate 8 l/s/person

Tenant to install centralised air handling plant for events gallery ventilation.

Landlord Installation:

- Capped ductwork from above ground intake and exhaust louvres
- Metered chilled water flow and return (7/12°C)
- Metered LTHW flow and return (70/50°C)

Tenant Installation:

- Events gallery AHU(s) and ductwork to serve events gallery. Supply and extract ductwork, grilles, dampers, insulation etc. to serve the Events Gallery and ancillary areas.
- Extension to the chilled water and LTHW connections including FCUs and radiators or trench heaters within the ancillary spaces not conditioned by the main events space air handling plant.

Electrical

Power

Small Power 25W/m2

Lighting

Work lighting 9W/m2
House Lighting 12W/m2

Landlord Installation:

- Power supplies and distribution boards serving specialist venue systems. Refer to 3.2.5 back of house and section 8 Theatre consultant section
- All specialist venue systems temporary power panels
- Spare taps off on busbar for serving distribution boards in future fit out of general small power, house and work lighting.
- Temporary general and emergency lighting.
- Minimum fire detection and alarm system.
- Containment within riser for future ICT cabling.

Tenant Installation:

- Extension of power supplies from the distribution boards provided for specialist venue systems to suit fit out requirements.
- Metered distribution boards and power supplies to suit fit-out.
- Provision of small power, house lighting and work lighting.
- Extension of fire alarm system to suit fit out.
- Lighting including general, display and production lighting.
- LED Screens.
- All containment to fit out equipment

Public Health

Cold water storage: 4 litre / person Hot water storage 1 litre / person

Based on 2000 people

Landlord Installation

- Metered domestic hot and cold water services, capped at local riser.
- Sanitary drainage stub stacks and vent pipes.

Sprinkler main with zone valve and single sprinkler head

Tenant Installation

- Supply and installation of WC facilities and any kitchenette areas required, connecting into the capped domestic hot and cold water supplies and to the drainage stub stacks provided. Meters to domestic hot and cold water.
- Extension of the sprinkler system to suit layout.

Acoustic

For interior noise criteria and any relevant limitations on installed equipment refer to the project acoustic report.

Security

Criteria: As part of fit out

Lifts

Criteria: Refer to lift specification

A/V

Criteria: As part of fitout

2.3. BMZ VIP Lounge

Room Names & Numbers

VIP Lounge / A.MZ.O7

Brief

To identify a space for VIP accommodation with connection to main Events Space with finishes in accordance with "base build" definition as noted below. Layout to form part of the enhanced scope of works not included in the main contract.

Architectural

Base build FFL to Soffit: 2.630m nom.

Occupancy

Level: Refer to Main Event Space section for the enhanced layout

Walls

- Exposed masonry and concrete walls.
 Acoustic lining to meet acoustic design criteria by tenant/operator
- FR 60 & 120min around compartment walls. Refer to Fire Strategy Report and Orms FR series for locations
- Box in Box exposed masonry wall by the main contractor to 58dB Rw. Tenant to compliment acoustic desing criteria to values as recommended in the Acoustic Report.

Partitions

- Fit out partition by Tenant/Operator
- 60mimin fire resistance around main space &120min. Refer to Fire Strategy Report and Orms FR series for locations
- Acoustic rating ≥45 & 60dB Rw. Refer to Acoustic report annex for locations

Ceiling

Exposed concrete soffit

Doors

- Doors by Tenant/Operator
- Doors to be fire rated FR3OS & FR6OS on risers
- Acoustic performance 25dB Rw. Refer to Acoustic report annex for locations

Signage

Statutory only where required

Structural

- Uniform Distributed Load including partitions
 qk 5.0 (kN/m2)
- Concentrated Loads Qk 4.5 (kN)
- Horizontal Loads on Partitions, Walls and Parapets qk 3.0 (kN/m)
- Frequency N/AResponse Factor N/A
- Criteria Client Requirement

Superimposed Dead Load:

- Nominal Load for Services and Finishes gk 2.1 (kN/m2)
- 1.6kN/m2 for floor finishes
- 0.5kN/m2 for ceiling and services

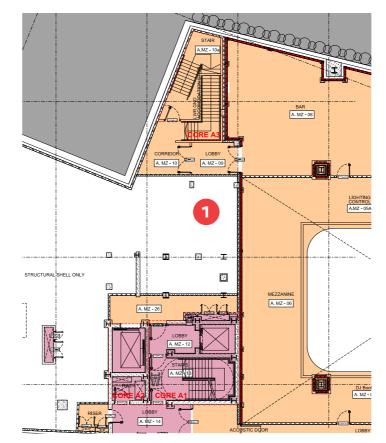
Mechanical

Temperature:

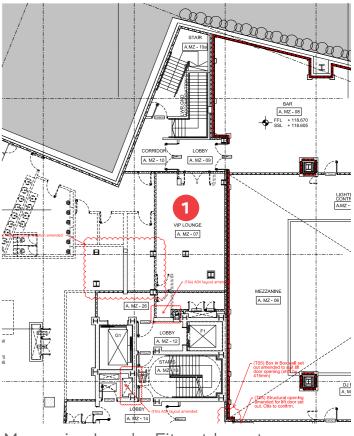
Winter 21 + / - 2Summer 24 + / - 2

Ventilation Rate 8 l/s/person fresh air Occupancy 2000 people (including

Mezzanine, bars and VIP)



Mezzanine Level - Base build



Mezzanine Level - Fit out layout



Base build



Capped off Services

Floor

Power floated & trowelled slab

2.3. BMZ VIP Lounge

Landlord Installation:

- Metered chilled water flow and return connection (7/12°C), capped at riser.
- Metered LTHW flow and return connection (70/50°C), capped at riser.

Tenant Installation:

- Supply and extract ductwork, grilles, dampers, insulation etc. from the main events gallery AHU(s) to serve space.
- Extension to the chilled water and LTHW connections including FCUs and radiators or trench heaters within the ancillary spaces not conditioned by the main events space air handling plant.

Electrical

Power

Small Power 25W/m2

Lighting

Work lighting 9W/m2 House Lighting 12W/m2

Landlord Installation:

- Spare taps off on busbar for serving distribution boards in future fit out of general small power, house and work lighting.
- Temporary general and emergency lighting.
- Minimum fire detection and alarm system.
- Containment within riser for future ICT cabling.

Tenant Installation:

 Metered distribution boards and power supplies to suit fit-out.

- Provision of small power, house lighting and work lighting.
- -Extension of fire alarm system to suit fit out.
- Lighting including general and decorative house lighting to suit fit out.

Public Health

Cold water storage: 4 litre / person
Hot water storage 1 litre / person
Based on 2000 people

Landlord Installation

- Metered domestic hot and cold water services, capped at local riser.
- Sanitary drainage stub stacks and vent pipes.
- Sprinkler main with zone valve and single sprinkler head

Tenant Installation

 Supply and installation of any sanitary ware or equipment required such as bar sinks and glass washers. Extension of the domestic hot and cold water supplies to serve these fixtures and connection to the drainage stub stacks provided.
 T-Extension of the sprinkler system to suit layout.

Acoustic

For interior noise criteria and any relevant limitations on installed equipment refer to the project acoustic report.

Security

As part of fit out

Lifts

Refer to Lift specification

A/V

As part of fit out

WiFi

2.3. B1 VIP Suite

Room Names & Numbers

VIP Lounge / A.B1.10

Brief

To provide a space for VIP accommodation with connection to main Events Space with finishes in accordance with "base build" definition as noted below. Layout to form part of the enhanced scope of works not included in the main contract.

Architectural:

Base build FFL to Soffit: 2.630m nom. Occupancy Level: Refer to the Main Event Space section for the enhanced layout

Walls

- Box in Box exposed masonry wall by the main contractor to 58dB Rw. Tenant to compliment acoustic desing criteria to values as recommended in the Acoustic Report.
- 60mimin fire resistance along Box in Box. Refer to Fire Strategy Report for full details. Refer to Fire Strategy Report and Orms FR series for locations
- No skirtings

Partitions

- Plasterboard partitions with painted finish
- Acoustic rating ≥55dB Rw. Refer to Acoustic report annex for locations
- Fire rating N/A

Floor

Power floated slab

Ceiling

- Soffit exposed and unfinished
- Steelwork fire protected

Doors

- Hardwood frame doors with full height high pressure laminate to door leaf.
- Stainless steel ironmongery
- Doors to be fire rated FR3OS. Refer to Fire Strategy Report and Orms FR series for locations
- Acoustic performance 25dB Rw. Refer to Acoustic report annex for locations

Signage

Statutory only where required

Structural

As per Bar Areas in this report

Mechanical

Temperature:

Winter 21 + / - 2Summer 24 + / - 2

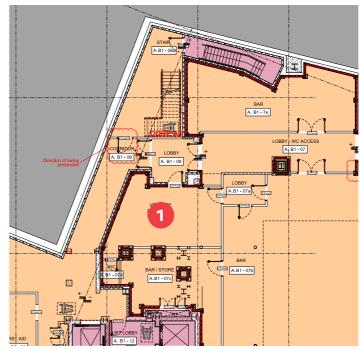
Ventilation Rate 8 l/s/person fresh air Occupancy 2000 people (including Mezzanine, bars and VIP)

Landlord Installation:

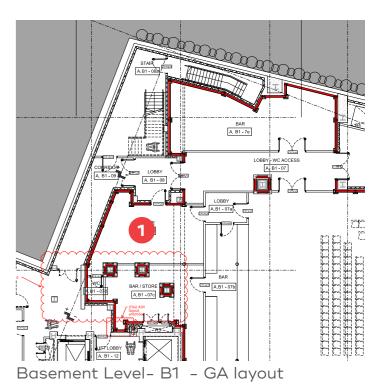
- Metered chilled water flow and return connection (7/12°C), capped at riser.
- Metered LTHW flow and return connection (70/50°C), capped at riser.

Tenant Installation:

- Supply and extract ductwork, grilles, dampers, insulation etc. from the main events gallery AHU(s) to serve space.



Basement Level B1 - Base Build



KEY

Base build

Common parts

 Extension to the chilled water and LTHW connections including FCUs and radiators or trench heaters within the ancillary spaces not conditioned by the main events space air handling plant.

Electrical

Power

Small Power 25W/m2 Lighting

Work lighting 9W/m2 House Lighting 12W/m2

Landlord Installation:

- Spare taps off on busbar for serving distribution boards in future fit out of general small power, house and work lighting.
- Temporary general and emergency lighting.

Capped off Services

- Minimum fire detection and alarm system.
- Containment within riser for future ICT cabling.

2.3. B1 VIP Suite

Tenant Installation:

- Metered distribution boards and power supplies to suit fit-out.
- Provision of small power, house lighting and work lighting.
- Extension of fire alarm system to suit fit out.
- Lighting including general and decorative house lighting to suit fit out.

Public Health

Cold water storage: 4 litre / person
Hot water storage 1 litre / person
Based on 2000 people

Landlord Installation

- Metered domestic hot and cold water services, capped at local riser.
- Sanitary drainage stub stacks and vent pipes.
- Sprinkler main with zone valve and single sprinkler head

Tenant Installation

- Supply and installation of any sanitary ware or equipment required such as bar sinks and glass washers. Extension of the domestic hot and cold water supplies to serve these fixtures and connection to the drainage stub stacks provided. Trace heating to domestic hot water where required.
- Extension of the sprinkler system to suit layout.

Acoustic

For interior noise criteria and any relevant limitations on installed equipment refer to the project acoustic report.

Security

As part of fit out

Lifts

Refer to lift specification

A/V

As part of fit out

WiFi

2.4. Stair & Lift Cores - Common Parts

Room Names & Numbers

Core A1 / Varies from B2-GF - Refer to plans

Core D1 / Varies from B1-GF - Refer to plans

Brief

To provide access cores for 2000 people into events space, site wide functions and statutory requirements with finishes in accordance with "common parts" definition as noted below.

Architectural

Base build floor to floor Varies 3.100-4.350m nom.

Walls

- Painted finish to blockwork & in situ concrete. Infill plasterboard partitions fully finished (taped,jointed, skimmed) and painted.
- FR120min & FR 60min. Refer to Fire Strategy Report for full details. Refer to Fire Strategy Report and Orms FR series for locations

Partitions

- Infill plasterboard partitions fully finished (taped,jointed, skimmed) and painted.
- FR120min & FR 60min. Refer to Fire Strategy Report for full details. Refer to Fire Strategy Report and Orms FR series for locations

Floor

- Paint finsih to floor and stair.
- Anti-slip contrasting nosing applied to stair

Ceiling

Painted finish to concrete stair and soffit

Doors

- Hardwood frame doors with full height high pressure laminate door leaf. Riser doors to be in painted finish
- Stainless steel ironmongery
- Doors to be fire rated FR6OS & FR3OS inside core. Refer to Fire Strategy Report and Orms FF series for locations
- Acoustic performance 25dB Rw & 30dB Rw. Refer to Acoustic report annex for locations

Furniture

N/A

Metalwork

- Balustrade with mild steel flats and solid mild steel stringer to architectural standard and painted finish
- Brushed stainless steel handrail

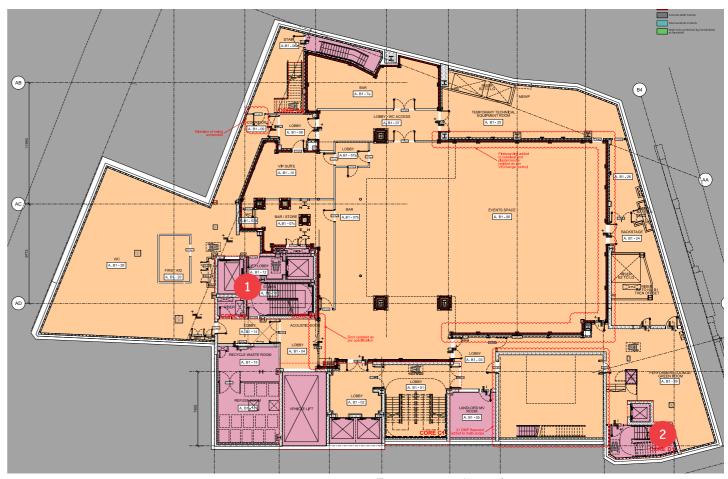
Signage

- Statutory signage through out
- Stainless steel feature panel to be applied to every level of where there is a disabled refuge, dry riser cabinet or stair/lift lobby/landing without either.

Structural

Lobbies and floor slabs

Imposed and Superimposed Dead Loads as per adjacent rooms.



Basement Level

Stairs

Imposed Load

- Uniform Distributed Load qk 4.0 (kN/m2)
- Concentrated Loads Qk 4.5 (kN)
- Horizontal Loads on Partitions, Walls and Parapets qk 3.0 (kN/m)
- Frequency N/A
- Response Factor N/A
- Criteria C33/C35

KEY







Capped off Services

2. Core D1 / B1 - GF

1. Core A1 / B2 - GF

2.4. Stair & Lift Cores - Common Parts

Superimposed Dead Load

- Nominal Load for Services and Finishes gk 2.1 (kN/m2)
- 1.6kN/m2 for floor finishes and
- 0.5kN/m2 for ceiling and services

Mechanical

Temperature:

Winter 18 +/- 2
Summer Uncontrolled

Ventilation N/A

Occupancy N/A - Transient

occupants only

Ventilation of stairs via natural infiltration from neighbouring spaces.

Background heating via LTHW to radiators to lowest stair level. No cooling provision.

Electrical

Power

Small Power 5W/m2 Lighting 8W/m2

- Containment, distribution boards and power supplies for all landlord's equipment.
- Fire detection and alarm system.
- All general and emergency lighting and associated lighting controls.

Public Health

Sprinkler system with zone valves and sprinkler heads.

Acoustic

For interior noise criteria and any relevant limitations on installed equipment refer to the project acoustic report.

Security

Access control and CCTV

Lifts

Refer to lift specification

A/V

As part of fitout

WIFI

2.5. Stair & Lift Cores - Base Build

Room Names & Numbers

Core A3 / Varies from B1-LG Core C1 / Varies from B1-GF

Brief

To provide access cores for 2000 people into events space, site wide functions and statutory requirements with finishes in accordance with "base build" definition as noted below.

Architectural

Base build floor to floor Varies 3.100-4.350m nom.

Walls

- Exposed in-situ concrete walls and blockwork
- FR120min & FR 60min. Refer to Fire Strategy Report for full details. Refer to Fire Strategy Report and Orms FF series for locations
- No skirtings

Partitions

- Fire and acoustic rated dryline partitions taped jointed and skimmed finish only
- FR120min & FR 60min. Refer to Fire Strategy Report for full details. Refer to Fire Strategy Report and Orms FR series for locations
- No skirtings

Floor

 Concrete slab with cavity tray drainage where specified, insulation and screed at basement level. Generally upper levels include screed finish. Temporary step access to be provided to contractors proposals to reconcile changes in level. Temporary timber stairs acceptable.

Ceiling

Exposed concrete or metal deck finish

Doors

- Hardwood frame doors with full height high pressure laminate to door leaf. Riser doors to be in painted finish
- Stainless steel ironmongery
- Doors to be fire rated FR6OS & FR3OS.
 Refer to Fire Strategy Report and Orms
 FR series for locations
- Acoustic performance 25dB Rw & 30dB Rw. Refer to Acoustic report annex for locations

Furniture

N/A

Metalwork

Key clamp proprietary mild steel balustrade with PPC finish

Signage

Statutory only where required

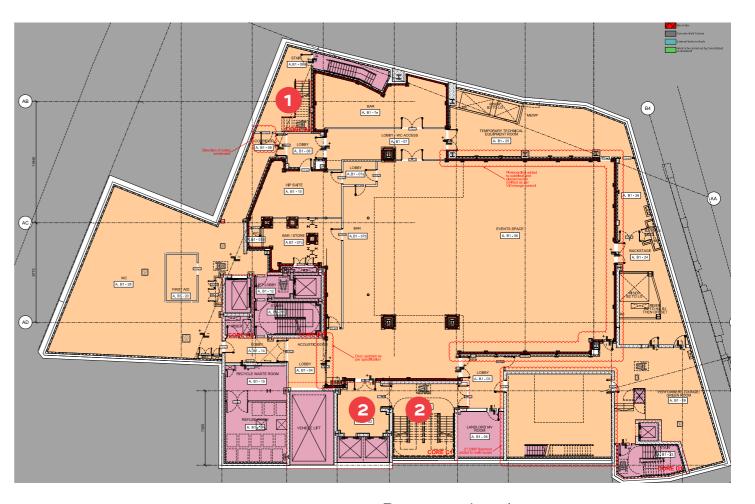
Miscellaneous

N/A

Structural

Lobbies and floor slabs

Imposed and Superimposed Dead Loads as per adjacent rooms.



Stairs

Imposed Load

- Uniform Distributed Load qk
 4.0 (kN/m2)
- Concentrated Loads Qk 4.5 (kN)
- Horizontal Loads on Partitions, Walls and Parapets qk 3.0 (kN/m)
- Frequency N/A
- Response Factor N/A
- Criteria C33/C35

Superimposed Dead Load

- Nominal Load for Floor Finishes gk 1.6 (kN/m2)
- Nominal Load for Ceiling and Services over.

gk 0.5 (kN/m2)

Basement Level

KEY

Base build

Common parts

Capped off Services

1. Core A3 / B1 to LG

2. Core C1 / B1 - GF

2.5. Stair & Lift Cores - Base Build

Mechanical

Temperature:

Winter 18 +/- 2 Summer Uncontrolled

Ventilation N/A

Occupancy N/A - Transient occupants only

- Ventilation via natural infiltration from neighbouring spaces.

 Background heating via LTHW to radiators where required. No cooling provision.

Tenant Installation

 Extension of capped LTHW and CHW services to serve space heating and cooling if required. Extension of tenant ventilation system to serve stair / lift lobbies if required.

Electrical

Power

Small Power 5W/m2 Lighting 8W/m2

- Containment, distribution boards and power supplies for all landlord's equipment.
- Fire detection and alarm system.
- All general and emergency lighting and associated lighting controls.

Public Health

Sprinkler system with zone valves and sprinkler heads.

Acoustic

For interior noise criteria and any relevant limitations on installed equipment refer to the project acoustic report.

Security

Access control, hold opens and CCTV

Lifts

Refer to lift specification

A/V

As part of fitout

WiFi

2.6. Landlord Plant Space

Room Names & Numbers

Sub basement plant rooms / A.B2.O2-O5, A.B2.O9-17

Basement plant rooms / A.B1.16, 24-26 Mezzanine plant rooms / A.MZ.16, 24 & 25 Lower ground plant rooms / A.LG.14-16

Brief

To provide landlord plant facilities across sub-basement level and along southern parts of basement and mezzanine level to "common parts" standards listed below and those required by statutory bodies.

Architectural

Base build FFL to Soffit: 2.630 - 3.500m nominal

Occupancy Level: Refer to events gallery

Walls

- Generally blockwork or in situ concrete with paint finish.
- No skirtings
- FR120min & FR 60min. Refer to Fire Strategy Report and Orms FR series for locations
- Acoustic requirement : ≥60dB Rw &
 ≥55dB Rw. Refer to Acoustic report annex for locations

Partitions

- Fire and acoustic rated dryline partitions with skim finish only
- No skirtings
- FR120min & FR 60min. Refer to Fire Strategy Report and Orms FR series for locations

Acoustic requirement : ≥60dB Rw & ≥55dB Rw. Refer to Acoustic report annex for locations

Floor

- Generally epoxy resin paint to concrete
- Tank rooms to be bunded to services contractor's proposals
- Electrostatic finishes to IT Coms rooms
- Concrete slab with cavity tray drainage, insulation and screed at B2 & B1 level where specified.
- Temporary step access to be provided to contractors proposals to reconcile changes in level

Ceiling

Dust sealer in plant rooms and paint finishes along stairs lobbies and corridors

Doors

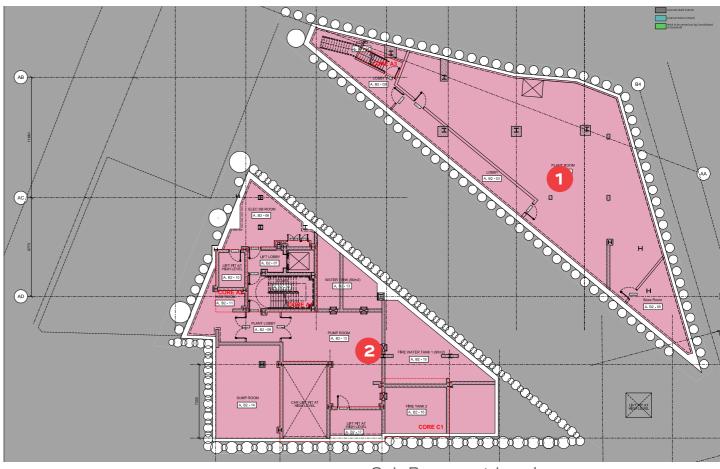
- Hardwood frame with high pressure laminate finish
- Fire rating FR6OS & FR3OS. Refer to Orms FF series for locations
- Acoustic performance: 25-40dB Rw Refer to acoustic report annex for locations
- Metal gates into refuse rooms and UKPN rooms with polyester powder coat finish
- Stainless steel ironmongery
- Access Control

Furniture

N/A

Signage

- Statutory signage where required
- Plant room names and numbers on doors



Sub Basement Level

Miscellaneous

- Temporary balustrade guarding around capped penetrations where required
- Any required by UKPN by the UKPN room contractor

KEY





- 1. Sub-basement north plant room
- 2. Sub-basement south plant room
- 3. Transformer room
- 4. Basement and Mezzanine refuse
- 5. Storm water attenuation tank
- 6. Oil tank room
- 7. UKPN room
- 8. Comms intake room
- 9. MV room

2.6. Landlord Plant Space

Structural

1. Northern B2 Plant room

Imposed Load:

- Uniform Distributed Load including partitions qk 7.5 (kN/m2)
- Concentrated Loads Qk 10.0 (kN)
- Horizontal Loads on Partitions, Walls and Parapets qk 3.0 (kN/m)
- 1.5kN/m for non public areas
- Frequency N/A
- Response Factor N/A
- Criteria Typical Mechanical Plant

Superimposed Dead Load

 100mm Hard Finishes / Cavity Drain gk 2.4 (kN/m2)

Hung services, Soffit above gk 0.5 (kN/m2)

2. Southern B2 Plant room

(Standard mechanical plant rooms as 1)

Imposed Load

- Uniform Distributed Load
- Tank room qk 30.0 (kN/m2)Elsewhere qk 7.5 (kN/m2)
- Concentrated Loads
 - Tank room Qk 30.0 (kN) Elsewhere Qk 10.0 (kN)
- Horizontal Loads on Partitions, Walls and Parapets
 qk As Req (kN/m)
- Frequency N/AResponse Factor N/ACriteria Tanks

WiFi

As part of fit out

Superimposed Dead Load

- 100mm Hard Floor Finishes / Cavity Drain gk 2.4 (kN/m2)
- Hung services , Soffit above gk 0.5 (kN/m2)

3. Transformer Room Imposed Load

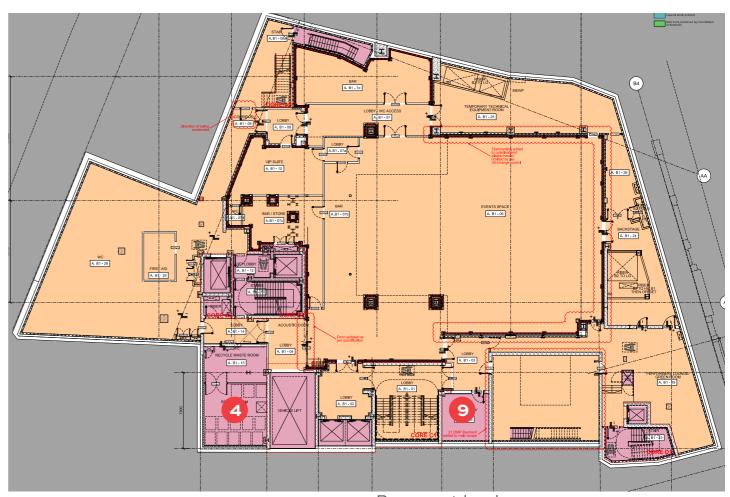
- Uniform Distributed Load including partitions qk 7.5 (kN/m2)
- Concentrated Loads Qk 10.0 (kN)
- Horizontal Loads on Partitions, Walls and Parapets qk 3.0 (kN/m)
- Frequency N/AResponse Factor N/A
- Criteria Heavy Mechanical Plant

Superimposed Dead Load

- 65mm Hard Floor Finishes gk 2.1(kN/m2)
- Hung services , Soffit above gk 0.5 (kN/m2)

4. Basement level Areas Imposed Load

- Uniform Distributed Load including partitions qk 10.0 (kN/m2)
- Concentrated Loads Qk 15.0 (kN)
- Horizontal Loads on Partitions, Walls and Parapets qk 3.0 (kN/m)
- Frequency N/AResponse Factor N/A
- Criteria Heavy Mechanical Plant



Basement level

KEY

Base build

Common parts



- 1. Sub-basement north plant room
- 2. Sub-basement south plant room
- 3. Transformer room
- 4. Basement and Mezzanine refuse rooms
- 5. Storm water attenuation tank
- 6. Oil tank room
- 7. UKPN room
- 8. Comms intake room
- 9. MV room

2.6. Landlord Plant Space

Superimposed Dead Load

- 100mm Hard Floor Finishes gk 2.4 (kN/m2)
- Hung services, Soffit above gk 0.5 (kN/m2)

5. Lower Ground Level (attenuation tank) Imposed Load

- Uniform Distributed Load qk 7.5 (kN/m2)
- gk 20 (kN/m2) - Attenuation tanks
- Concentrated Loads Qk 10.0 (kN)
- Attenuation tanks QK 15 (kN)
- Horizontal Loads on Partitions, Walls and Parapets qk As Req (kN/m)
- Frequency N/A - Response Factor N/A
- Criteria Storm Water Attenuation

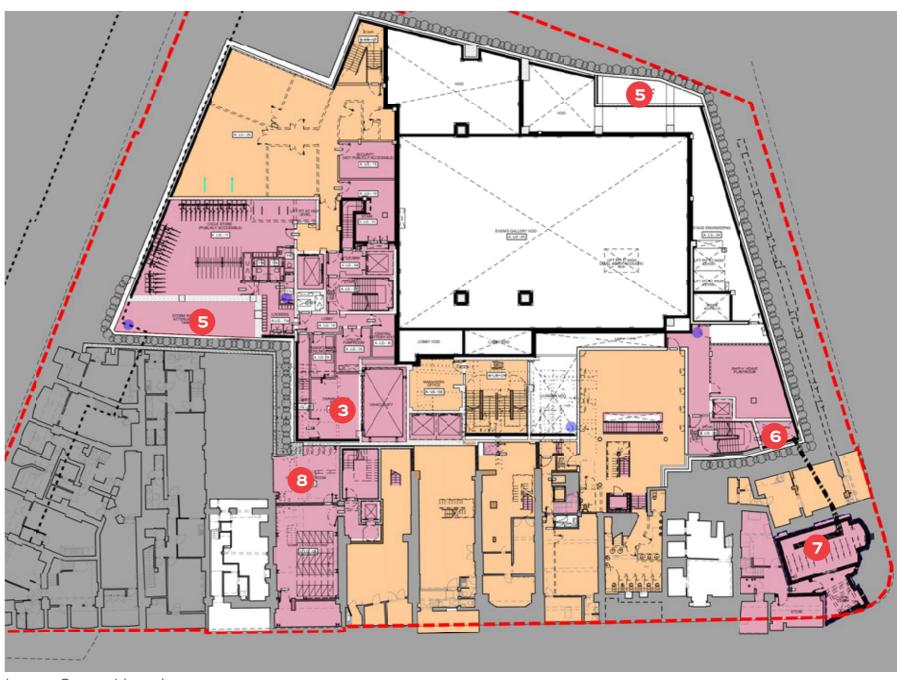
Superimposed Dead Load

- 65mm Hard Finishes gk 1.6 (kN/m2)
- Hung services, Soffit above gk 0.5 (kN/m2)

6. Oil Tank Room

Imposed Load

- Uniform Distributed Load qk 7.5(kN/m2)
- Concentrated Loads Qk 10 (kN)
- Horizontal Loads on Partitions, Walls and qk TBC (kN/m) Parapets
- Frequency N/A - Response Factor N/A - Criteria TBC



Lower Ground Level

KEY Base build Common parts Capped off Services

- 1. Sub-basement north plant room 5. Storm water attenuation tank
- 2. Sub-basement south plant room 6. Oil tank room
- 3. Transformer room
- 4. Basement and Mezzanine refuse rooms

- 7. UKPN room
- 8. Comms intake room
 - 9. MV room

2.6. Landlord Plant Space

Superimposed Dead Load

- 65mm Hard Finishes gk 1.6(kN/m2)
- Hung services, Soffit above gk 0.5(kN/m2

7. 28 Denmark Street Basement level Areas

Imposed Load

- Uniform Distributed Load including partitions qk 7.5 (kN/m2)
- Concentrated Loads Qk 10 (kN)
- Horizontal Loads on Partitions, Walls and Parapets qk TBC (kN/m)

Frequency N/AResponse Factor N/ACriteria TBC

Superimposed Dead Load

- Hard Finishes gk 2.5(kN/m2)

 Hung services, Soffit above gk 0.5(kN/m2

Mechanical

Temperature:

Winter 18 +/- 2
Summer Uncontrolled
Ventilation Rate 1 ACH

Occupancy

N/A - Transient occupants only

Ventilation and Environmental Strategy

- Fresh air provision to plant rooms via central, landlords air handling plant, including provision of all associated ductwork, dampers, grilles and insulation as required to provide a complete working system.
- Background heating via LTHW to radiators. No cooling provision.

Electrical

Power

Small Power 5W/m2

Lighting 8W/m2

- Containment, distribution boards, mechanical control panels and power supplies for all landlord's equipment.
- Fire detection and alarm system.
- All general and emergency lighting and associated lighting controls.

Public Health

All plant room floor drains and associated pipe work. Sprinklers as required by the fire strategy and local code and associated pipe work, valves and ancillary items.

Acoustic

For interior noise criteria and any relevant limitations on installed equipment refer to the project acoustic report of this report.

Security

Criteria: No base build provision

Lifts

Criteria: Refer to lift specification

A/V

Criteria: As part of fit out

WiFi

2.7. Back of House (BOH)

Room Names & Numbers

Basement BOH / A.B1.09, 14, 22, 27 & 28 Mezzanine BOH / A.MZ.09, 14, 20, 22, 22a,26,27 & 28

Lower Ground BOH / A.LG.O2, 12& 13

Brief

To identify ancillary spaces ranging from back stage facilities, dressing rooms, first aid rooms plus associated corridors and lobbies to "base build" standards as noted below. Enhanced layout for 2000 people not included in the main contract.

Architectural

Base build FFL to Soffit: 2.630 - 3.2m nominal

Occupancy Level: Refer to events gallery

Walls

- Generally exposed fair faced blockwork or in situ concrete
- No skirtings
- FR120min & FR 60min. Refer to Fire Strategy Report and Orms FR series for locations.
- Acoustic requirement : ≥58dB Rw &
 ≥55dB Rw on the Box in Box side only.

Partitions

- Fire and acoustic rated dryline partitions with skim finish only
- FR120min & FR 60min. Refer to Fire Strategy Report and Orms FR series for locations.
- Exposed steel columns to be boarded to FR 60.
- No skirtings

Floor

- Exposed concrete or screed finishes

Ceiling

- Exposed concrete or steel deck soffit
- Refer to Orms RC series and finishes schedule for details

Doors

- Hardwood frame doors with full height shigh pressure laminate to door leaf.
 Riser doors to be in painted finish
- Metal gates into refuse rooms and UKPN rooms with polyester powder coat finish
- Stainless steel ironmongery
- Access Control

Furniture

N/A

Signage

Statutory signage where required only

Miscellaneous

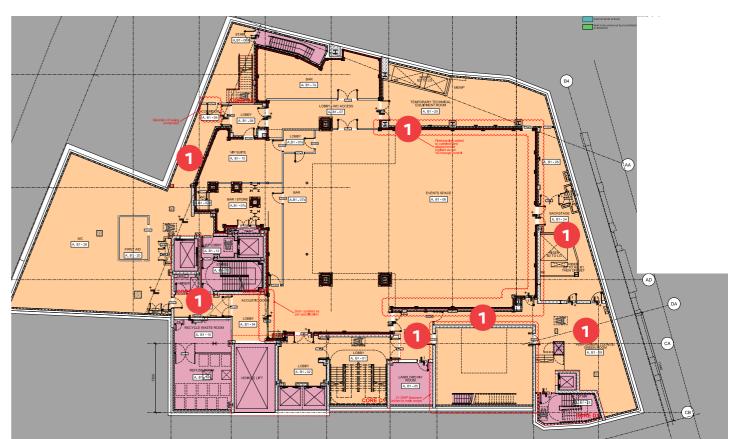
- Temporary balustrade /guarding around capped penetrations, changes in levels, where required
- Any required by UKPN

Structural

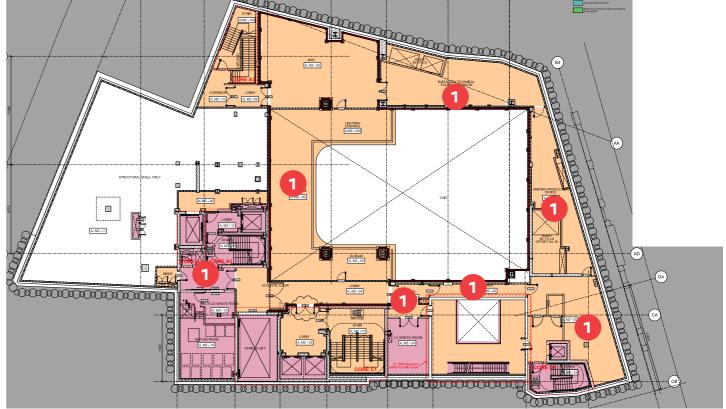
Basement Level

Imposed Load

- Uniform Distributed Load including partitions qk 10.0 (kN/m2)
- Concentrated Loads Qk 15.0 (kN)
- Horizontal Loads on Partitions, Walls and Parapets qk 3.0 (kN/m)



Basement level



Mezzanine Level

2.7. Back of House (BOH)

Frequency N/AResponse Factor N/A

- Criteria Client Requirement

Superimposed Dead Load

- 100mm Hard Finishes / Cavity Drain gk 2.4 (kN/m2)
- Finishes zone is 450mm in some areas
- Hung services , Soffit above gk 0.5 (kN/m2)

Mezzanine & Lower Ground Level Imposed Load

- Uniform Distributed Load including partitions
 qk 5.0 (kN/m2)
- Concentrated Loads Qk 4.5 (kN)
- Horizontal Loads on Partitions, Walls and Parapets qk 3.0 (kN/m)
- Frequency N/AResponse Factor N/A
- Criteria Client Requirement

Superimposed Dead Load

- Nominal Load for Services and Finishes below gk 2.1 (kN/m2)
- floor finisheshung ceiling and finishes0.5kN/m2

Mechanical

Temperature:

Winter 18 +/- 2 Summer 26 +/- 2 Ventilation Rate 2 ACH

Occupancy 4m² per person to

dressing rooms

Landlord Installation:

- Capped ductwork from intake and exhaust louvres.
- Metered chilled water flow and return connection (7/12°C), capped at riser.
- Metered LTHW flow and return connection (70/50°C), capped at riser.

Tenant Installation:

- Supply and extract ductwork, grilles, dampers, insulation etc. from the main events gallery AHU(s) to serve space.
- Extension to the chilled water and LTHW connections including FCUs and radiators or trench heaters within the ancillary spaces not conditioned by the main events space air handling plant.
- Any close control cooling units serving technical equipment rooms.

Electrical

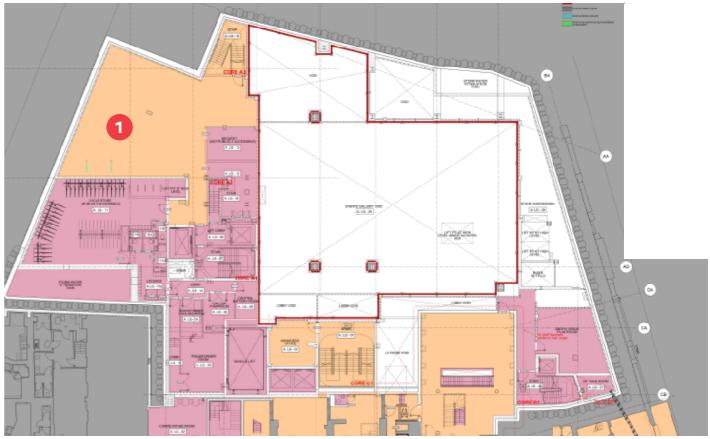
Landlord Installation:

Power supplies and distribution boards serving specialist venue systems as summarized below.

Stage Lighting

The Stage lighting system will be provided with a 600A TPN overall supply to a stage lighting main power panel located in the mezzanine equipment room.

From this panel supplies will be provided to a stage lighting distribution board and custom 400A and 200A TPN powerlock power panels. In addition, it will also provide a number of 63A TPN supplies for temporary power in the Restaurant and TV Studio.



Lower Ground Level

The Stage lighting system will generally not be used at full capacity. This supply is sized to prevent unwanted tripping at times of peak load, but the typical load is likely to be up to 100kW.

Stage Engineering

The Stage Engineering system will be provided with a 400A TPN overall supply to an engineering main panel located within the lower ground floor equipment room.

Base build
Common parts
Capped off Services

1. Back of house space (BOH)

2.7. Back of House (BOH)

From this panel supplies will be provided to a stage engineering and custom 200A TPN powerlock power panels. It will also supply connections for the Urban Gallery and Restaurant for the connection of temporary, brought-in equipment and operation of movable sliders.

At peak load, the Stage Engineering supply will be at 50% of supply capacity. However, this would be for a short duration and quite rare. Generally, the load on the supply can be almost fully diversified against the Stage lighting load.

The sub-distribution panels for supplies to LED screens in the Event Gallery, Urban Gallery and Restaurant / Cafe.

Audio Visual

The Audiovisual system will be provided with a 300A TPN overall supply to an Audiovisual main panel located within the mezzanine level equipment room.

From this panel supplies will be provided to a audio visual distribution board and custom 200A TPN powerlock power panel to serve OB facilities. Several 32A, 63A and 125A TPN supplies

for connection of temporary, brought-in audiovisual equipment are also provided for the Event Gallery, Urban Gallery and Restaurant.

The Audiovisual system will generally not be used at full capacity. This supply is sized to prevent unwanted tripping at times of peak load and switch-on, but the typical load, when OB power is in use, is likely to be around 50kW (25%) of supply capacity. When OB power is not in use this load will be around 10kW to 20kW (5-10%) of supply capacity

Video System

The Video Systems will be provided with a 1600A TPN overall supply to an video systems main panel located within the lower ground video rack room.

From this panel supplies will be provided to a video systems small power distribution board and sub-distribution panels for supplies to LED screens in the Event Gallery, Urban Gallery and Restaurant / Cafe.

As described in the separate LED section of this report the load of the screens will largely depend on the content and brightness. Please refer to Theatre Consultant's report and M&E specification for final loads.

- Spare taps off on busbar for serving distribution boards for future fit out of general small power and lighting
- Temporary general and emergency lighting.
- Minimum fire detection and alarm system.
- Containment within riser for future ICT cabling.

Tenant Installation:

- Extension of power supplies from the distribution boards provided for specialist venue systems to suit fit out requirements.
- Metered distribution boards and power supplies to suit fit-out.
- Provision of small power and lighting to suit fit out
- Extension of fire alarm system to suit fit out.

- Lighting including general, display and production lighting.
- LED Screens.

Public Health

Landlord Installation

- Metered domestic hot and cold water services, capped at local riser.
- Sanitary drainage stub stacks and vent pipes.
- Sprinkler main with zone valve and single sprinkler head

Tenant Installation

- Supply and installation of any sanitary ware or equipment required. Extension of the domestic hot and cold water supplies to serve these fixtures and connection to the drainage stub stacks provided. Trace heating to domestic hot water where required.
- Extension of the sprinkler system to suit layout. Any inert gas suppression systems required for technical equipment rooms.

Acoustic

For interior noise criteria and any relevant limitations on installed equipment refer to the project acoustic report.

Security

Access Control & CCTV

Lifts

Refer to lift specification

A/V

As part of fit out

WiFi

2.8. Toilets

Room Names & Numbers

Basement / A.B1.28 Mezzanine / A.MZ.11

Brief

To identify space for toilets in support of events space for 2000 people in accordance with "base build" definition as outlined below. Toilet fit out by tenant/operator.

Architectural

Base build FFL to soffit: 3.2m nom. (B1)
2.630m nom (MZ)

Occupancy Level:

Refer to Main Event Space section

Walls

- -Concrete blockwork along perimeter of cavity drainage wall and internal partitions
- -No finishes required

Partitions

- Dry riser using shaftwall system to FR 120min.
- -Acoustic requirement : ≥45dB R
- -No finishes

Floor

Structural concrete slab with power float finish to structural engineer specification No finishes

Ceiling

- Exposed concrete soffit
- No finishes

Doors

N/A

Furniture

N/A

Signage

N/A

Miscellaneous

Temporary steps and/or step down markers plus guarding as required to contractors proposals

Structural Imposed Load

- Uniform Distributed Load including partitions qk 5.0 (kN/m2)
- B1 basement is designed for UDL 10.0kN/m2, concentrated 15.0kN
- Concentrated Loads Qk 4.5 (kN)
- Horizontal Loads on Partitions, Walls and Parapets qk 3.0 (kN/m)

Frequency N/AResponse Factor N/A

- Criteria Client Requirement

Superimposed Dead Load

- Nominal Load for Floor Finishes

gk 1.6 (kN/m2)

gk 2.4 at B1

 Nominal Load for Ceiling and Services over. gk 0.5 (kN/m2)

Mechanical

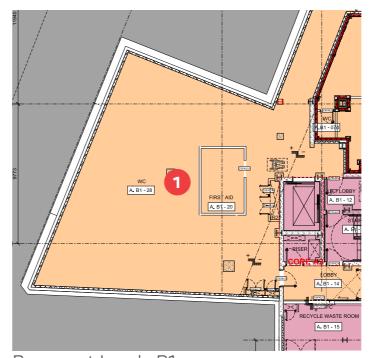
Temperature:

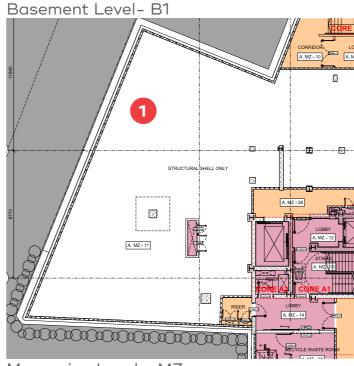
Winter 18 +/- 2 Summer Not Controlled

Ventilation Rate 10 ACH

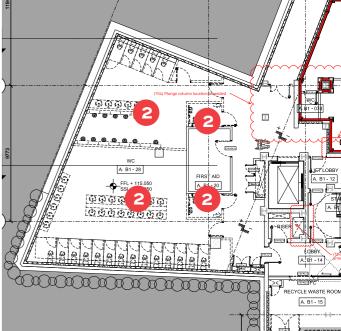
Occupancy N/A - Transient

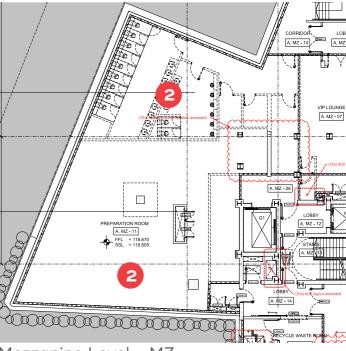
occupancy only











Mezzanine Level - MZ

Basement Level- B1

Base build

Common partsCapped off Services

1. Location of WCs base build

KEY

2. Indicative layout to be fitted by future operator

2.8. Toilets

Landlord Installation:

- Connection for exhaust ductwork to general louvre at ground floor level .
- Metered LTHW flow and return connection (70/50°C), capped at riser.

Tenant Installation:

- Extend supply and extract ductwork including, grilles, dampers, insulation etc. to suit layout. Including installation of toilet extract fans to connect to landlord exhaust duct as required.
- Extension of the LTHW connections including FCUs and radiators or trench heaters as desired.

Electrical

Power

Small Power 5W/m2 Lighting 8W/m2

Landlord Installation:

- Spare taps off on busbar for serving distribution boards in future fit out of general small power and lighting.
- Temporary general and emergency lighting.
- Minimum fire detection and alarm system.
- Containment within riser for future ICT cabling.

Tenant Installation:

- Metered distribution boards, power supplies and all electrical equipment such as hand dryers to suit fit-out.
- Extension of fire alarm system to suit fit out.

 Lighting including emergency and decorative lighting and lighting controls to suit fit out.

Public Health

Landlord Installation

- Metered domestic hot and cold water services, capped at riser.
- Sanitary drainage stub stacks and vent pipes within local riser.

Sprinkler main with zone valve and single sprinkler head

Tenant Installation

- Supply and installation of all sanitary ware. Extension of the domestic hot and cold water supplies to serve these fixtures and connection to the drainage stub stacks provided. Trace heating to domestic hot water where required.
- Extension of the sprinkler system to suit layout.

Acoustic

For interior noise criteria and any relevant limitations on installed equipment refer to the project acoustic report.

Security

CCTV coverage outside

Lifts

Refer to lift specification

A/V

As part of fitout

WiFi

2.9. Landlord Production Room

Room Names & Numbers

Landlord Production room / A.LG.26

Brief

To identify a space for production activities related to the Urban Gallery in accordance with "base build" definition as noted below. Production facilities to be fitted by tenant/operator.

Architectural

Base build FFL to Soffit: 2.740m nom.

Occupancy Level: Refer to
Main Events Space
section and Charcoal Blue

stage report

Walls

- Concrete blockwork along perimeter of cavity drainage wall and internal partitions
- No finishes required

Partitions

- No internal partitions
- No finishes required
- Partitions along the security room to be FR 60 and 120 along the Core 2. Refer to Fire Strategy Report and Orms FR series for locations.

Floor

- Structural concrete slab with power float finish to structural engineer specification
- No finishes

Ceiling

- Exposed concrete soffit
- No finishes required

Doors

- Hardwood frame doors with full height high pressure laminate to door leaf. Riser doors to be in painted finish
- FR60S & FR 30S. Refer to Fire Strategy Report and Orms FR series for locations.
- Stainless steel ironmongery
- Access Control

Furniture

N/A

Signage

Statutory

Miscellaneous

- Temporary steps and/or step down markers between rooms
- Temporary guard at edge of slab
- Temporary stair by main contractor. Final accommodation stair by future operator

Structural

Imposed Load

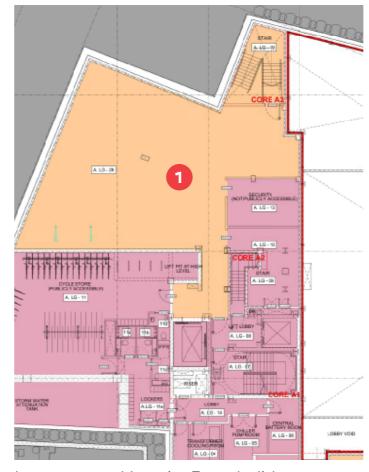
- Uniform Distributed Load including partitions
 qk 5.0 (kN/m2)
- Concentrated Loads Qk 4.5 (kN)
- Horizontal Loads on Partitions, Walls and Parapets qk 3.0 (kN/m)

Frequency N/AResponse Factor N/A

- Criteria Client Requirement

Superimposed Dead Load

- Nominal Load for Floor Finishes gk 1.6 (kN/m2)
- Nominal Load for Ceiling and Services over. gk 0.5 (kN/m2)



Lower ground Level - Base build

Mechanical

Temperature:

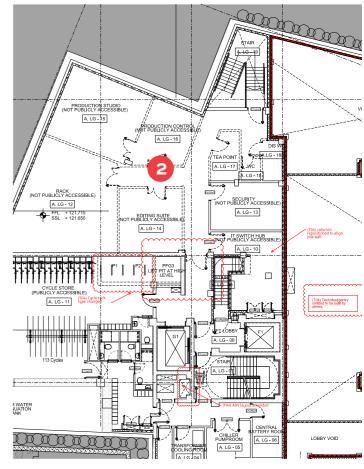
Winter 21 + / - 2Summer 24 + / - 2

Ventilation Rate 10 l/s/person fresh air

Occupancy 10m²/person

Landlord Installation:

- Metered chilled water flow and return connection (7/12°C), capped at riser.
- Metered LTHW flow and return connection (70/50°C), capped at riser.
- Capped fresh air supply and extract from main landlord AHU



Lower Ground Level - Fit out by others

KEY

Base build
Common parts

Capped off Services

- 1. Production room base build
- 2. Indicative layout to be fitted by future operator

2.9. Landlord Production Room

Tenant Installation:

Supply and extract ductwork, grilles, dampers, insulation etc. from the landlord AHU to serve space.

- Extension to the chilled water and LTHW connections including FCUs and radiators or trench heaters within the ancillary spaces not conditioned by the main events space air handling plant.
- Any close control cooling units required for technical equipment rooms within the production area.

Electrical

Power

Small Power 50W/m2 Lighting 10W/m2

Landlord Installation:

Refer to 3.2.5 back of house and section 8 Theatre consultant section for power supplies for Video systems.

- Spare taps off on busbar for serving distribution boards in future fit out of general small power and lighting.
- Temporary general and emergency lighting.
- Minimum fire detection and alarm system.
- Containment within riser for future ICT cabling.

Tenant Installation:

- Extension of power supplies from the distribution boards provided for specialist venue systems to suit fit out requirements.
- Metered distribution boards, power supplies for small power and lighting.

- Extension of fire alarm system to suit fit out.
- Lighting including emergency and general and lighting controls to suit fit out.

Public Health

Landlord Installation

- Metered domestic hot and cold water services, capped at local riser.
- Sanitary drainage stub stacks and vent pipes.

Sprinkler main with zone valve and single sprinkler head

Tenant Installation

- Supply and installation of any sanitary ware or equipment required kitchenette sinks. Extension of the domestic hot and cold water supplies to serve these fixtures and connection to the drainage stub stacks provided. Trace heating to domestic hot water where required.
- Extension of the sprinkler system to suit layout.

Acoustic

For interior noise criteria and any relevant limitations on installed equipment refer to the project acoustic report.

Security

As part of fit out

Lifts

Refer to lift specification

A/V

2.10. Landlord cycle store

Room Names & Numbers

Bicycle Store / A.LG.11 Showers / A.LG.11a-d

Brief

To provide cycle facilities to comply with planning consent and BREEAM requirements to "common parts" standards as noted below.

Architectural

Base build FFL to Soffit: 2.740m nom.
Occupancy Level: 113 cycles at LG level

Walls

- Paint finish to concrete blockwork and in situ concrete
- Showers with full height ceramic tiles
- Tiled skirting in shower rooms

Partitions

- Painted finish to storage area concrete block and in situ concrete walls
- Plasterboard with ceramic tile surfaces and painted finish
- Partitions to maintain FR120 & FR 60 compartment. Refer to Fire Strategy Report and Orms FR series for locations.

Floor

- Screed with epoxy paint finishes to storage area
- Porcelain tile in shower areas

Ceiling

- Dust sealer on exposed concrete surface in storage area
- Shower rooms painted finish

Doors

- Hardwood frame doors with full height high pressure laminate lining to door leaf.
 Riser doors to be in painted finish
- FR6OS and FR3OS. Refer to Fire Strategy Report and Orms FR series for locations.
- Stainless steel ironmongery
- Access Control

Furniture

- Not requied

Signage

Shower sign as per JD series and 3V ironmongery schedule

Miscellaneous

N/A

Structural

Imposed Load

- Uniform Distributed Load including partitions qk 5.0 (kN/m2)
- Concentrated Loads Qk 4.5 (kN)
- Horizontal Loads on Partitions, Walls and Parapets qk 3.0 (kN/m)

Frequency N/AResponse Factor N/A

- Criteria Client Requirement

Superimposed Dead Load

- Nominal Load for Floor Finishes gk 1.6 (kN/m2)
- Nominal Load for Ceiling and Services over.
 gk 0.5 (kN/m2)

Mechanical

Temperature:

Winter 18 +/- 2
Summer Not Controlled
Ventilation Rate 1 ACH

occupants only

Occupancy

Fresh air supply and extract provided via landlord air handling unit located at L4. Background heating provided via LTHW system connected to radiators. No cooling provision.

N/A - Transient

Electrical

Power

Small Power 5W/m2 Lighting 3W/m2

- Containment, metered distribution boards, power supplies and small power outlets for all landlord's equipment.
- Fire detection and alarm system.
- All general and emergency lighting and associated lighting controls.

Public Health

Supply and installation of domestic hot and cold water supplies to serve sanitary ware and connection to the drainage stub stacks provided. Meters to domestic hot and cold water supplies.

Sprinklers and associated pipe work, valves etc.

Acoustic

For interior noise criteria and any relevant limitations on installed equipment refer to the project acoustic report.



Lower ground Level cycle store

KEY

Base build





- 1. Residents cycle store
- 2. Staff and visitor cycle store
- 3. Shower and toilet provision

Security

CCTV & Access Control

Lifts

Refer to lift specification

A/V

As part of fitout

WiFi

2.11. Preparation room

Room Names & Numbers

Preparation room / A.MZ.11

Brief

To identify a space for catering in support of the enhanced main events layout for 2000 people. The enhance layout does not form part of the main contract.

Architectural

Base build FFL to Soffit: 2.630m nom. Occupancy Level: Refer to the Main Event Space section of this report

Walls

- Concrete blockwork along perimeter of cavity drainage wall and internal partitions
- No finishes required

Partitions

- Dry riser using shaftwall system
- Partitions to maintain FR120 & FR 60 compartment. Refer to Fire Strategy Report and Orms FR series for locations.
- No finishes

Floor

Structural concrete slab with power float finish to structural engineer specification

- No finishes

Ceiling

- Exposed concrete soffit
- No finishes

Doors

N/A

Furniture

N/A

Signage

N/A

Miscellaneous

N/A

Structural

Imposed Load

- Uniform Distributed Load including partitions qk 5.0 (kN/m2)
- Concentrated Loads Qk 4.5 (kN
- Horizontal Loads on Partitions, Walls and Parapets qk 3.0 (kN/m)
- N/A - Frequency - Response Factor N/A
- Criteria Client Requirement

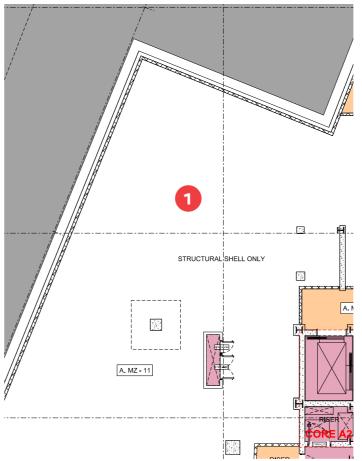
Superimposed Dead Load

- Nominal Load for Floor Finishes gk 1.6 (kN/m2)
- Nominal Load for Ceiling and Services gk 0.5 (kN/m2) over.

Mechanical

Temperature:

18 +/- 2 Winter 28 +/- 2 Summer Ventilation Rate 10 ACH 5m²/person Occupancy Final loads to be confirmed by Kitchen consultant.



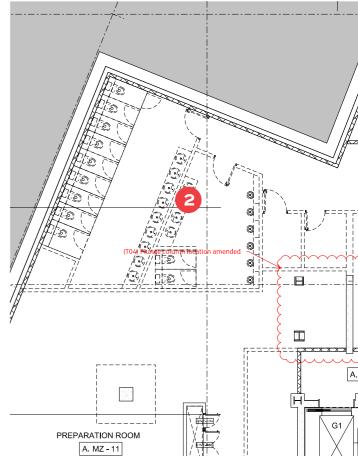
Mezzanine Level - Base build

Landlord Installation:

- Capped kitchen extract ductwork and exhaust louvres.

Spatial provision for kitchen extract air handling plant.

- Metered chilled water flow and return connection (7/12°C), capped at riser.
- Metered LTHW flow and return connection (70/50°C), capped at riser.



Mezzanine Level- Fit out by others

KEY

Base build Common parts

1. Preparation room base build

Capped off Services

2. Preparation room indicative layout to be fitted by future operator

2.11. Preparation room

Tenant Installation:

- Supply and extract ductwork, grilles, dampers, insulation etc. from the main events gallery AHU(s) to serve space.
- Extension to the chilled water and LTHW connections including FCUs and radiators or trench heaters within the ancillary spaces not conditioned by the main events space air handling plant.
- Kitchen extract fans and equipment to suit final kitchen requirements

Electrical

Power

Small Power 100W/m2 Lighting 15W/m2

Landlord Installation:

- Spare taps off on busbar for serving distribution boards in future fit out of general small power and lighting.
- Temporary general and emergency lighting.
- Minimum fire detection and alarm system.
- Containment within riser for future ICT cabling.

Tenant Installation:

- Metered distribution boards, power supplies for small power and lighting.
- Extension of fire alarm system to suit fit out.
- Lighting including emergency and general and lighting controls to suit fit out.

Public Health

Landlord Installation:

- Metered domestic hot and cold water services, capped at local riser.
- Sanitary drainage stub stacks and vent pipes.
- Sprinkler main with zone valve and single sprinkler head

Tenant Installation

- Supply and installation of all sanitary
 ware and equipment required. Extension
 of the domestic hot and cold water
 supplies to serve these fixtures and
 connection to the drainage stub stacks
 provided. Provision of any water
 softening or reverse osmosis water
 treatment as required for equipment.
 Trace heating to domestic hot water.
- Extension of the sprinkler system to suit layout. Any specialist fire suppression systems such as cooker hood integrated water misting systems.
- Grease removal equipment for kitchen equipment, in line with building regulations

Acoustic

For interior noise criteria and any relevant limitations on installed equipment refer to the project acoustic report.

Security

Criteria: As part of fit out

Lifts

Refer to lift specification

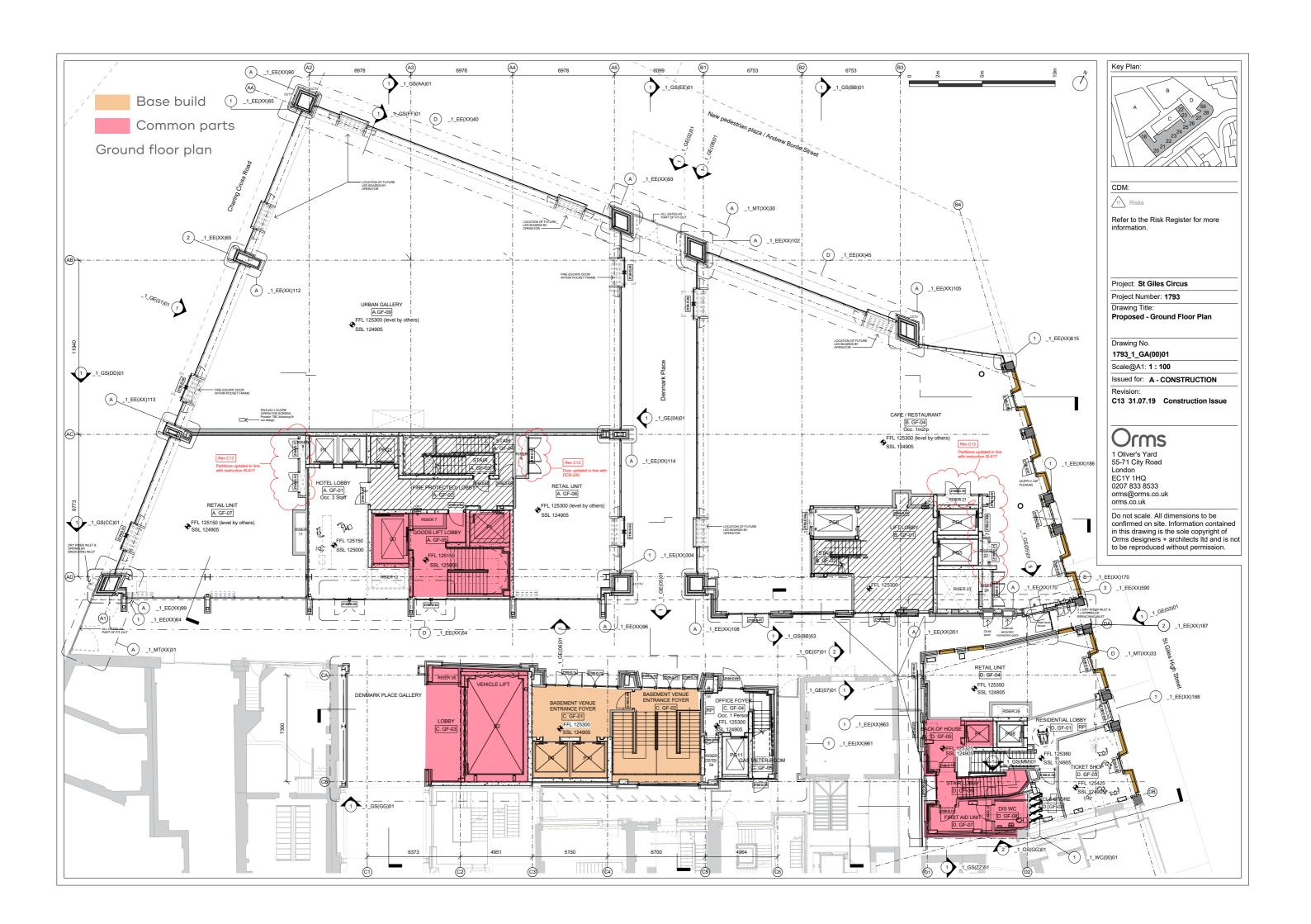
A/V

As part of fitout

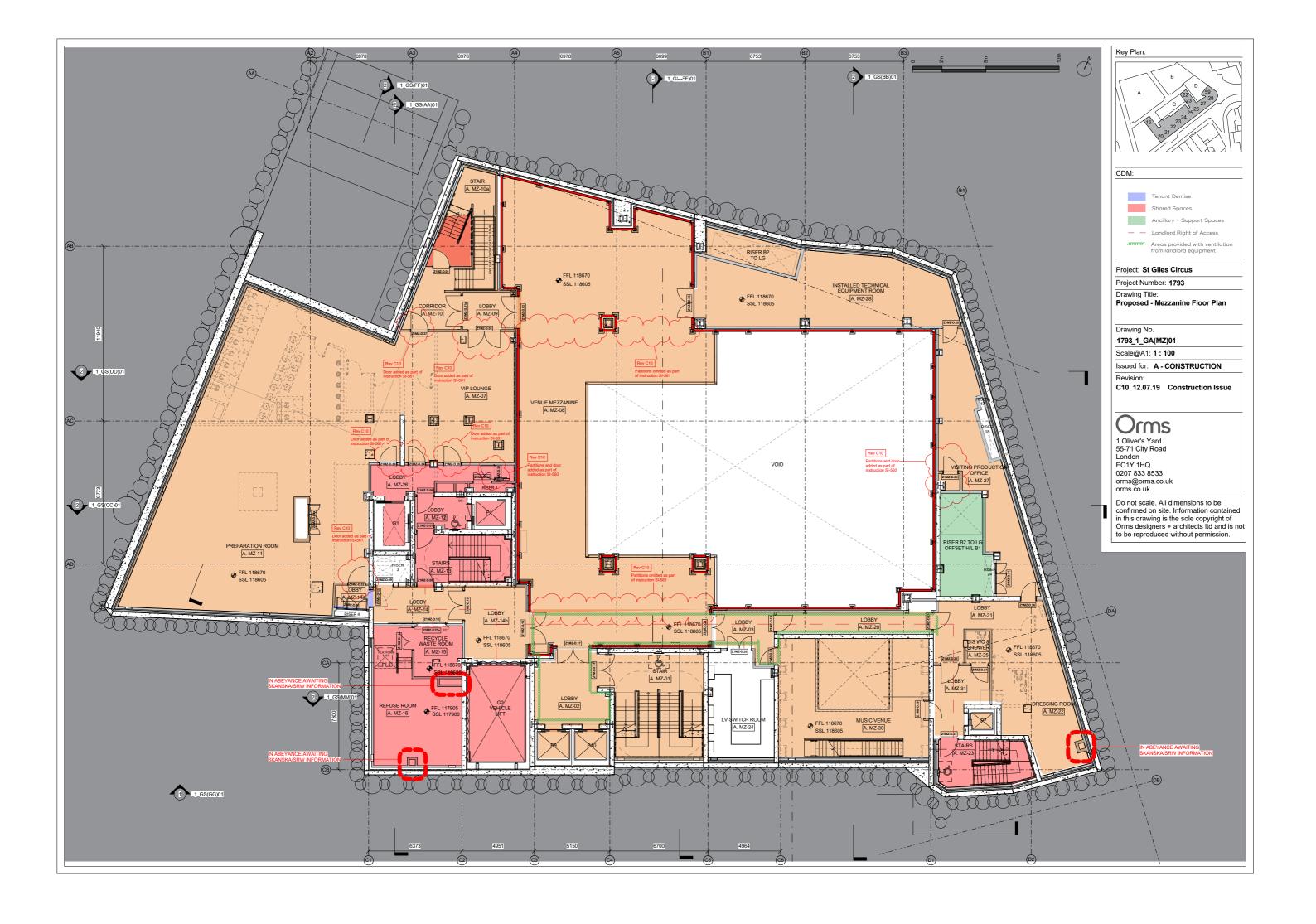
WiFi

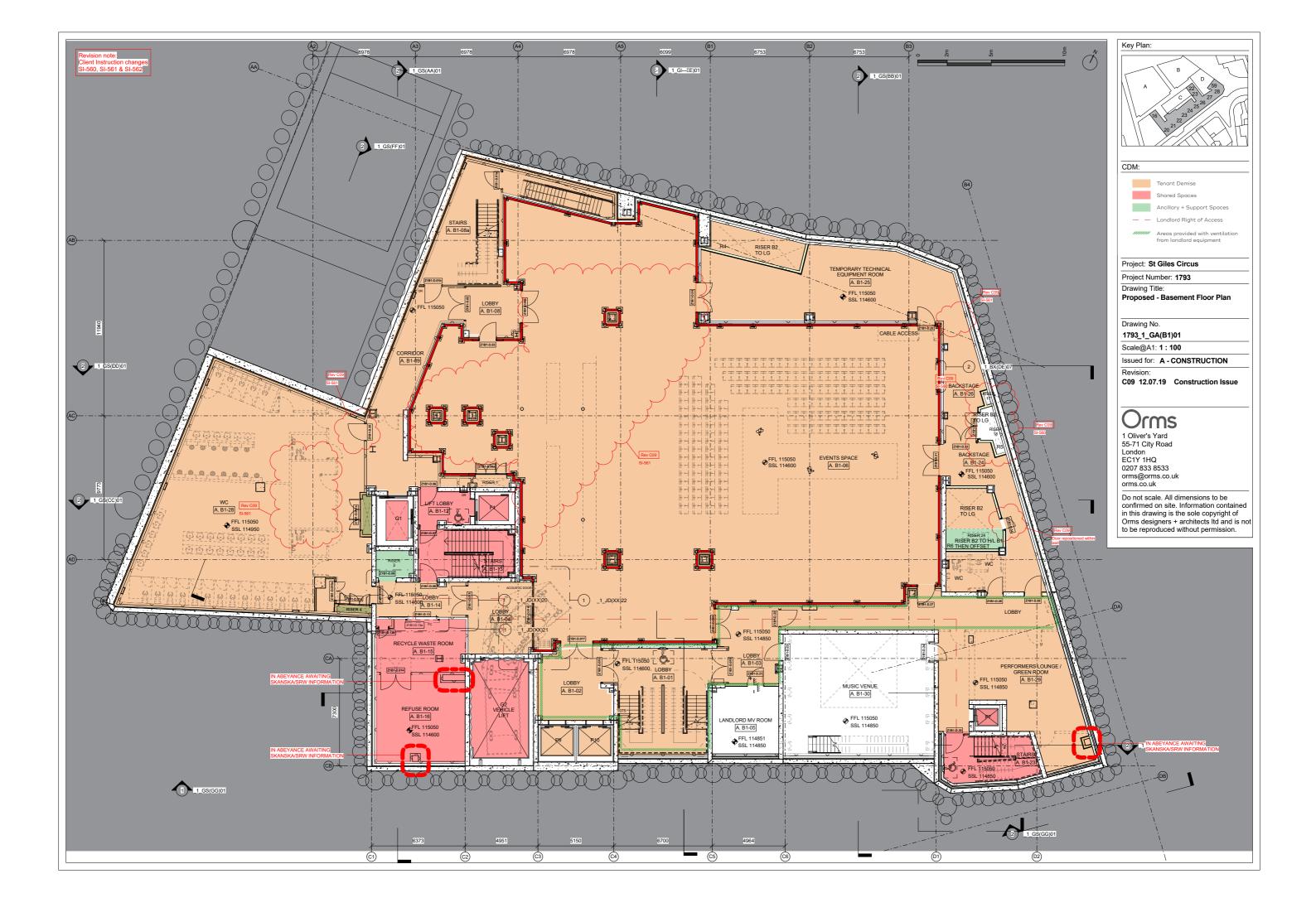
2.12. Building C - North Elevation

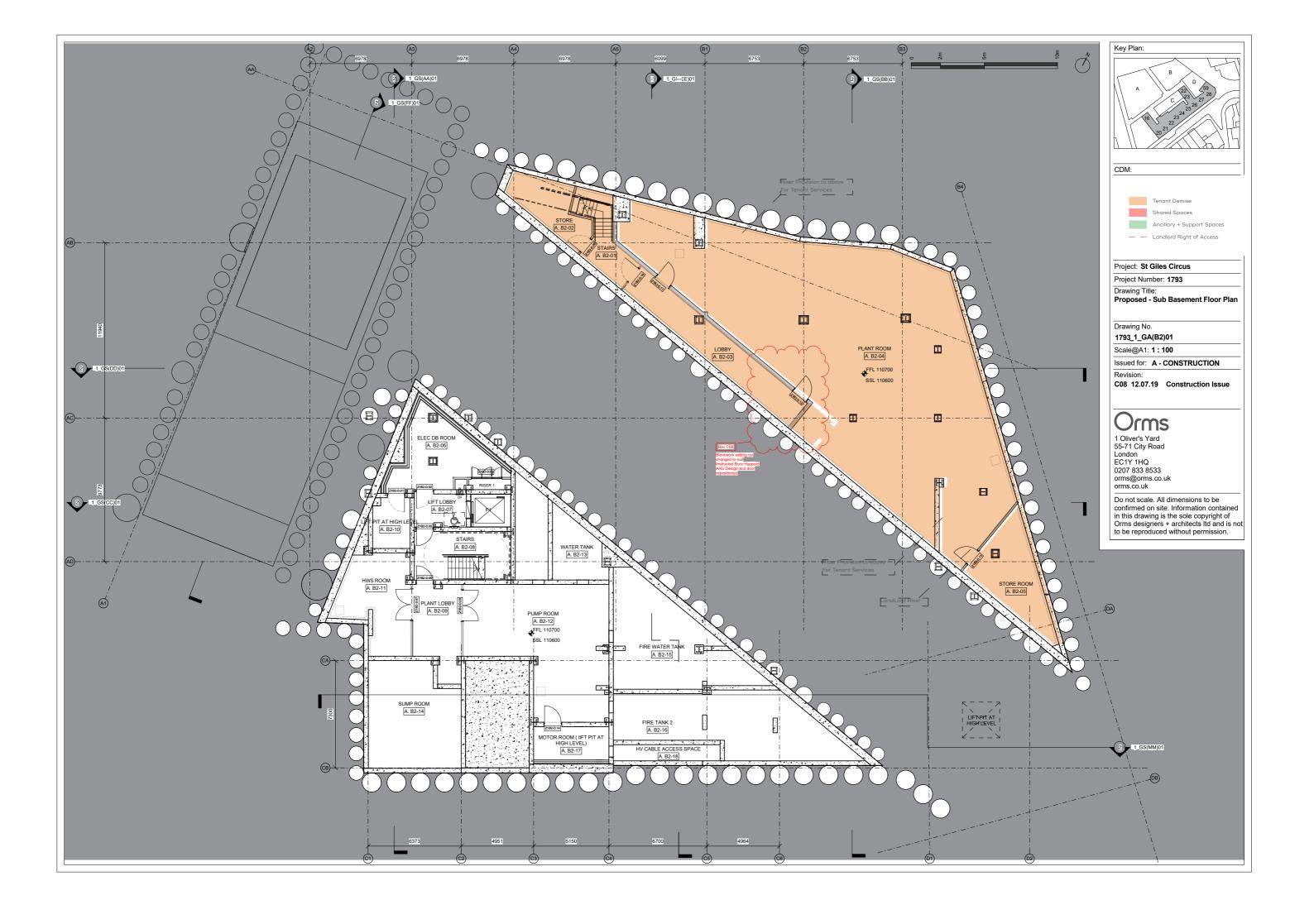


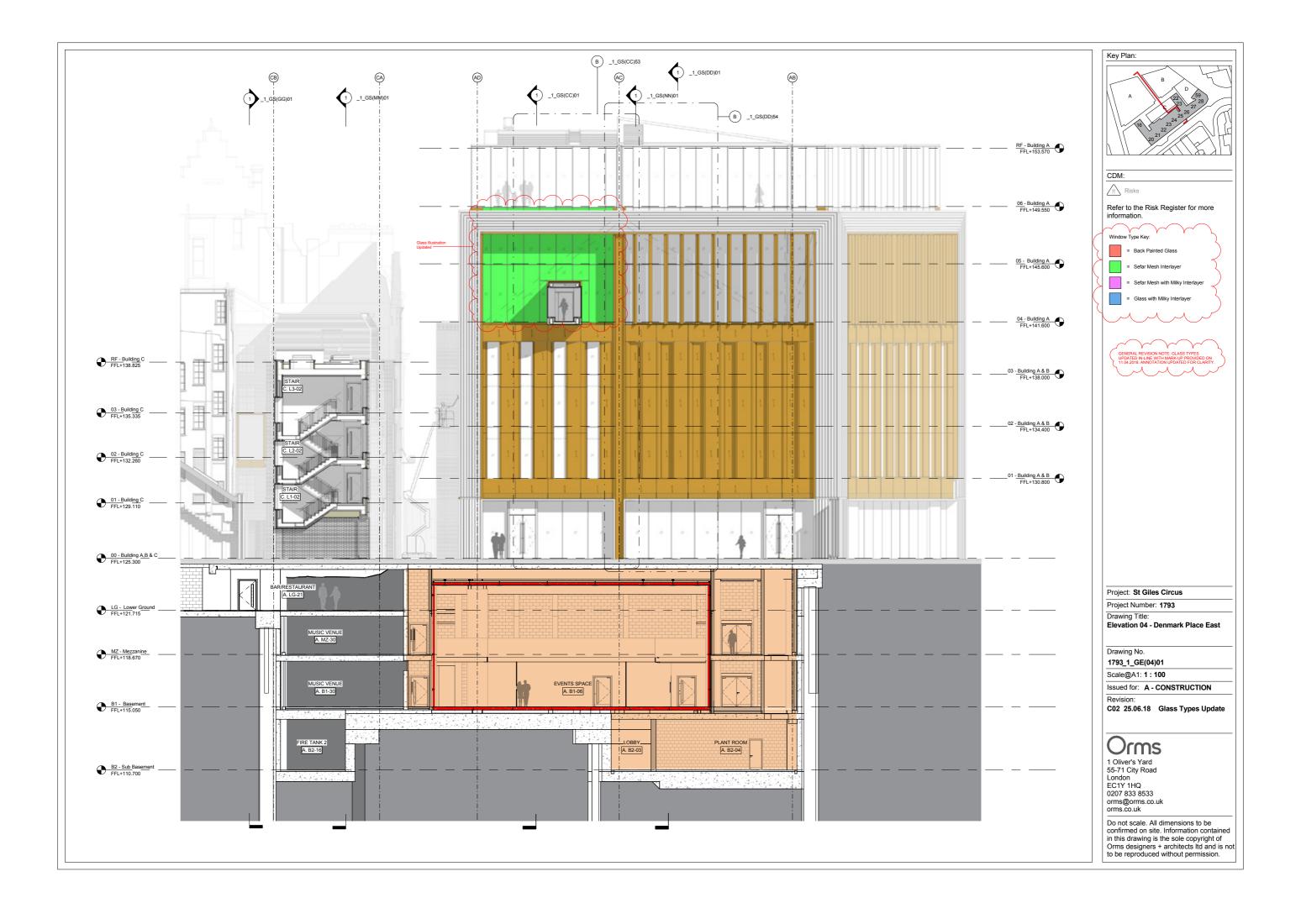


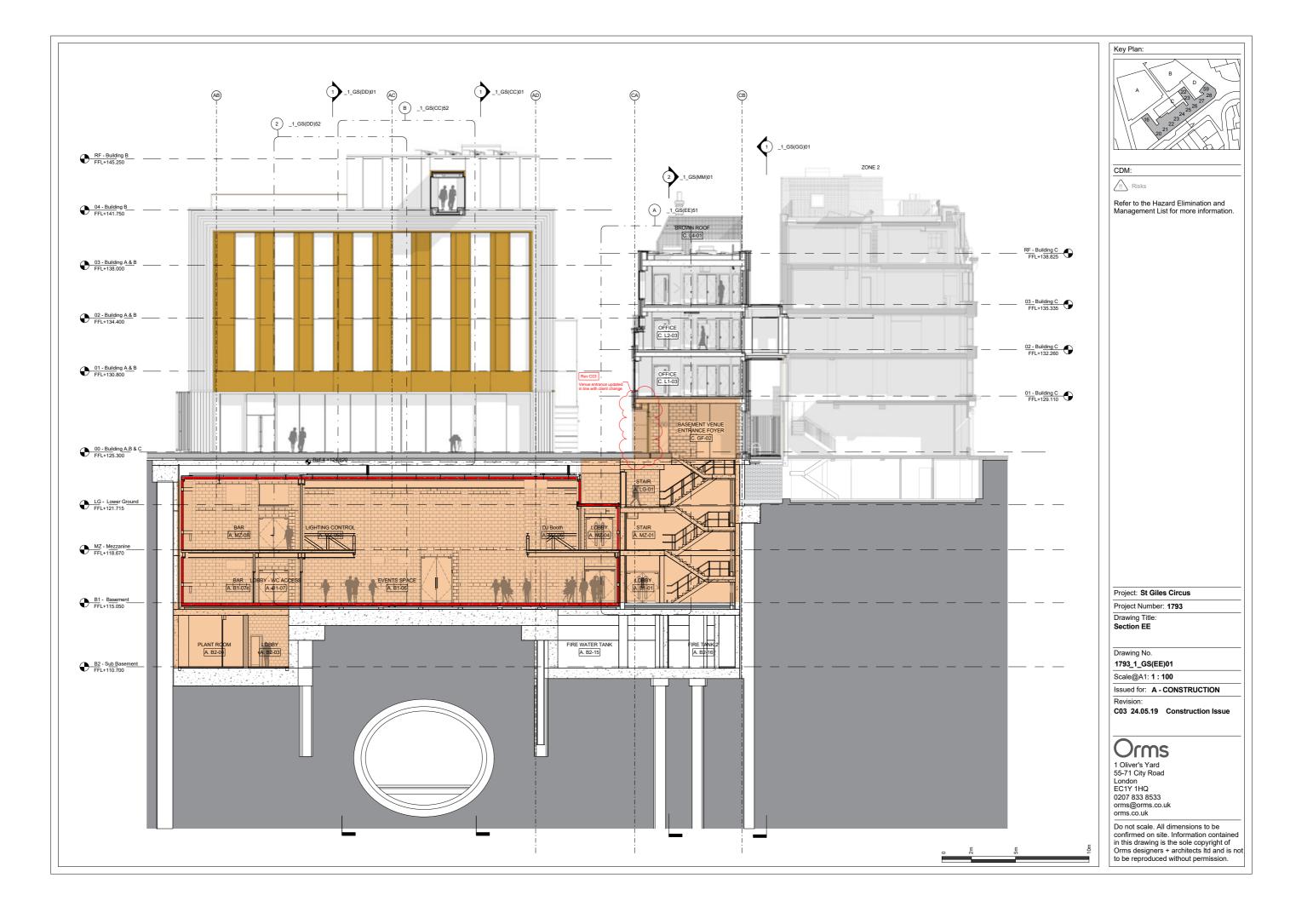


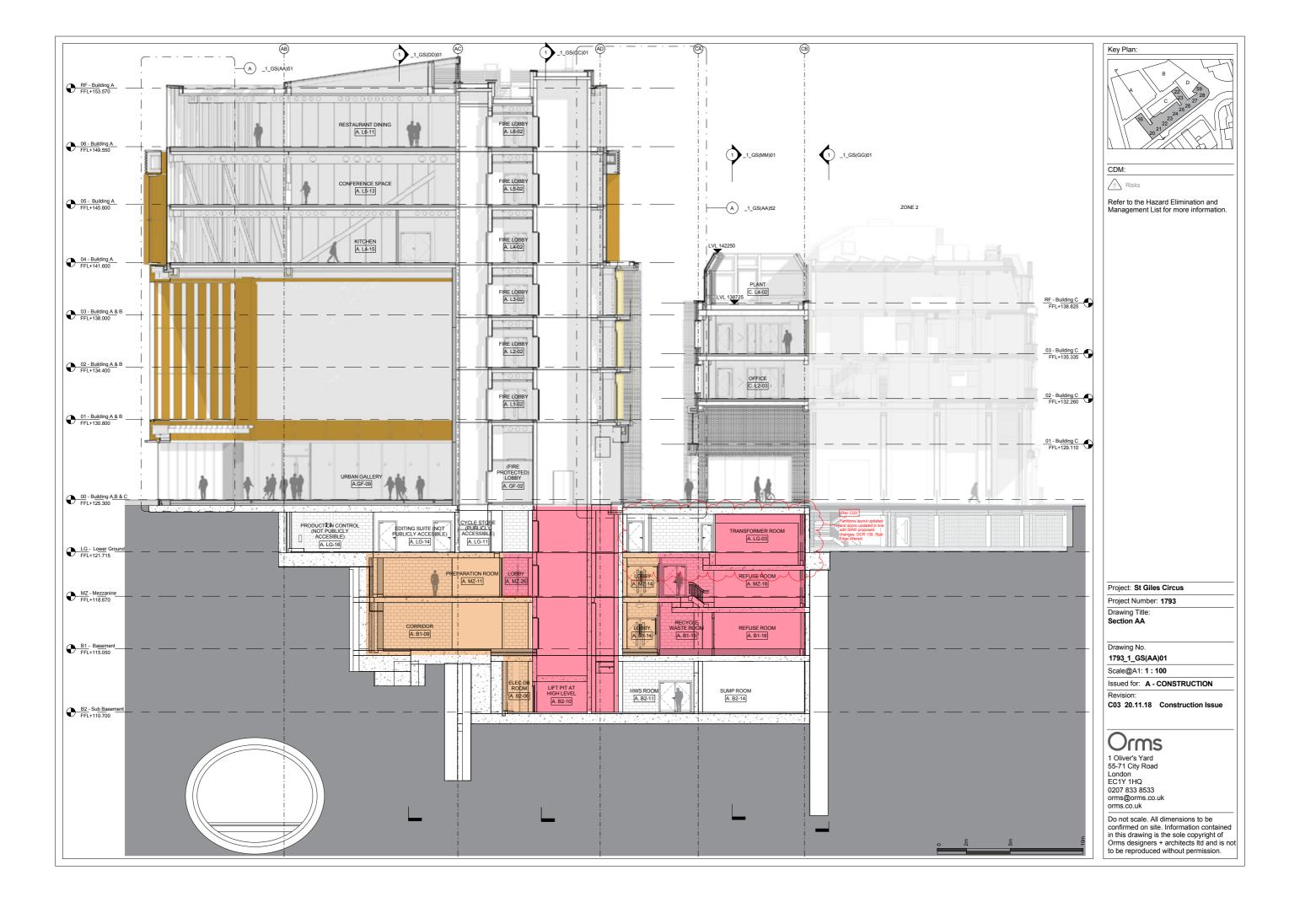


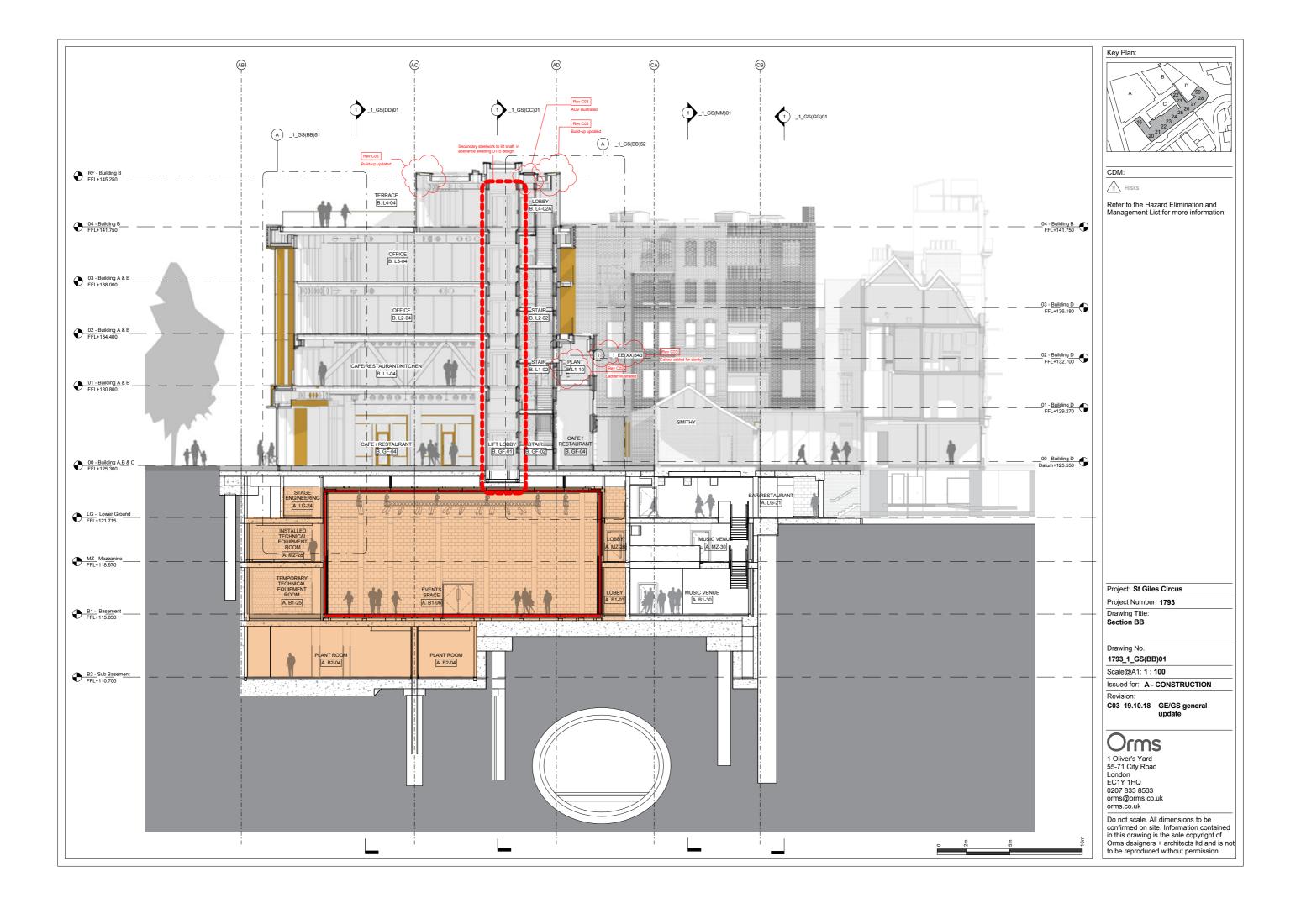


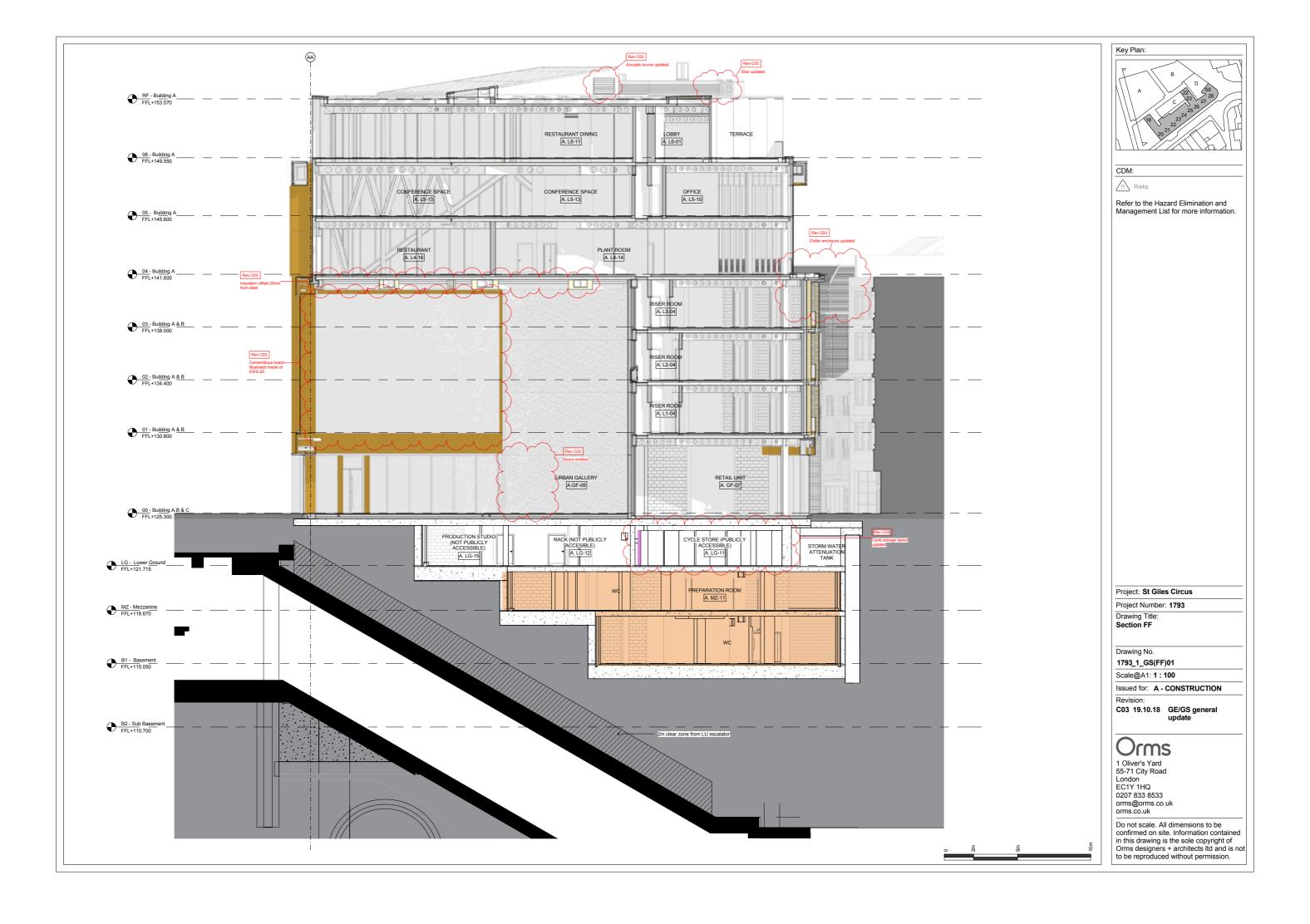


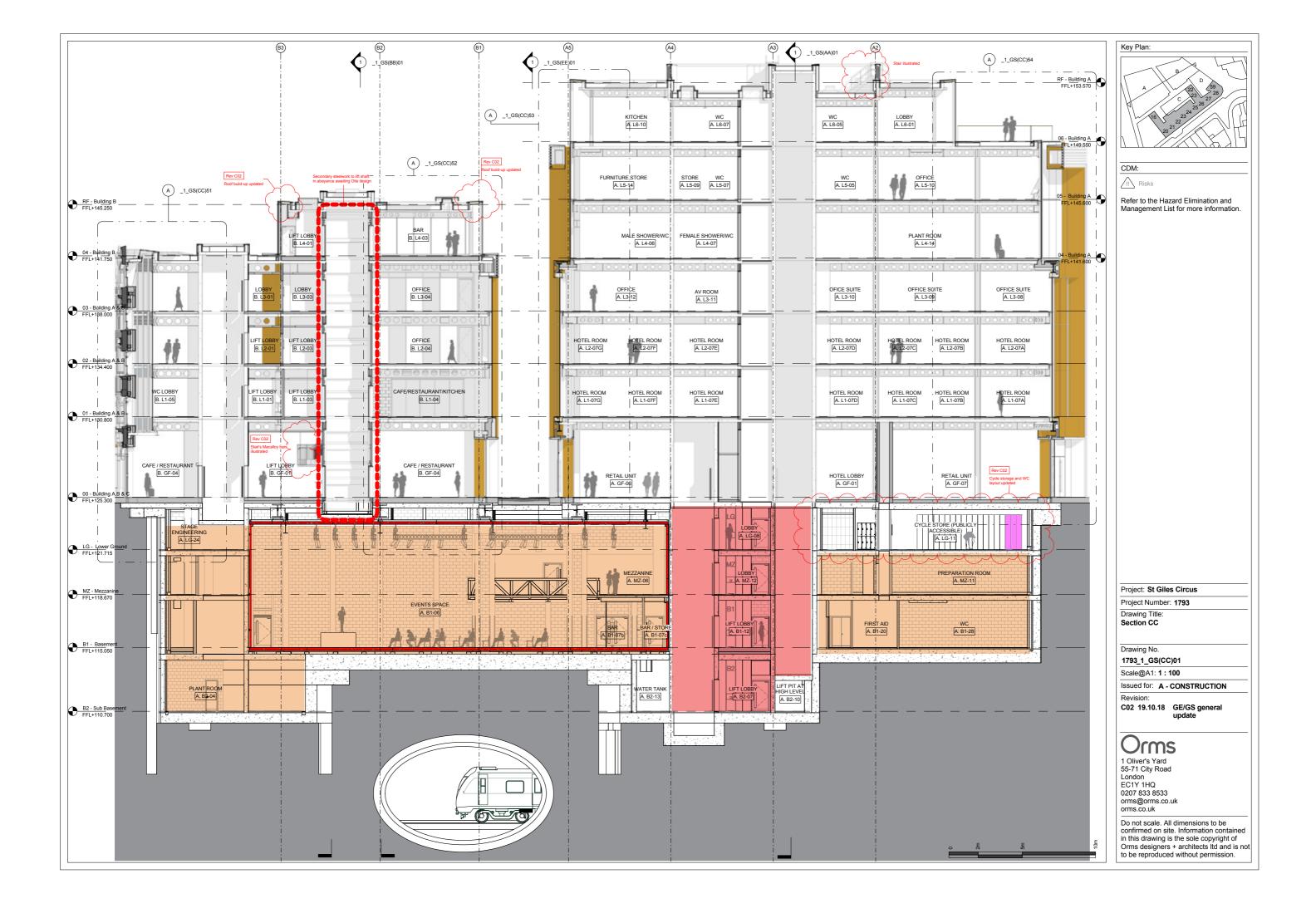


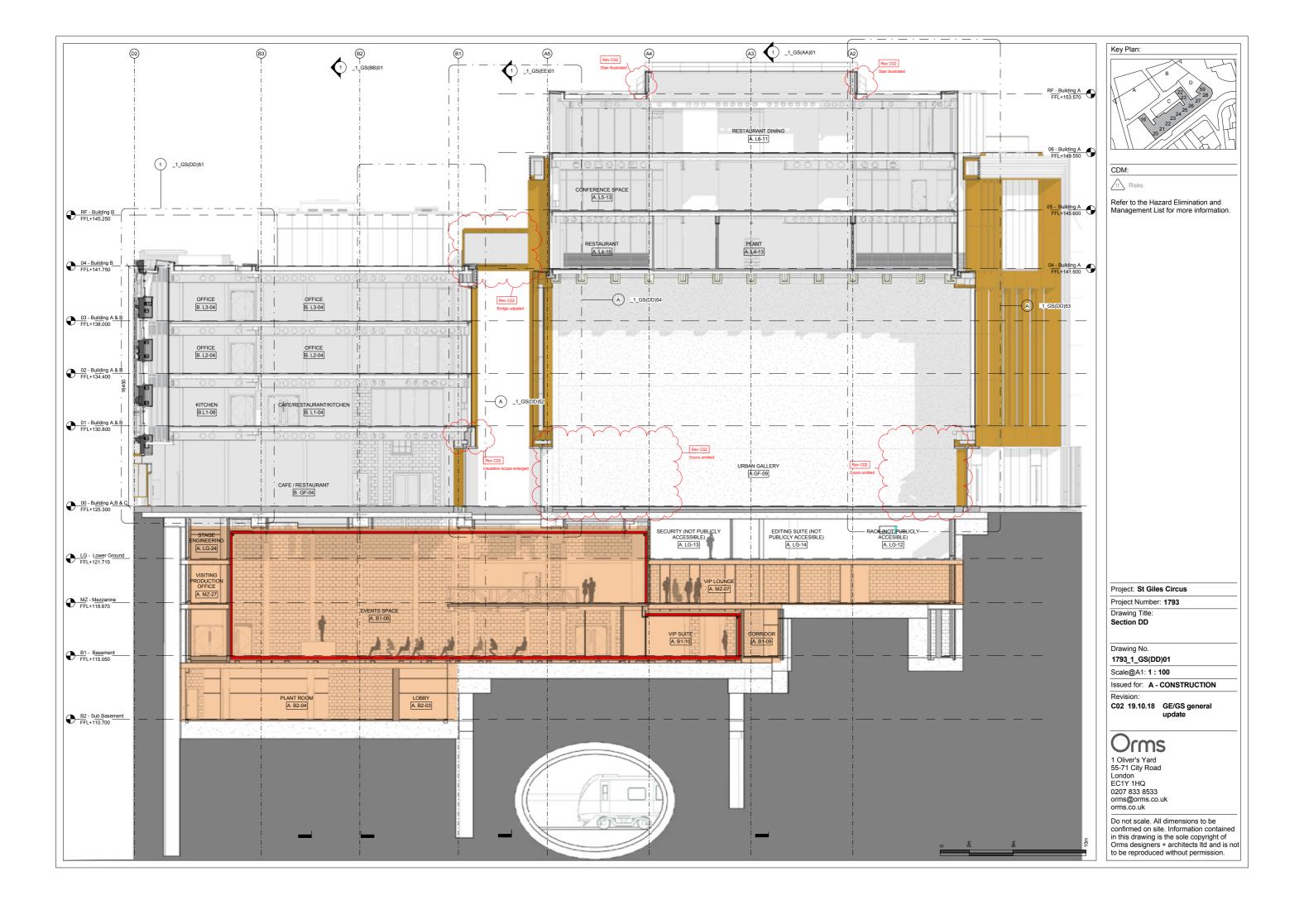












Other

3. Fire Protection

- This document is to be read in conjunction with the fire strategy report.
- Fire rated steel structure in accordance with the Fire Strategy report. Refer to SKA-FP-100 - Additional Fire protection to Basement 09 12 2016 & Fire Strategy Report

4. Lifts

Lift performance will comply generally with the recommendations of BCO2009, CIBSE and British Standards.

4.1. 1 St Giles Square

This building comprises a Ground floor above the event space with main entrance, a gallery, retail and access to the public realm at ground floor, 2 floors of hotel accommodation, office on the 3rd floor, 4th Floor kitchen and BoH, 5th floor Conference space and a restaurant/bar on the 6th floor.

4.1.1 Core A

This Core serves the above areas and the traffic to the different uses will need to be managed by means of the security system and by the building management to ensure that unauthorised persons cannot enter floors where they do not have permission to access, although it must be accepted that this system can never be 100% secure, as it is always possible for an authorised person to be 'tailgated' or for a person to ait in the car until it is called to another floor. This will need further discussion and design with the operators of the various areas.

There is a separate service lift which serves all floors from B to 6. The use of this lift will need to managed carefully, not only for security but to ensure that peaks of deliveries/movements to the various areas do not occur at the same time. This will also be needed to manage clean and dirty movements for food hygiene.

This lift also is used to access the cycle parking at LG and again it will need careful management to ensure deliveries are not planned at the same time as the peak cycle arrival/departures.

This lift will have an average interval of 85 seconds, when serving the whole building and be able to make 3.5 moves per 5 minutes, depending on the loading and unloading times.

If the lift is just used between G and LG for cycles, the average waiting time will be 44 seconds based on 3 cycles per trip, which means the lift in this mode only, will move 20 cycles per 5 minutes maximum.

There is also a further firefighting lift, which serves for G down to SB; this may also be able to be used for movements of goods and materials down to the events areas and for plant maintenance/replacement at SB.

4.2. Building C **4.2.**1 Core C1

This core serves the event space and comprises a duplex pair of passenger lifts and a large service/vehicle lift.

The population of this area is as follows:

Floor Use	Population
G Main Entry	0
LG Production and cycle store (covered by goods lift in Core A)	164 cycles and 23 people
BM Events Space	340 people
B Events Space	1670 people

The two passenger lifts are will have an average waiting time of 45 seconds and be able to move 120 people per 5 minutes, based on the cars being loaded to 70% of the maximum. It is expected that the large majority of visitors to the events will use the stairs, persons using these lifts will be either mobility impaired or less able or willing to walk, therefore there will be times when the cars will be less densely loaded because of wheelchairs etc. being used, and therefore the persons moved will reduce for several journeys.

4.3. Building D

This core also has an entrance to the 'Green Room' for the event space, which has a separate passenger lift serving G, LG, BM and B. This lift will have an average waiting time of 40 seconds and handle 30 people in 5 minutes.

5. Category A Fit Out

Air conditioning systems will allow formation of perimeter and internal zones each with independent means of control typically in line with each existing bay dimension. In open plan configuration, each zone shall be installed with humidity and temperature control to prevent condensation.

The lighting installation will be designed in cognisance of CIBSE LG7. The lighting controls and infrastructure will have facility for additional supplementary and feature lighting to be added by the Tenant to comply with LG7, if required. Office luminaires will incorporate LED lighting and be controlled via a lighting control system capable of providing constant illuminance control, occupancy control and daylight linking.

Sprinkler branch zone valve shall be provided with a monitored isolation valve, non-return valve, flow switch zone check arrangement, drain and test valves in the core and is extended to the Cat A areas.

6. WC'S

WC provision on every floor based on occupancy of 1 person per 5 sq m for A3 areas with a 60/60 male female split and recommendations of BS6465 2006 +A 1: 2009 on a floor calculation.

Accessible WCs: 1 no unisex accessible toilet will be provided on each floor.

8. MEANS OF ESCAPE

Escape widths are designed to accommodate evacuation based on the following occupancy criteria.
A3: 5m2/person