

IDP REPORT

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INTERIOR DESIGN

2016/17

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INTRODUCTION

Studio 4 is investigating the impacts of a changing body both in its physical abilities, but also its wider impact on their social existence to build an understanding of how spaces allow, inhibit, or can be manipulated to dissect existing spaces into environments where the lived body is nurtured, prospers, and is loved, with the understanding of the fact that the human body plays a central role in shaping our understanding of the built environment.

During the year we tested ideas of how the human body can manipulate and affect the occupation space, and how space design can be influenced by different physical and mental conditions.

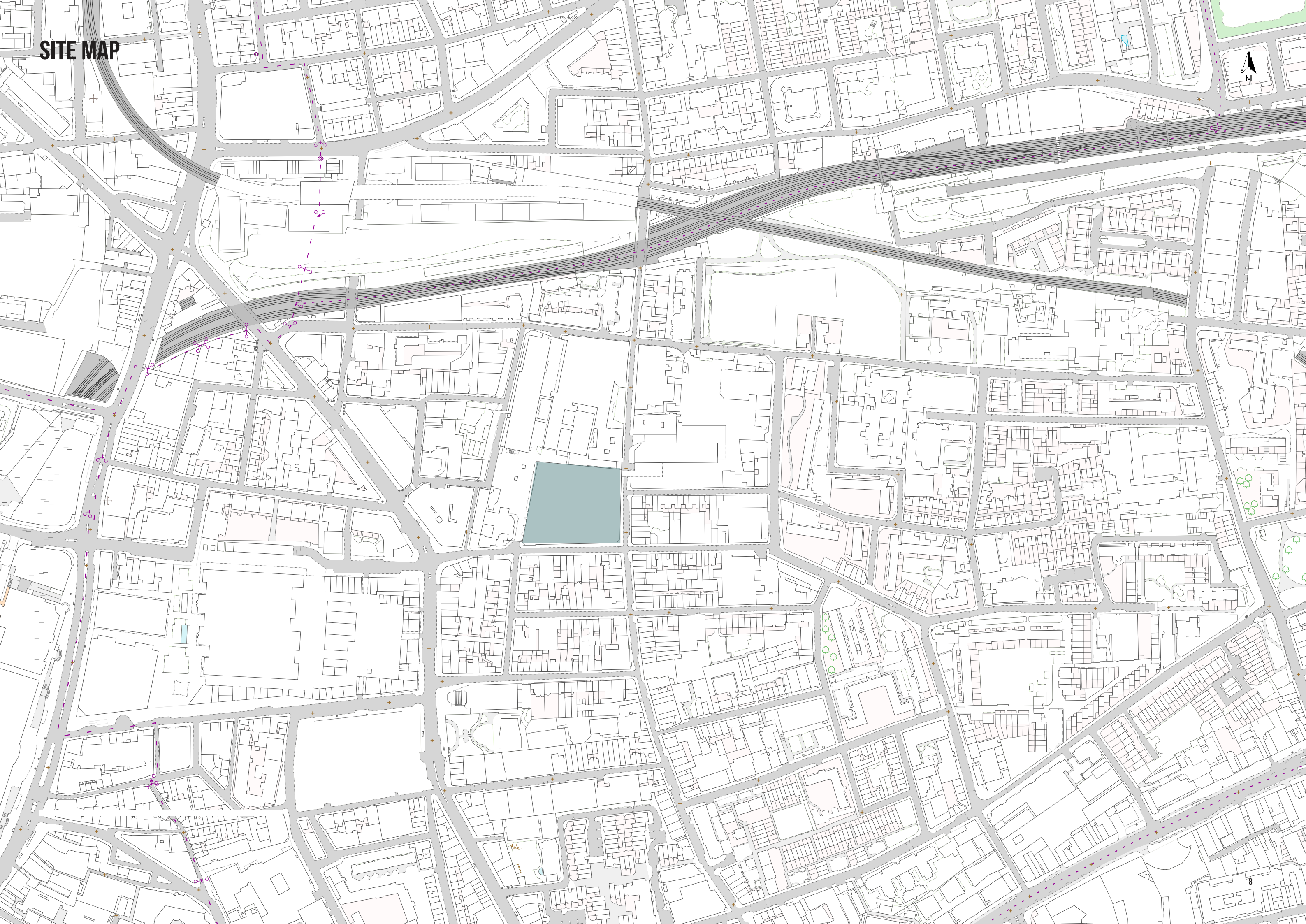
Looking at anxiety as the core subject, I designed a community centre for people with anxiety which located in The Old Truman Brewery, F block, Brick Lane. The key design element is a treatment through different activities based on music therapy in a concept of cubes - each cube will be held a different activity.

1.0 CULTURAL CONTEXT

Truman's Brewery was a large East London brewery and one of the largest brewers in the world at the end of the 19th century. Founded around 1666, the Black Eagle Brewery was established on a plot of land next to what is now Brick Lane in London, E1. It grew steadily until the 18th century when, under the management of Benjamin Truman, and driven by the demand for porter, it expanded rapidly and became one of the largest brewers in London. Its growth continued into and through the 19th century with the expansion of its brewery and pub estate. In 1873, it purchased Philips Brewery in Burton and became the largest brewery in the world.

Today, The Old Truman Brewery is the biggest East London's revolutionary arts and media quarter, is home to a hive of creative businesses as well as exclusively independent shops, galleries, markets, bars and restaurants. Part of The Old Truman Brewery is grade II listed and the director's house, Truman Brewery is grade II*, amended as part of the Bicentenary commemorations of the 1807 Abolition Act.

SITE MAP



HISTORICAL INFORMATION



Truman Brewery 1880



Truman Brewery 1910



Truman Brewery 1950



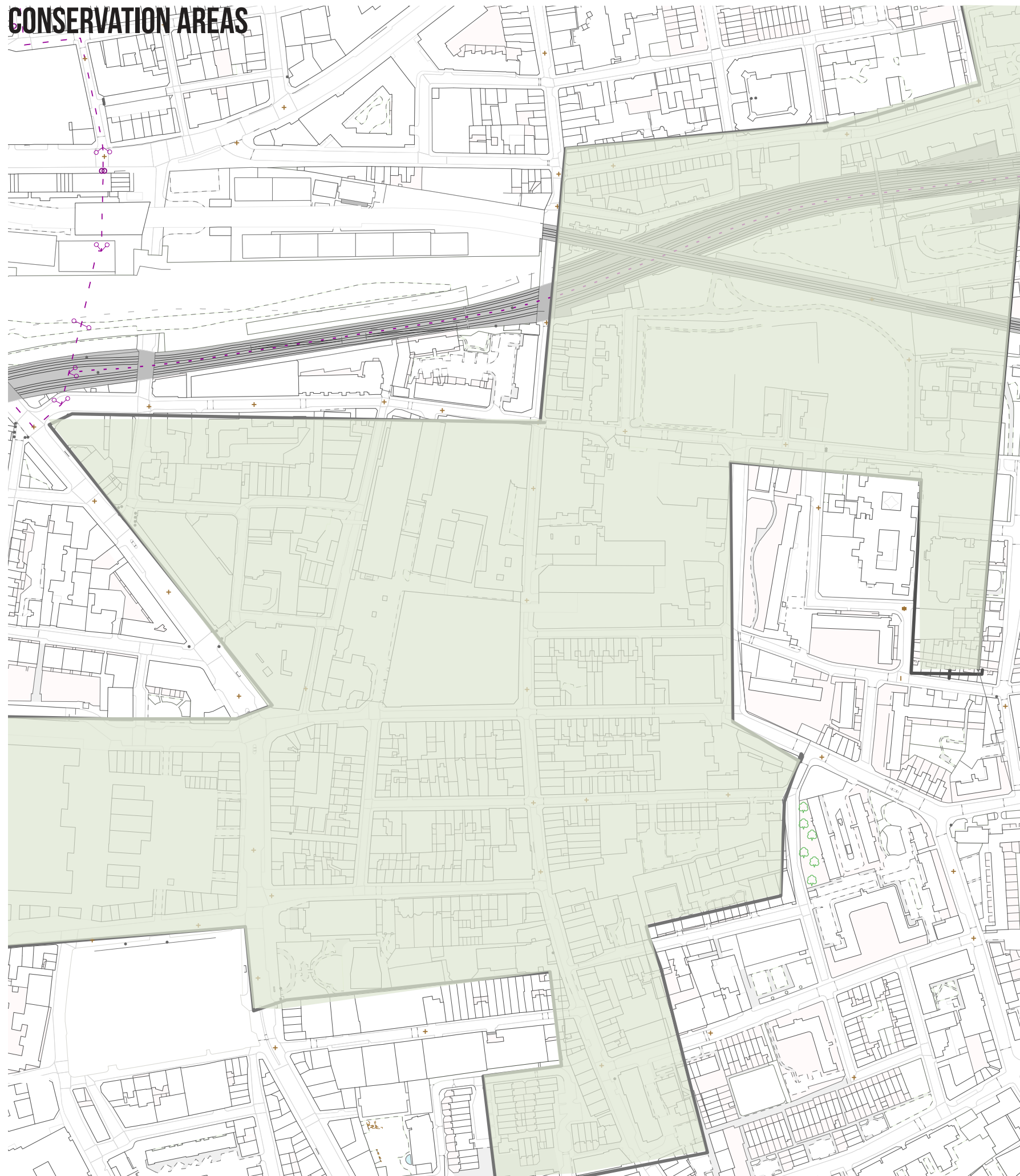
Truman Brewery 2017

The original Truman's brew house is generally claimed to have been founded in 1666. Joseph Truman, who having previously worked in the brew house, took control of it in the 1680s. His son, Benjamin Truman, led the Truman's becoming the drink of the Royal Family. By 1880 and with the help of the nation's most renowned brewery architects and it became the world's largest brewer.

During the 1960s the Truman's was restructured including the closing of Burton brewery and heavily investing in improving Brick Lane brewery. In 1971 Truman's became the centre of a bidding war between Grand Metropolitan and Watney Mann. Eventually, Grand Metropolitan won and then immediately turned its attention to Watney Mann.

In 2010, the Truman's brand was purchased from Scottish and Newcastle by two London businessmen, and within few years became one of East London most popular areas.

CONSERVATION AREAS



The Brick Lane and Fournier Street Conservation Area is one of the most important historic areas in London.

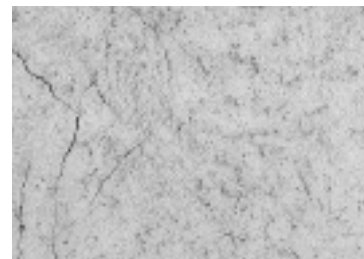
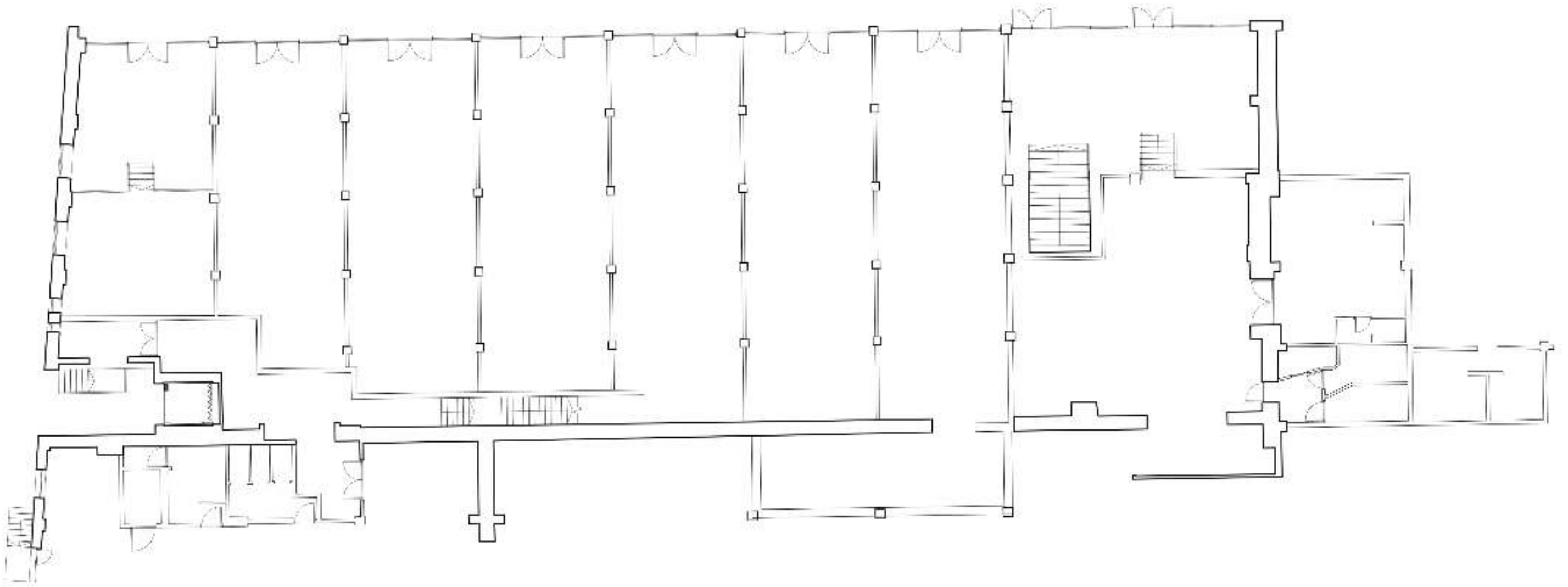
It was designated in July 1969 as 'Fournier Street'. It was extended in 1978 and again in 1998, when its name was changed to reflect Brick Lane's contribution to the character of the area. It was further extended to the west and south west in October 2008 with the inclusion of St Matthews Church, St Anne's Church and Victoria and Albert Cottages. It is one of the largest in Tower Hamlets, running along Brick Lane from Bethnal Green Road in the north down to Whitechapel in the south.

 **Conservation Areas**

SITE PLAN



EXISTING FLOOR PLAN 00



Concrete

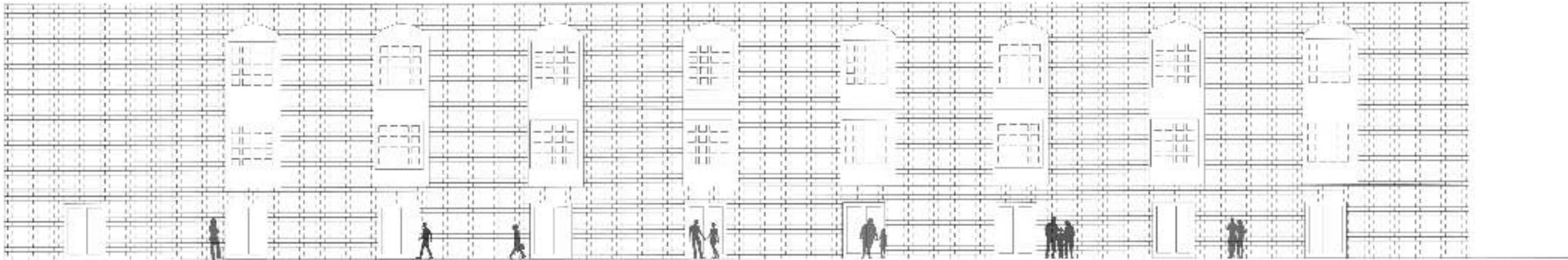


Steel



Bricks

EXISTING SOUTH ELEVATION



Scale 1:200

PHOTOGRAPHIC SURVEY - EXTERNAL



1



2



3



4



5



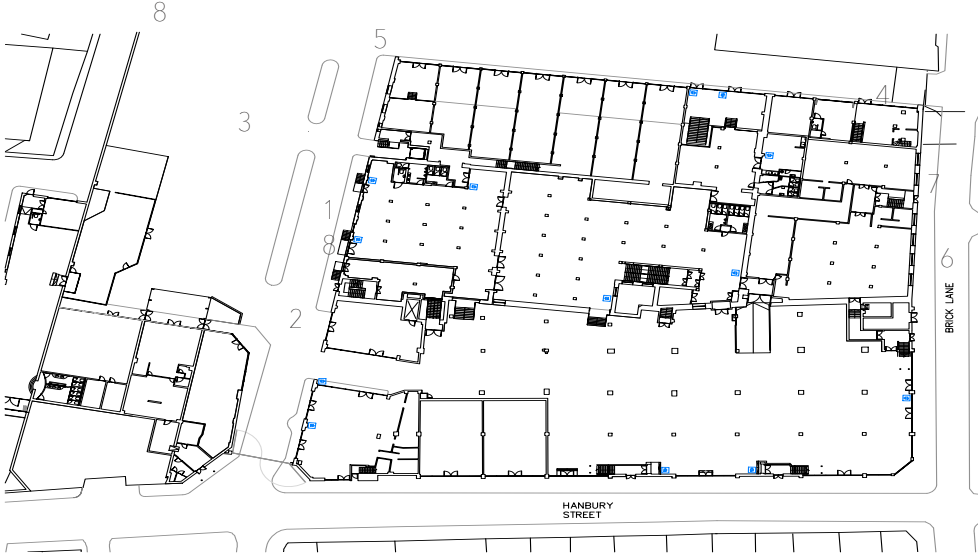
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7



8



PHOTOGRAPHIC SURVEY - INTERNAL



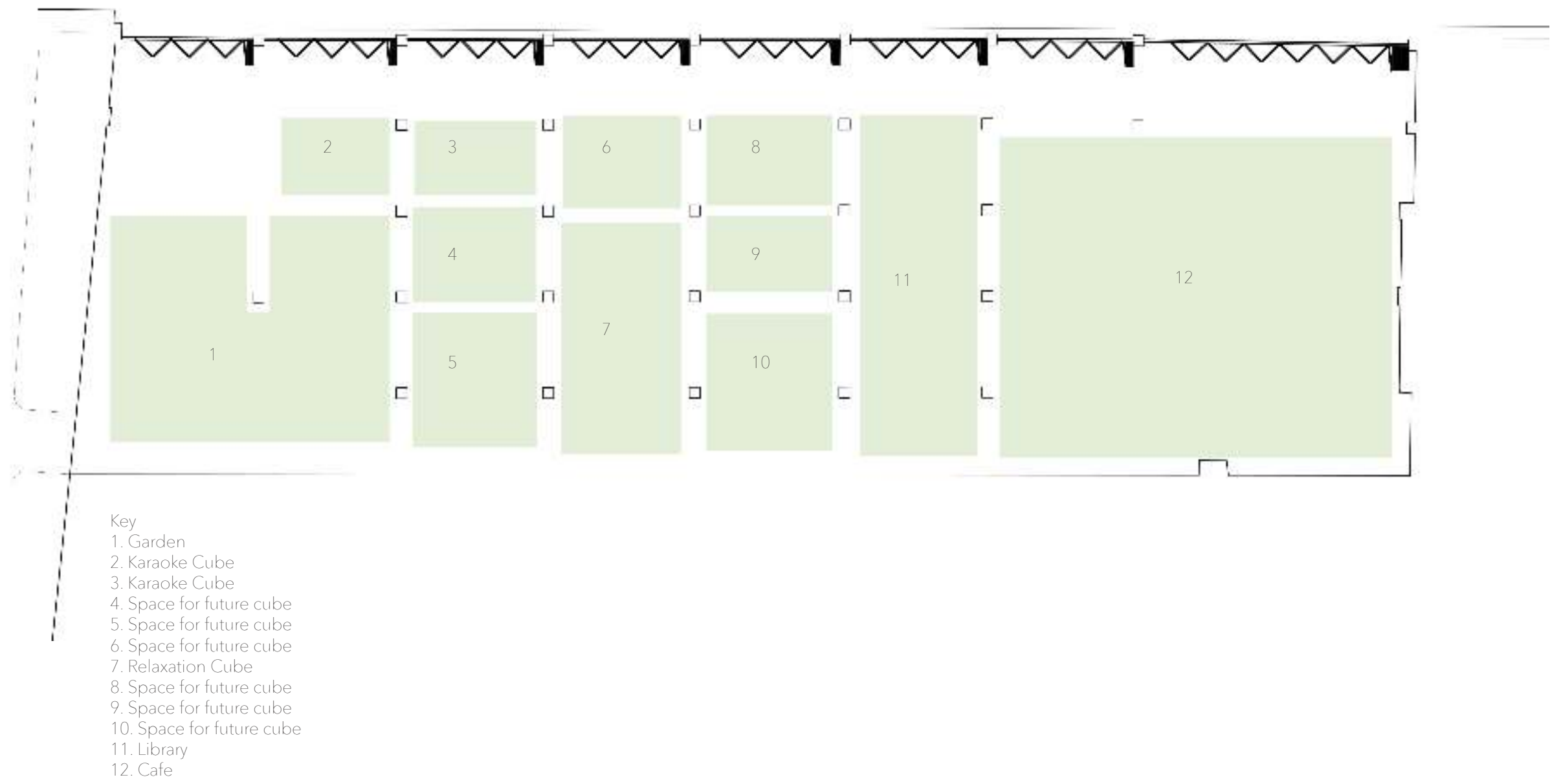
All pictures were taken on the second floor, F Block.

DEMOLITION PLAN LEVEL 00

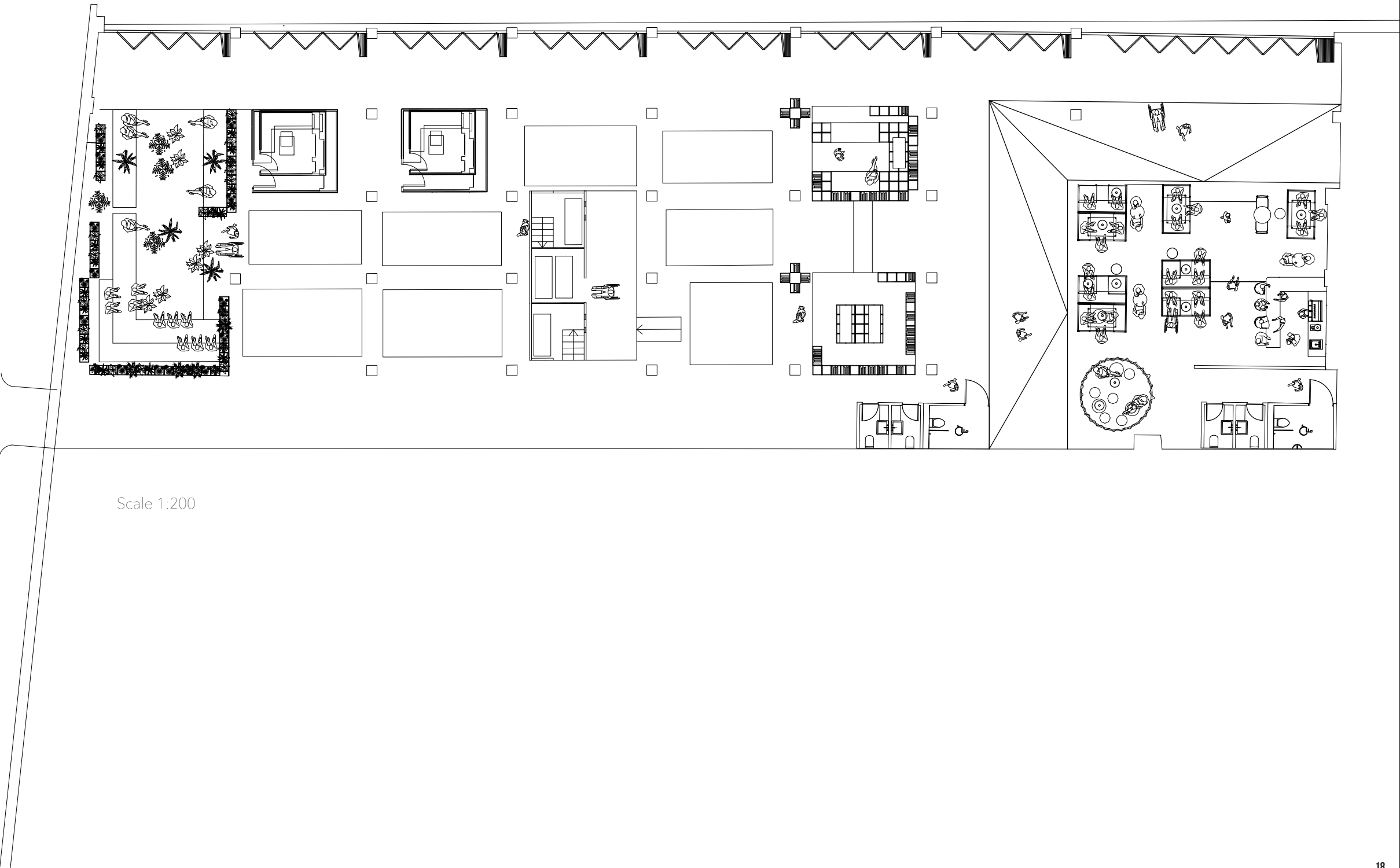
Demolished wall



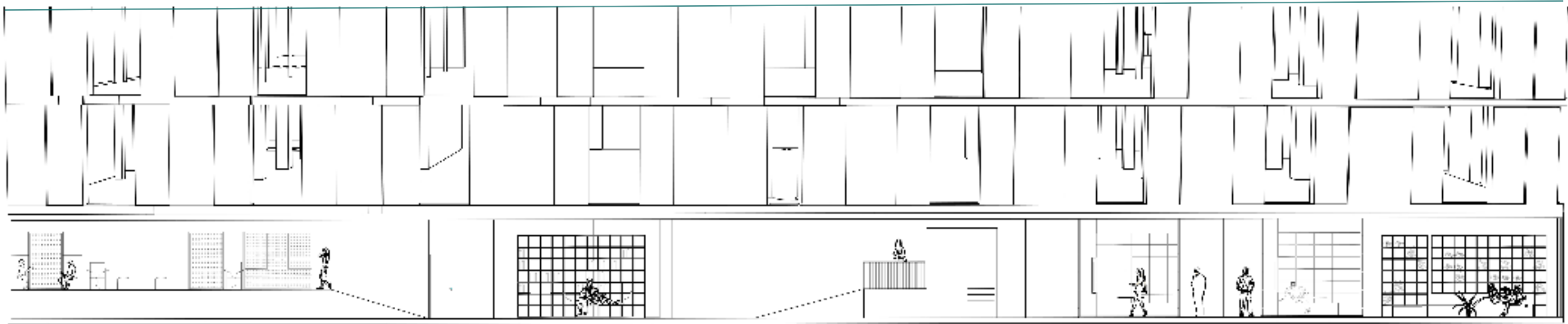
PROGRAMME LEVEL 00



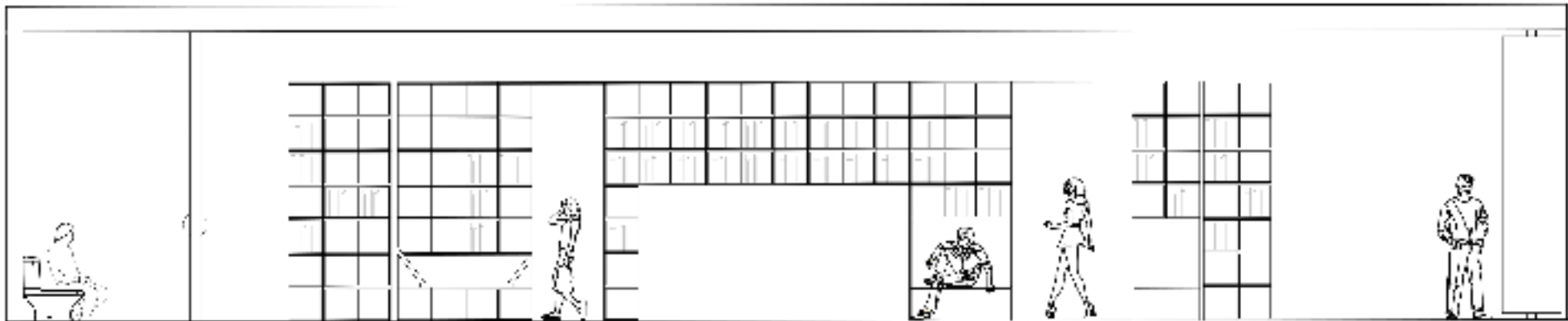
PROPOSED PLAN LEVEL 00



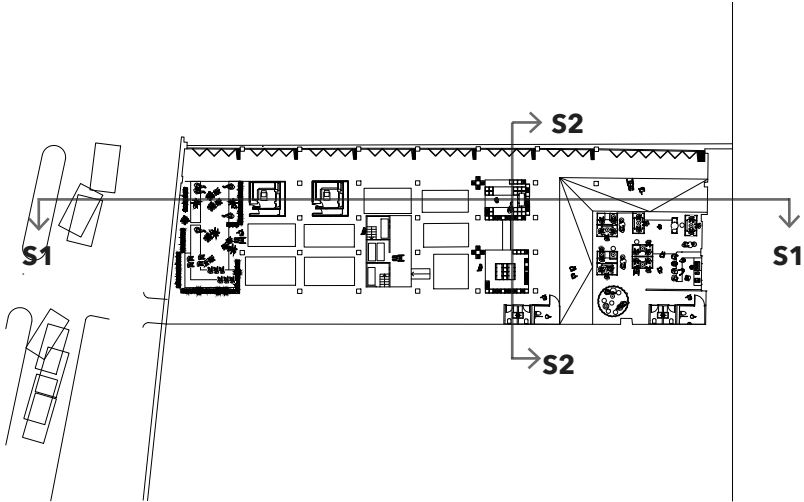
PROPOSED SECTIONS LEVEL 00



S1 ; Scale 1:200



S2 ; Scale 1:200



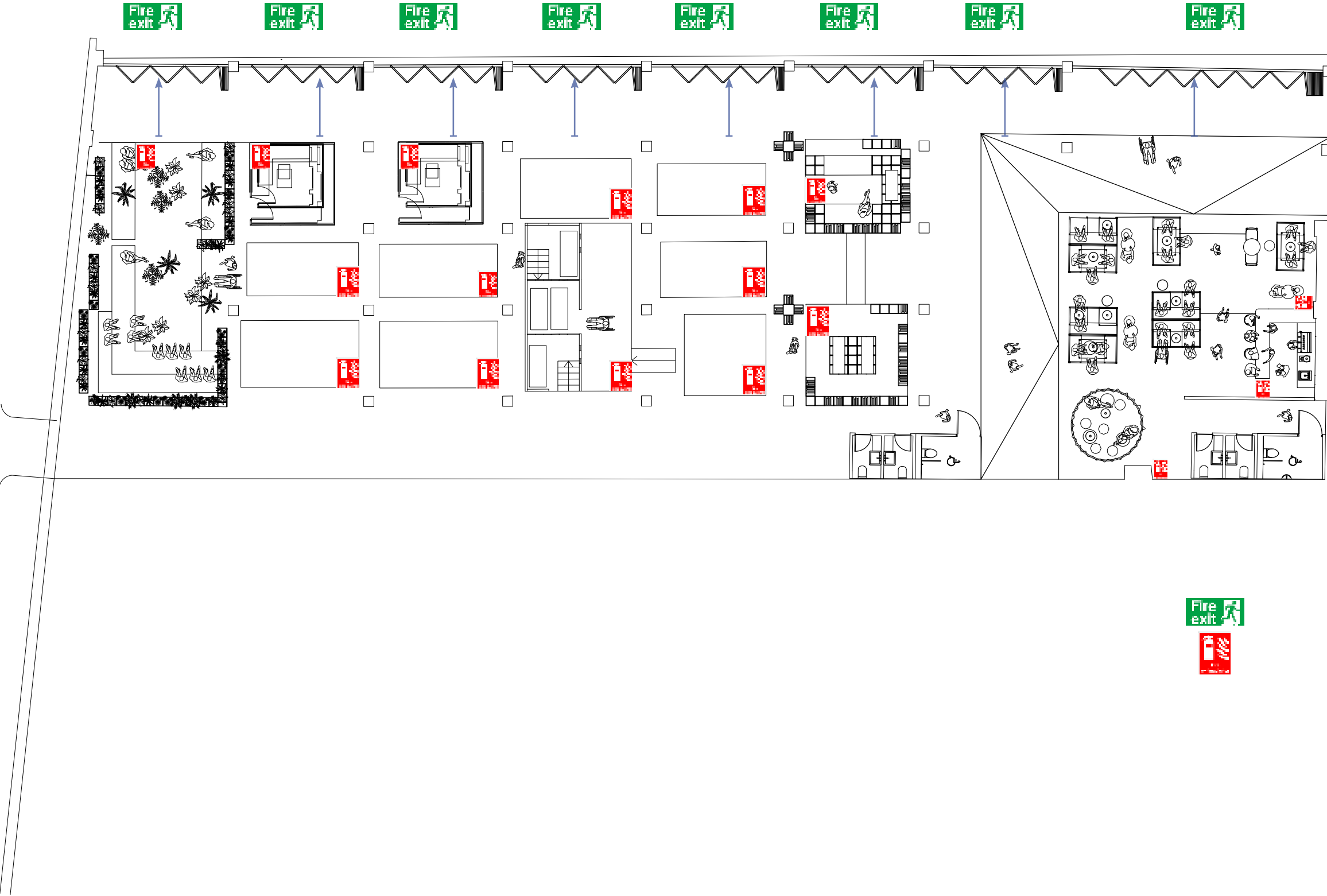
2.0 PROFESSIONAL AND REGULATORY REQUIREMENTS

Following my proposal, for the interior of the ground floor, I keep the columns to support the ceiling and remove the partition walls in order to create open space and to place the cubes within the grid. For the exterior, both South and East facade will change, and from the existing glass doors, there will be sliding doors. The part of The Old Truman Brewery is grade II listed and the director's house, Truman Brewery is grade II*. The F Block of the building, our working space, is not listed and there is no need to be considered in terms of Planning law, listing and conservation.

PART B - FIRE SAFETY

According to Part B, the building “shall be designed and constructed so that there are appropriate provisions for the early warning of fire, and appropriate means of escape in case of fire from the building to a place of safety outside the building capable of being safely and effectively used at all material times”.

My design propose focuses on the ground floor, and because the main wall is made of sliding doors, there is an easy way of access to Dray Walk. Also, there are Fire Extinguisher on each and every cube, as well as in the larger spaces as the cafe and the garden.

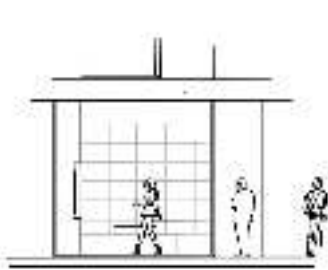


PART E - RESISTANCE TO SOUND

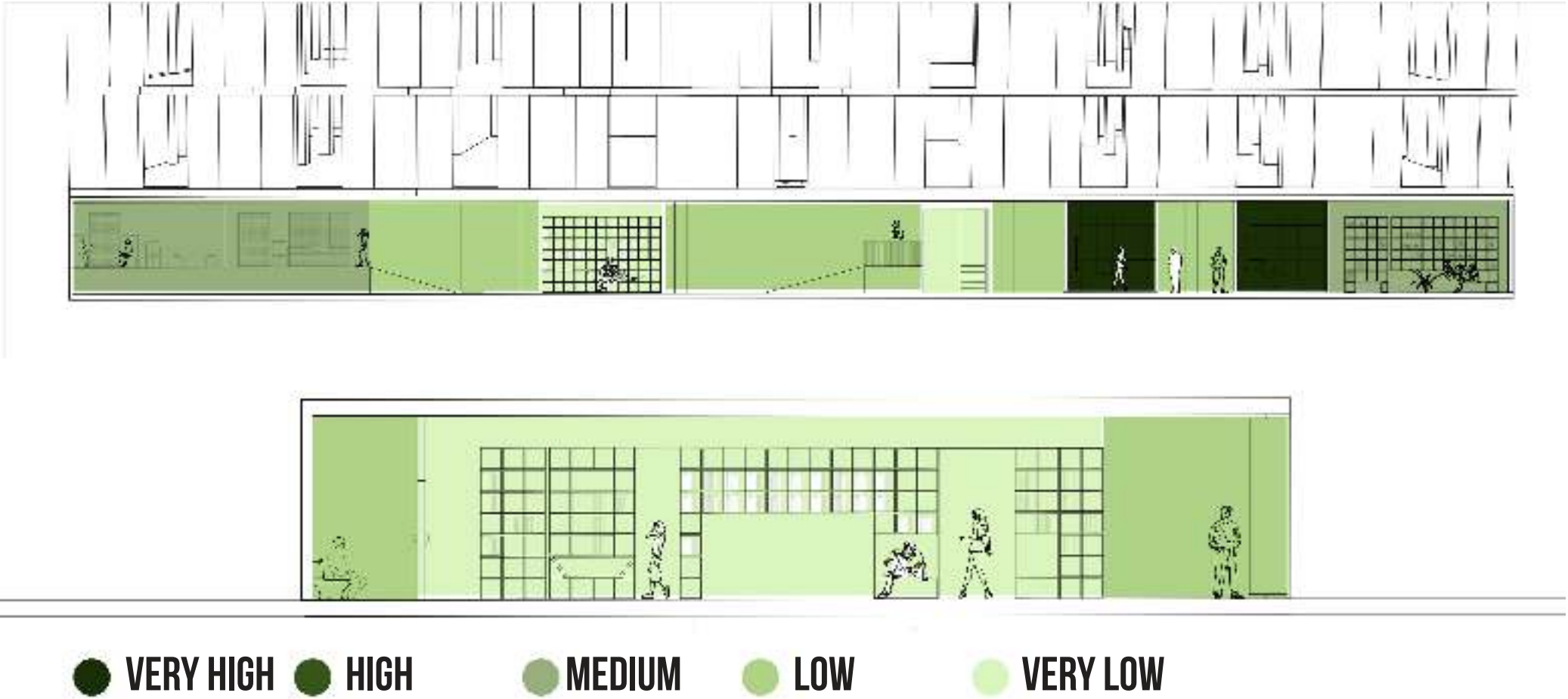
The passage of sound regulations control the noise levels in the building, affecting both the users of the building in different areas and the surroundings of it. The noise levels should not get high enough to disturb other occupants in the building or area

In the section, I am demonstrating the levels of sound from very low to very high. The cafe and the garden representing a medium level of noise, while the Karaoke demonstrates high level of sound as it is small space where people singing. The Yoga and Library representing space with very low sound as it is quieter.

In the areas between the cubes, the noise levels are medium to low.

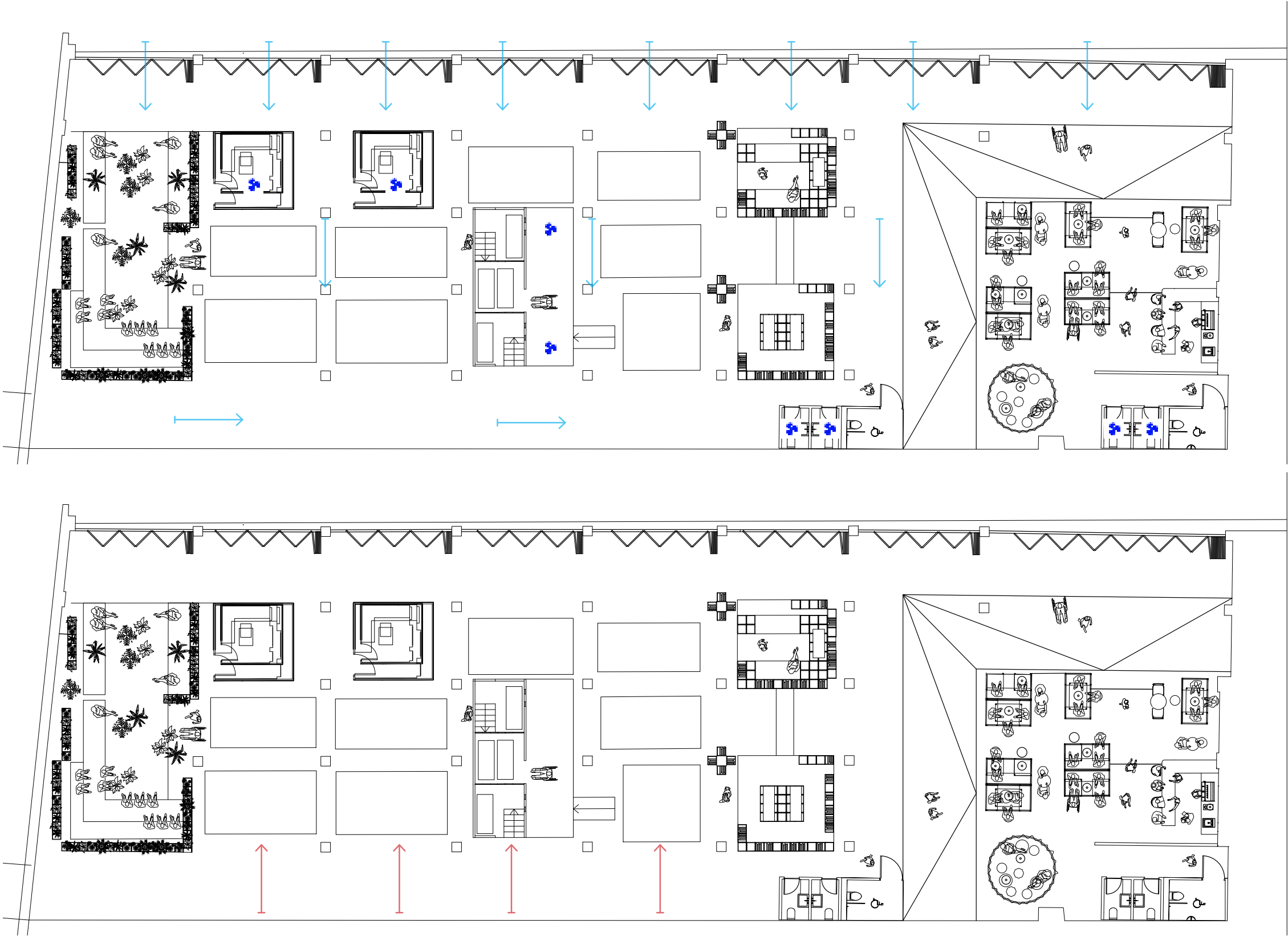
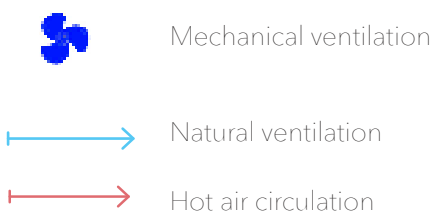


MDF sound proofing panels acoustic insulation board for the Karaoke cubes. The benefits of using it is the face that they have high sound absorption frequency, good effect on sound insulation, E1 grade Environmental protection and decorative and easy to install.



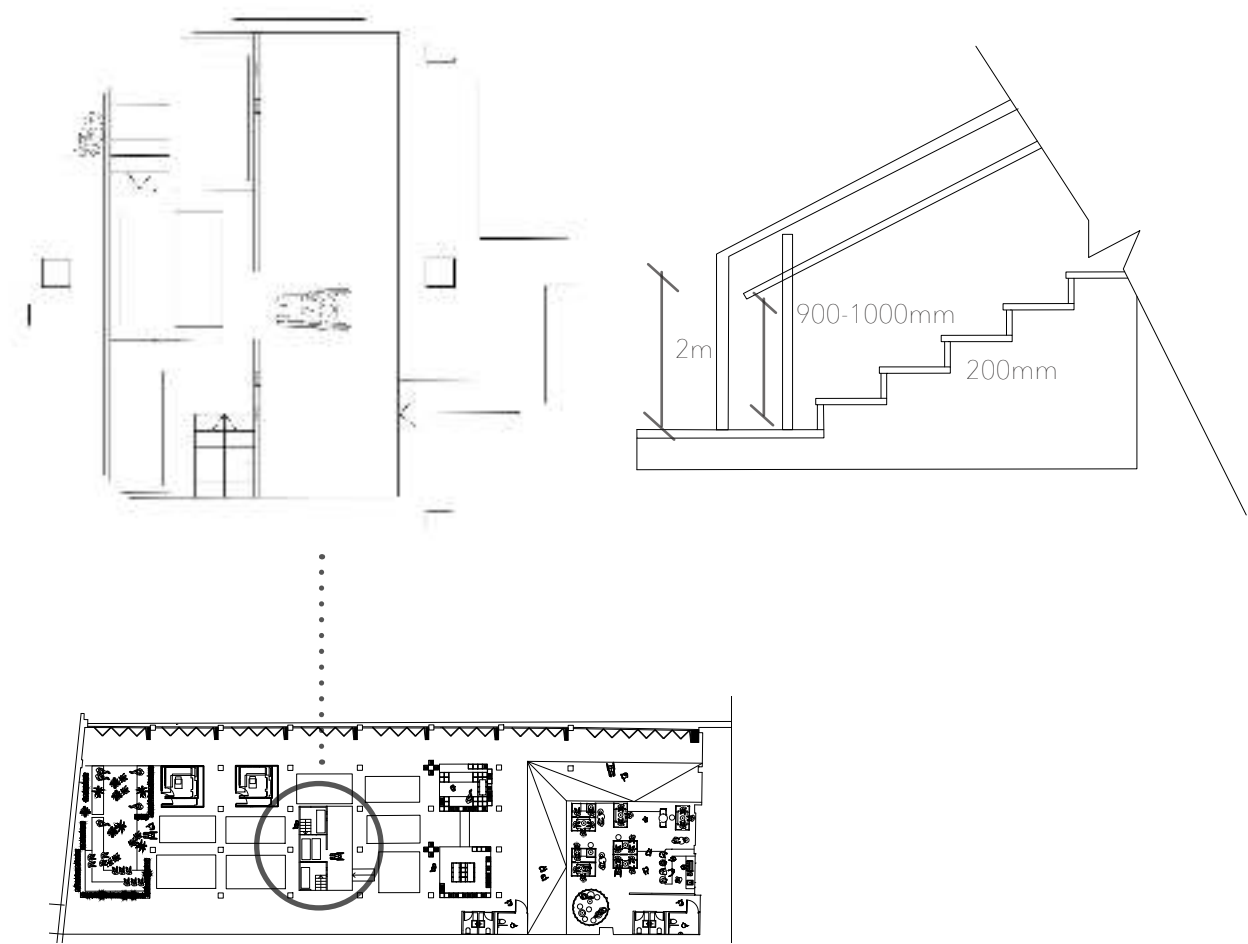
PART F - VENTILATION

There should be adequate means of ventilation provided for people in the building. As the proposed is opening the main wall of the building the ventilation is not needed in that space, and natural ventilation is possible through all the open doors in the building, as they can be opened. Mechanical ventilation is proposed in enclosed spaces like the toilets and the cubes.

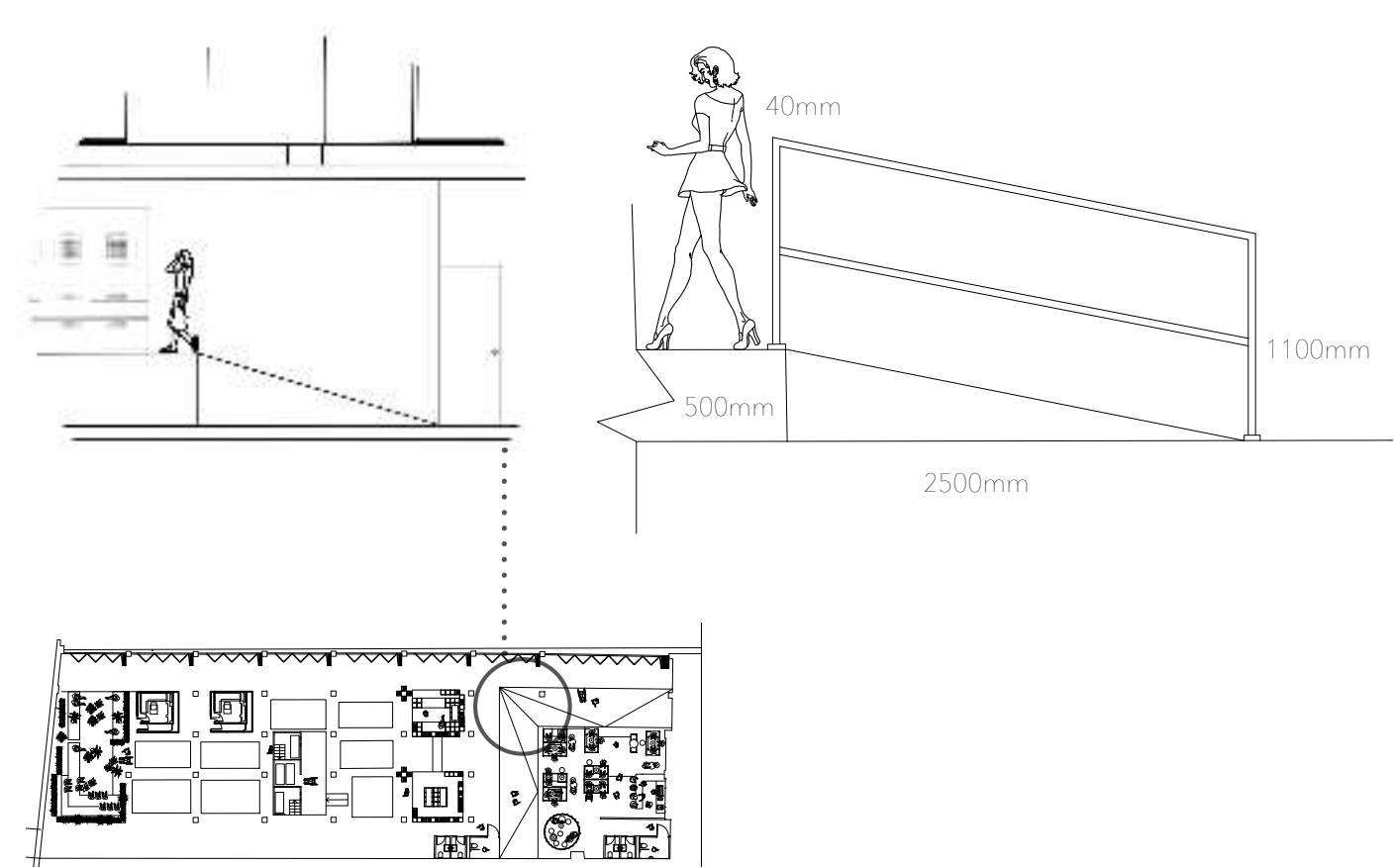


PART K - PROTECTION FROM FALLING, COLLISIONS AND IMPACT

There is one proposed staircase within the building and it located at the Relaxation cube. It is important to have the staircases with handrails and balustrades in order to avoid unnecessary injuries. The balustrade is 1100mm height and has spacing 246mm, as the maximum requirement is 300mm for children under 5 being able to use the relaxation cube. Rising of each step is 181mm and run is 259mm to minimums of 150mmx250mm. The height of steps is calculated depending on the total rise of the staircase and length which is 5 stairs that reach to height od 1m. The proposed staircases have at a minimum of 2000mm head room while using the staircases.

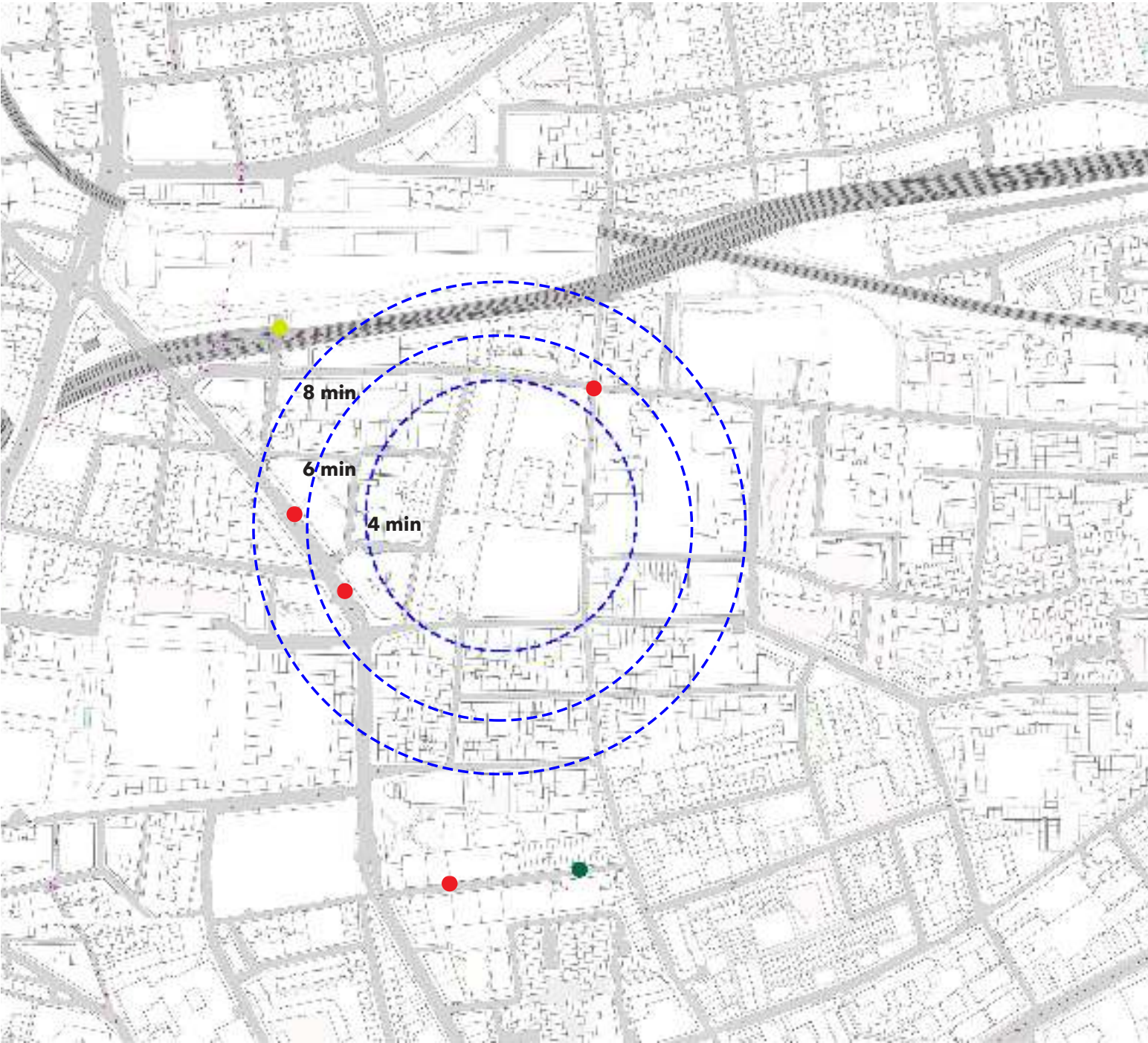


The proposed ramp is designed in order to get access to the cafe area. It is 500m ramp in total. It is easily accessible also for a wheelchair, using a balustrade.



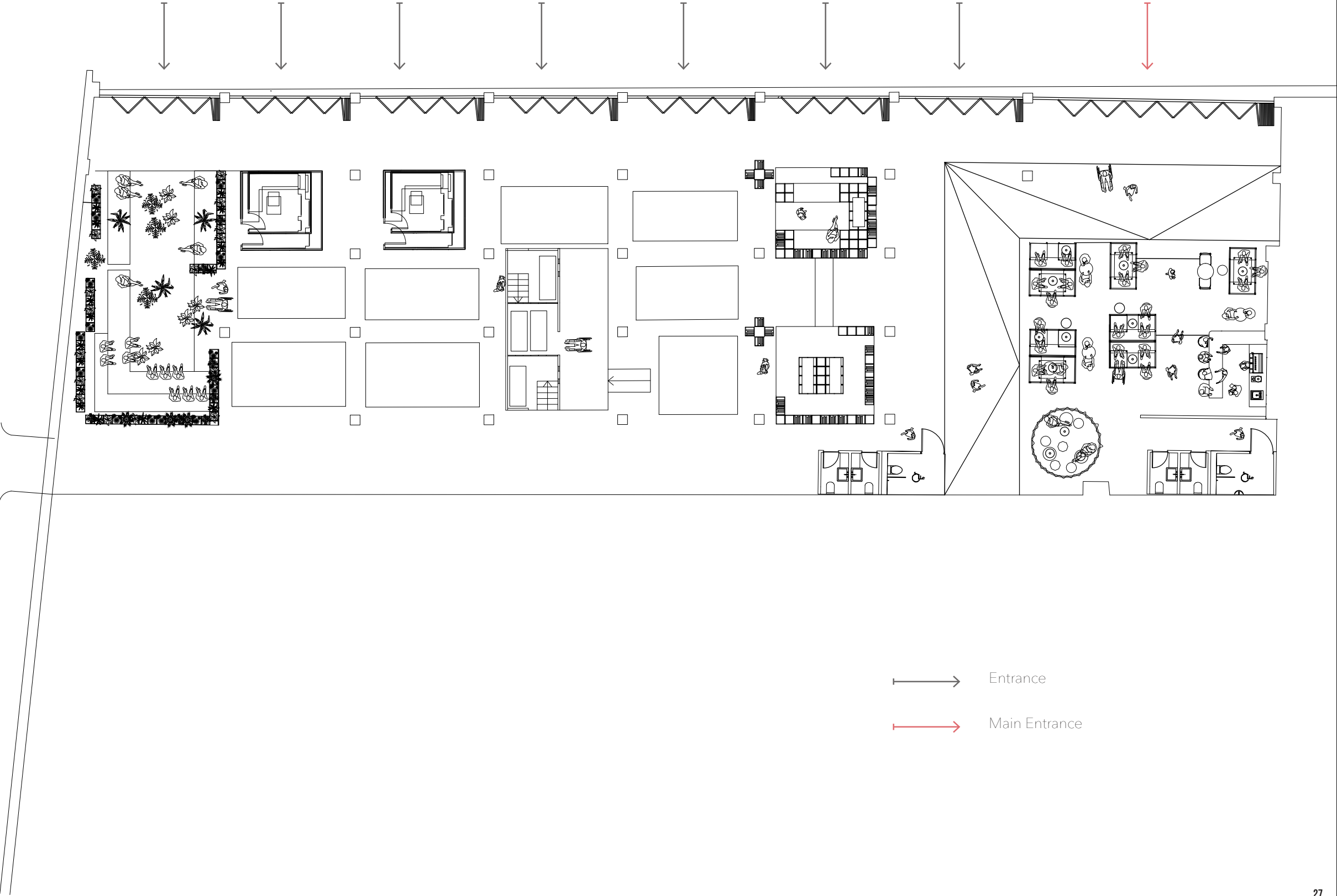
PART M - ACCESS TO & USE OF BUILDINGS

The Old Truman Brewery building is easily accessible: it is a walking distance from either Shoreditch High Street Station (7 min), Aldgate East Station (8 min), as well as several bus stops within the building area.



- Walking Distance
- Bus Station
- Aldgate East Tube Station
- Shoreditch High Street Station

There are eight sliding doors in total when the main and the biggest door is 10961m and located at the east corner of Dray Walk and lead to the entrance and cafe area. The rest are 5564m each. I kept the doors within the original existing structure, and between the columns. The two corridors (in front of the entrance and in the back wall) have been designed to be 1200mm (minimum in building regulations for access) the width or wider. The doors of each cube are 800-1600mm



FUNDING AND PROCUREMENT ISSUE

As described during the diary and the studio project, anxiety as the core theme and music therapy as a key design for The Old Truman Brewery has been explained in detail in the report. The main users of the building are expected to be a variety of groups in different ages: from activities for young children between the age 10-17 and many activities for adults from the age of 18+. The users are people who suffer from anxiety and the wider impacts of it and for their friends and families. Although space is located in Tower Hamlets, it is expected to be in use by people from different boroughs as well.

The fundings should come from a wide range of supporters: first, by the Tower Hamlets Council, secondly, by the NHS - as for an act of support for institutions that provide mental support solutions. Thirdly, by the private sector and the clients - all incomes (entry will be charged and from the cafe) will be used for the venue, and finally, from donates that will be made by organising festivals, food markets in Brick Lane or directly to the venue website.

External consultants and specialists would be needed for example: for the evaluation of the ground floor ventilation and other services, to ensure that it is going to sufficient and according to regulations. The proposed building also has many concrete columns, that could be done with concrete specialists to find the most suitable one for the purpose.

HEALTH AND SAFETY LEGISLATION

The proposed building is a public community centre, there have been many risks to consider when designing the spaces around the proposal and the cubes in particular. It has been made sure by following building regulations Part K that all staircase and ramps handrails are sufficient to prevent falling. Also, it has been made sure by following building regulations Part E - Resistance to sound, as space is based on music related activities, to have the right protection and sound isolating within the cubes.

As space can be open in the summer, in the winter extreme cold weather conditions will effect it, and wouldn't allow it to remain open, and then heating will be needed. In extreme safety issues such as overcrowded or terror attack, the door can be open within seconds and allow a quick escape of the users.

All the cubes are located on the ground floor and have easy access for people with physical disabilities, except the library which is higher than the ground floor but has a ramp and stairs. In order to fix any problem in structure or electricity, workers will need to wear protective equipment such as vest and helmet.

3.0 ENVIRONMENT AND SUSTAINABILITY

The proposed music centre is promoting the advantage of music therapy activities while considering the benefits of using eco materials and the aim of minimising waste in the space in all aspects: heat - will be on during the winter months only, light - as the venue will be open during the daytime most of the time (10:00 - 19:00 except special occasions when the venue will be open for evening events) - sensor will monitor the amount of light in the space and will turn it on when need and power in the 3400m height on the floor. To minimise the embodied energy of the construction of the workshops, the materials are transported from the UK and constructed on the site. The services in each cube are connecting to the main power room of the building.

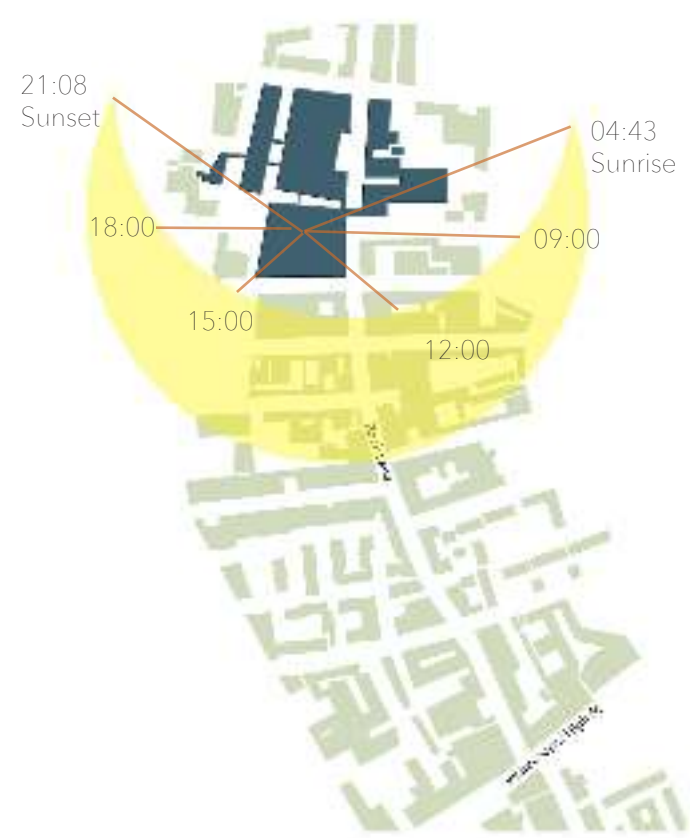
The cafe will follow a set menu and will be aiming to use the waste food as a fertiliser for the garden.

SUN PATH DIAGRAM

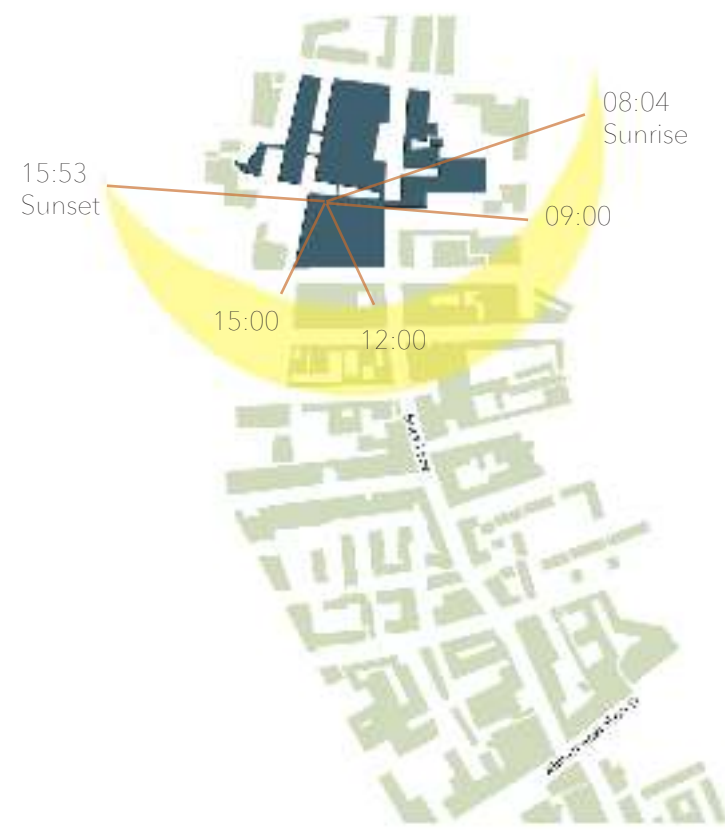
Sun path diagrams can tell a lot about how the sun will impact the site and building throughout the year and will provide an understanding of how lighting will affect the building.

The Old Truman Brewery, F Block, is North oriented. Although the facade won't get sunlight during the winter time, it will enjoy a lot of natural light during the spring and the summer. In days when the sun is very high, it will shine on the building east side between approximately 06:00 to 13:00 and on the west side of the building in the afternoon and before sunset.

Beside the natural light, the proposed floor will have artificial lighting, in the cafe, garden, cubes and halls.



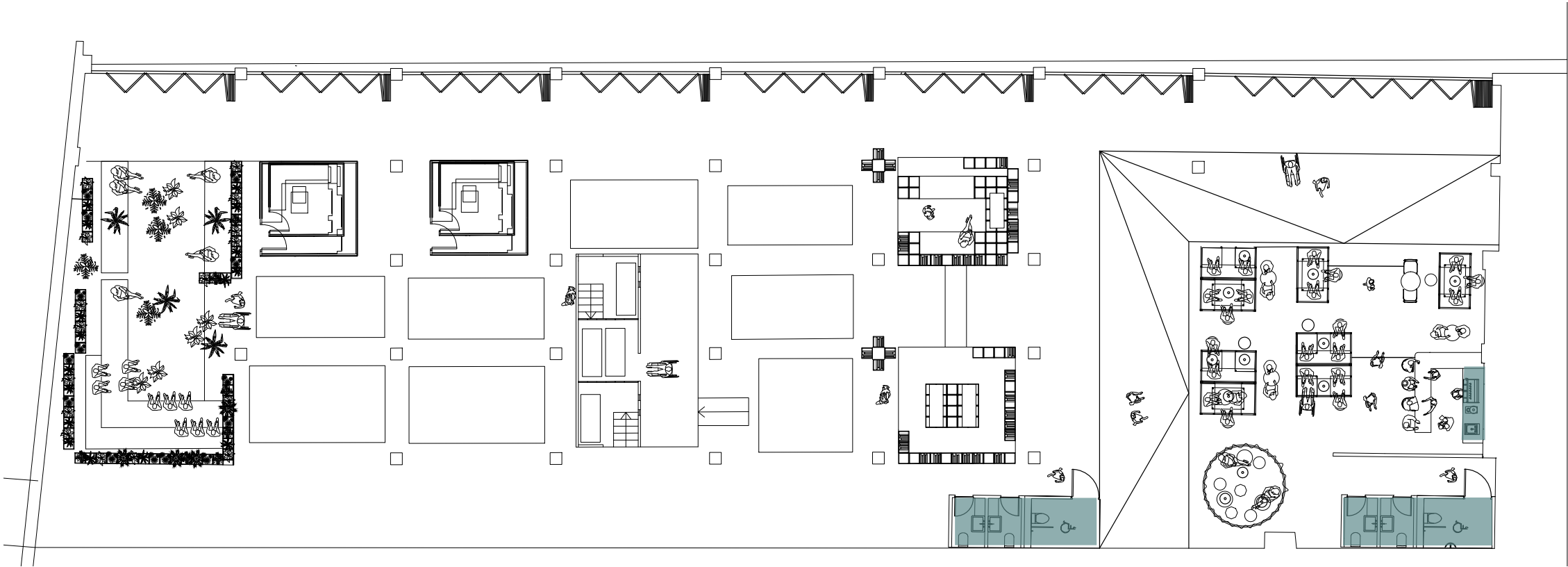
JUNE



DECEMBER

SERVICES: WATER

The site already has access to a water supply, whether the supply is metered and the contract value of the building work. The proposed cafe with the kitchen and its toilets are located on the South-East corner, and not far from there also the main area toilets.

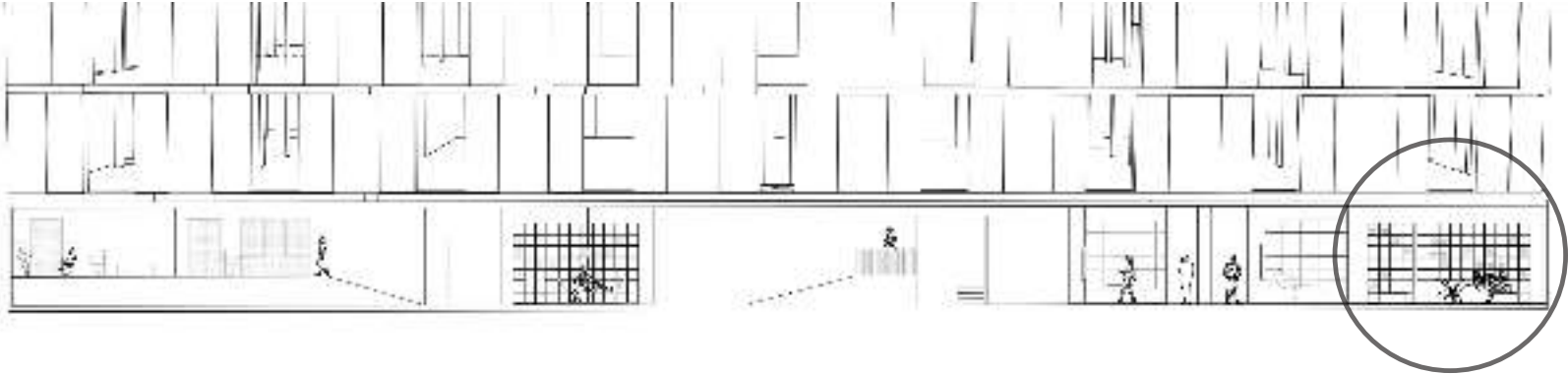
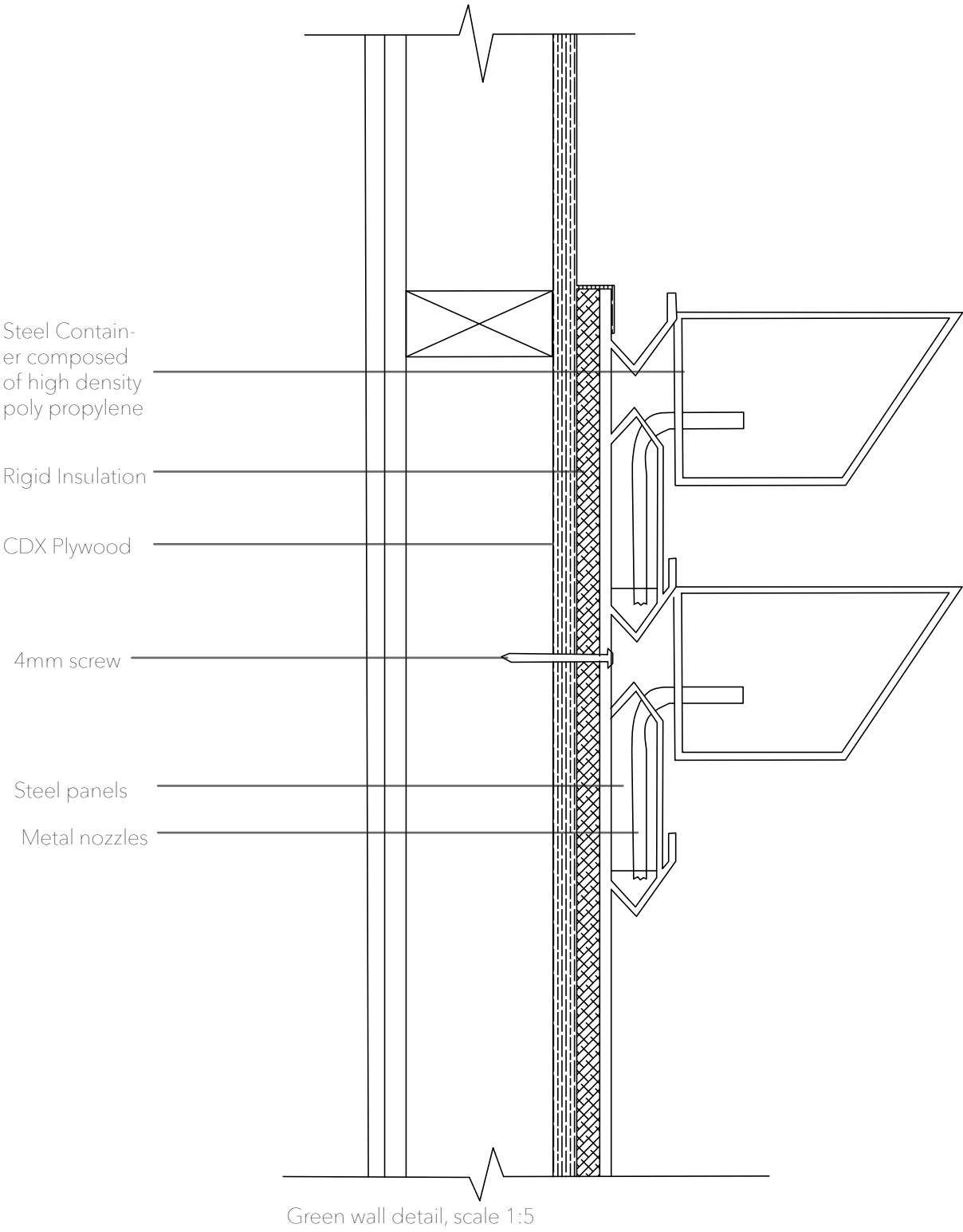


4.0 CONSTRUCTION, MATERIALS AND SPECIFICATION

The proposed Anxiety relief centre is aiming to help people with anxiety in all ages and to their families to get well and over anxiety through a variety of music-related activities and following the method of music therapy, such as singing, dancing, meditating, writing and more. Most of the ground floor space isn't going through major changes, and the proposed floor is designed within the existing columns grid. The columns are made of reinforced steel frame structure and concrete, and they are supporting the upper floors of F block of the building and the roof.

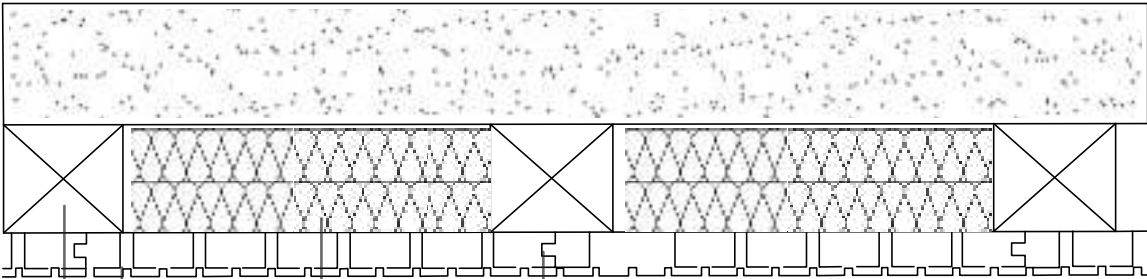
The idea of designing cubes as a key element in the design proposal comes as a metaphor to one of the side effects that people who suffer from anxiety might have and it is claustrophobia, but also in order to create a micro space and to deliver the feeling of a safe personal space for the people that use it. Each cube is constructed differently, depends on the activity and a number of its users. The cubes are made of timber and MDF that are treated with fireproofing coat. The choice of use in light and sustainable materials such as timber and MDF allow transferring the cubes outside the building as part of its purpose to serve people outside the building as well. The garden is made of steel structure combined with timber benches, treated with fireproofing coat. The cafe is located within the existing brick walls on the South-East corner of the space.

DETAIL 01: GREEN WALL STRUCTURE



DETAIL 02: MOBILE CUBE EXAMPLE

acoustic wall + panel detail, scale 1:5

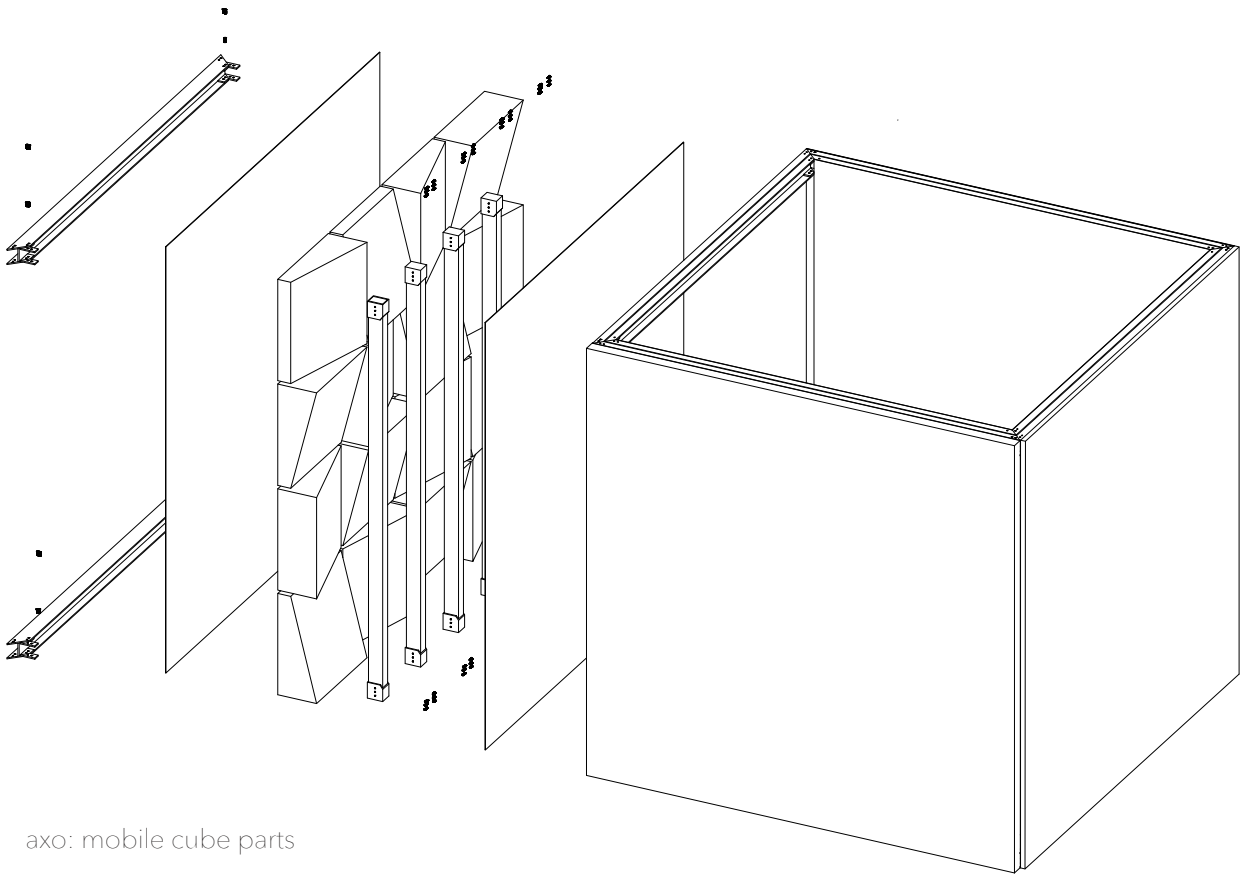


Linear panel

Glued and pinned in groove to batten to create a secret fixing

Acoustic insulation 50mm

Batten 70mm fixed to wall



axo: mobile cube parts

