Rebirth in mycelium.

Olivia Culley • 19037495 • Interior Architecture and Design • 6CTA1101-0905-2022



design report.

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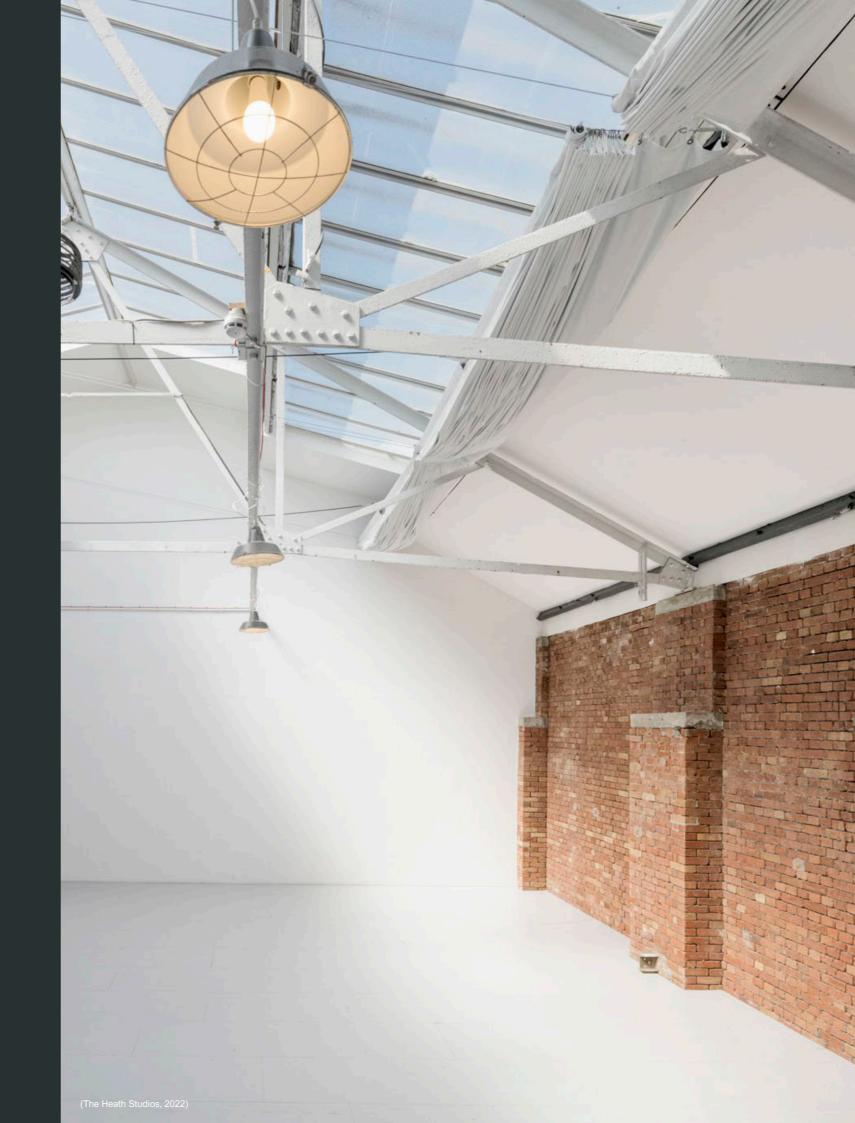
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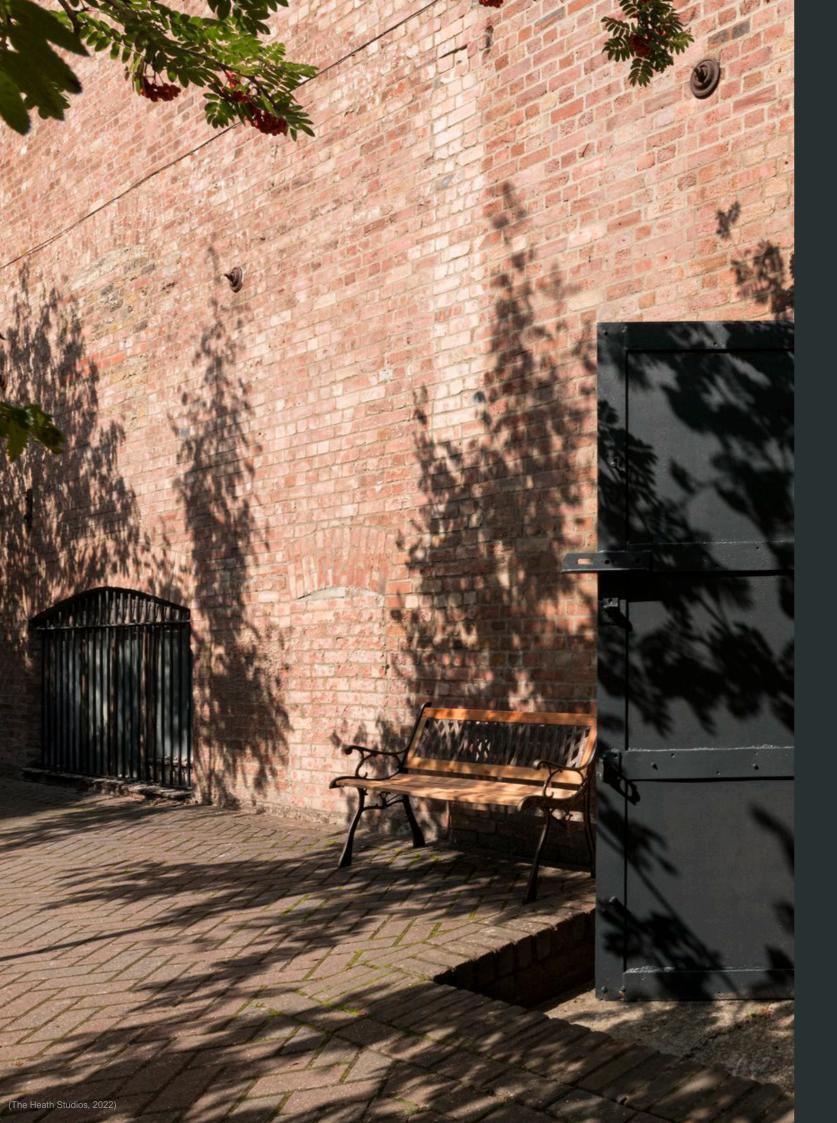


schedule of work

Project: Rebirth in Mycelium

Address: The Forge, Ironworks, 58 Dace Road, London, E3 2NX Designer: Olivia Culley Date: 16th January 2023

- I																																	
Task	Month Day	OCT 3	10	17	24	31	NOV 7	14	21	28	DEC 5	12	19	26	JAN 2	9	16	23	30	FEB 6	13	20	27	MAR 6	13	20	27	APR 3	10	17	24	1 MAY	8
	Day	3	10	17	24	51	,	14	21	20	5	12	19	20	2	3	10	23	30	0	15	20	27	0	1.5	20	21	3	10	17	24	1	5
Feasibility Study																																	
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Research - Existing materials																																	
Research - Issues and potentials																																	
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Project Brief - Zoning									_																								
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Design - Concept Design - Concept Model																																	
Design - Moodboard																																	
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Submission - Feasibility Report																																	
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Technical - Site Plan																																	
Technical - Floor Plans																																	
Technical - Close up of relevant areas																																	
Technical - Ground floor and surrounding area			_																			_											
Technical - Proposed Layout Plan																					_												
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Technical - Construction Details																									-								
Technical - Floor Finishes Plan																																	
Technical - Close ups of relevant floors Technical - Furniture Plan																										-							
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Technical - Door Schedule																																	
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Design Report																																	
Design - Statement																																	
Design - Concept Development			_																														
Design - Strategies Development																																	
Design- Development drawings																																	
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Design - Cost Estimation																																	
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Final Crit																																	
Submission - Model																																	
Submission - 2x A0 Posters Submission - Weekly Journal																																	
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Submission - Design Report																																	
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project brief

Project Brief Client Brief Justification Design Statement



the mycologist.

project brief.

mycelium furniture showroom

mycelium production facility

mycelium product design

mushroom restaurant

client brief.



The Mycologist will house a fully circular mycelium production facility. From start to finish, the building will facilitate the growth of mushrooms, the production of mycelium, the design and manufacture of mycelium furniture and building materials, always considering the reuse of offset materials.

These materials may be heat left over from the mycelium drying process, that will be reused to heat the building as well as an on site glasshouse, where mushrooms will be grown.

They may be mushroom cups left over from the mycology process, that will be served in Portobello's, the on site restaurant who's purpose is to prevent waste and make the most of the mushrooms that are grown in the glasshouse.

The strategy is to provide the local community and building companies with sustainable mycelium products through a sustainable mycelium facility.

Vitra is a Swiss family-owned furniture manufacturing company, operating since 1950, who work with designers and architects to produce outstanding original furniture.

They are dedicated to improving the quality of homes, offices and public spaces through the power of design. Vitra believes in the longevity of its products, and that their designs should "forgo stylistic trends and eliminate superfluous details" (Vitra, 2022)

Vitra is looking for a new innovative furniture and building materials showroom and production facility focussed on mycelium. By gently renovating the existing building and enhancing historic details whilst adding modern interventions, a link is created between old and new. Emphasis will be put on the sustainability of both the product and the building, The Mycologist.

justification.

1990 —	The launch of BREEAM, the worlds lo of assessing, rating and certifying th construction
2006 —	Gordon Brown announces new polic The code for sustainable homes is in performance of new homes across th
2008 —	The Climate Change Act is introduce 1990 levels by 2050. English and Welsh councils are required requires new developments to gener
2010 —	The renewables feed-in tariff was intr landlords can fund the installation of
2019 —	The UK must bring emissions down
2021 —	The Future Homes Standard is introc lower carbon emissions. Existing hor and must meet a list of requirements
	UKGBC, UK Green Building Council,

, launches a Net Zero Whole Life Carbon Roadmap, a common goal and agreed actions for achieving net zero carbon in the construction, operation and demolition of buildings and infrastructure in the UK.

why build a mycelium production facility and showroom?

- More and more laws and regulations are being implemented into the UK's government relating to sustainable building. Recently, the COP26 took place hosted by the UK, for the UN to discuss tackling climate change.
- The building industry accounts for 25% of CO2 emissions in the UK, as well as creating 137.8 million tonnes of C&D waste in 2018.
- Therefore, construction and design companies and their clients are increasingly interested in making their designs as environmentally friendly as possible, helping achieve standards, protect the environment and save on running costs.
- By creating an accessible and affordable way to meet these standards and implement sustainable materials into both residential and commercial buildings, the UK's construction industry will have an easy way to make their buildings more environmentally friendly.

longest established method he sustainability of a buildings

cy for all new homes to be zero carbon by 2016. introduced, and so standards were raised for the the nine areas of sustainability.

ed, the first requirement to cut emissions to 80% of

uired to follow the Merton rule: a planning policy that erate at least 10% of their energy on site.

troduced by the new coalition government, so solar panels on tenants roofs.

to net zero by 2050

duced. New homes by 2025 will produce 75-80% omes are to be made highly energy efficient by 2025, s.

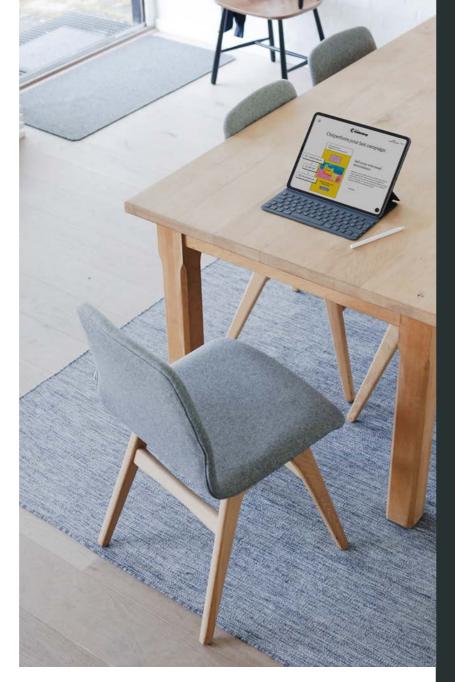
design statement.

Our goal is to provide a one-stop-shop for individuals and businesses to purchase and implement fully circular sustainable materials into their properties easily and affordably.

By fostering a culture of sustainability in the building industry, we can work towards a more sustainable future. One key element of this design is the incorporation of mycelium as a base material. Mycelium, the vegetative part of a fungus, is a highly sustainable and renewable resource that can be used to create a wide range of building materials, furniture and finishes.

By utilizing mycelium, we aim to create a fully circular product, meaning that the materials used can be easily recycled and re-purposed at the end of their life cycle.

This project aims to not only create a visually appealing design that showcases the benefits of using mycelium as a building material, its application in the interior and the reduction of waste products but also to promote and encourage sustainable practices in the building industry.



"waste isn't waste until you waste it"

REBIRTH

site analysis.

Site Information Site Location Environmental Analysis Existing Building



site information.

Tower Hamlets

The Forge is situated in the north east region of Tower Hamlets. It sits between Victoria Park and the Olympic park, making it a central and easily accessible location.

Fish

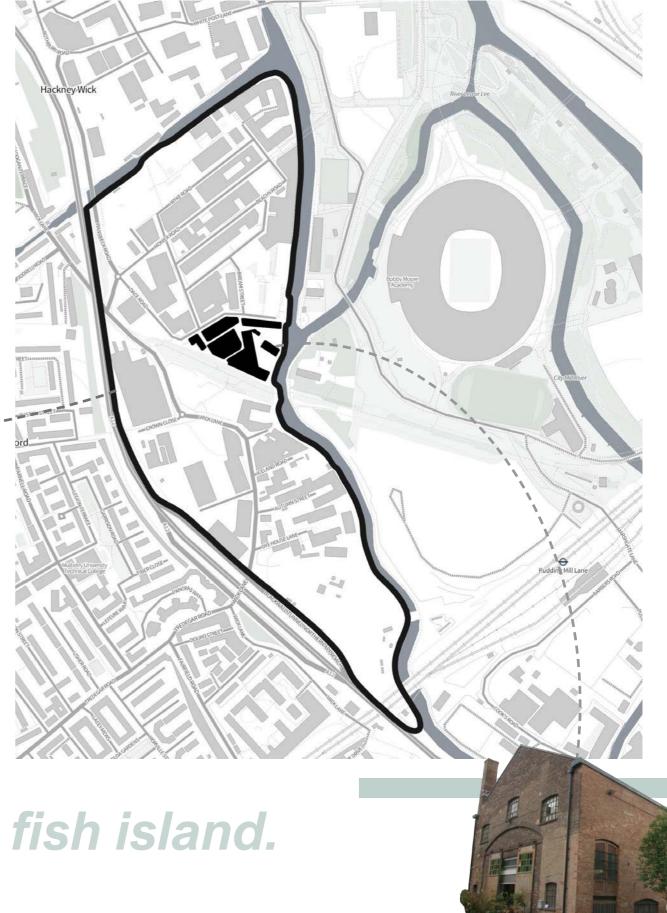
Fish Island

The Forge is in Fish Island, Bow East, an area known for its strong industrial buildings and commercial past. Stratford is just a mile away, attracting over 100,000 visitors a year for shopping and retail.

"From working class industrial transport hub to retail and leisure destination"

about the area.

Fish Island is located in the London Borough of Tower Hamlets. It is situated on the Lea River, east of Hackney Wick and south of the River Lea. The area has a strong history as a centre for industrial production, in the manufacturing of textiles and clothing. In recent years, Fish Island has undergone significant redevelopment, with a focus on creating a vibrant community of artists, designers, and small businesses. The area now features a mix of warehouses, factories, and other industrial buildings that have been converted into studios, galleries, and live-work spaces. The area is known for its proximity to the Olympic Park and its cultural heritage, as well as a number of green spaces and river walks in the area.



site location.





the forge. Ironworks, 58 Dace Road, London, E3

The Forge is an early 20th century industrial building part of the former Crown Wharf. It sits on the bank of the River Lea, South of the Old Ford Lock at the junction of Hertford Union Canal on Fish Island.

Area: 955 sqm

4 storeys

environmental analysis.







Building use and facilities.

- Education and sport buildings
- Restaurants, bars and cafés
- Residential
- Businesses
- Industrial buildings and warehouses

This map shows that the area surrounding The Forge is mainly of residential and commercial use, with a high density of apartment buildings and businesses. There are also a fair amount of industrial buildings and warehouses, of which the area is known for.

To the east of The Forge there is an increasing amount of sports facilities in the Olympic Park.

It was important to analyse the buildings surrounding The Forge, as the type of housing determines what product would appeal to each housing type. 19% of housing is owned so a mycelium extension appeals. 81% is rented so mycelium furniture is more appealing.

Analysis of businesses nearby can indicate how popular The Mycologist would be and what competition it may face.

Orientation.



The Forge Roads Water Buildings

— Orientation The Forge faces north west with its outdoor space facing south allowing good sunlight during the day to the south west facing facade.

The orientation of the building proved important in the feasibility study, because of the south facing outdoor area, this was an ideal place for the glasshouse as it gets optimal sunlight.

existing layout plans.

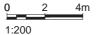
GROUND FLOOR EXISTING PLAN

2 4m

0 1:200

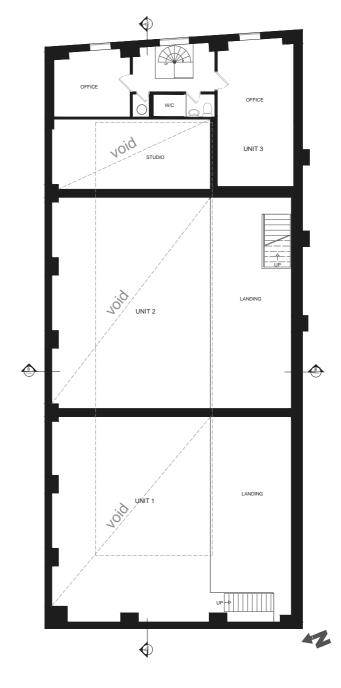


FIRST FLOOR EXISTING PLAN



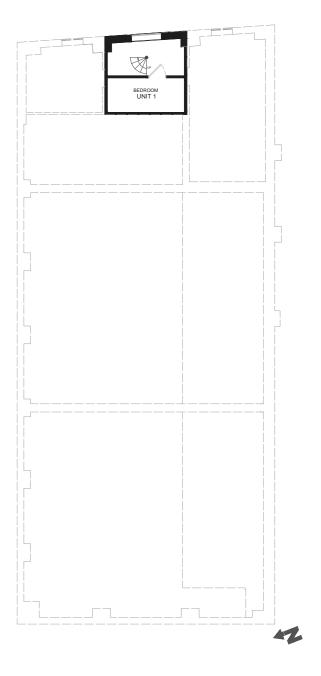


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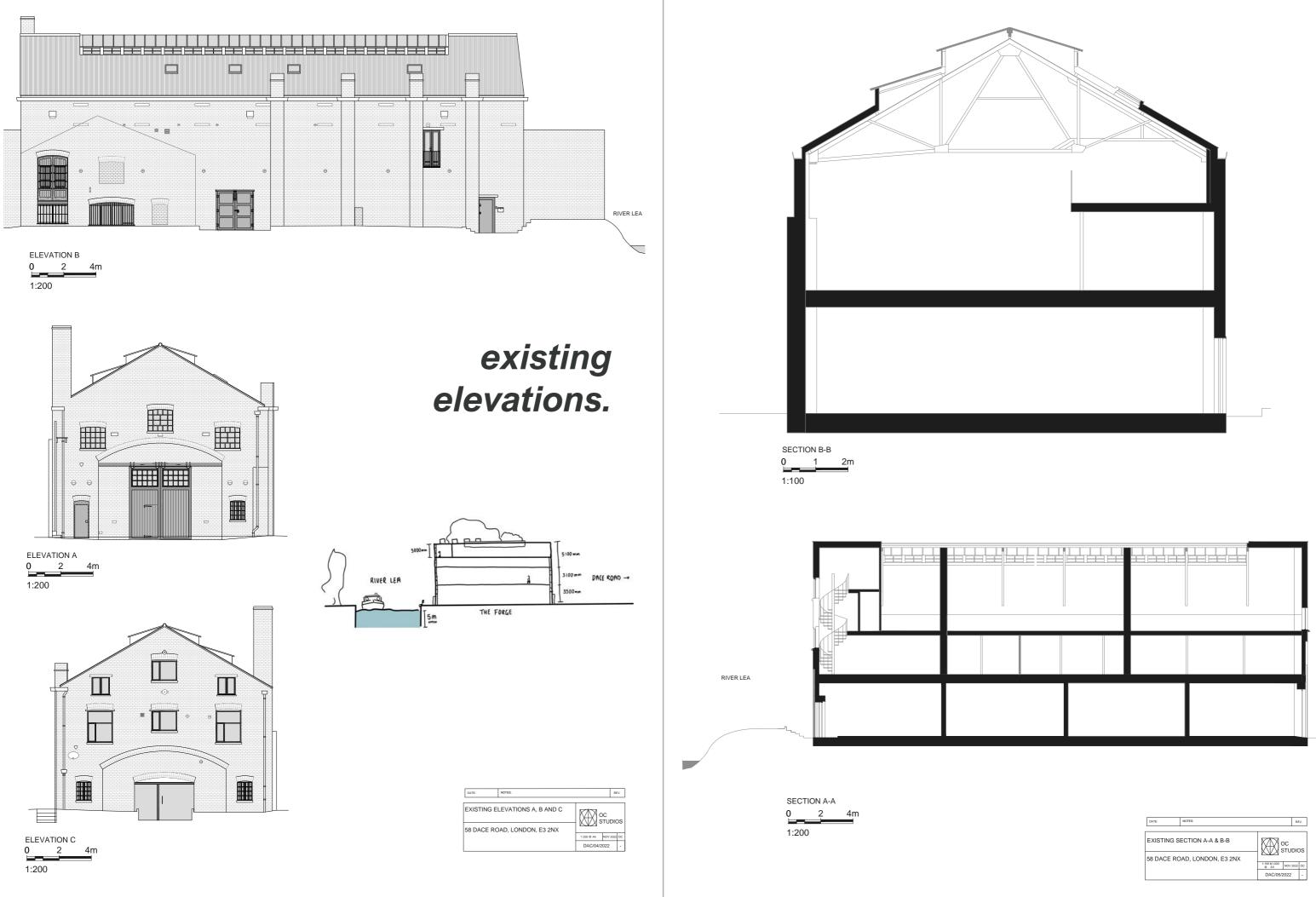






THIRD FLOOR EXISTING PLAN 0 2 4m 1:200

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		DAC/03/2	022	-



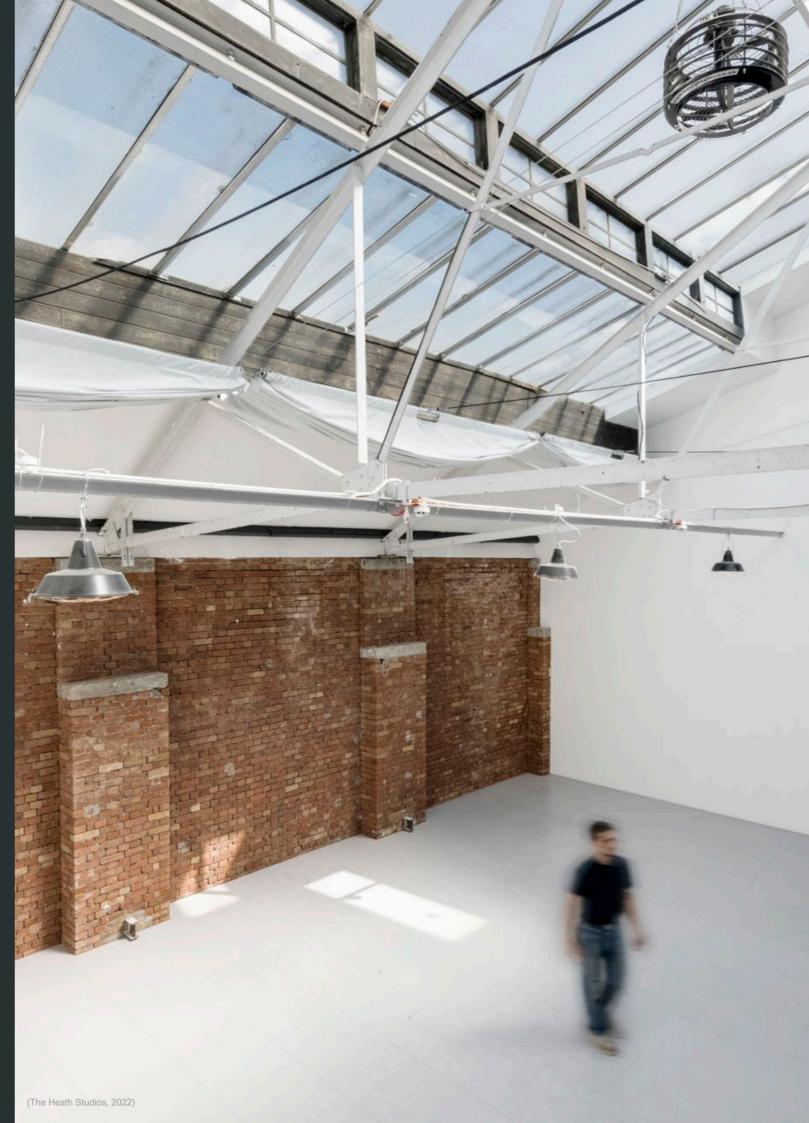
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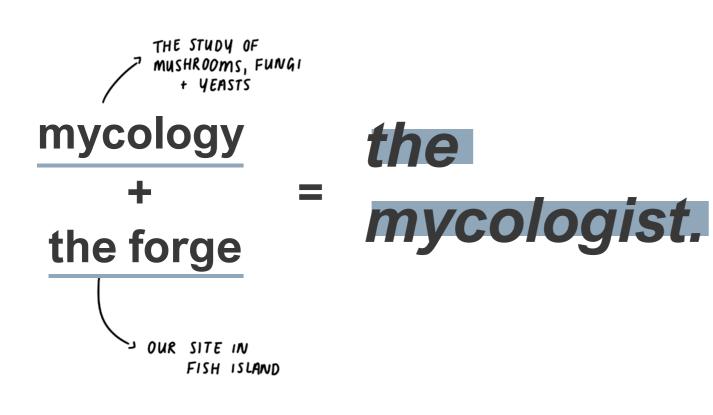
proposal.

Programme

Branding









experience.

Portobello's, an on site restaurant that uses the left over mushrooms from the mycelium growing process in dishes designed to reduce waste.

restaurant



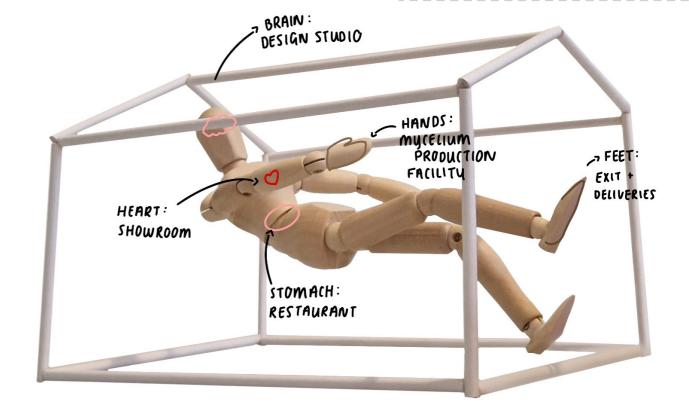
A warehouse and design facility focussed on producing sustainable mycelium based furniture, materials and architectural products.

proposed programme.



A glasshouse with the purpose of growing various types of mushroom and plant, to be used firstly in the production of mycelium, the bi-product of this process, the top of the mushroom, will be used in the on-site restaurant.





showroom

An area dedicated to showcasing the various products designed in-house for clients and customers to

objective diagram





branding





staff areas

Additional neon signs will be placed in staff areas and tea points to enhance overall atmosphere and boost company pride. Acting as a visual representation of the companies values, vision and mission.



THE MYCOLOGIST

logo

A simplistic white mushroom design has been designed for the logo of The Mycologist, it clearly represents the function and purpose of the building and is memorable as a logo. The logo will be applied around the building in the form of signs, as well as on the main southern facade as a white neon sign.

THE MYCOLOGIST

application

factory

Two neon mushroom signs will be located in customer view in the mycelium production factory to promote the brand alongside the products.



facade

The logo and name of the building, The Mycologist, will be present on the south facing facade in a prime location clearly visible from anyone approaching from the car park or opposite bank of the River Lea. This facilitates easy recognition of the building and will generate interest from potential customers.



design concept.

Initial Concept

Concept Development

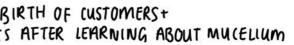
Final Concept

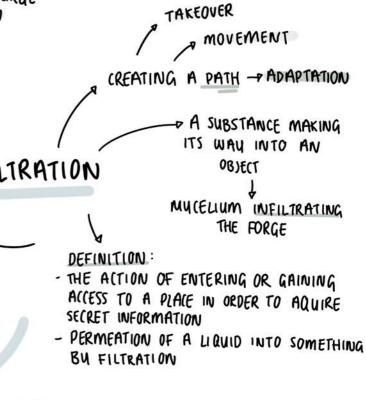
keywords

- Emerging
- Birth •
- Creation
- Juxtaposition
- Statement
- Growth
- Old to new
- Movement
- Takeover •
- Path •

MUCELIUM SPILLING ESCAPE LEAK OUT OF THE FORGE OVERFLOW	E
SPILLING DEFINITION - CAUSE OR ALLOW LIQUID TO FLOW OVER THE EDGE OF A CONTAINER	
INTERIOR - EXTERIOR	F
USE MY (ELIUM AS A ROUTE JUXTAPOSITION THROUGH THE FORGE	-
REBIRTH OF THE FORGE - BIRTHING NEW MATERIALS L NEW USE REBIRTH OF A NEW CLIENTS AT	
SUSTAINABLE BUILDING INDUSTRY	







Rebirth is a term that can be applied to multiple areas of the project; a birth of new materials, of customer and client thinking after experiencing these materials and of the building itself. Mycelium will be birthed from The Forge, both internally through the creation of products, and by a contemporary intervention of mycelium spilling from the fabric of the building. Juxtaposing 19th century industrial architecture with bio-architecture and natural forms.



definition



concept

This diagram represents the journey of mycelium seeping out of The Forge in relation to the concept, rebirth. This represents The Forge going through a period of renewal, a phoenix rising from the ashes. This means that it will keep in touch with its original character whilst embracing a new beginning.

The orange colour on this diagram seeping out of the windows represents new technology and materials being used inside The Forge that are spreading to the outside.

This metaphorical seeping of new material can manifest as a new mycelium extension or alteration to the exterior of the building.

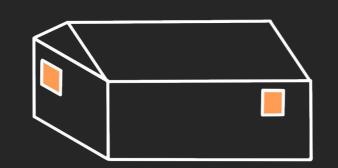
narrative

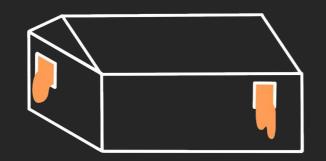
"represent rebirth through movement and create a clear journey of growth"

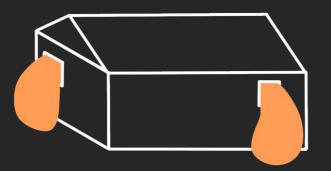
ideation

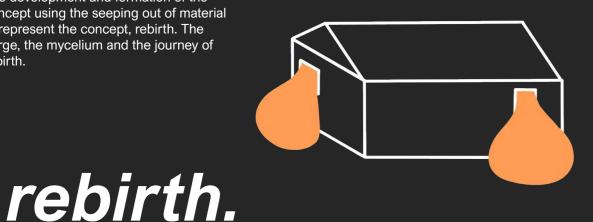
The development and formation of the concept using the seeping out of material to represent the concept, rebirth. The Forge, the mycelium and the journey of rebirth.

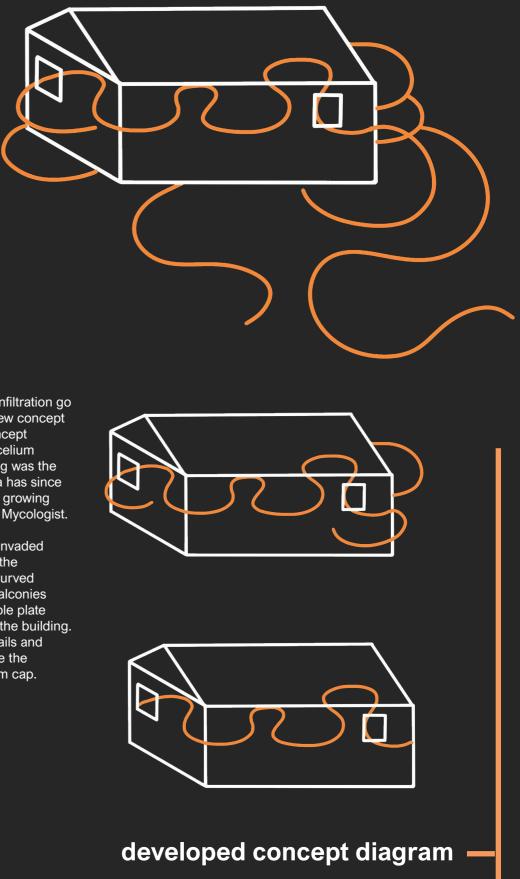
initial concept diagram









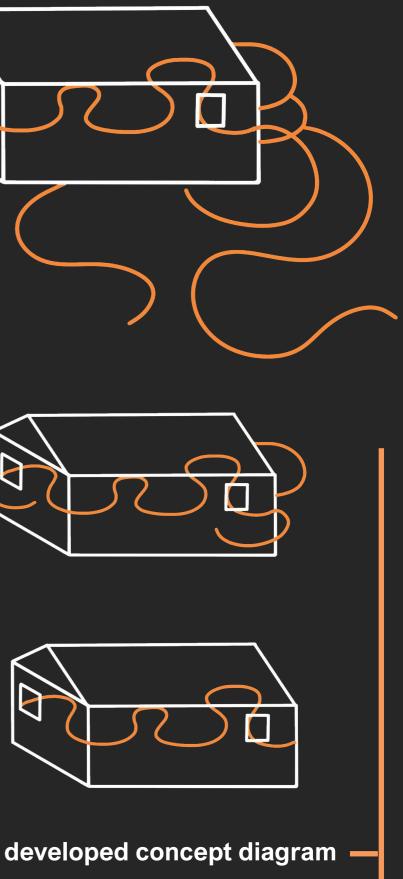


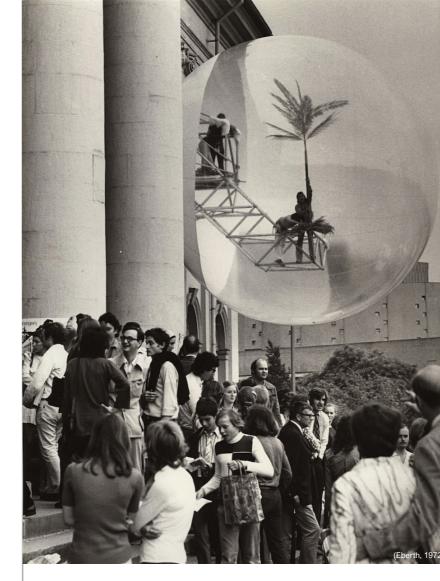
progression

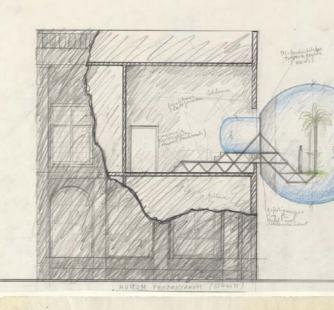
The idea of rebirth and infiltration go hand in hand with this new concept idea. In the previous concept diagram, the idea of mycelium spilling out of the building was the focus. However, this idea has since progressed to mycelium growing both into and out of The Mycologist.

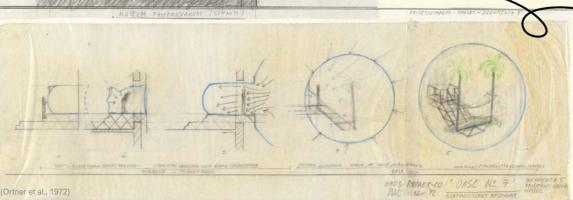
The structure has been invaded by mycelium, evident in the undulating garden and curved mezzanine floors. The balconies and glasshouses resemble plate mushrooms growing on the building. Inside, paper ceiling details and timber walls undulate like the underside of a mushroom cap.











precedent study: oase no. 7

about the project -

Parasite architecture is a unique approach to architecture which involves adding new structures to existing buildings without altering the 'host' building significantly. The new concept includes both infiltration and parasite interventions under the umbrella rebirth.

The Oase No.7 was a temporary installation designed by architect Haus-Rucker-Co between 1970 and 1972. It was comprised of a transparent sphere reaching 8m in diameter situated on the main facade of the Friedericianum Museum in Germany. It was conceived as "an emergency exit leading people into another realm" consisting of a metal frame structure and inflatable orb protruding from the building. It was to be an artificial oasis, containing a hammock, plastic palm trees and a flag, with the purpose of "questioning the artificial demarcation between natural and human-made environments".

This striking instillation juxtaposes the traditional architecture of the Friedricianum Museum and creates an eyecatching spectacle. Progression was made from the original Oase no.7 through other exhibitions, such as the one pictured below of "FAR" exhibition held during Milan design week. As this idea has progressed from the external spilling out to the internal infiltration as too will the concept in this Design Report.

specs

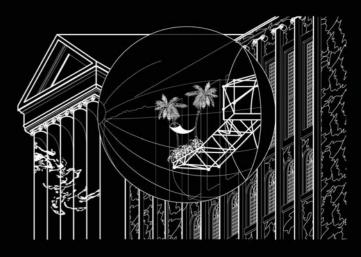
Size:

Client:

8m diameter Friedericianum Location: Kassel, Germany Haus-Rucker-Co Architect: 1972 Completion:

concept progression through infiltration





OASE Nr. 7, Haus-Rucker-Co, 1972

concept:

- The concept aims to represent the word rebirth through using parasitic architecture.

- The idea of mycelium infiltrating the building as well as spreading outwards will influence design choices.

- The theme of mushrooms will be present in both internal and external design.



original concept of spilling out

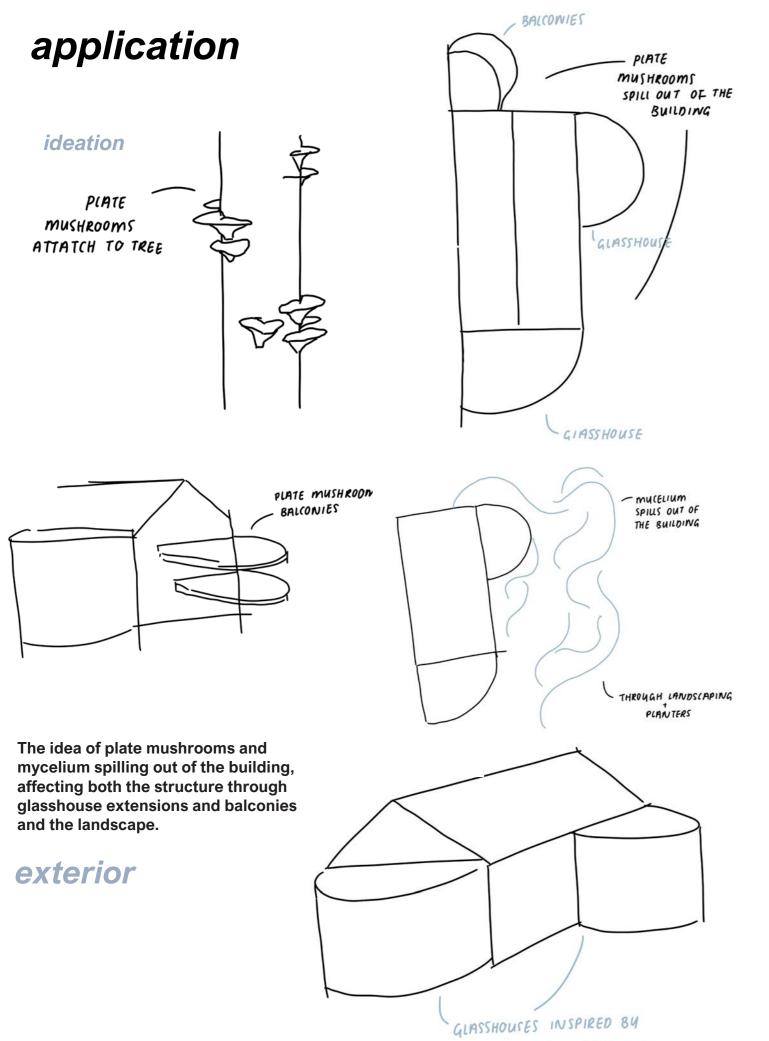
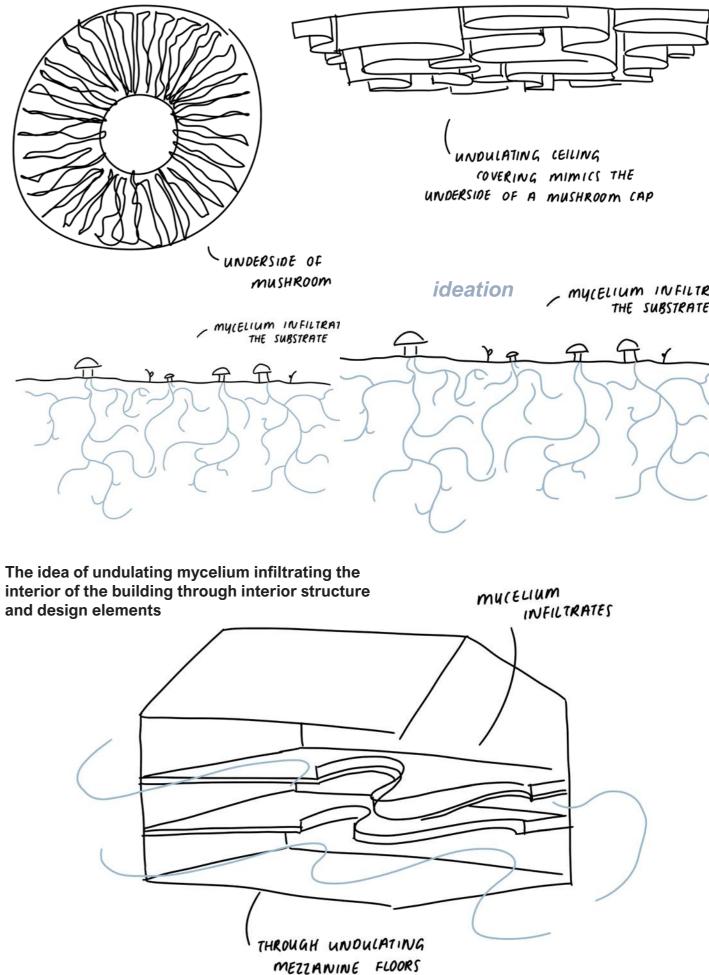


PLATE MUSHROOMS

interior



MYCELIUM INFILTRATES THE SUBSTRATE

design strategies.

Initial Strategy

Development

Final Strategy



mycelium intervention

A parasitic entity that is overflowing from The Forge that will translate into a physical structure, creating multiple mycelium interventions.

journey

A clear route through the building with access to different levels is an effective way to showcase various products and create a path through The Forge.

This will link external interventions, entrance, showroom, production facility, offices and exit.

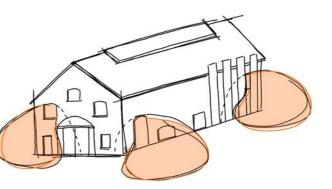
juxtaposition

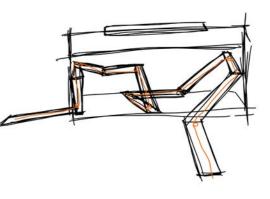
Juxtaposing the robust Victorian brick of The Forge with a new bio-material creates interest and questions of past and present and the fusing of new and old.

materials

To convey a clear sense of the concept, lighting, materials, colour and architectural features will be carefully considered to emphasise the concept.

initial strategies





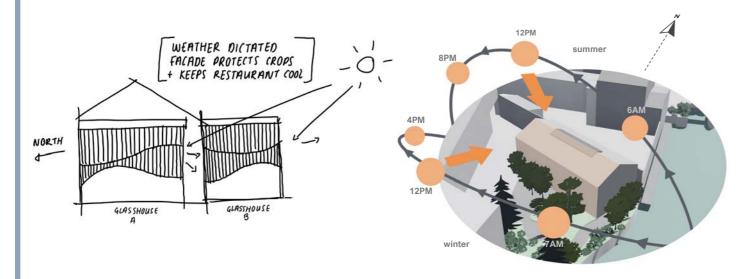




developed strategies

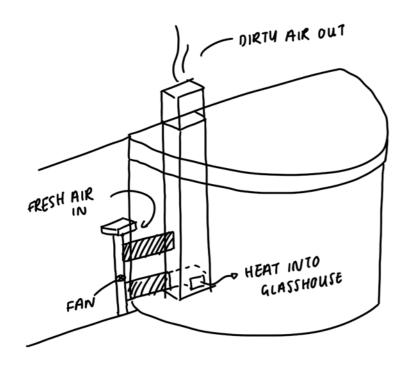
natural light

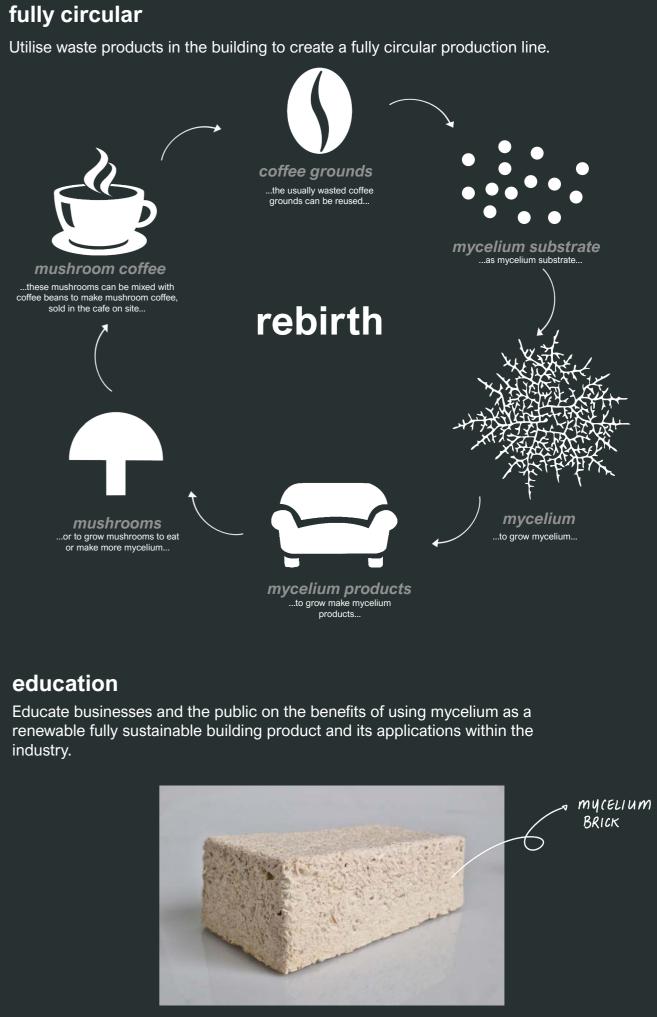
Harness natural light and utilise it in the glasshouses to be able to grow crops and mushrooms to be used in the on site restaurant Portobello's and as a way to produce more mycelium. A protective facade will be designed to prevent the scorching of these crops and to keep those in the restaurant glasshouse cool.



heat

Utilise wasted heat from the kilns, that are used to fire mycelium products, to heat the building and the glasshouses through use of heat exchangers.





design development.

Initial Design

Precedent Study

Progressed Design

Materials Progression

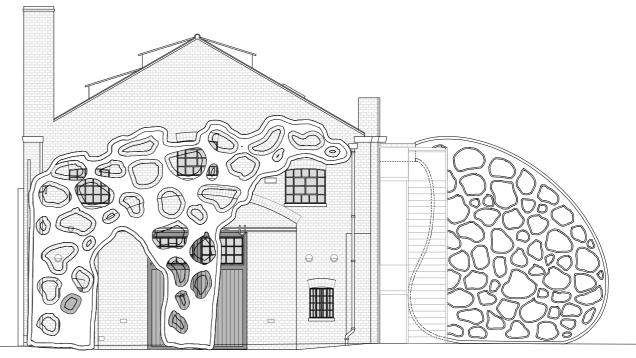
Space Planning

Look and Feel

Visitor Journey



initial design

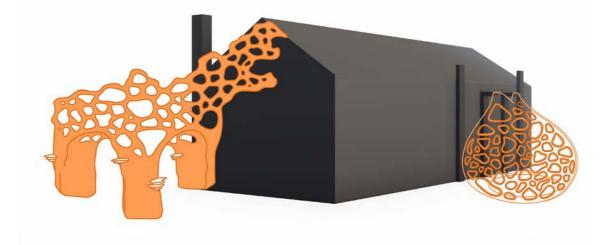


NOT TO SCALE

issues and potential

Issue: The fluidity of the mycelium extensions is limiting both structurally and functionally. Physically creating the shape out of extruded mycelium is possible, however applying mycelium in a different way would be more feasible.

Potential: Create mycelium extensions in a more structured way, incorporating the concept of rebirth through the infiltration of mycelium into and out of the building.



precedent study: the fosun foundation

about the project -

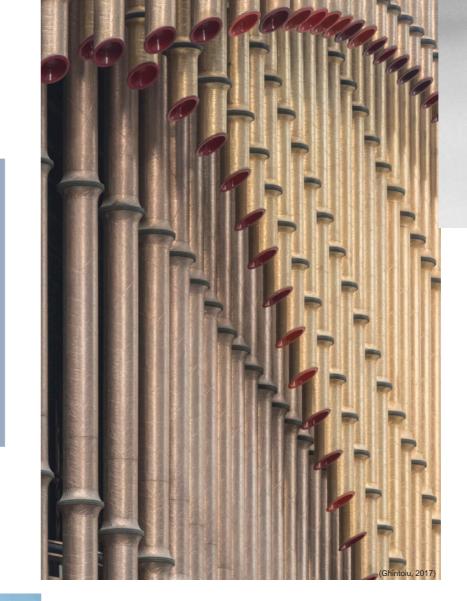
Designed by Foster + Partners along with Heatherwick Studios, The Fosun Foundation, located in Shanghai China is a cultural institution established by the Fosun Group. The building acts as a multinational conglomerate that operates in various industries such as finance, real estate and healthcare. It houses multiple exhibition spaces, a theatre, a rooftop terrace and a public plaza, though the unique and striking kinetic facade is the most distinctive feature of the building.

The facade is made up of curved, golden panels that were inspired by the shape of a bronze vessel from the Shang Dynasty, and the undulating shape is said to be inspired by draping fabric. The panels are made from perforated aluminium sheets that are moulded into shape, while the perforations in the panels are designed to control the amount of heat and light that enters the building.

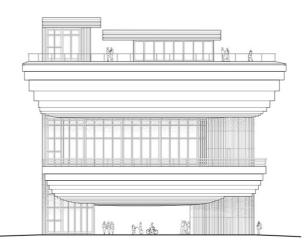
The design of the columns themselves have been designed to resemble bamboo stalks, another way traditional Chinese motifs have been materialised into a contemporary architecture style through this design. (Astbury, 2017)

specs

Size:	420,000 sqm
Client:	HNA Group
Location:	Shanghai, China
Architect:	Foster + Partners, Heatherwick Studio
Completion:	2017



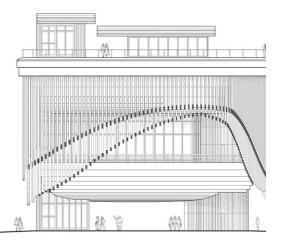




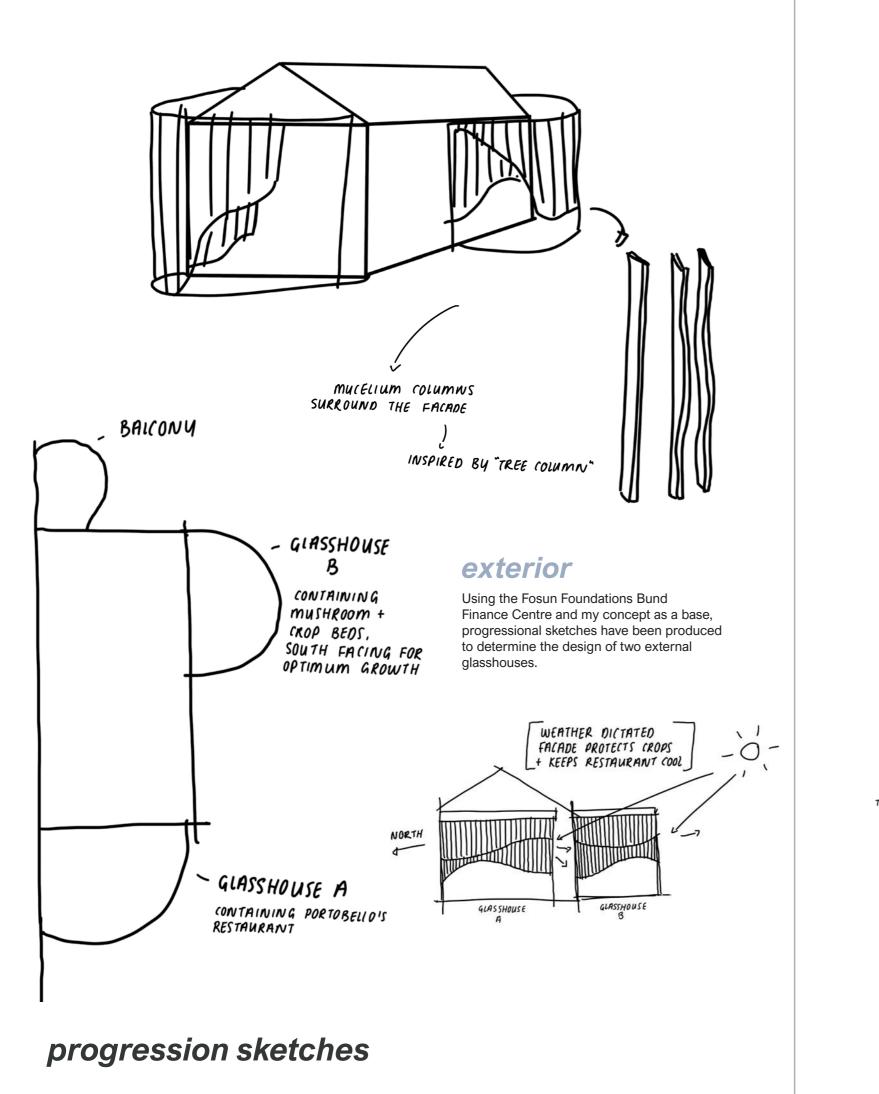
West Elevation - without veil

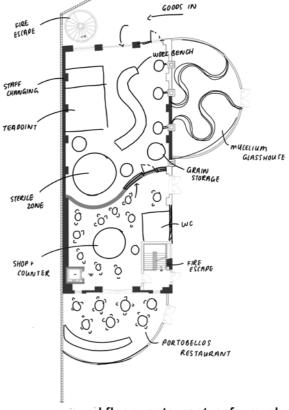


the fosun foundation
structure
Protects from the elements, has applications in ventilation and the control of sunlight
Juxtaposes the surrounding architecture with its golden facade
Kinetic, moves to create a captivating undulating effect and reveals different parts of the building at different times
A steel frame structure and track system have been used to hold the facade to the building and have it move slowly around the perimeter of the space.

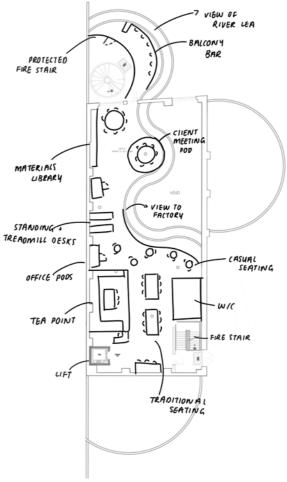


West Elevation - with veil

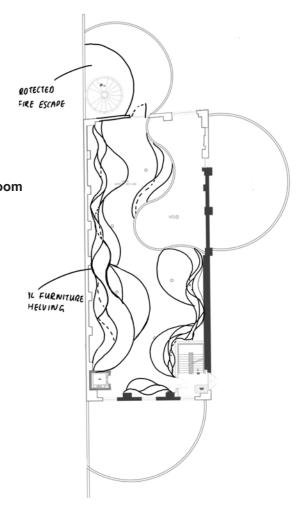




ground floor: restaurant, cafe, mushroom glasshouse and factory



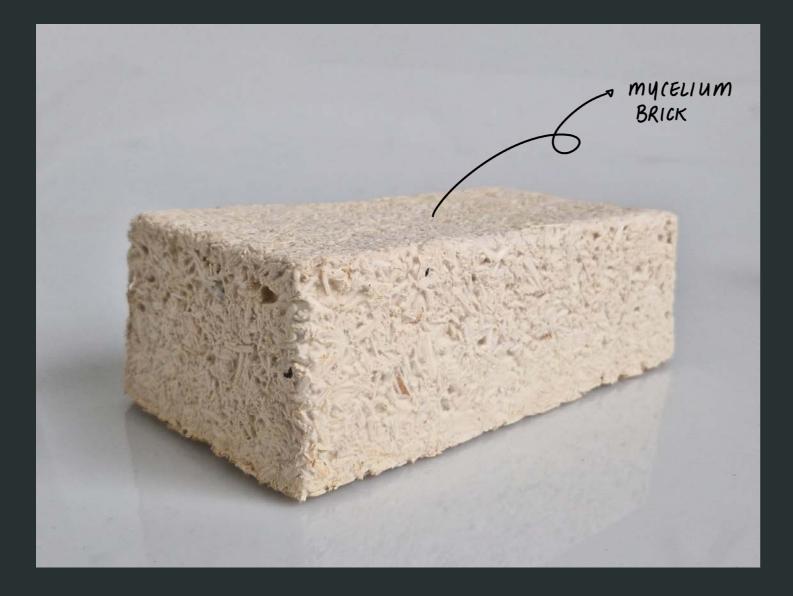
second floor: office and design area



first floor: mycelium furniture showroom

interior

Initial ideas for the interior incorporating the undulating mushroom theme explored in the concept.



In the feasibility study, an attempt was made at creating a mycelium block in order to test the durability, strength and ease of production of the material. However, unfortunately it grew mouldy. To progress this project, another successful attempt at growing mycelium was completed and a sample was grown to produce a brick using a kit from Urban Farm-it.

As explored through precedent studies in the feasibility and facade projects, the company Blast Studio creates Tree Columns from mycelium that are able to optimise mycelium growth through 3D printing an undulating substrate.

As illustrated in the drawings above, a weather dictated moving mycelium facade will be constructed from mycelium columns inspired by the Tree Column project. These columns will move around the glasshouse facade and protect the crops inside from scorching, and prevent customers in Portobello's glasshouse from getting too hot.

The end product of this experiment was a strong but lightweight, sustainable, weatherproof and biodegradable brick, whose strength can be adapted by compacting more substrate.

materials progression





INCUBATION BOX+ BAG OF SUBSTRATE

GRAIN, COFFEE GROUNDS OR AGRICULTURAL WASTE



- POUR 3L OF BOILING WATER TO STERALIZE



LET STERALIZE FOR 8 HOURS



MUSHROOM SPAWN MIXED INTO SUBSTRATE



AIR GROW HOLES CUT



LEFT TO INCUBATE FOR 16-22 DAUS



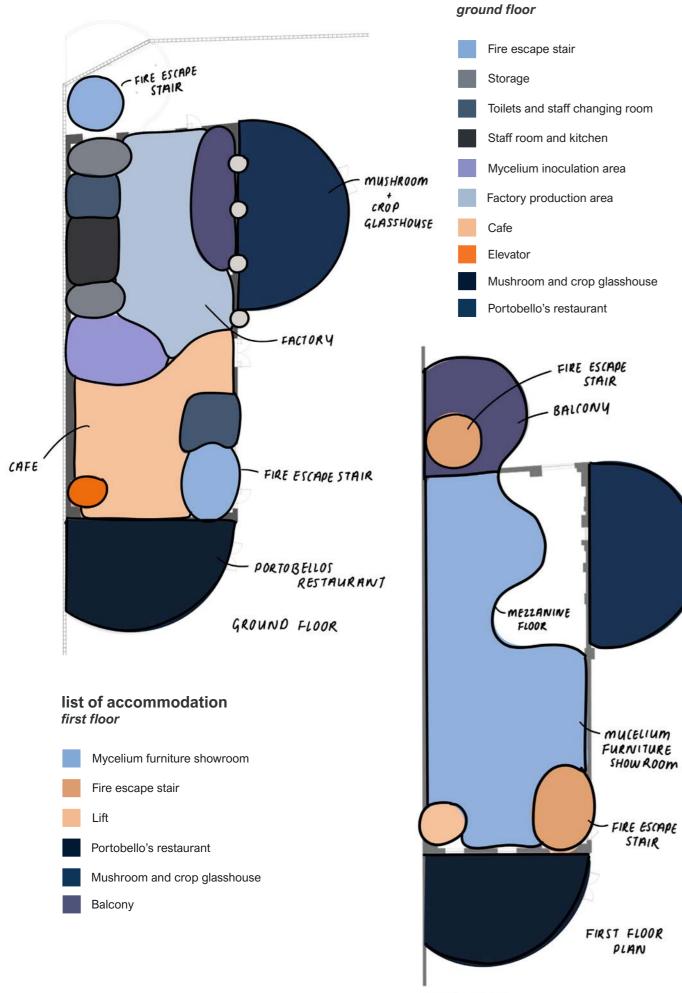
MUCELIUM GROWTHI CAN NOW BE PUT INTO A MOULD OR LEFT TO FRUIT



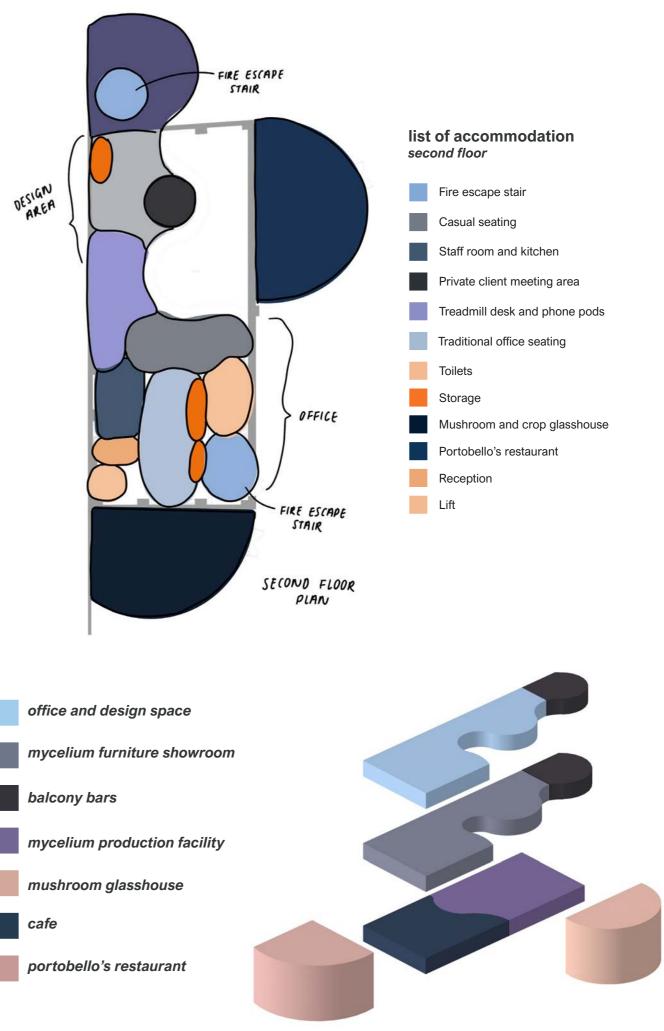
to see the full process

IF PUT INTO A MOULD, WILL BE READY TO BAKE AFTER 5 DAYS

space planning

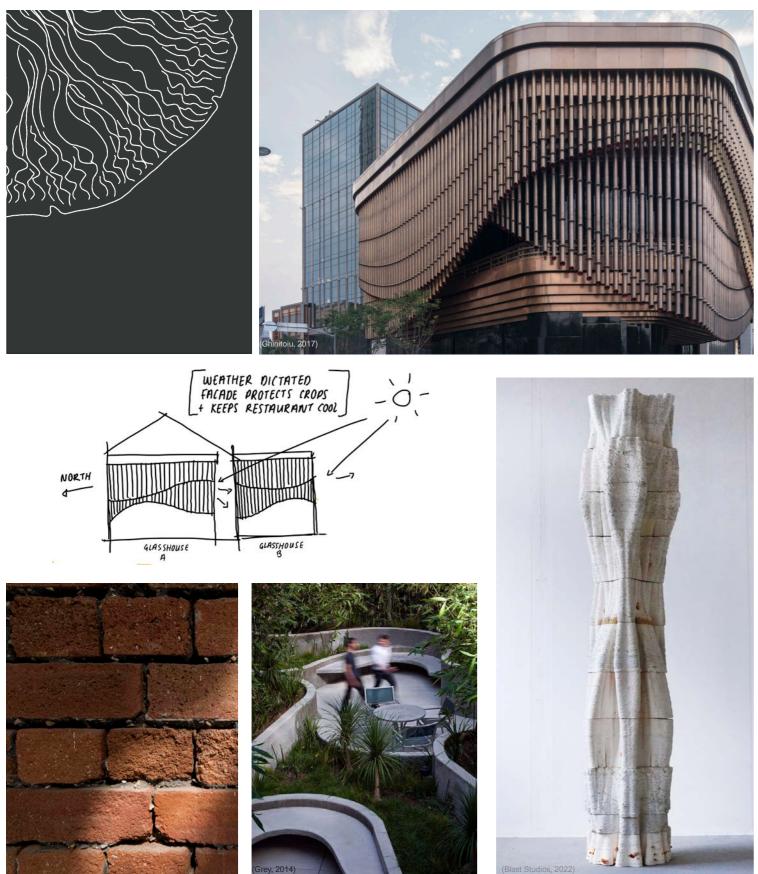


list of accommodation



of accommodation
Fire escape stair
Casual seating
Staff room and kitchen
Private client meeting area
Treadmill desk and phone pods
Traditional office seating
Toilets
Storage
Mushroom and crop glasshouse
Portobello's restaurant
Reception
Lift

exterior look and feel



Inspiration from The Bund Finance Centre by Foster + Partners and Heatherwick Studios has been taken to design a moving facade providing shade to the interior of the glasshouses. Inspiration was also taken from the Tree Column project wherein columns of 3D printed substrate are designed in a way to optimise mycelium growth. These two ideas were combined to create a weather dictated moving mycelium facade that provides human benefits of shade whilst being fully circular and sustainable.

This brass and mycelium facade juxtaposes the original industrial brick facade of the building to create a striking design.

portobello's restaurant

Portobello's restaurant is located in the west facing glasshouse, and aims to make use of mushrooms that ordinarily would be wasted during the mycelium production process. Only the stem of the mushroom is used to produce mycelium spores to begin the process, so any remaining mushroom will be used in dishes in Portobello's. Featured will be a bar area, open kitchen and seating with views of the moving facade and newly landscaped outdoor area.















cafe look and feel

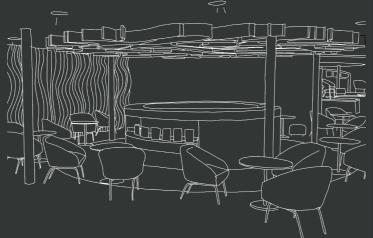




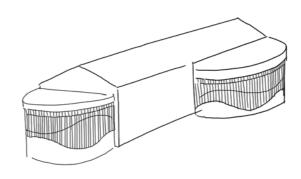


The cafe following on from Portobello's will serve mushroom based tea and coffee. The left over grounds from this coffee making process can be used as a substrate to grow mycelium, giving the building a way to offset its level of waste in house.

The design of the space incorporates the undulating feel of the underside of a mushroom, the walls will be clad with a timber facade to this effect, and part of the ceiling above the service area will be made up of free flowing paper structure to imitate a mushroom further.



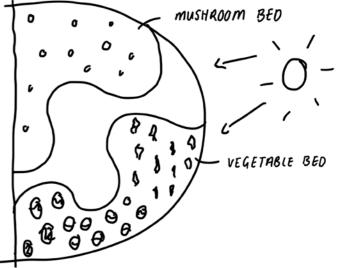
mushroom glasshouse

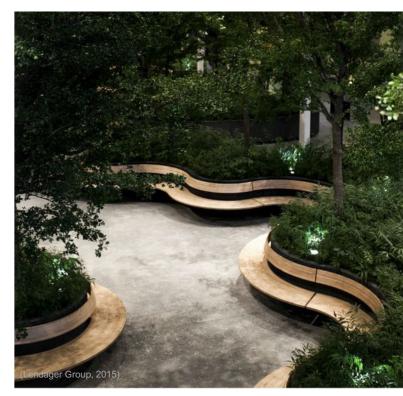


The mushroom glasshouse is where mushrooms will be grown to both enable the production of mycelium and provide food for Portobello's and the cafe. Other fruits and vegetables will be grown here to make the most of the space to supplement the menu at Portobello's. To prevent the scorching of crops, the weather dictated facade will protect the light sensitive mushrooms whilst remaining open to light dependent fruit and vegetables. The design of the space will follow the same curved pattern, beds follow a curved shape, dropping to another level of seating.









mycelium production facility look and feel



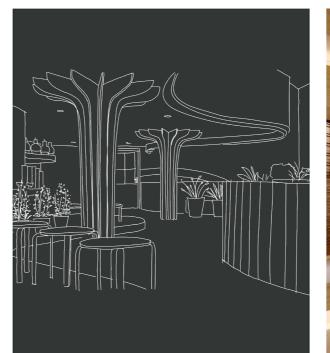
mycelium furniture showroom





The mycelium production facility will feature an industrial aesthetic, paying homage to its origins as a former industrial building. An area to produce furniture, kiln dry mycelium and grow the mycelium itself, a sterilized pod will feature to keep the mycelium spores free from any contaminants.













Much of the mycelium furniture showroom takes inspiration from the mushroom itself, featuring mushroom inspired columns and undulating shelves to display mycelium furniture. The image to the left is what inspired the undulating mezzanine floors.



mycelium design area

look and feel





Clients are able to have their own mycelium facade, furniture, extension or building designed by in house architects and designers. This area will feature storage for mycelium samples and product examples and have space for client meetings and presentations. The overall feel of this space is light and airy and spark creativity, aided by the overhead skylight and view over the mezzanine floor to the production area below

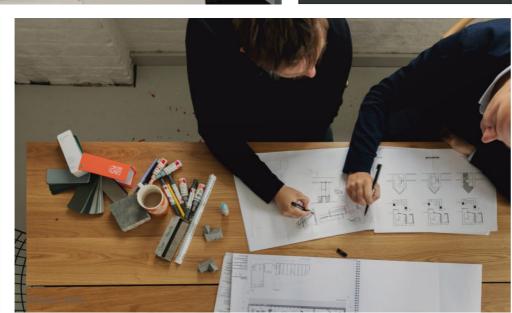
office look and feel



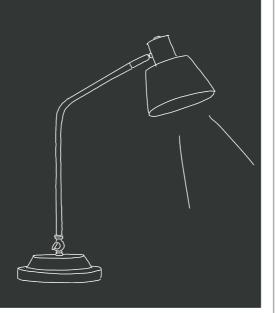
The office is located on the top floor of The Mycologist and has views down to the furniture showroom and production area below. The exposed brick will incorporate the buildings industrial feel, while brass additions will give the office an aesthetic appeal. Featured will be a variety of working areas to everyone's preference, casual seating, standing and treadmill desks, private pods, group working areas and traditional desks, as well as a private and public client meeting area.







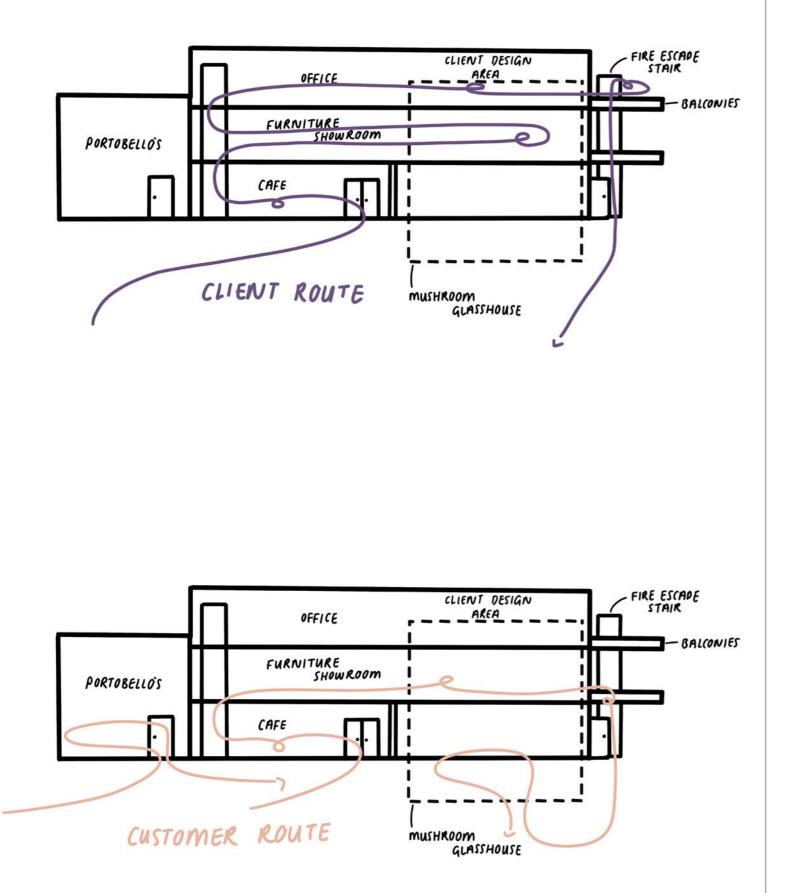


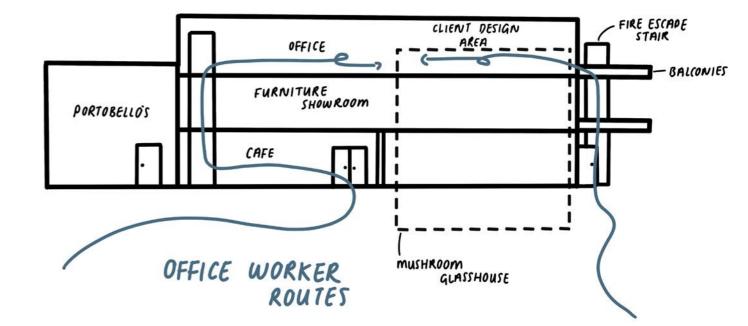


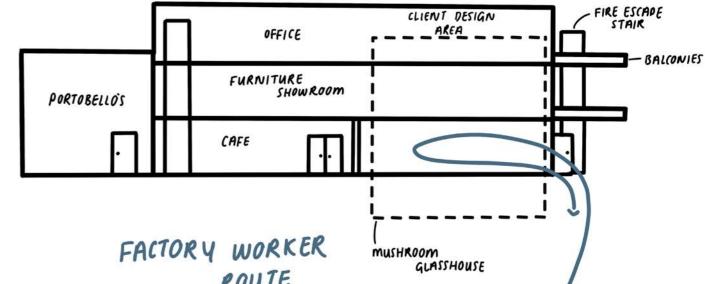




visitor journey







ROUTE

design outcome.

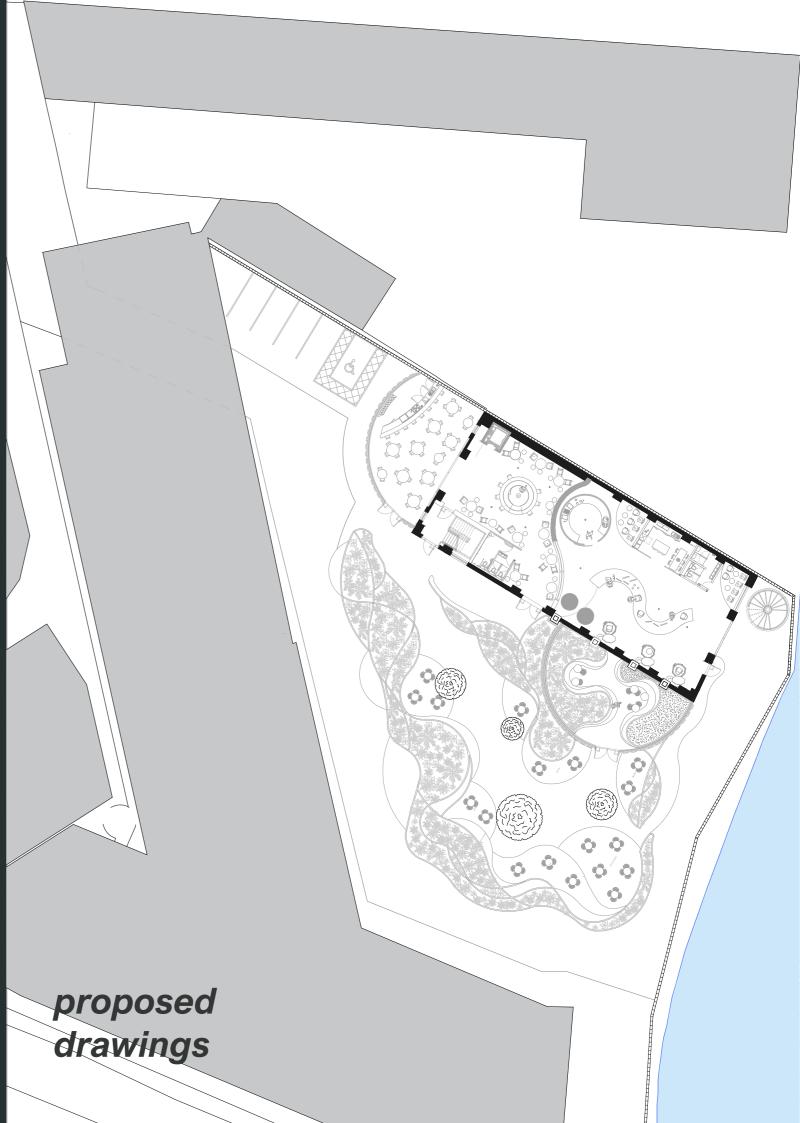
Proposed Plans, Elevations and Sections

Proposed Detail Elevations

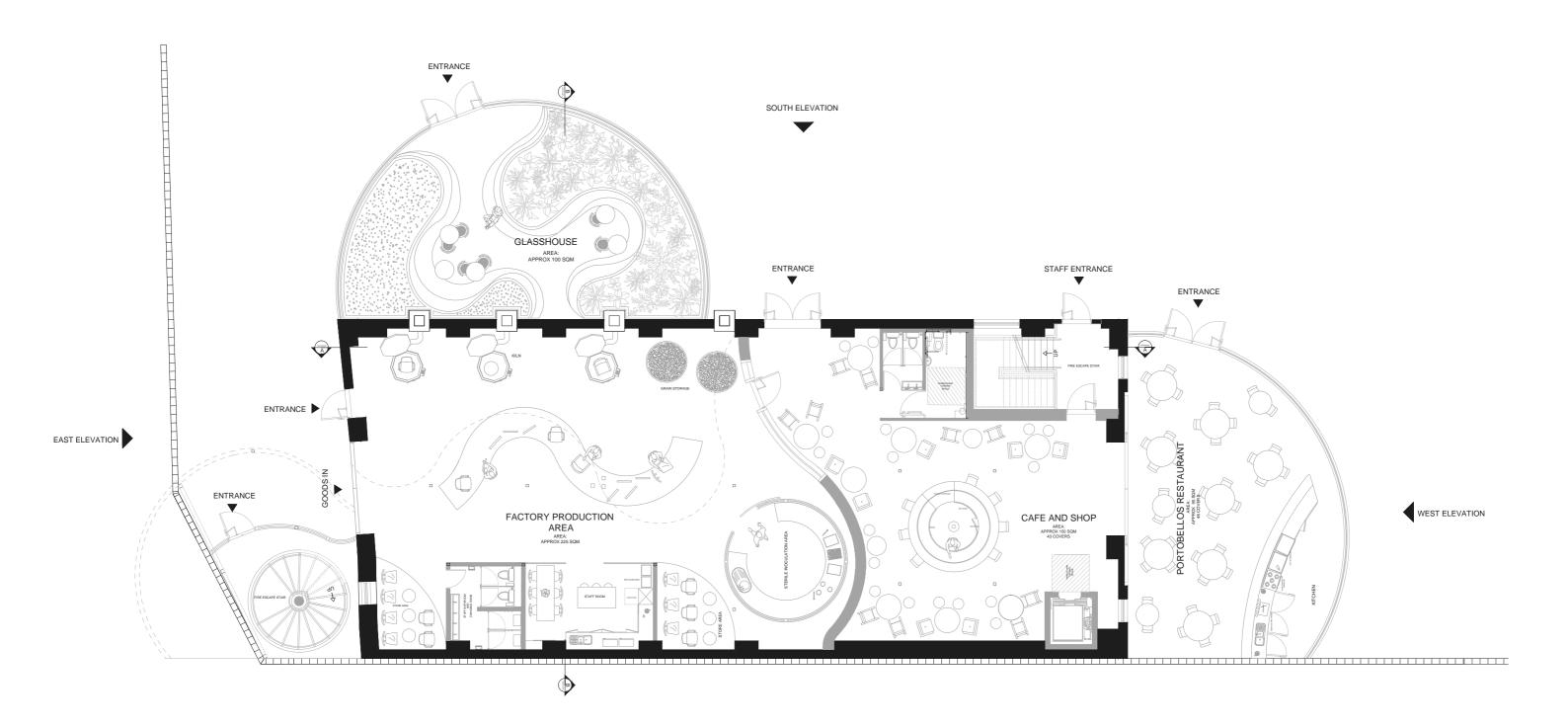
Axonometrics

Model

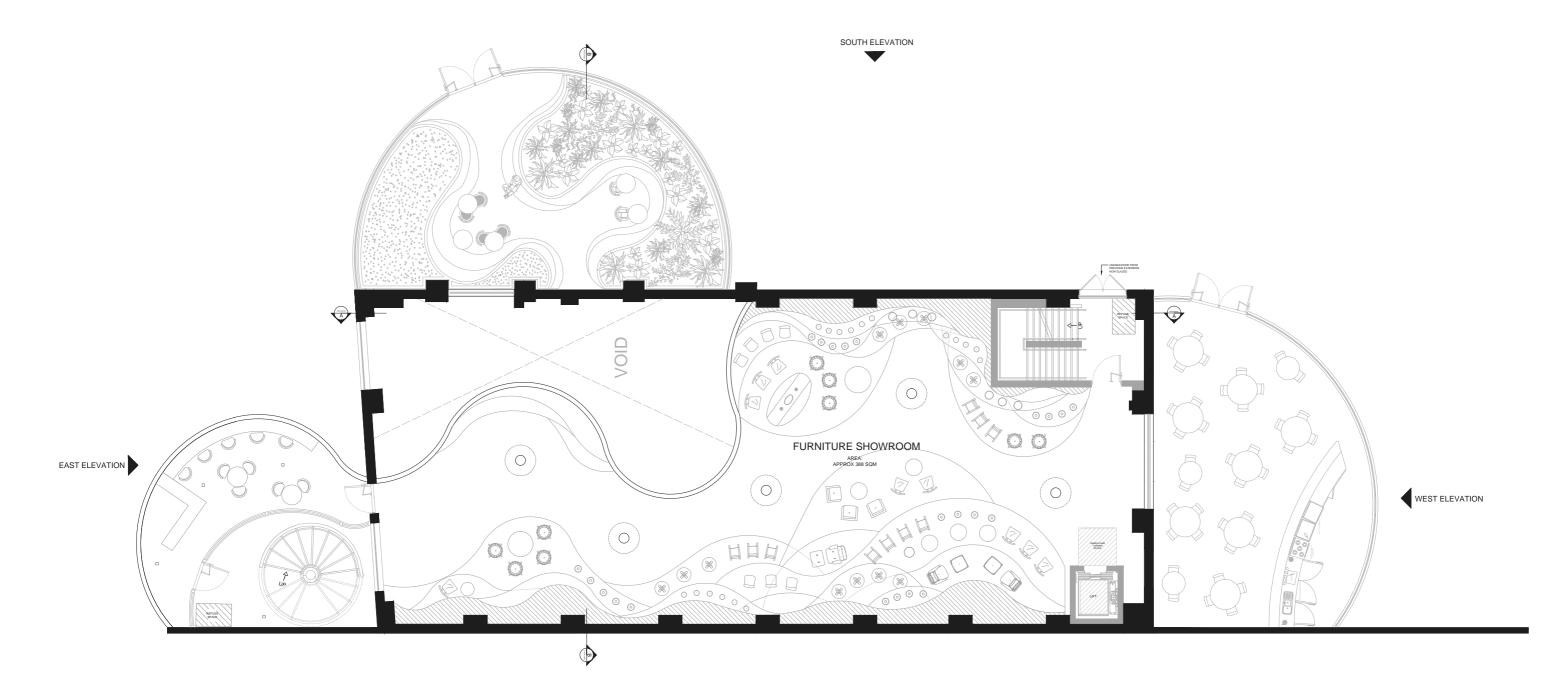






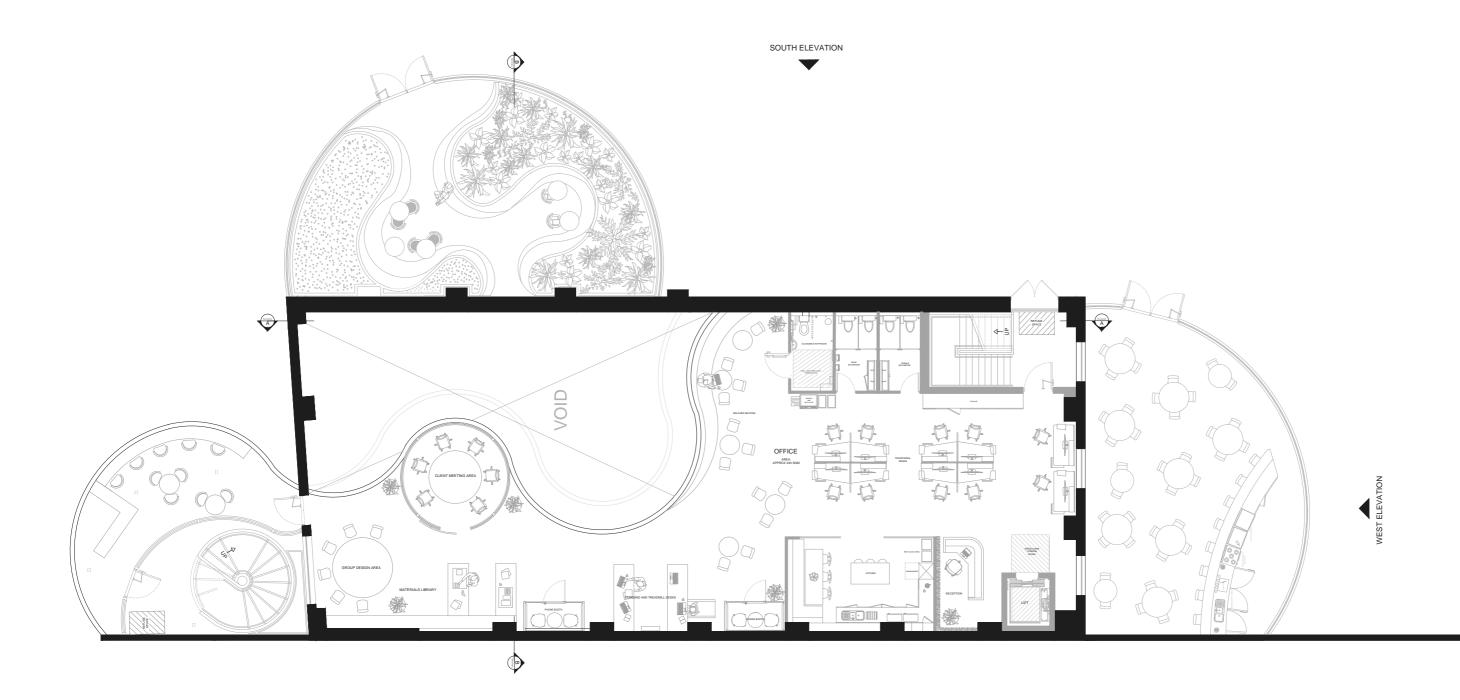


DATE:	NOTES:		RE	V.
		1		
PROPOSED	GROUND FLOOR PLAN			วร
58 DACE RC	DAD, LONDON, E3 2NX		MAR 2023	
		DAC/14/2	023	-



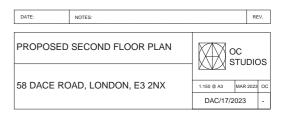
PROPOSED FIRST FLOOR PLAN

DATE:	NOTES:		REV.
PROPOSED	FIRST FLOOR PLAN	oc STU	DIOS
58 DACE RC	DAD, LONDON, E3 2NX		2023 OC
		DAC/16/2023	-



PROPOSED SECOND FLOOR PLAN

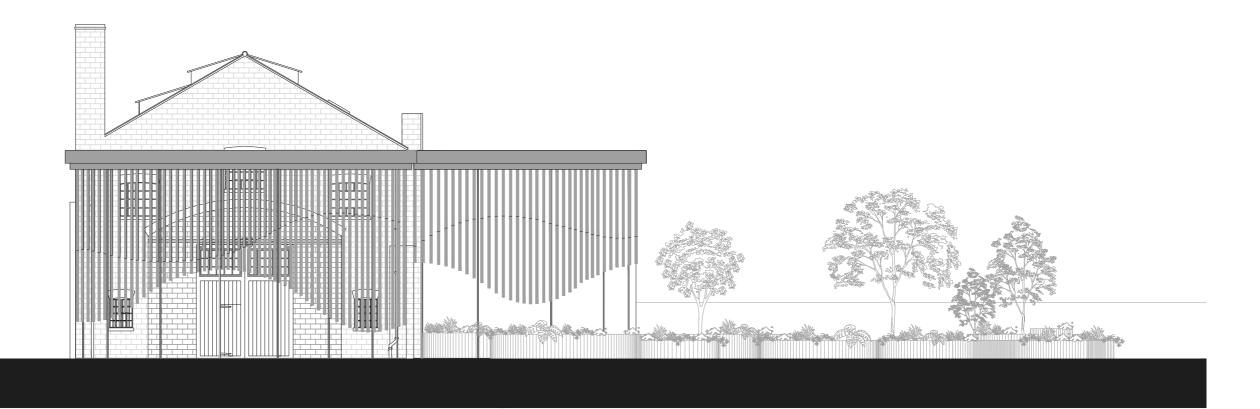




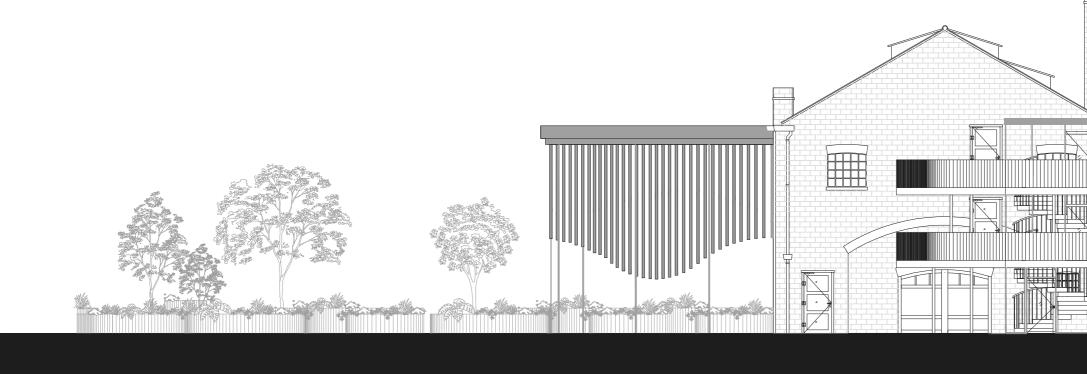


PROPOSED SOUTH ELEVATION 0 1.5 3M 1:150

DATE:	NOTES:		REV.
PROPOSED	SOUTH ELEVATION	oc	DIOS
58 DACE RC	AD, LONDON, E3 2NX		2023 OC
		DAC/18/2023	-



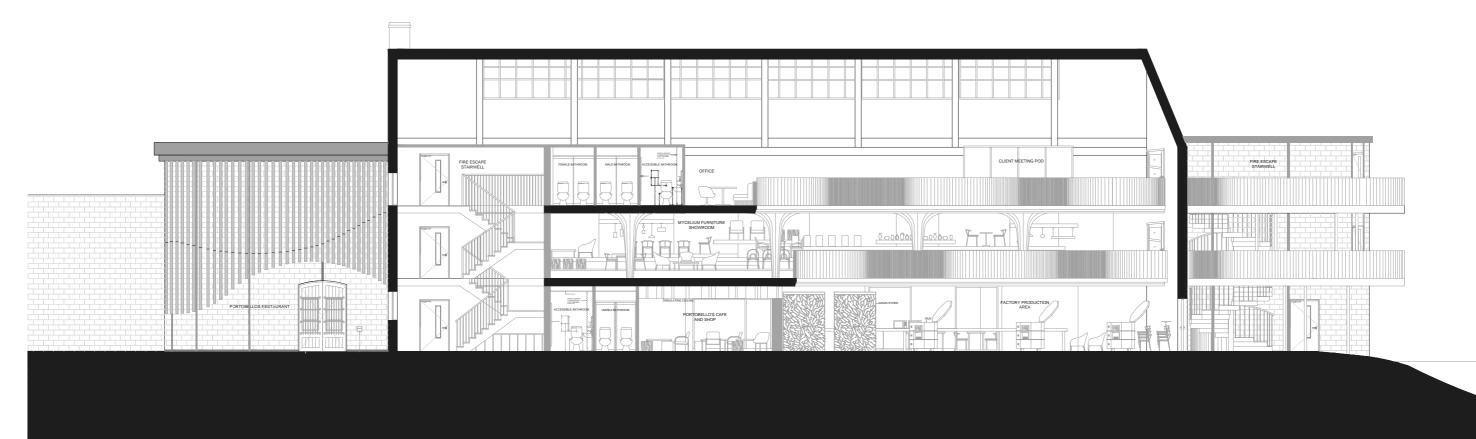
PROPOSED WEST ELEVATION 0 1.5 3M 1:150



PROPOSED EAST ELEVATION 0 1.5 3M 1:150



DATE:	NOTES:		RE	EV.
PROPOSED ELEVATION	EAST AND WEST		ic Tudic	DS
58 DACE RC	OAD, LONDON, E3 2NX	1:150 @ A3	MAR 2023	ос
		DAC/19/2	023	-



PROPOSED SECTIONAL ELEVATION A-A 0 1.5 3M 1:150

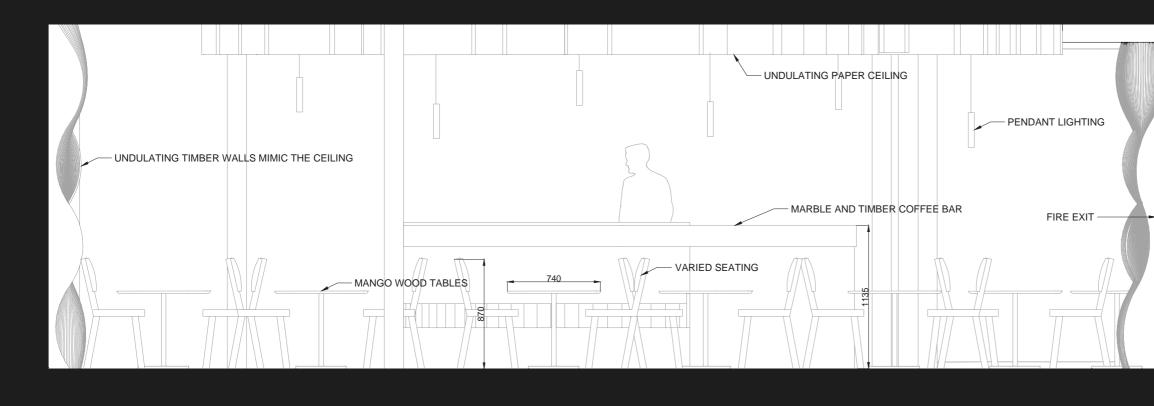
DATE:	NOTES:		RE	V.
	-			
PROPOSED SECTIONAL ELEVATION A-A		OC STUDIOS 1:150 @ A3 MAR 2023 OC		
58 DACE ROAD, LONDON, E3 2NX				
		DAC/20/2023		-



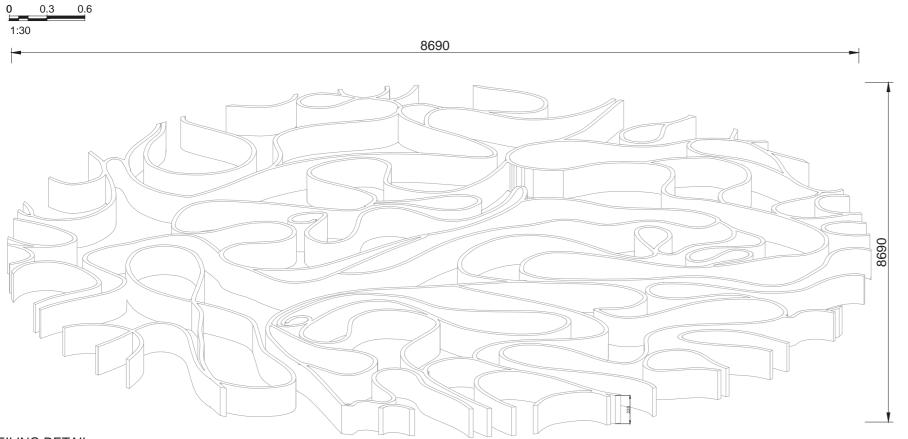
PROPOSED SECTIONAL ELEVATION B-B

0 1 2M 1:100

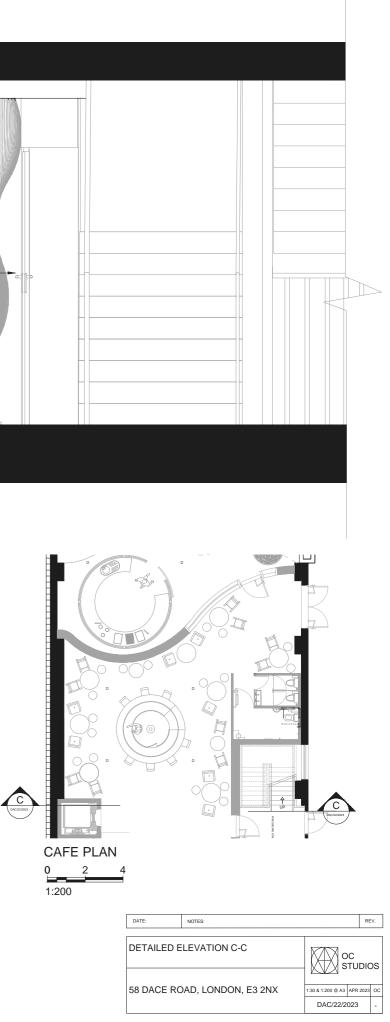
DATE:	NOTES:		RE	EV.
PROPOSED B-B	SECTIONAL ELEVATION			os
58 DACE RC	OAD, LONDON, E3 2NX	1:100 @ A3	APR 2022	
		DAC/21/2	023	-

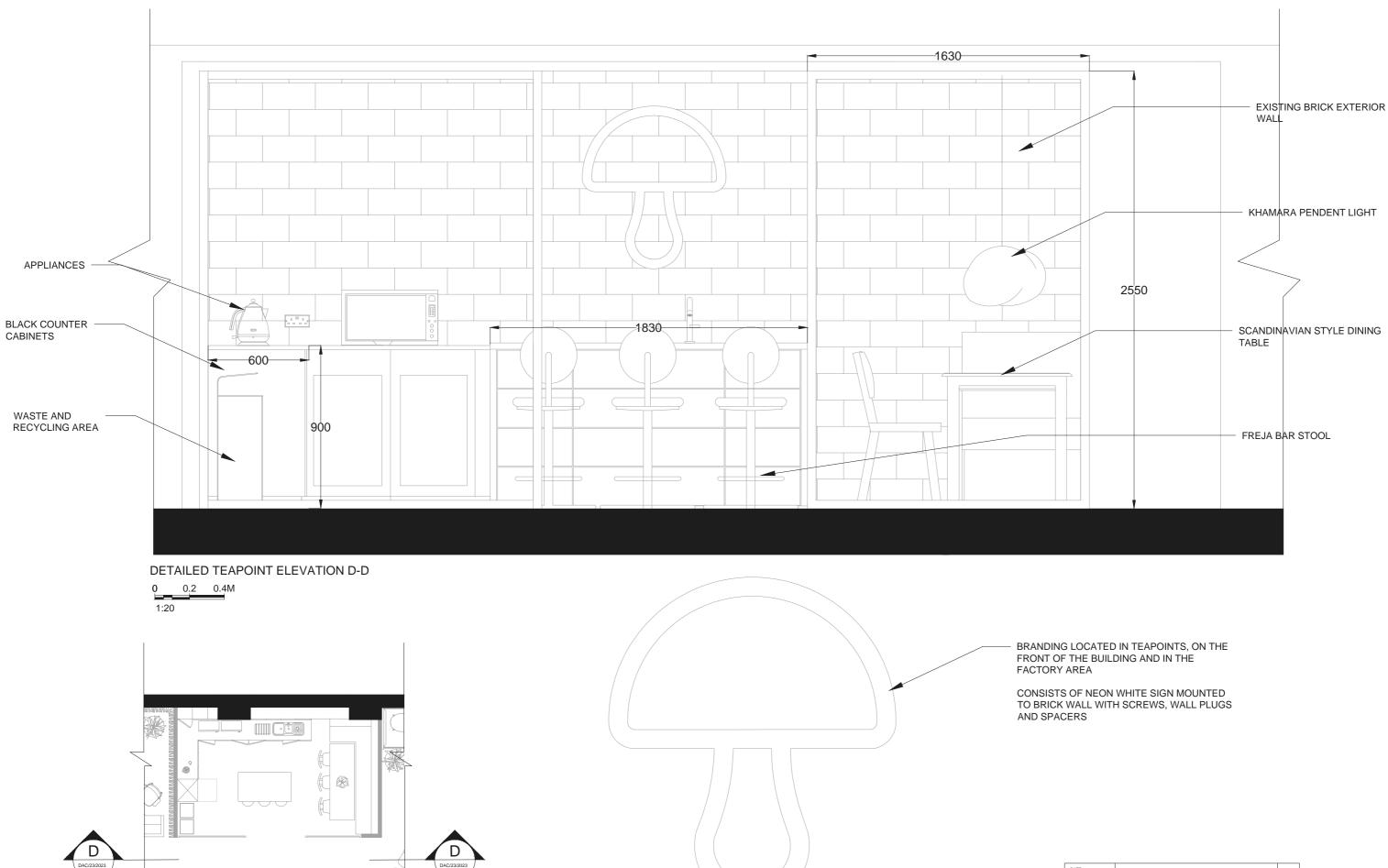


DETAILED SECTIONAL ELEVATION C-C



UNDULATING PAPER CEILING DETAIL FIXED ABOVE THE BAR VIA WIRE FIXINGS ATTACHED TO A DROPPED METAL MESH CEILING.





MUSHROOM BRANDING 0.1 0.2M 0 1:10

TEAPOINT PLAN

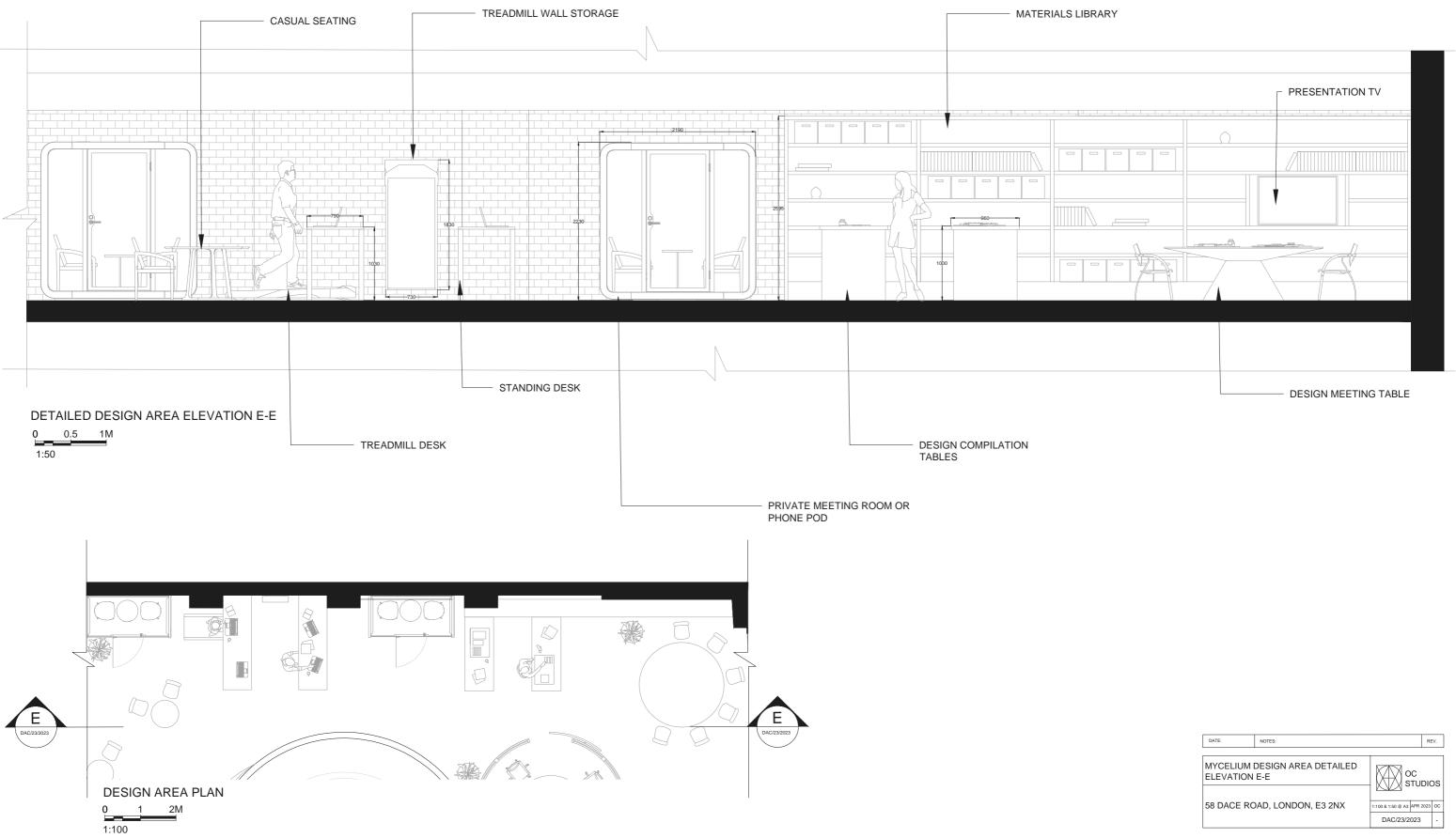
2M

1

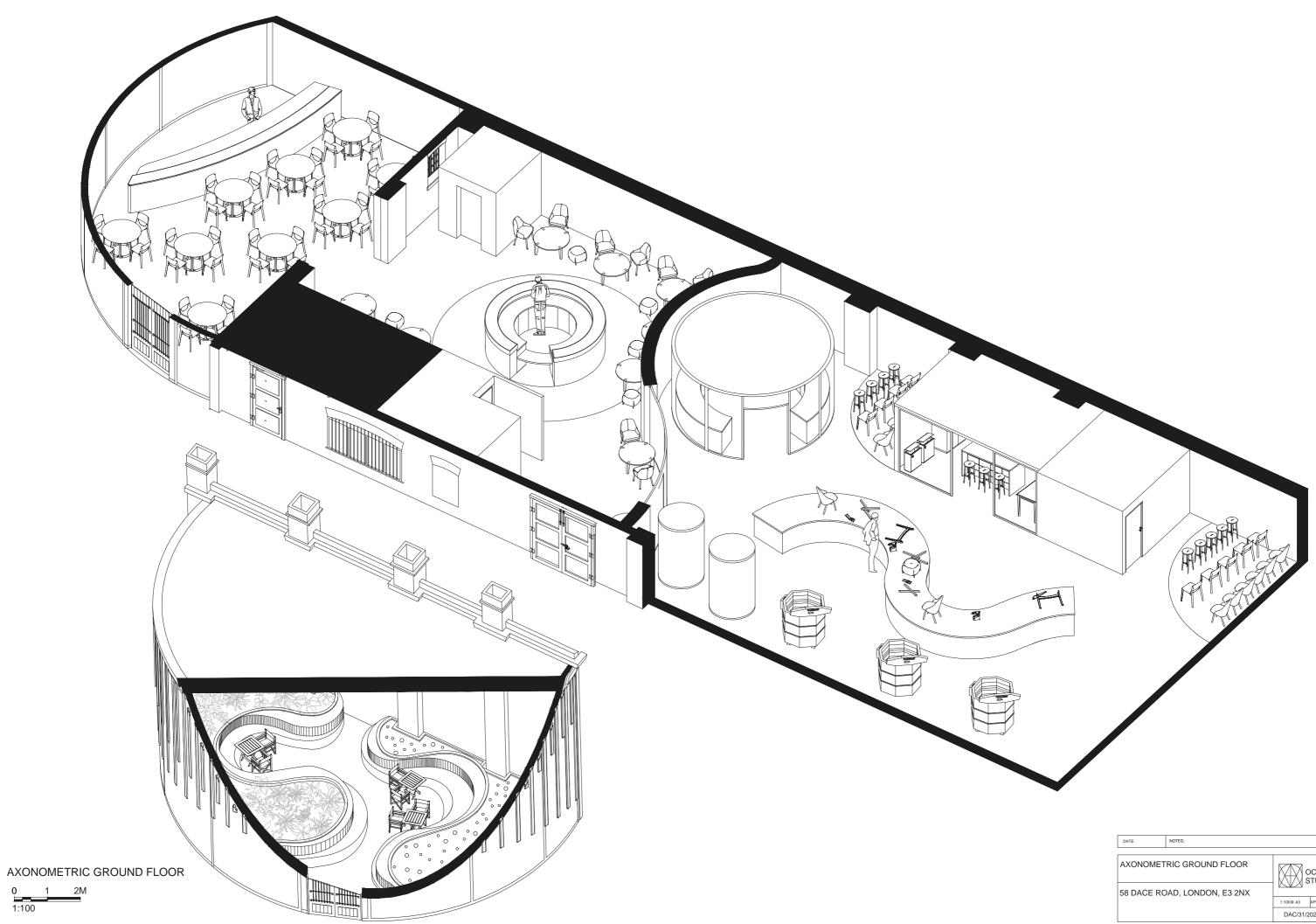
0

1:100

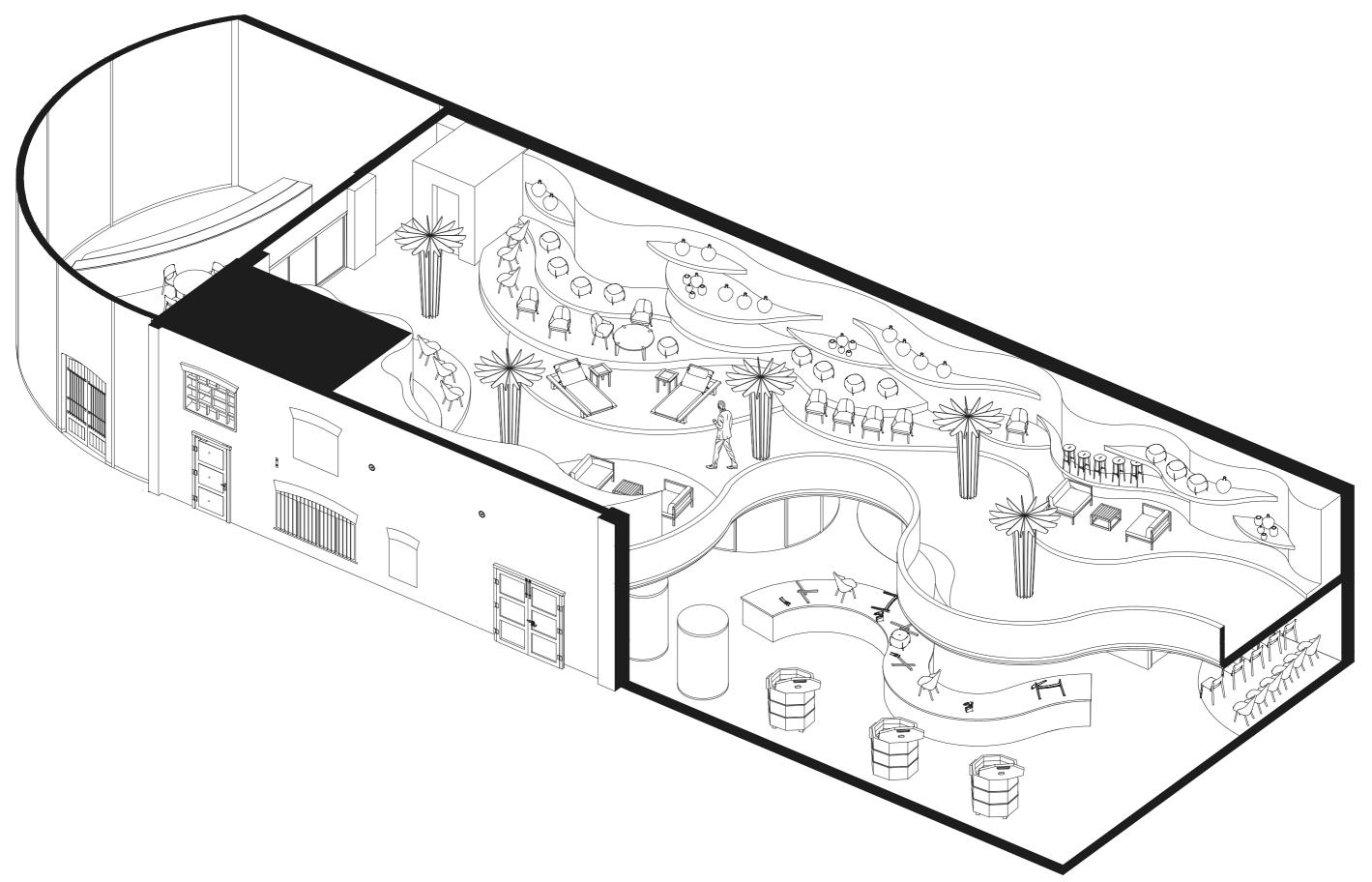
DATE:	NOTES:		RE	V.
DETAILED E	LEVATION D-D		; UDIC	DS
58 DACE RC	AD, LONDON, E3 2NX	1:10, 1:20, 1:100 @ A3	PR 2023	ос
		DAC/22.5/2	023	-



DATE:	NOTES:		REV.	
MYCELIUM I ELEVATION	DESIGN AREA DETAILED E-E	OC STU	DIOS	
58 DACE RC	AD, LONDON, E3 2NX	1:100 & 1:50 @ A3 APR	2023 OC	
		DAC/23/2023	-	



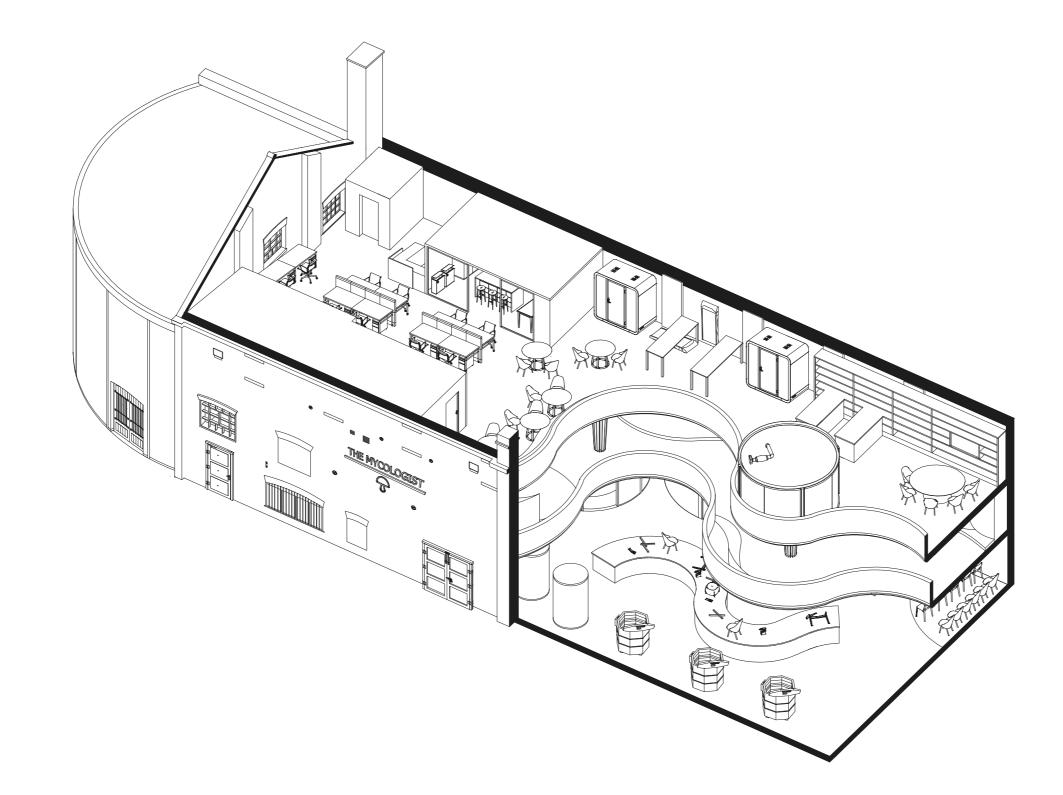
DATE:	NOTES:		RE	V.
	RIC GROUND FLOOR			DS
56 DACE RC	JAD, LONDON, ES 2NA		APR 2023	ос
		DAC/31/2	023	-



AXONOMETRIC FIRST FLOOR

0 1 2M 1:100

DATE:	NOTES:		RE	V.
AXONOMET	RIC FIRST FLOOR			os
58 DACE RC	AD, LONDON, E3 2NX			-
		1:100 @ A3	APR 2023	ос
		DAC/32/2	023	-



AXONOMETRIC SECOND FLOOR

0 1.5 3M 1:150

DATE:	NOTES:		RE	V.
				_
AXONOMET	RIC SECOND FLOOR	MA	C	
		s kurd	TUDIC	DS
58 DACE RC	AD, LONDON, E3 2NX			
		1:150 @ A3	APR 2023	ос
		DAC/33/2	023	-

model.







This 1:100 balsa wood and acetate sheet model shows the two glasshouses. Pieces of mycelium brick have been used to illustrate the columns, though in practice would be constructed using a compact mould, or be 3D printed to be able to implement a more structured shape.

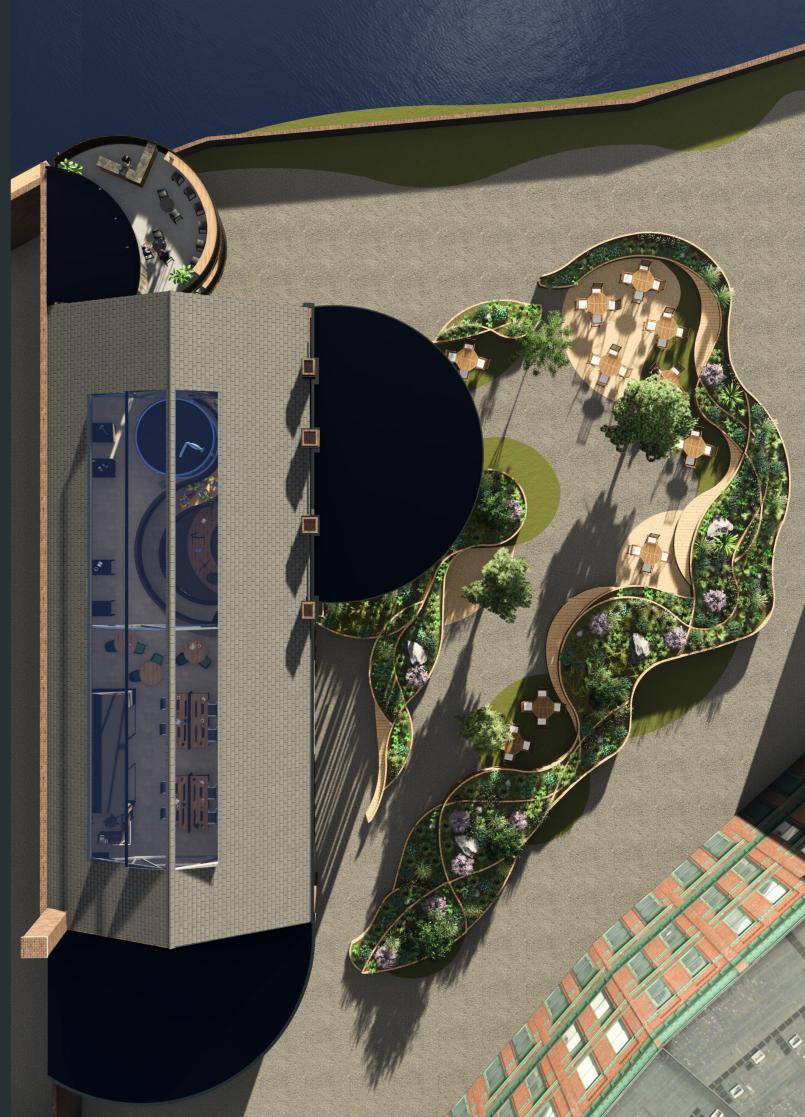




Perspective Renders

Rendered Floor Plans





exterior



These renders show the exterior of The Mycologist, and demonstrate the function of the weather dictated mycelium facade. The columns will open to expose light dependent crops to sunlight whilst shading the light sensitive mushrooms, or shade the diners in the restaurant in the west facing glasshouse.



The view of The Mycologist, the garden and balconies from the opposite bank of the River Lea is eye-catching and aims to generate interest from potential customers passing by. This footpath is busy as it is a direct route to the Olympic Park and Stratford Westfield Shopping centre so has a large amount of foot traffic.





restaurant



Portobello's restaurant located in the west facing glasshouse serves mushrooms left over from the mycelium growing process as to reduce the overall waste produced in the building. Mushrooms and other produce are grown in the south facing glasshouse, and an example menu has been provided.



If the glasshouse begins to become uncomfortable due to sunlight and heat, the mycelium facade can be moved to provide shade.



Main.

Mushroom Risotto	15
Mushroom Omelette	12
Vegan Mushroom Ragu	14
Vegan Bolognese with Mushrooms	13

PORTO BELLO'S

Sides.

3
5
3
3



Appetiser.

Cream of Mushroom Soup	6
Garlic Mushrooms on Toast	5
Stuffed Mushrooms	6
Shaved Truffle Scallops	10

Chef's specials.

Shaved Truffle and Mushroom Ravioli	20
Beef and Mushroom Stroganoff	20
Mushroom Dhansak	18
Gnocci with Mushrooms and Paprika	17

Drinks.

Mushroom Tea or Coffee	3
Soda	2
Wine Selection	POA

Dessert.

Mushroom Brownies	6
Mushroom Panna Cotta	6
Mushroom Cookies	4
Mushroom Flour Strawberry Crepes	6

cafe



Ground floor cafe selling mushroom based tea and coffee. The grounds of which will be reused as a substrate for mycelium to grow, contributing to lowering the overall waste produced by the building. The spiralling ceiling is a reference to the underside of a mushroom, and the undulating walls relating to the form of mycelium.

factory



These renders show the factory located on the ground floor of The Mycologist, where mycelium substrate is stored, mycelium is inoculated and grown, bricks are fired in the kilns and mycelium furniture assembled.







Located in this area is a tea point as well as staff bathrooms and changing rooms.



furniture showroom



The first floor contains the mycelium furniture showroom where products made in the factory are displayed for customers and clients to purchase. Columns are inspired by the stalk of a mushroom, and the undulating walls a reference to the free flowing form of mycelium itself, while each having a functional purpose.

office



Second floor office area containing traditional desks, casual seating, treadmill and standing desks, phone booths and public and private meeting spaces with the aim of catering to everyone's preference of work environment.









mycelium product design area



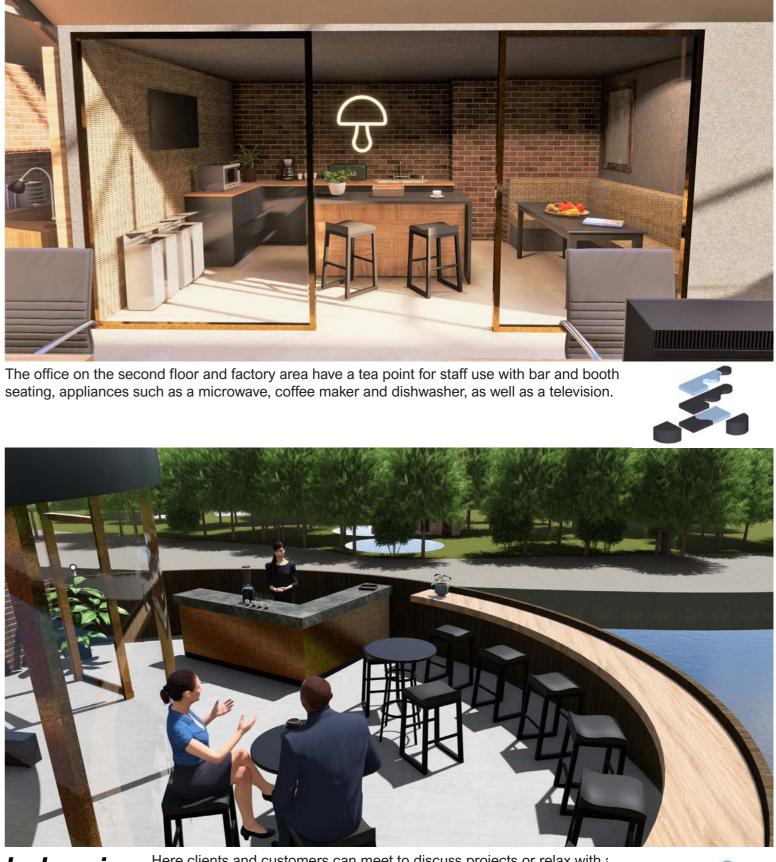
Here mycelium furniture, finishes such as fabrics and flooring and building materials will be designed for clients and to be sold in the mycelium furniture showroom below. This space is equip with a materials library, design compilation tables, a public presentation area with a screen and a private client meeting room.

tea points





View from above the mezzanine floors showing the free flowing nature of the building.



balconies

Here clients and customers can meet to discuss projects or relax with a drink and a view of the River Lea





glasshouses



This glasshouse contains undulating beds that drop down to provide bench seating. These beds contain the mushrooms used to grow mycelium and produce used in the onsite restaurant Portobello's. Any left over mushrooms from the mycelium growing process are used in the restaurant to prevent any food wastage.



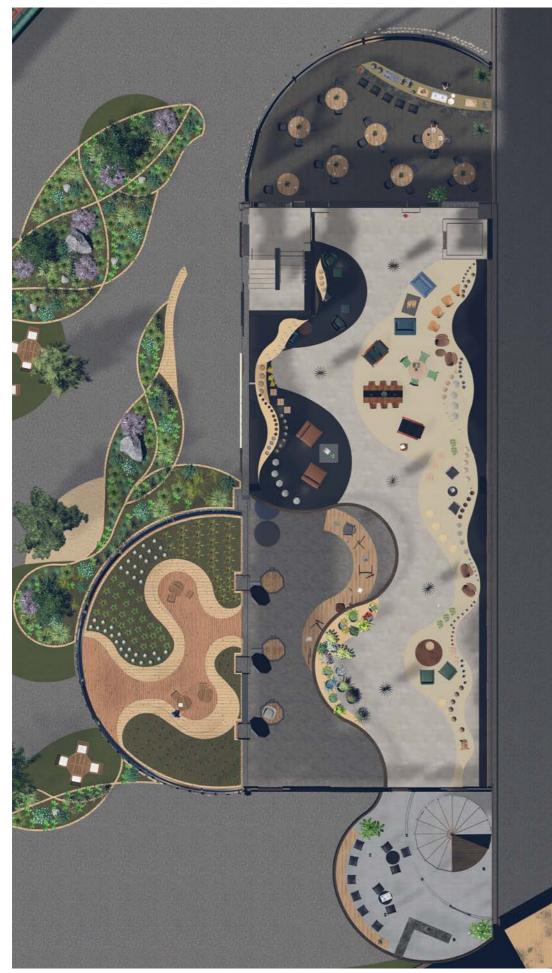
Render showing Portobello's on Dace branding hanging above the front entrance to the west facing glasshouse.



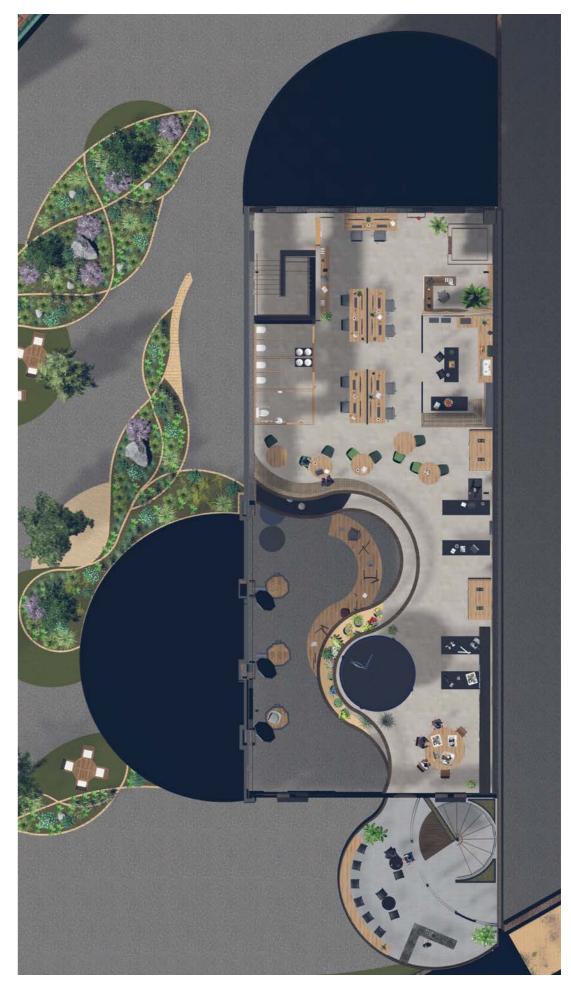
rendered plans



ground floor plan



first floor plan



second floor plan

costing.

FF&E

Lighting Schedule

Cost Estimation



	The Mycologist S8 Dace Road E3, London 30/03/2023 Culley Interiors			FF&E Schedule F100						
Image	Name	Company	Link	Dimensions	Room	Code	Notes	Quantity	Cost per Ite Total	Cost
***	ID Mesh Chair	Vitra	<u>Vitra ID Mesh </u> Official Vitra [®] Online Shop	H: 970 W: 500 D: 565	Office	F1	Colour: 67 Asphalt	22	£706.00	£15,532.00
	Framery Q Office Pod	Herman Miller	Framery Q Office Pod - 3D Product Models - Herman Miller	H: 2200 W: 2200 D: 1000	Office	F2	Colour: black Pinnacle	4	£676.00	£2,704.00
	Sussex Slatted Office Cabinet	Spaceist	Sussex Slatted Office Cabinet (spaceist.co.uk)	H: 1190 W 2350 D: 1775	Office	F3	Colour/material: wood v	2	£506.00	£1,012.00
-	Sense Desk	Herman Miller	<u>Sense - Desk - Herman</u> <u>Miller</u>	L: 610 to 1250	Office	F4	Colour/material pine	10	54 042 02	640 420 00
-	Round Oak Dining Table	S10 Home	Round Oak Dining Table, 4-10 Seater, Black - Solid Oak Dining Table (s10home.com)	H: 750 W: 1800	Office	F5	10 seater Oak table	2	£1,012.00 £1,630.00	£10,120.00 £3,260.00
*	AAC 123 Chairs	Haus	AAC 123 by Hay — haus [®] (hauslondon.com)	W: 590 D: 520 H:790	Office	F6	X5 grey x5 green	10 (5 grey, 5 green	£629.00	£6,290.00
	Curved American Oak Reception Desk Bundle	nationalofficefurniture	Curved American Oak Reception Desk Bundle (nationalofficefurniture supplies.co.uk)	H: 730 W: 2400 D: 1600	Office	F7		1	cc30.00	cc20.00
	Maru Round Oak Pedestal Dining Table	Maru	Maru Round Oak Pedestal Dining Table, Oak daals	Dia: 1200 H: 750	Office	F8		5	£639.00	£639.00
	HP DesignJet T630 Printer	НР	HP Designlet T630 Large Format up to A0 Plotter Printer - 36", with Mobile Printing (SHB11A) - HP Store UK	H: 420 W: 390 D: 323	Office	F9		1	£399.99	£1,999.95
	JTX MoveLight Walking Treadmill	JTX Fitness	JTX MoveLight: Walking Treadmill JTX Fitness	L: 1400 W: 700 H: 1200	Office	F10		2	£1,568.64 £499.00	£1,568.64 £998.00
	Electrically Height Adjustable Desk	Savv-e	Electrically Height Adjustable Desk Sit Stand Desk The Masta - Savv-e Work Store	H 625-1285 W: 1400 D: 700	Office	F11	Colour black pinnacle	2	£676.00	£1,352.00
\Box	Standing Desk	Oakywood	Wooden Standing Desk Oakywood.shop	H: 625 to 1285	Office	F12		2	£975.00	£1,950.00
	Oakley Set of 2 Cognac Colour Vegan Leather Upholstered Dining Chairs with Piping	Daals	Oakley Set of 2 Cognac Colour Vegan Leather Upholstered Dining Chairs daals	W 550 x D 600 x H 810	Café	F13	Cognac	5 sets of 2	£219.99	£1,099.95
	Fyne Beige Fabric Natural Frame Rattan Armchair	Daals	Fyne Beige Fabric Natural Frame Rattan Armchair daals	W 680 x D 780 x H 770	Café	F14	White	7	£189.99	£1,329.93
	Steelite Craft White Low Cups 340ml	Steelite	Steelite Craft White Low Cups 340ml (Pack of 36) - V534 - Buy Online at Nisbets		Café	F15	White	1 set of 36		
7	Spry Black Fairbanks Ceramic Top Large Round Coffee Table	Choice Furniture Supe	Spry Black Hairbanks Ceramic Top Large Round Coffee Table - CFS Funiture UK (choicefurnituresuperst	W 857 x D 857 x H 400	Café	F16	Black	10	£443.98 £484.00	£443.98 £4,840.00
	Little Cheese Footstool	Loaf	Little Cheese Footstool	W: 400 D: 400 C: 320	Café	F17	Egg box	17	£195.00	£3,315.00
DI CON	Grigia Green Compact 2 Group Espresso Coffee Machine	Nisbets	Grigia Green Compact. 2 Group Espresso Coffee Machine - DL257 - Buy Online at Nisbets	H: 560 x D: 530 W: 580	Café	F18		1	£2,711.98	£2,711.98
	Special Offer Olympia Harley Cutlery Set	Olympia	Special Offer Olympia. Harley Cutlery Set. (Pack of 48) - S613 - Buy Online at Nisbets		Café	F19		Pack of 48	£25.08	£2,711.98 £25.08

	Midas Plate 19cm/7.5"	Midas	Utopia Midas Plate 19cm/7.5" (Pack of 6) (buzzcateringsupplies.c om)	H: 18 W: 190	Café	F20		4 sets		
] ~	Freestanding Under Counter Refrigerator	AEG	AEG RTB515E1AU 3000 Series 84.5 cm Freestanding Under Counter Refriger (appliancepeople.co.uk	H: 845 W: 604 D: 576	Café	F21		1	£36.65	£146.60
m	Miele G5210SCCS Freestanding Dishwasher	Miele) <u>Miele G5210SCCS</u> <u>Freestanding</u> <u>Dishwasher ** LIMITED</u> <u>PROMOTIONAL OFFER</u> *_		Café	F22		1	£419.00	£419.00
			(appliancepeople.co.uk)						£1,049.00	£1,049.00
	Tower Renaissance 1.7L Kettle	Tower	Tower Renaissance 1.7L Kettle in Black (ligo.co.uk)	H: 264 W: 195 D: 181	Café	F23	Black	2	£59.99	£119.98
1	Fellow Corvo EKG 0.91	Fellow Corvo EKG	<u>Kofio.co</u>	H: 292 x W: 171 x D: 203	Staff Room	F24	Black	2	25505	
	Olympia Fusion Cup 250ml	Olympia Fusion Cup	<u>Olympia Fusion Cup</u> 250ml (Pack of 6) - DR098 - Buy Online at Nisbets		Staff Room	F25		5 sets of 6	£189.00	£378.00
									£34.78	£173.90
I I I I	COPENHAGEN Matte 24 pcs	Georg Jensen	Copenhagen stainless steel 24 piece cutlery set Georg Jensen		Staff Room	F26		2	£292.00	£584.00
	Churchill Stonecast Round Plate Peppercorn Grey 210mm	Churchill Stonecast	<u>Churchill Stonecast</u> <u>Round Plate</u> <u>Peppercorn Grey</u> <u>210mm (Pack of 12) -</u> <u>DM458 - Buy Online at</u> <u>Nisbets</u>		Staff Room	F27	Peppercorn Grey	3 sets of 12	£161.98	£485.94
	Miele M6012SC Freestanding Microwave Oven	Miele	Miele M6012SC Freestanding Microwave Oven with Auto Programmes Grill & Knob Control (appliancesuperstore.c	H: 305 W: 520 D: 422	Staff Room	F28		4		
0	Joseph Joseph Bread Bin with Cutting Board Lid	Joseph Joseph	o.uk) Joseph Joseph Bread Bin with Cutting Board Lid, London, UK – Season (seasoncookshop.co.uk	H: 180 W: 370 D: 220	Staff Room	F29	Black	2	£670.00 £49.99	£2,680.00 £99.98
1	Fellow Corvo EKG 0.91	Fellow Corvo EKG	<u>Kofio.co</u>	H: 292 x W: 171 x D: 203	Staff Room	F30	Corvo	2		
]	Freestanding Under Counter Refrigerator	AEG Fridge	AEG RTB515E1AU 3000 Series 84.5 cm Freestanding Under Counter Refriger	H: 845 W: 604 D: 576	Staff Room	F31		2	£189.00	£378.00
			(appliancepeople.co.uk) Miele G5210SCCS Freestanding Dishwasher ** LIMITED						£419.00	£838.00
	Miele G5210SCCS Freestanding Dishwasher	Miele	PROMOTIONAL OFFER *		Staff Room	F32	Clean Steel	2	£1,049.00	£2,098.00
	Stainless Steel Step On Multi- Compartments Rubbish and Recycling Bin	Songmics	Songmics Stainless Steel Step On Multi- Compartments Rubbish and Recycling Bin Wayfair.co.uk	H: 652 W: 590 D: 325	Staff Room	F33	Stainless Steel	2	6120.00	6370.00
	Custom Light Scandinavian Dining Table	Grain and Frame	Custom Light Scandinavian Tables - Use Our Online Table Builder Grain & Frame (screinandframe.com)	H: 760 W: 150 D: 850	Staff Room	F34	Light Scandinavian	2	£139.99 £549.00	£279.98 £1,098.00
AA	Solid Oak Curved Dining Chair with Grey Woven Seat	Anders	(erainandframe.com) Solid Oak Curved Dining Chair with Grey Woven Seat - Anders - Furniture123	W: 550 D: 521 H: 754	Staff Room	F35	Grey	3	23 13:00	22,050.00
									£159.97	£479.91
	Bespoke Bar	Commercial Kitchen a	Home - (commercialkitchenand bar.com)	H:1000 L:1500 W:850	Restaurant	F74	Timber and Marble	2	£500.00	£1,000.00

H	Freja Bar Stool	Freja	Freja Bar Stool Kitchen & Dining Furniture by Crea (by- crea.com)	H: 660 W: 760	Staff Room	F37	Black	6	£289.00	£1,734.00
	Nutkins Bowl	Nutkins	Nutkins Bowl _ Handmade Wooden_ Bowl Loaf		Staff Room	F38	Walnut Wood	2	£59.00	£118.00
OS -	Round Nutkins Sharing Board	Nutkins	Round Nutkins Sharing Board Handmade Round Wooden Board Loaf	-	Staff Room	F39		2	£39.00	£78.00
	Stainless Steel Sink S12SR	Lab Central	<u>Stainless Steel SInk</u> S12SR - Labcentral	H: 394 W: 343 D: 160	Factory	F40	Stainless Steel	1	£245.14	£245.14
	Brownall Double Pillar Angle Water Tap	Lab Central	Brownall double U- shape pillar angle water tap - Buy Online now. (labcentral.co.uk)		Factory	F41		1		
	GN 1/1 Stainless Steel Gastronorm	Buzz Catering Supplie	GN 1/1 Stainless Steel Gastronorm 65mm 5 Deep (buzzcateringsupplies.c om)	H: 65 W: 530 D: 325	Factory	F42			£107.00 £9.56	£107.00
	Petri Dishes With Lids	Consortium Education	Petri Dishes With Lids		Factory	F43		10 packs of 20	£5.40	£54.00
	Pipette Filter Tips	Camlab	Pipette Filter Tips 200µl Sterile Racked Pack of 960 - 10 Racks x 96 Tips Camlab	-	Factory	F44		1 pack of 96		
	Labcold™ 150L Sparkfree Refrigerator	Fisher Scientific	Labcold™ 150L Sparkfree Refrigerator 150L Lab Refrigerators Fisher Scientific	H: 835 W: 600 D: 600	Factory	F45	Spark-free	1	£60.02	£60.02
	KMT1231 Electric Kiln & WiFi Touchscreen Controller	Cromartie Hobbycraft	KMT1231 Electric Top Loading Ceramic Kiln & WiFi Touchscreen Controller, Ceramic Glass Kilns - Cromartie Hobbycraft Limited		Factory	F46		3	£2,160.00	£2,160.00
	Undercounter Fridge	Aquilo Refrigeration	Undercounter Fridge — Aquilo Refrigeration	- H: 840 W: 600 D: 600	Restaurant	F47		2	£6,120.00	£18,360.00
	Undercounter Freezer	Aquilo Refrigeration	Undercounter Freezer — Aquilo Refrigeration	H: 840 W: 600 D: 600	Restaurant	F48		1	£534.60	£1,069.20
	Lincat Lynx 400 Electric Double Griddle LGR2	Lincat	Lincat Lynx 400 Electric Double Griddle LGR2 - K160 - Buy Online at Nisbets	H: 163 W: 615 D: 400	Restaurant	F49		1	£600.48	£600.48
	Britannia RC10TGQLS Q Line 100cm Dual Fuel Range Cooker	Britannia	Britannia Q Line RC10TGQLS Stainless Steel 100cm Dual Fuel Range Cooker (theappliancedepot.co. uk)	H: 870 W: 995 D: 600	Restaurant	F50	Stainless Steel	1	£587.98 £1,799.00	£587.98 £1,799.00
	T&G Beech Wood Chopping Board Medium	Nisbets	<u>T&G Beech Wood</u> <u>Chopping Board</u> <u>Medium - GJ510 - Buy</u> <u>Online at Nisbets</u>		Restaurant	F51		1		
1000	Vogue 6 Piece Soft Grip Knife Set	Vogue	Vogue 6 Piece Soft Grip Knife Set - S725 - Buy Online at Nisbets		Restaurant	F52		1	£53.98 £131.98	£53.98 £131.98
	Olympia Chia Small Bowls Sand 155mm	Olympia	Olympia Chia Small Bowls Sand 155mm (Pack of 6) - DR810 - Buy Online at Nisbets		Restaurant	F53		10 packs of 12	£39.46	£394.60
	Olympia Chia Plates Sand 270mm	Olympia	Olympia Chia Plates Sand 270mm (Pack of 6) - DR807 - Buy Online at Nisbets		Restaurant	F54		10 packs of 6	£39.46 £62.38	£394.60 £623.80
	Olympia Chia Plates Sand 205mm	Olympia	Olympia Chia Plates Sand 205mm (Pack of 6) - DR808 - Buy Online at Nisbets		Restaurant	F55		10 packs of 6	£58.78	£587.80

	Special Offer Olympia Harley Cutlery Set	Olympia	Special Offer Olympia Harley Cutlery Set (Pack of 48) - S613 - Buy Online at Nisbets		Restaurant	F56		2 packs of 48	£25.08	£50.16
1	Bull Extra Large Premium Stainless Steel Sink and Tap	Abell	Bull BBQs Extra Large Stainless Steel Premium Sink and Tap A Bell BBQ, Accessories	H: 550 W: 400 D: 200	Restaurant	F57		1	£692.99	£692.99
	Utopia Hayworth Double Old Fashioned Glasses	Nisbets	Utopia Hayworth Double Old Fashioned Glasses (Pack of 6) - CZ069 - Buy Online at Nisbets		Restaurant	F58		6 sets of 6	£34.78	£208.68
	Paloma - Solid teak round garden table	Tikamoon	Round table in solid teak, seats 6 people - Outdoor furniture - Tikamoon	H: 760 W: 1200 D: 1200	Glasshouse / (G F59		16	£1,599.00	£25,584.00
	Bolero Steel & Acacia Armchair	Nisbets	Bolero Steel & Acacia Armchair (Pack of 4) - DS151 - Buy Online at Nisbets	H: 860 W: 550 D: 530	Glasshouse / G	G F60		17 packs of 4	£293.95	£4,997.15
	Utopia Hayworth Deep Coupe Glasses 230ml	Utopia	Utopia Hayworth Deep Coupe Glasses 230ml (Pack of 6) - C2040 - Buy Online at Nisbets		Balconies	F61		6 packs of 6	£39.58	£237.48
	Utopia Hayworth Hiball Glasses 350ml	Utopia	Utopia Hayworth Hiball Glasses 350ml (Pack of 6) - CZ068 - Buy Online at Nisbets		Balconies	F62		6 packs of 6	£38.38	£230.28
	Utopia Hayworth Double Old Fashioned Glasses	Utopia	Utopia Hayworth Double Old Fashioned Glasses (Pack of 6) - CZ069 - Buy Online at Nisbets		Balconies	F63		6 packs of 6	£34.78	£208.68
	Bonzer Cocktail Kit	Bonzer	Bonzer Cocktail Kit - GH470 - Buy Online at Nisbets		Balconies	F64		1	£89.98	£89.98
177	Beaumont Bar Caddy	Beaumont	Beaumont Bar Caddy Chrome - CN748 - Buy Online at Nisbets	H: 103 W: 230 D: 135	Balconies	F65	Chrome	1	£20.38	£20.38
	Bolero Bistro Steel High Stool Black	Bolero	Bolero Bistro Steel High Stool Black (Pack of 4) - DL881 - Buy Online at Nisbets	H: 770 W: 425 D: 425	Balconies	F66	Black	5 sets of 4	£205.18	£1.025.90
	Bespoke Bar Tables	Bespoke Outdoor	Bespoke Outdoor	H: 900 L: 5593 D: 500	Balconies	F67	Treated Oak	2	£500.00	£1,000.00
	Bespoke Copper Outdoor Bar		Outdoor Kitchens	H: 900 W:2355 D: 2100	Balconies	F68	Copper and Granite	2	£2,000.00	£4,000.00
	Round Mango Wood Dining Table Weymar Recycled Wooden Chair		Round Mango Wood Dining Table Weymar (Ø120 cm) - SKLUM Recycled Wooden Chair	H: 770 Dia: 1200	Restaurant		Mango Wood	11	£795.95	£8,755.45
	Vignet	Sklum	Flexible Plywood MDF		Restaurant		Recycled Timber	38	£105.95	£4,178.10
18 4 50 50	Flexible Plywood Panels Workshop Table	Latham Timber Foundry	Panels Latham. Timber Timber Foundry Bespoke Handmade Industrial Furniture Derbyshire (timber-	H: 900 W:1200 L:10000	Factory		Flexible Plywood Recycled Timber	1		£20,000.00
	Portobellos Kitchen Bar	Commercial Kitchen a	foundry.com)	H:1000 L:78000 W:1000	Restaurant	F74	Timber and Marble	1	£2,000.00 £6,000.00	£2,000.00 £6,000.00
	Como Poseur Table Round Black Wood	Simply Bar Stools	Como Poseur Table - Black Bar Tables Simply Bar Stools	H:580mm W:450	Balconies	F75	Black wood	4	£99.98 Total	£399.92 £181,943.93

1	The Mycologist 58 Dace Road E3. London 30/03/2023 Cullev Interiors			Lighting Sched
CULLEY INTERIORS	Name	Company	Link	Dimensions
•	Astro 1249017 Minima Fixed 1 Light Downlight Black IP65	Astro	Astro 5793 Minima Fixed Downlight Black (oceanlighting.co.uk)	
	EDGE Surface Wall / Ceiling Exit Running Man Sign Light	Lighthub Direct	LED Surface Fire Exit Wall Ceiling Running Man Light 3hr Emergency- LightHub Direct	L: 330 W: 230 D: 4
The second secon	10 Year Longlife Battery Heat Alarm	Safelincs	<u>10 Year Longlife</u> <u>Battery Heat Alarm -</u> <u>UltraFire ULLH10 -</u> <u>£17.70 inc VAT</u> (safelincs.co.uk)	H: 50 Dia: 84
F	SLV Lighting Spot 79 GU10 Spotlight	CEF	SLV Lighting Spot 79 GU10 Spotlight Black (132020) CEF	L: 95 Dia: 85 H: 14
0	Mains smoke alarm without light	Lumi	<u>One-Smoke® - Lumi-</u> Plugin Shop	
• [] •	Caradok 1 Gang 2 Way Light Switch	Caradok	<u>Caradok 1 Gang 2 Way</u> <u>Light Switch - Black</u> <u>Nickel</u>	H: 86 x W: 86 x D:
•	Caradok 1 Gang 2 Way Light Switch	Caradok	Caradok 1 Gang 2 Way Light Switch - Black Nickel	H: 86 x W: 86 x D:
•	Caradok 2 gang 2 way plate switch	Caradok	Caradok 2 gang 2 way plate switch Brushed Chrome, Metal Switch, Grey I	H: 86 x W: 86 x D:
•	Caradok 4 Gang 2 Way Light Switch	Caradok	<u>Caradok 4 Gang 2 Way</u> Light Switch - Black <u>Nickel</u>	
	Astro Kos II Outdoor Flush Ceiling Light	Online Lighting	Astro Kos II Outdoor Flush Ceiling Light - Textured Grey Online Lighting	H: 85 Dia: 85
	RS PRO LED Emergency Lighting	RS Components	RS PRO LED Emergency Lighting, Bulkhead, 6.5 W, Maintained, Non Maintained RS (rs- online.com)	
	Khmara Pendant Light	Simig Lighting	Wabi-Sabi Khmara Pendant Light Khmara Pendant Lamp SIMIG (simiglighting.com)	
	Arcchio Franka LED pendant light	Arcchio	Arcchio Franka LED pendant light, 1-bulb Lights.co.uk	
°	Caradok 3 Gang 2 Way Light Switch	Caradok	<u>Caradok 3 Gang 2 Way</u> <u>Light Switch - Black</u> <u>Nickel</u>	H: 86 x W: 86 x D:
*	3 Circuit LED Track Light	Sera Technologies	GU10 Compact Spotlight Shop Track Light Sera Technologies	
P .	Ascoli Single Spotlight	Ocean Lighting	Astro 1286078 Ascoli Single Spotlight Matt Black (oceanlighting.co.uk)	

Lighting Schedule L100

imensions	Room	Code	Notes	Quantity	Total per ite Total	
	Mixed	L1	Black	1		
					£15.39	£15.39
330 W: 230 D: 400	Mixed	L2		8	£29.95	£239.60
: 50 Dia: 84	Mixed	12	White	12		
. 50 Dia. 64	Mixed	13	White	12	£18.90	£226.80
95 Dia: 85 H: 140	Mixed	L4	Black	12		
					£24.30	£291.60
	Mixed	L5	White	3		
					£84.59	£253.77
: 86 x W: 86 x D: 21.2	Mixed	L6	Black nickel	11		
					£5.36	£58.96
: 86 x W: 86 x D: 21.2	Mixed	L7	Black nickel	1	£5.36	£5.36
- 05 W- 05 D- 24 - 2	A fire d		Developed alternative with an		13.50	10.00
: 86 x W: 86 x D: 21.2	Mixed	18	Brusnea chrome with gr	1	£6.33	£6.33
	Mixed	10	Black nickel	1		
	MACU	25	block meker	-	£13.25	£13.25
: 85 Dia: 85	Mixed	L10	Textured grey	6		
		220	interes groy		£56.99	£341.94
	Mixed	L11	White	10		
					£60.08	£600.80
	Mixed	L12	White	1	c242.20	(242.26
					£342.36	1342.30
	Mixed	L13	Black	5	£84.90	£424.50
: 86 x W: 86 x D: 21.2	Mixed	114	Rlack Nickol	4		
	MACU			-	£7.39	£29.56
	Mixed	115	Black	16		
		-	-		£32.00	£512.00
	Mixed	L16	Matt Black	3		
					£42.11	
					Total	£3,488.55

cost estimation

furniture	£181,943.93
doors and windows	£89,889.49
lighting	£3,488.55
finishes	£43,652.00

Total: £318,973.97

Cost of labour, demolition and construction will be determined by a quantity surveyor.

critical reflection.

Has this project met the brief?

"The Mycologist will house a fully circular mycelium production facility. From start to finish, the building will facilitate the growth of mushrooms, the production of mycelium, the design and manufacture of mycelium furniture and building materials, always considering the reuse of offset materials." - brief

The Mycologist has fulfilled its fully circular sustainable goal by:

- Growing mushrooms and produce on site to be used in the mycelium making process, restaurant and cafe.

- Two glasshouses were proposed on the south and west facing façades, taking advantage of natural features, sunlight and position of the building.

- Re-purposing or reusing offset materials, be it heat from the kilns used to warm the south facing glasshouse in winter months, or the waste grounds from the cafe reused as mycelium substrate

Has this project aligned with the concept?

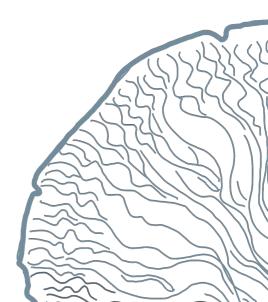
Rebirth

The concept has been shown through:

- The glasshouse extensions and balconies, the idea of plate mushrooms growing on the side of the building and giving it new life

- The undulating mezzanine floors inspired by mycelium infiltrating its way into the structure of the building

- Interior design features such as swirling ceiling details, wavy slatted timber walls, curved partition walls and rippling display shelving in the mycelium product showroom all mimic the fluid nature of mycelium, and the organic shape of the underside of a mushroom cap.



bibliography.

Front Page

Parenteau, L. (2021) Group of Small White Fuzzy Mushrooms on a Tree, Unsplash. Available at: https://unsplash.com/photos/TAu-EZrIE1M (Accessed: January 18, 2023).

Contents

The Heath Studio (2022) History, The Heath Studio. Available at: https://www.theheath.studio/contacts (Accessed: December 21, 2022).

Precedent Study Concept:

Eberth, C. (1972) Haus-Rucker-Co, Oase Nr. 7 . Germany.

Morcillo, F. (1972) Oase Nr.7, Arch Daily. Available at: https://www.archdaily.com/787926/1989-architectural-space-through-illustration/569e86d0e58eceb150000014-1989architectural-space-through-illustration-image (Accessed: 20 March 2023).

Ciuffi, V. (2019) FAR, Nilufar. Available at: https://nilufar.com/en/exhibition/far-2019 (Accessed: 20 March 2023).

Ortner, M. et al. (1972) Oasis No.7, Museum of Modern Art.

Strategies

Klarenbeek & amp; Dros (2018) Mycelium Chair, Ericklarenbeek. Available at: https://www.ericklarenbeek.com/ (Accessed: January 16, 2023).

Heatherwick Studios (2014) The Distillery, Heatherwick. Available at: https://www.heatherwick.com/project/bombay-sapphire-distillery/ (Accessed: December 29, 2022).

The Fosun Foundation Precedent Study:

Ghintoiu, L. (2017) The Fosun Foundation, Architects Journal. Architects Journal. Available at: https://www.architectsjournal.co.uk/buildings/heatherwick-and-foster-unwrap-bund-finance-centre-in-shanghai.

Ghinitoiu, L. (2019) Digital Representation Fosun Foundation, Parametric Architecture. Available at: https://parametric-architecture.com/bund-finance-centre-by-foster-partners-and-heatherwick-studio/ (Accessed: April 23, 2023).

Astbury, J. (2017) Architects Journal. Architects Journal. Available at: https://www.architectsjournal.co.uk/buildings/heatherwick-and-foster-unwrap-bund-finance-centre-in-shanghai (Accessed: April 23, 2023).

Look and Feel:

Kwan, M. (2021) MARGO Bar, Pinterest. Available at: https://www.pinterest.co.uk/pin/737464507751030702/ (Accessed: April 30, 2023).

Berarducci, C. (2016) Zen Sushi, Dezeen. Available at: https://www.dezeen.com/2016/09/14/call-for-entries-a-design-awards-competition-2017/ (Accessed: April 30, 2023).

Delius (2013) Paris Trip, D E L I U S. Available at: http://delius.egloos.com/4810752 (Accessed: April 30, 2023).

Riche, A. (2013) laboratoire de curiosites. Available at: https://laboratoiredecuriosites.tumblr.com/post/42795565630 (Accessed: April 30, 2023).

Duke & amp; Sons, . (2013) Duke & amp; Sons Leather inspiration, dukeandsons. Available at: https://dukeandsons.tumblr.com/post/66958416368 (Accessed: April 30, 2023).

McLaren, L. (2022) A to Z of Modern Living, The Modern House. Available at: https://www.themodernhouse.com/journal/architect-studio-mclaren-excell/ (Accessed: April 30, 2023).

Sam, K.& (2019) The Grove Glasshouse Restaurant & amp; Bar, Glass House Restaurant and Bar, Watford. Available at: https://kateandsam.co.uk/portfolio/glasshouse/ (Accessed: April 30, 2023).

Ashley, . (2013) Back to Nature, Glamour Planner. Available at: https://glamourplanner.wordpress.com/2013/09/13/back-to-nature/ (Accessed: April 30, 2023).

Viramonte, G. (2021) Famiglia Ice Cream Shop, Amazing Architecture. Available at: https://amazingarchitecture.com/restaurant/famiglia-ice-cream-shop-in-cordoba-argentina-by-set-ideas# (Accessed: 01 May 2023).

The Heath Studio (2022) The Heath Studio. Available at: https://www.theheath.studio/ (Accessed: December 21, 2022).

Beppe Brancato (2022) Wall and Lights, Beppe Brancato. Available at: https://www.beppebrancato.com/archivio (Accessed: 09 May 2023).

Interior Architects (2022) Advisors Office, Interior Architects. Available at: https://interiorarchitects.com/projects/01-advisors/ (Accessed: 01 May 2023).

HDP Photography (2022) Langham Beauty Linehouse, Arch Daily. Available at: https://www.archdaily.com/984471/langham-beauty-linehouse (Accessed: 01 May 2023).

Matrix (2021) Wuxi CITIC Pacific Jinchen Sales Office and Clubhouse. Available at: https://www.om.cn/community/datum/detail/13007.html (Accessed: 01 May 2023).

Ary (2023) XAL. Available at: https://www.xal.com/en/ary (Accessed: 01 May 2023).

Lendager Group (2015) Copenhagen Towers, Danish Design Awards. Available at: https://danishdesignaward.com/en/arkiver/nominee/copenhagen-towers (Accessed: 01 May 2023).

thestandingdesk (2021a) The Standing Desk, Unsplash. Available at: https://unsplash.com/photos/frGKNJe4sHY (Accessed: 01 May 2023).

thestandingdesk (2021b) The Standing Desk, Unsplash. Available at: https://unsplash.com/photos/frGKNJe4sHY (Accessed: 01 May 2023).

Airhart, S. (2019) Amazon Spheres, World Landscape Architect. Available at: https://worldlandscapearchitect.com/the-spheres-exploring-biophilia-in-the-modern-workplace/?v=79cba1185463 (Accessed: 01 May 2023).

Hilton, M. (2023) Dulwich, Case. Available at: https://casefurniture.com/products/dulwich-round-extending-table?variant=43524946886883&gclid=CjwKCAjwo7iiBhAEEiwAsIxQES Kf9kXkcOhvJC-vSaaeN9qcf42nQTJm8JRECzfHcoFO6AyKsM_erRoCTQsQAvD_BwE (Accessed: 01 May 2023).

Shurpenkov, A. (2020) Par Bar 3. Available at: https://www.archdaily.com/950555/par-bar-3-yodezeen-studio/5f9b6d8a63c01726a80001e5-par-bar-3-yodezeen-studio-photo (Accessed: 01 May 2023).

La Brea Affordable Housing (2014) Arch Daily. Available at: https://www.archdaily.com/557785/la-brea-affordable-housing-patrick-tighe-john-v-mutlow/543f11c8c07a80762d000304-la-brea-affordable-housing-patrick-tighe-john-v-mutlow-photo?next_project=no (Accessed: 01 May 2023).

Blast Studios (2022) Tree Column, Dezeen. Available at: https://www.dezeen.com/2022/01/18/blast-studio-tree-column-mycelium-design/ (Accessed: 01 May 2023).

Ghinitoiu, L. (2017) Fosun Foundation, Archilovers. Available at: https://www.archilovers.com/projects/208820/fosun-foundation-gallery?1916627 (Accessed: 01 May 2023).

Enjoydesign (2022) Gemdale Darbin Upview Sales Centre, SBIB Design Awards. Available at: https://www.sbidawards.com/finalist/gemdale-harbin-upview-sales-center/ (Accessed: 01 May 2023).