



PORTFOLIO

ARCHITECTURE PORTFOLIO

By Amy Galea

University of Huddersfield
2021-2024

AMY MARIE GALEA

RIBA PART 1 ARCHITECTURE STUDENT

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E-Mail : agalea.architecture@gmail.com
Linkedin : www.linkedin.com/in/amy-galea
Instagram : @architecture_amygalea

ABOUT ME:

I am working part time at Park Designed Architects while in my third year of studies, engaging in various projects. My background in gymnastics coaching enhanced my planning, organization, and communication skills. Awards and exhibitions reflect my enthusiasm, drive, and ability to communicate visually in professional exhibitions.

EMPLOYMENT:

- 09/2023 - PRES **Parkdesigned Architects: Architecture Intern**
(1 day a week)
After 1 week of work experience, I was offered the position to work 1 day a week along side third year studies.
- Working on numerous on going projects
 - Worked on Design and Access, planning application and other documents
- 2023/06-2023/09 **Halfords: Sales advisor (Part-time)**
- 2022 - PRES **UoH, Huddersfield, UK: Student Ambassador**

QUALIFIED GYMNASTICS COACH:

- 2021 - 2022 **North Star Gymnastics Club, Huddersfield**
Level 2 WAG Gymnastics coach
- The responsibility to open and lock up the gymnastics club along with plan and lead competitive gymnastics classes.
- 2018 - 2021 **Leeds Rebound Gymnastics club, Leeds**
Level 1 WAG Gymnastics coach

OTHER EXPERIENCE:

- 29th Feb - 1st March **Contextualised Digital Heritage Workshop**
- Collaborated with professionals from York archaeology and various other disciplines.
 - Mind mapping analysing and brainstorming how digital tools can aid Barely Hall York tackle issues related to accessibility.
- 2022 - 2024 **UoH, Huddersfield, UK:**
Secretary of the Architecture Society
- 12th April 2022 **The Live Site Project: At The Hope Foundry - Leeds**
- 2 Weeks - 2018 **Fusion By Design-Interior Design Company:**
2 week experience

AWARDS:

- 2023 **Norman Culley Book Prize**
Tutor's Award for Overall Performance
- 2022 **Tutors award for Engagement,**
Enthusiasm & Drive

EXHIBITIONS:

- 2024 **Cultures of Creative Health**
Selected to Exhibit my Year 2 work
- 2023 **Graduate Show**
Selected to Exhibit my Year 2 work
- 2022 **(Re)Imagining Huddersfield's Narratives**
Selected to Exhibit my Year 1 work

EDUCATION:

- 2021 - PRES **UoH, Huddersfield, UK:**
BA (Hons) Architecture (RIBA)
Recieved - 1st class grade in YR1 &2
- 2019 - 2021 **Leeds Art University:**
Extended Diploma in Art and Design (3D)
Received - Distinction
- 2014 - 2019 **Horsforth High Academy:**
GCSE (Passed all 9; Fine art - 8, Maths - 6, English - 5)

REFERENCES: (Can provide more if needed)

DIGITAL SKILLS:

Auto CAD
Rhino 3D
Adobe Creative Cloud
Microsoft Software
Procreate

SKILLS:

Teamwork
Organisation and planning
Communication
Drive and motivation
Attention to detail
Punctual
Creative thinking
Problem solving
Model making

INTERESTS:

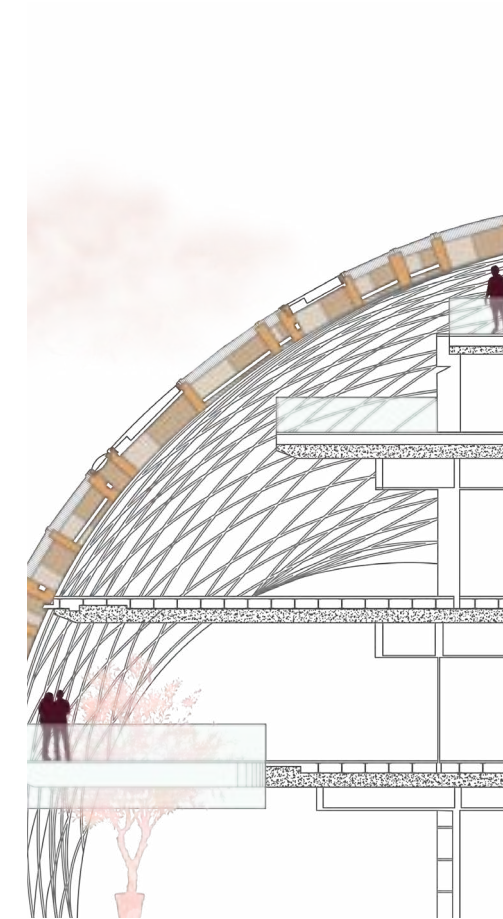
Art (Drawing, Painting)
The architecture of Game of thrones & other films/series
Set design
Travelling experiencing different cultures
Gymnastics

CONTENTS

FRESH FOOD MUNICIPAL MARKET, GARDENS AND CULINARY EDUCATIONAL FACILITY 01



TECHNOLOGY STUDY 02



HUDDERSFIELD FOOD AND STUDY CENTRE 03



TECHNOLOGY STUDIES 04



MARSH ARTS AND COMMUNITY CENTRE 05



OTHER WORKS 06

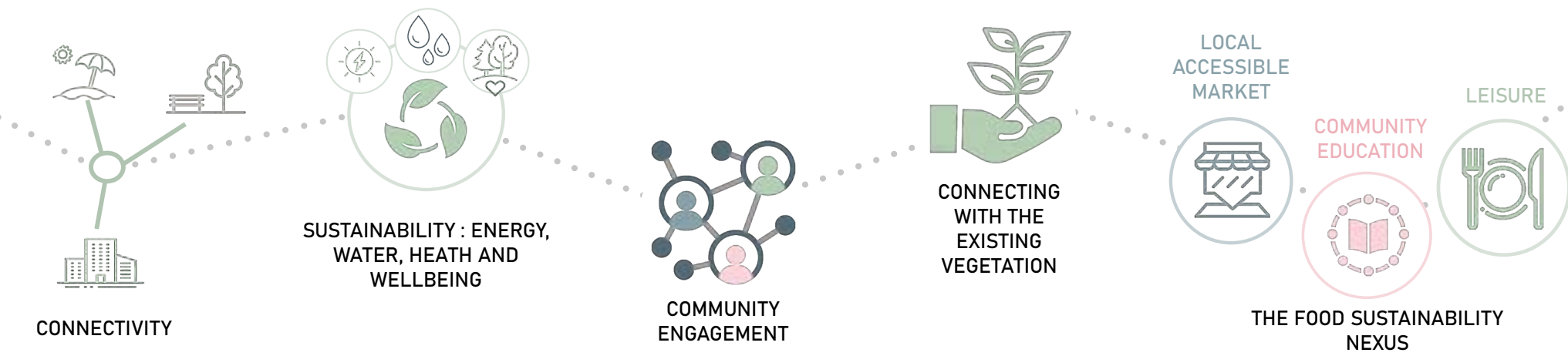
'THE DRAMA OF THE INBETWEEN'



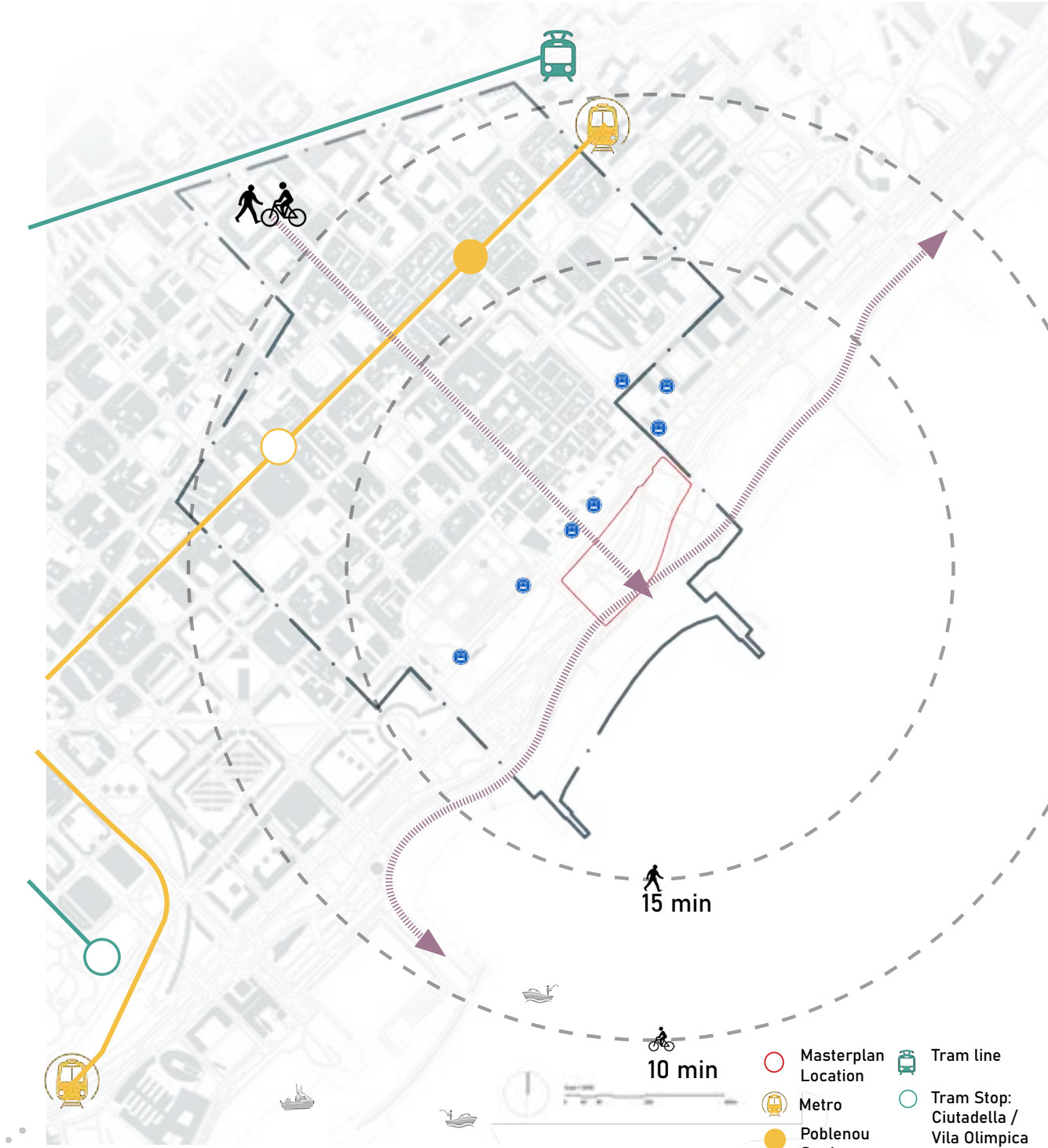
01 THE GATEWAY NEXUS

A GATEWAY TO UNITING **TRADE**, **EDUCATION** AND **LEISURE** IN PURSUIT OF FOOD SUSTAINABILITY

Year : 2024
Project Location: Spain, Barcelona, El Poblenou
Typology: Individual Design Studio project
Software Used: Rhino 3D with Grasshopper, Adobe & AutoCAD



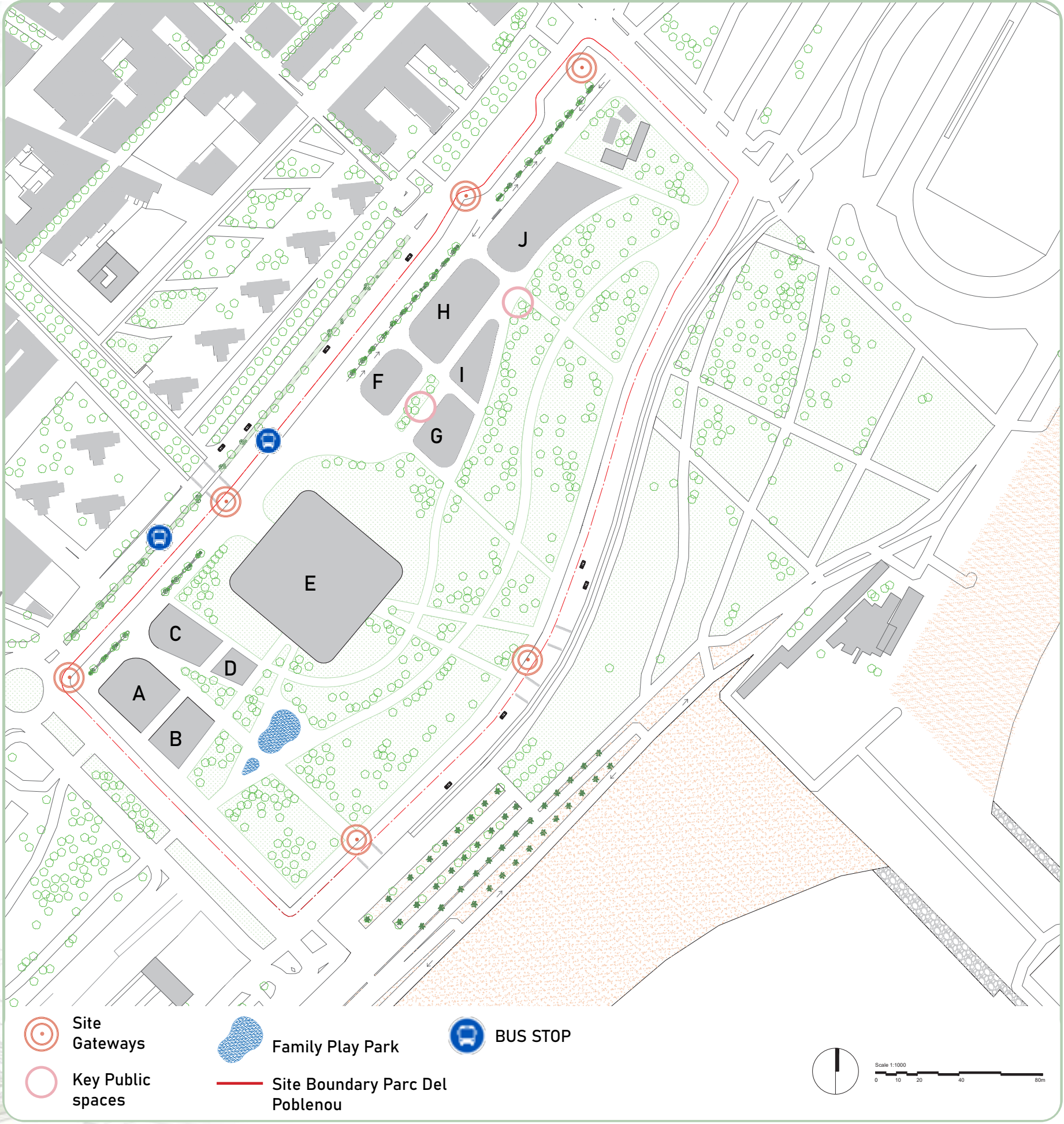
EL POBLENOU COASTAL COMMUNITY EXTENSION: MASTER PLAN

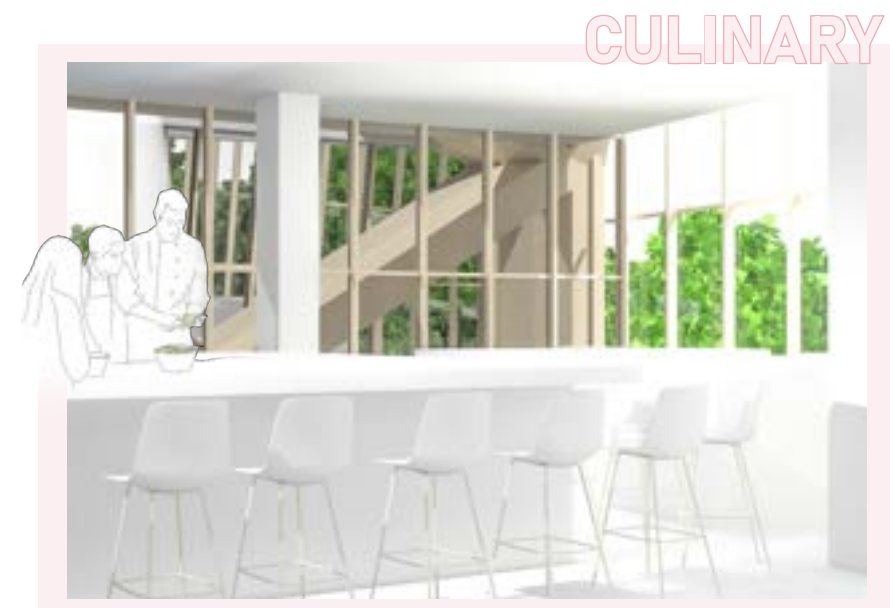
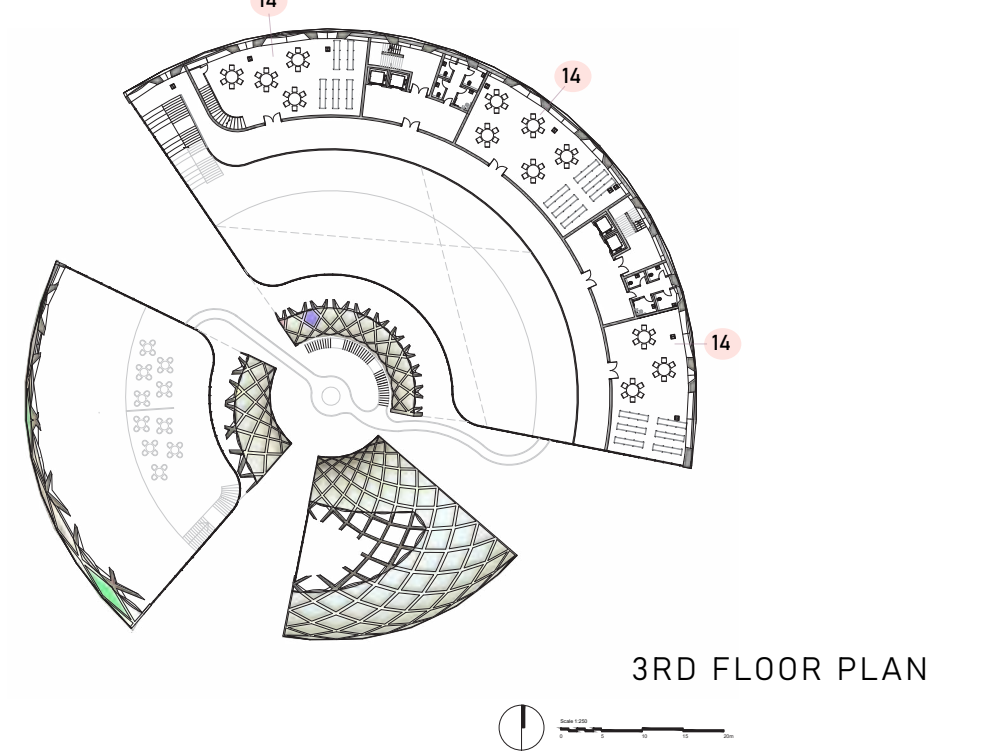
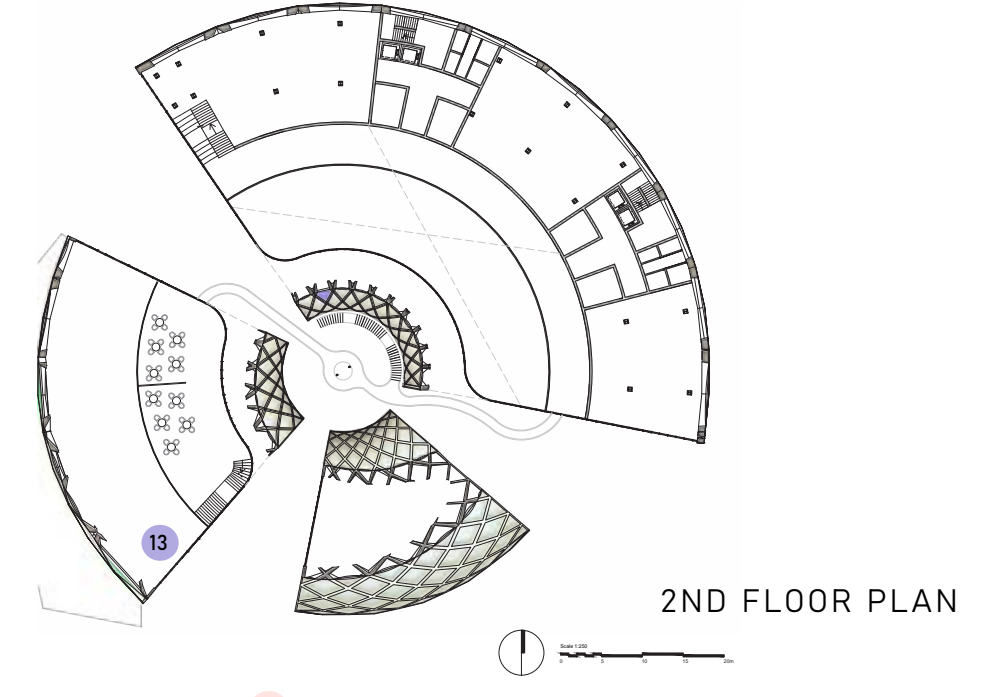
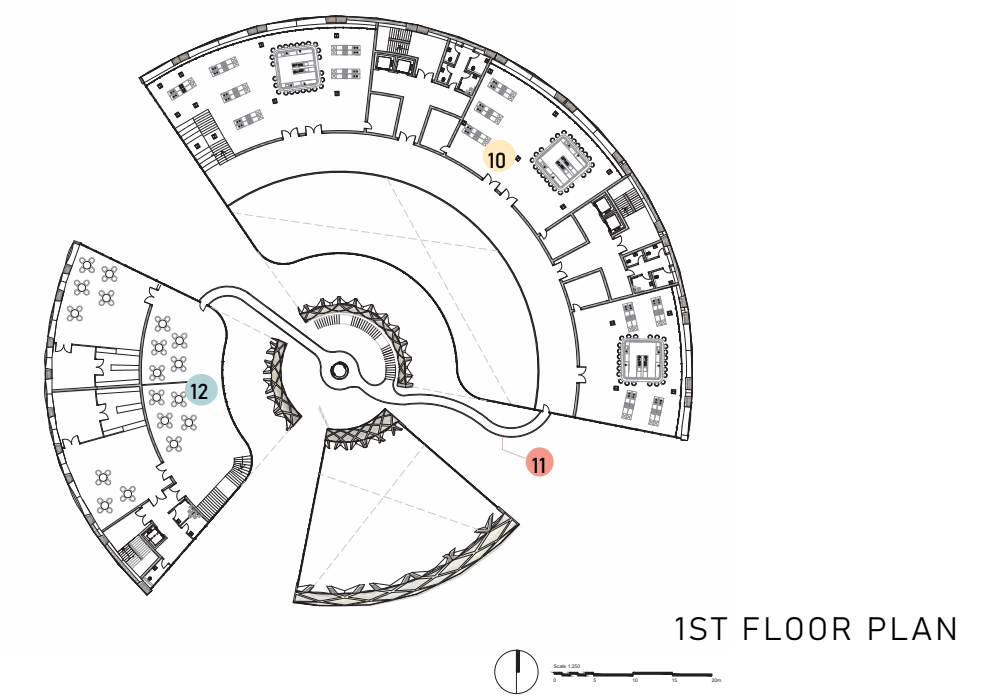
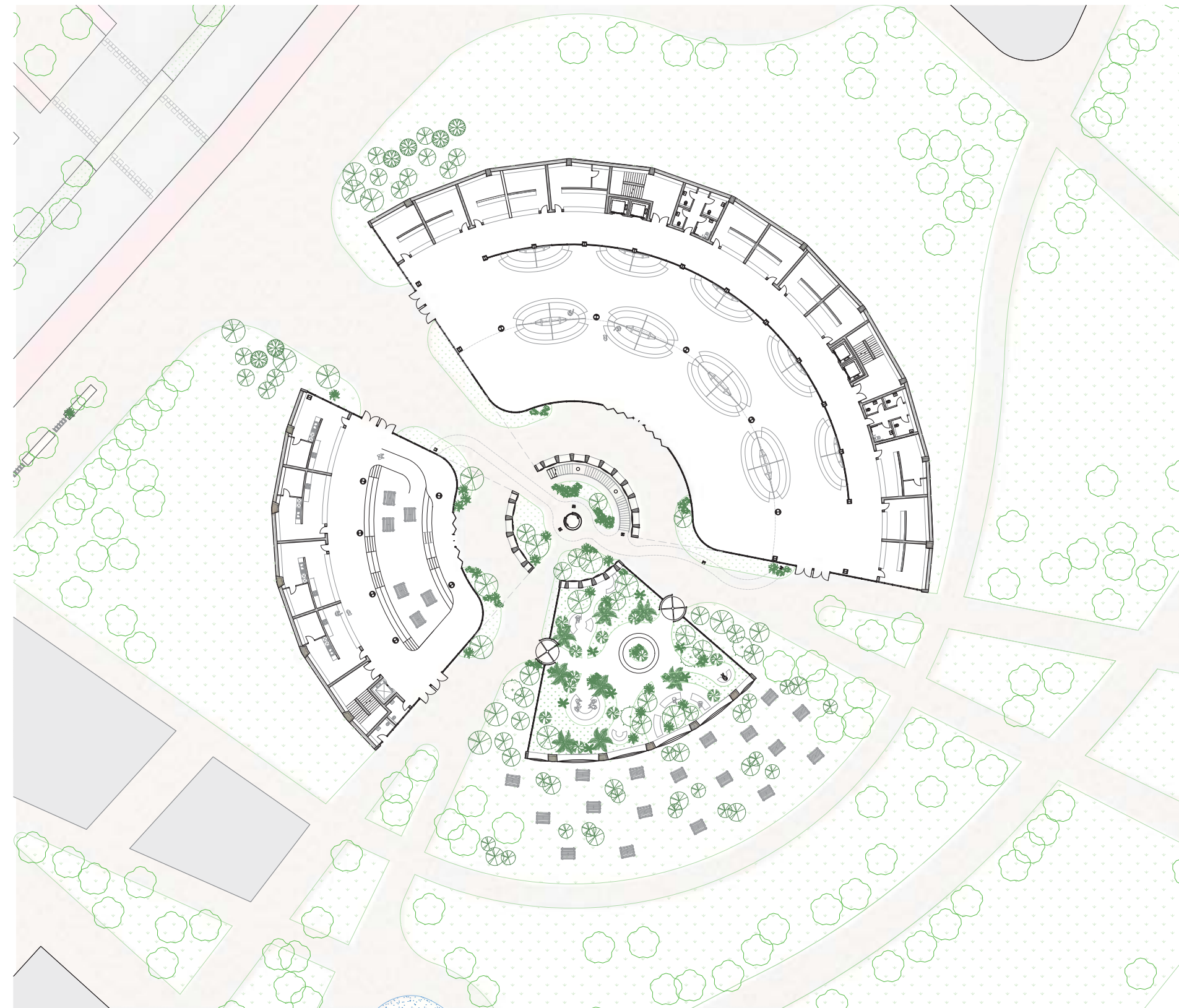


PART OF AN EL POBLENOU COASTAL MASTERPLAN



PROPOSED



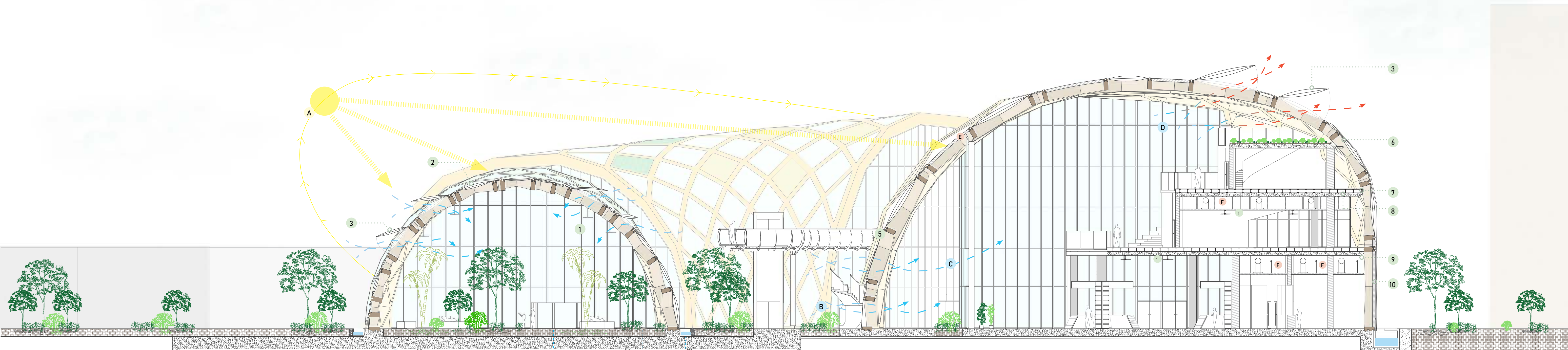


KEY

1 VEG MARKET STALLS, FLEXIBLE SPACE	10 CULINARY WORKSHOPS
2 MEAT AND FISH STALLS	11 CONNECTING BRIDGE
3 FOOD COURT STALLS	12 SMALL RESTAURANTS
4 FOODCOURT SEATING	13 EXTRA SEATING FOR THE RESTAURANTS - hire-able flexible space
5 INDOOR GARDEN SPACE	14 GARDENING WORKSHOPS: Hire-able for other purposes

Scale 1:200

GROUND FLOOR



ENVIRONMENTAL FACTORS

- A** Sun piecing the Indoor Garden , and being captured by the solar panels
- B** Perforated panels to allow for ventilation to pass through the facade envelope
- C** Mechanical windows within the Curtain wall , operable to allow for ventilation to pass through.

- D** Natural ventilation, coming through from the south prevailing wind.
- E** Solar Panels - BIVP
- F** Suspended ceiling allows for mechanical systems.
- Natural ventilation

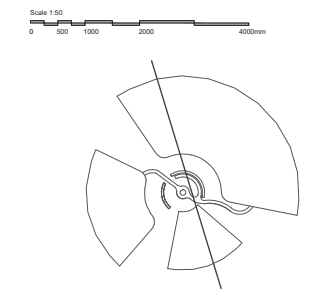
TECHNOLOGY KEY

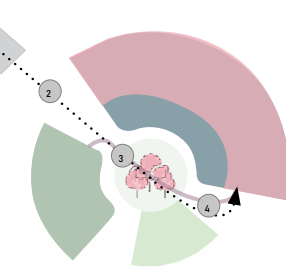
- 1** ELECTRIC FAN
- 2** ETFE PANEL: External ETFE foil, Plywood Frame Internal ETFE foil, Transparent
- 3** OPEN-ABLE ETFE PANEL: External ETFE foil, Plywood Frame Internal ETFE foil fritted

- 4** RAIN WATER RECYCLING SYSTEM: To power sprinklers
- 5** PERFORATED ALUMINIUM PANEL
- 6** MASS TIMBER CONSTRUCTION: SPRUCE GLUELAM - 220x845mm

- 7** RAISED FLOORING
- 8** CONCRETE CONSTRUCTION
- 9** SUSPENDED CEILING: With HVAC systems, sprinklers, lighting and other services

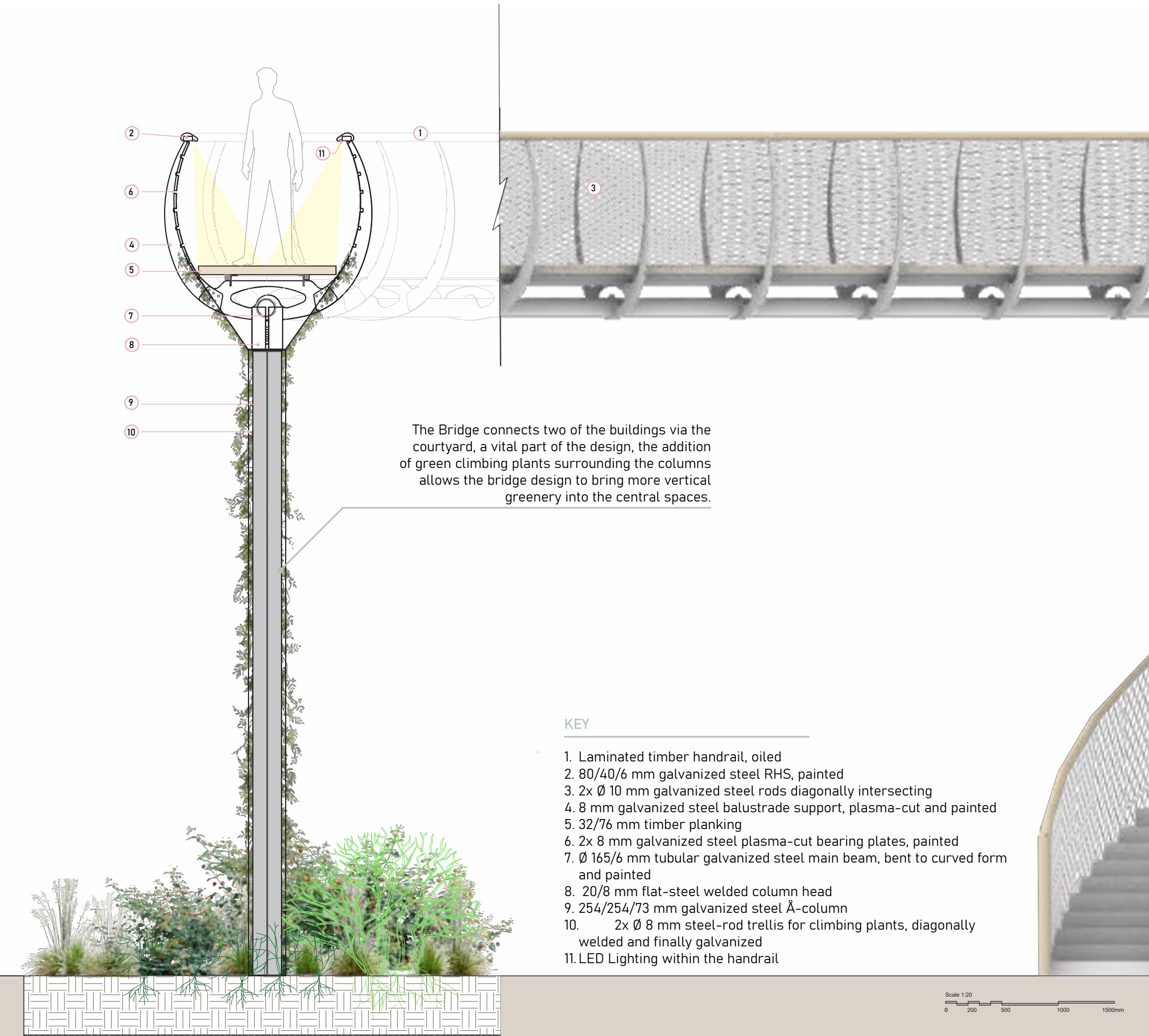
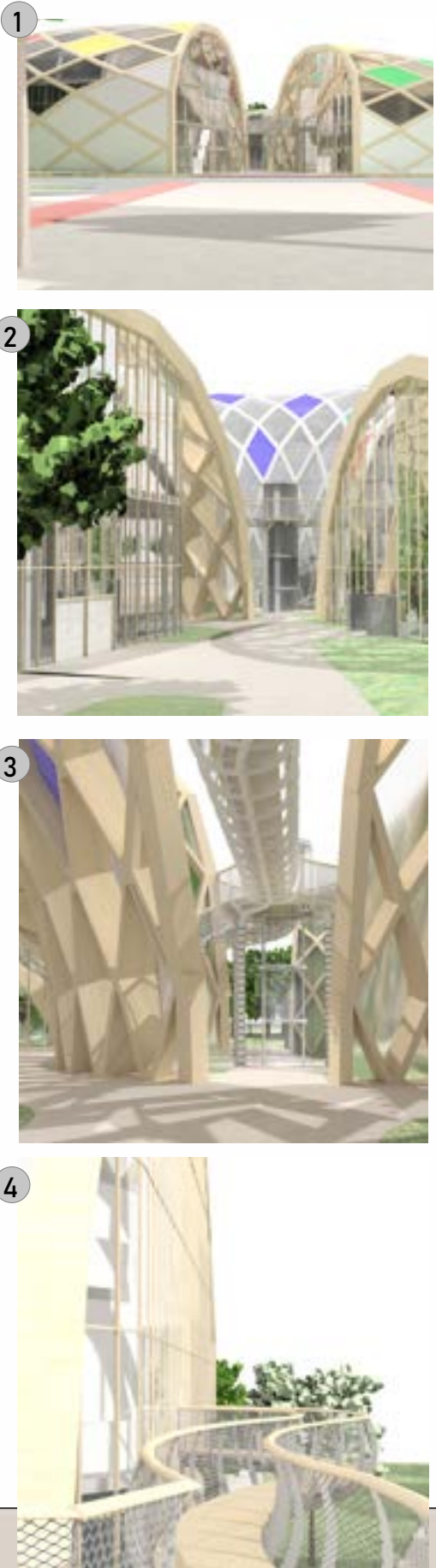
- 10** SOLID PANEL: FPO Membrane Wood-Fibre Insulating Board 3-Layer Board





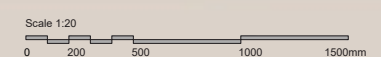
BRIDGE - THE CONNECTOR

'THE DRAMA OF THE INBETWEEN'



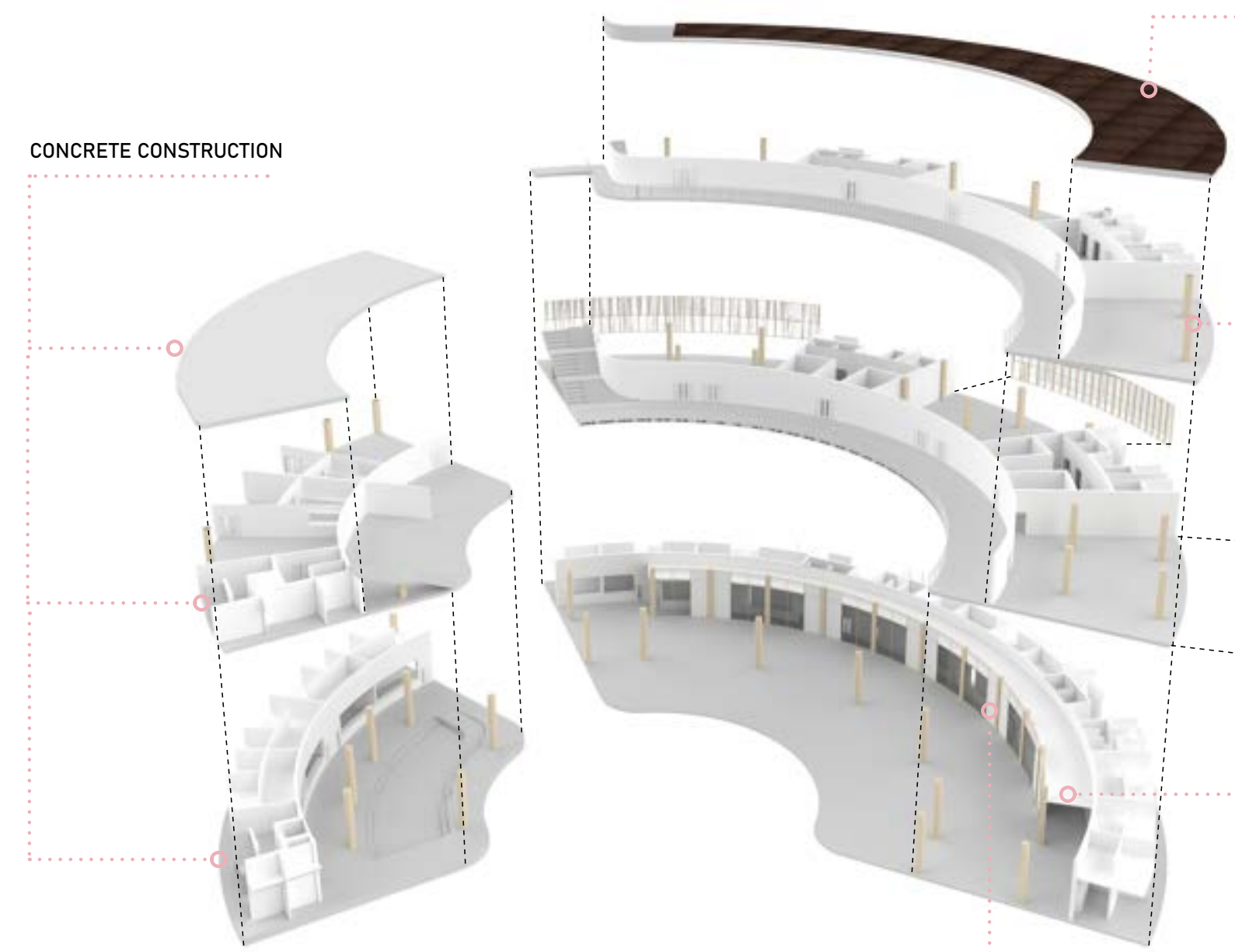
KEY

1. Laminated timber handrail, oiled
2. 80/40/6 mm galvanized steel RHS, painted
3. 2x Ø 10 mm galvanized steel rods diagonally intersecting
4. 8 mm galvanized steel balustrade support, plasma-cut and painted
5. 32/76 mm timber planking
6. 2x 8 mm galvanized steel plasma-cut bearing plates, painted
7. Ø 165/6 mm tubular galvanized steel main beam, bent to curved form and painted
8. 20/8 mm flat-steel welded column head
9. 254/254/73 mm galvanized steel A-column
10. 2x Ø 8 mm steel-rod trellis for climbing plants, diagonally welded and finally galvanized
11. LED Lighting within the handrail



PRIMARY STRUCTURE

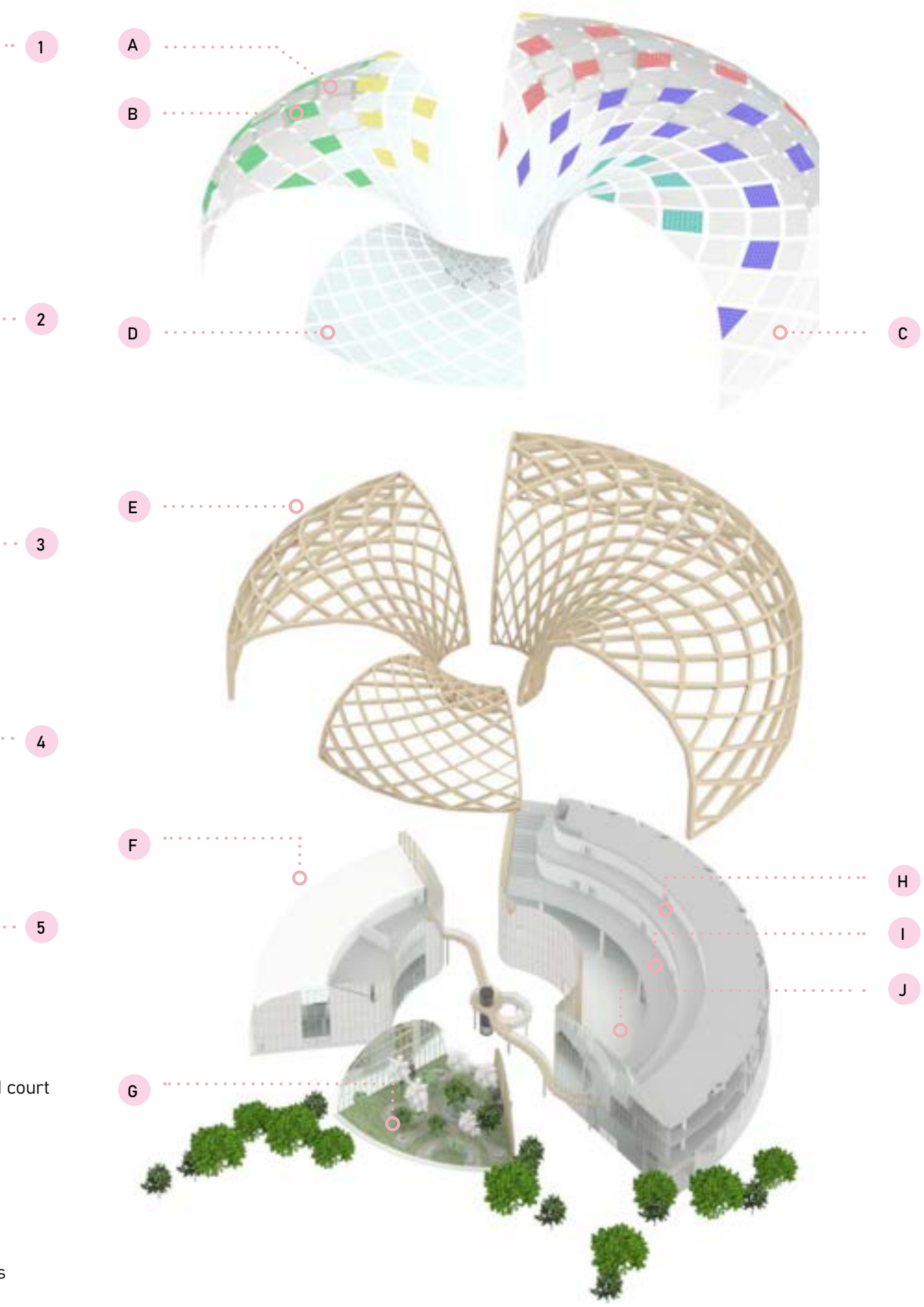
CONCRETE CONSTRUCTION



PRIMARY STRUCTURE KEY

- 1 EXTENSIVE LIVING ROOF
- 2 COLUMNS : Encased steel i beams with a timber aesthetic finish
- 3 CURTAIN WALL :
The curtain wall on the floor is to allow the space to be sealed off having its own ventilation system , so that the cooking smells can be contained.
- 4 SUSPENDED CEILING:
Holding mechanical systems, lights, air-con, and ventilation systems.
- 5 CURTAIN WALL:
This curtain wall separates the Meat and Fish stalls from the Veg and other stalls.

SECONDARY STRUCTURE



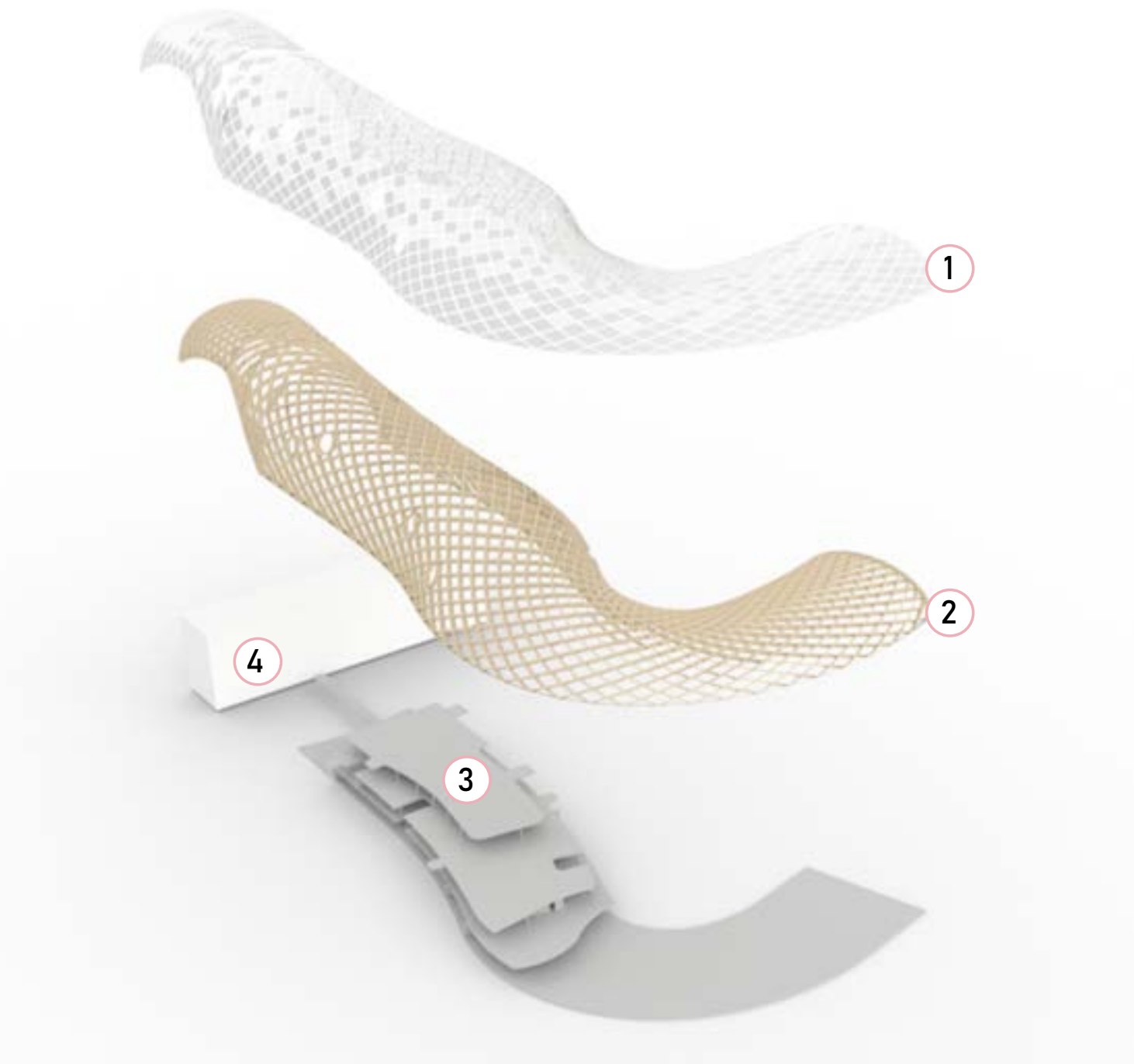
SECONDARY STRUCTURE KEY

- FACADE
 - A Etfе with fritting
 - B Bivp: with smart nanophotonic coating
 - C Solid panels
 - D Etfе
- MASS TIMBER CONSTRUCTION
 - E Gluelam Timber Diagrid
- LEISURE
 - F Restaurants and food court
 - G Indoor Gardens
- LOCAL TRADE:
 - H Indoor local Market
- EDUCATION:
 - I Culinary workshops
 - J Gardening workshops

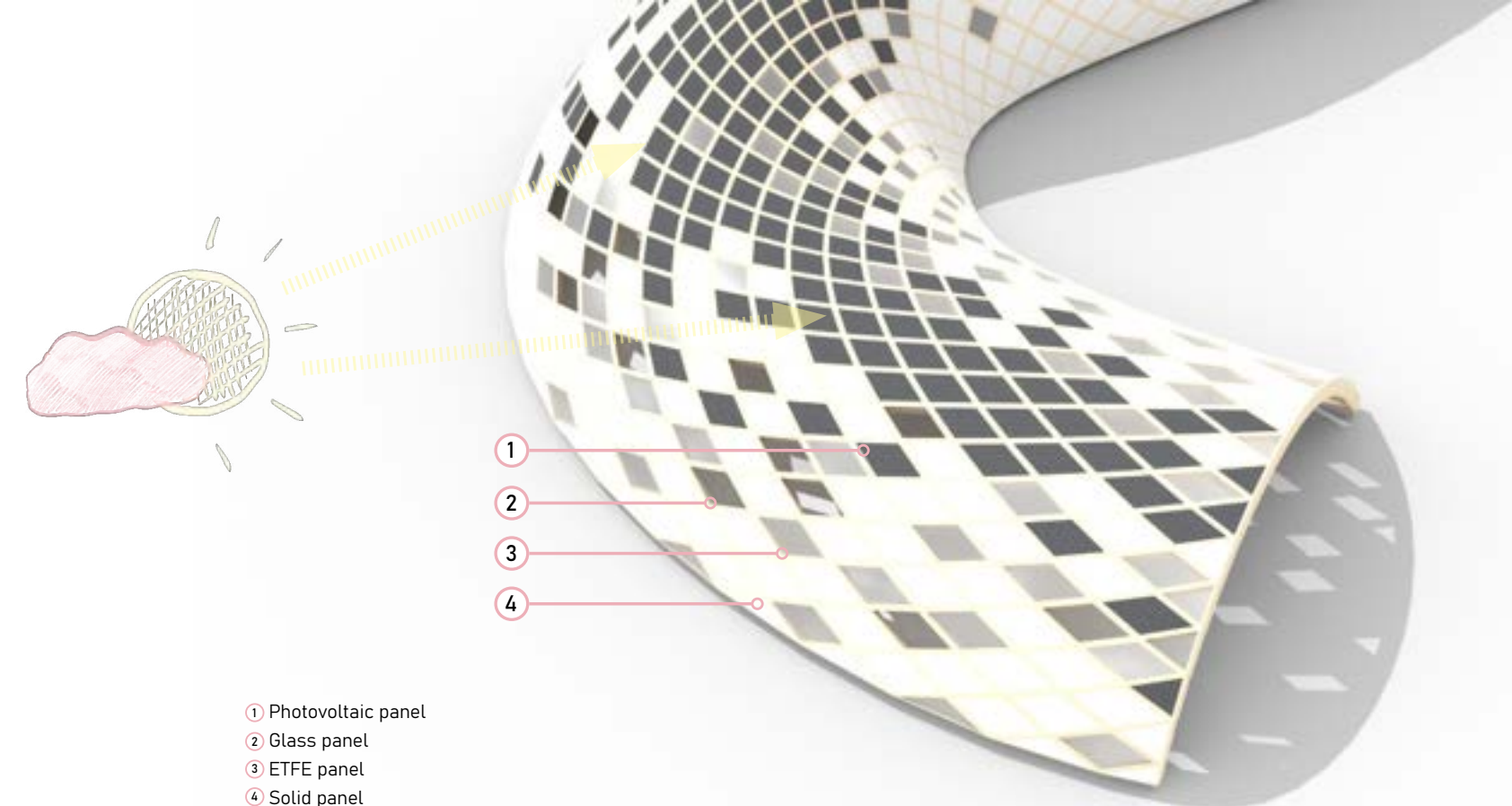
02 SWATCH OMEGA HEADQUATER, BIENNE, SWITZERLAND

Year: 2024, In progress
Typology: Individual Technology Case study
Software Used: Rhino 3D, Adobe & AutoCAD

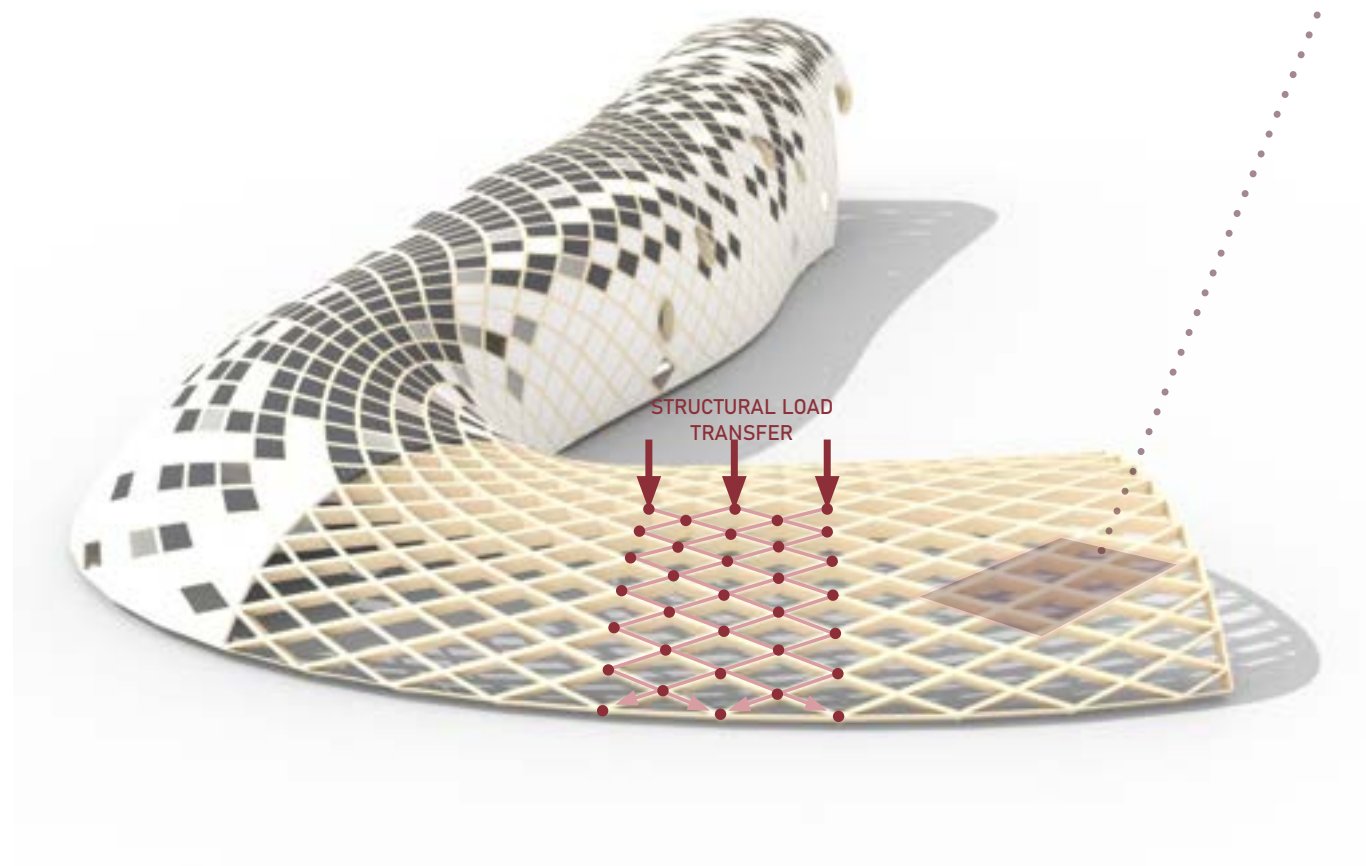
Project introduction: A detailed case study analysis of mass timber construction, researching to inform current design studio project.



- 1 FACADE
- 2 MASS TIMBER CONSTRUCTION
- 3 SWATCH HEADQUATERS
- 4 OMEGA MUSEUM

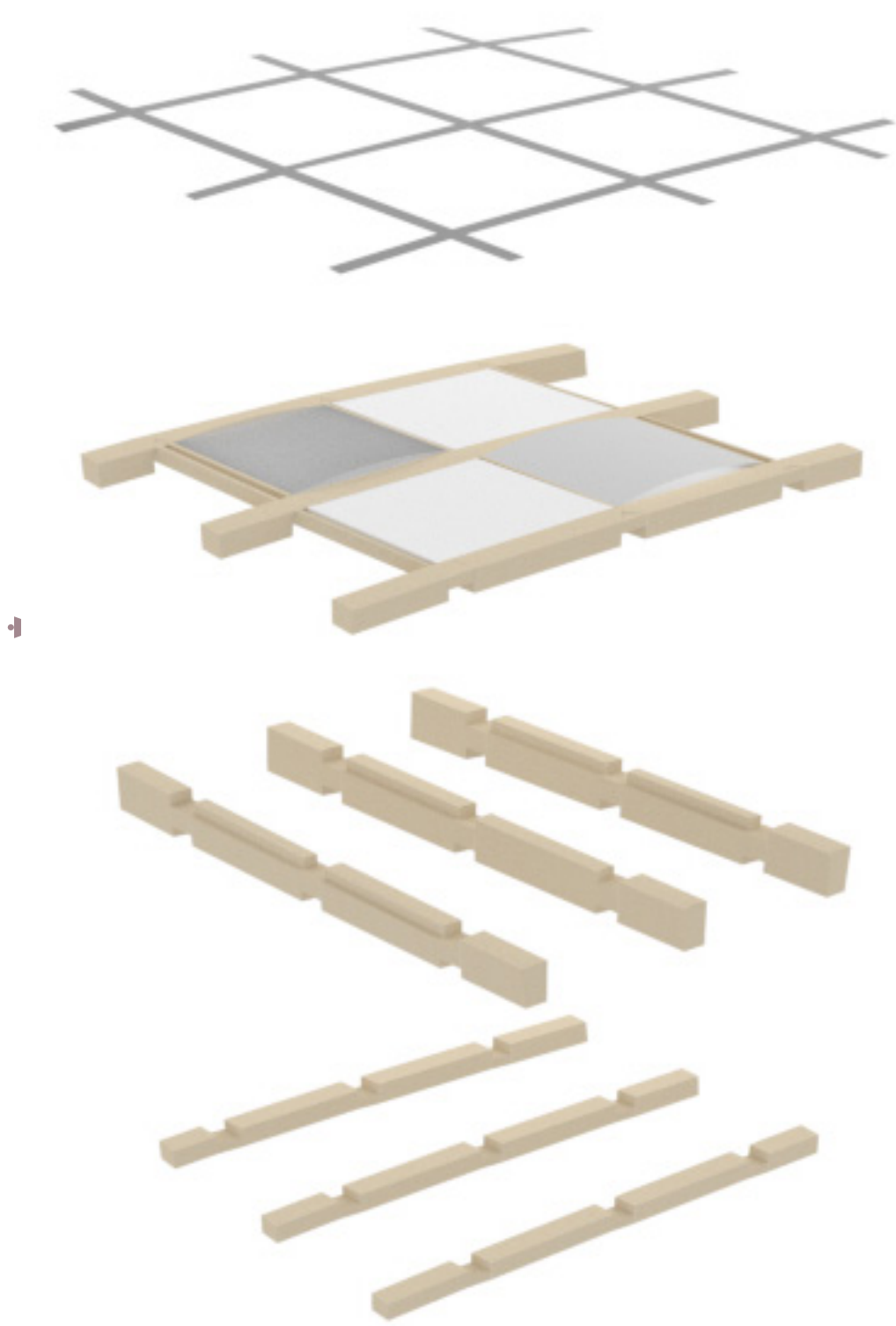


- 1 Photovoltaic panel
- 2 Glass panel
- 3 ETFE panel
- 4 Solid panel



MASS TIMBER CONSTRUCTION

EXPLODED DETAIL



DETAILED SECTION

MASS TIMBER CONSTRUCTION:

SPRUCE GLUELAM - 220x845mm

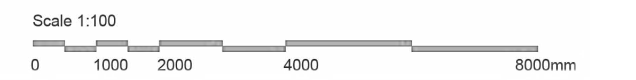
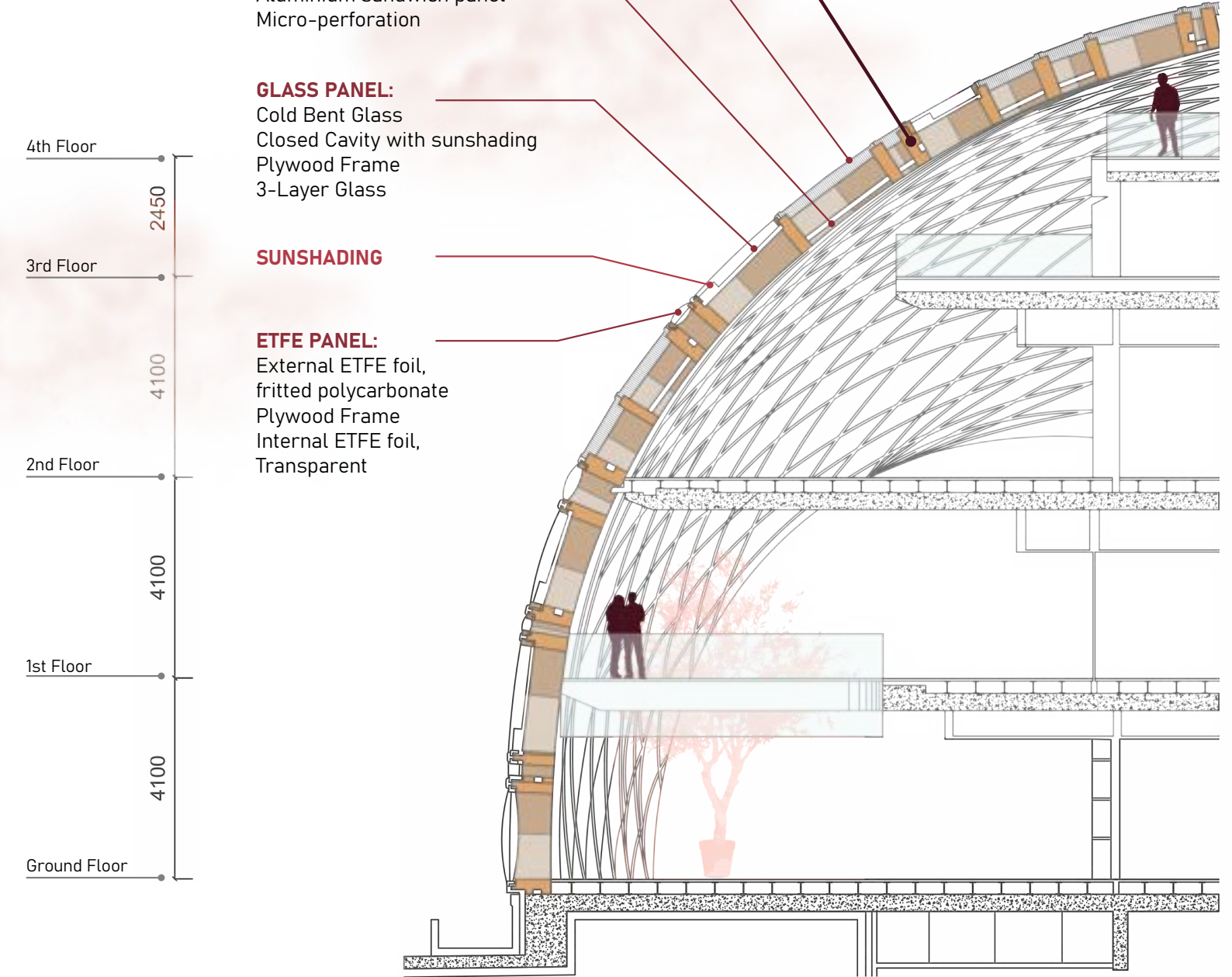
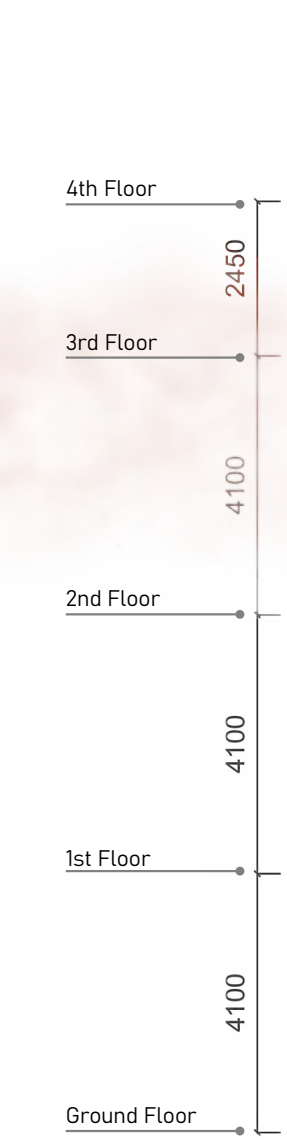
SOLID PANEL:
 FPO Membrane
 Wood-Fibre Insulating Board
 3-Layer Board

COOLING PANEL:
 Aluminium sandwich panel
 Micro-perforation

GLASS PANEL:
 Cold Bent Glass
 Closed Cavity with sunshading
 Plywood Frame
 3-Layer Glass

SUNSHADING

ETFE PANEL:
 External ETFE foil,
 fritted polycarbonate
 Plywood Frame
 Internal ETFE foil,
 Transparent

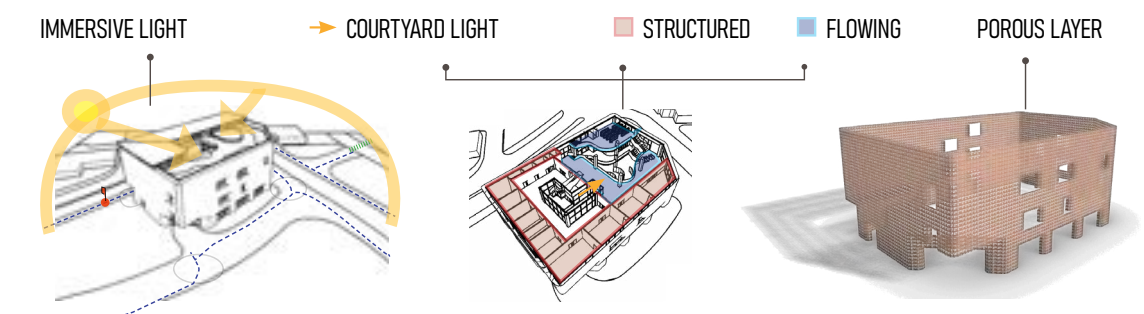




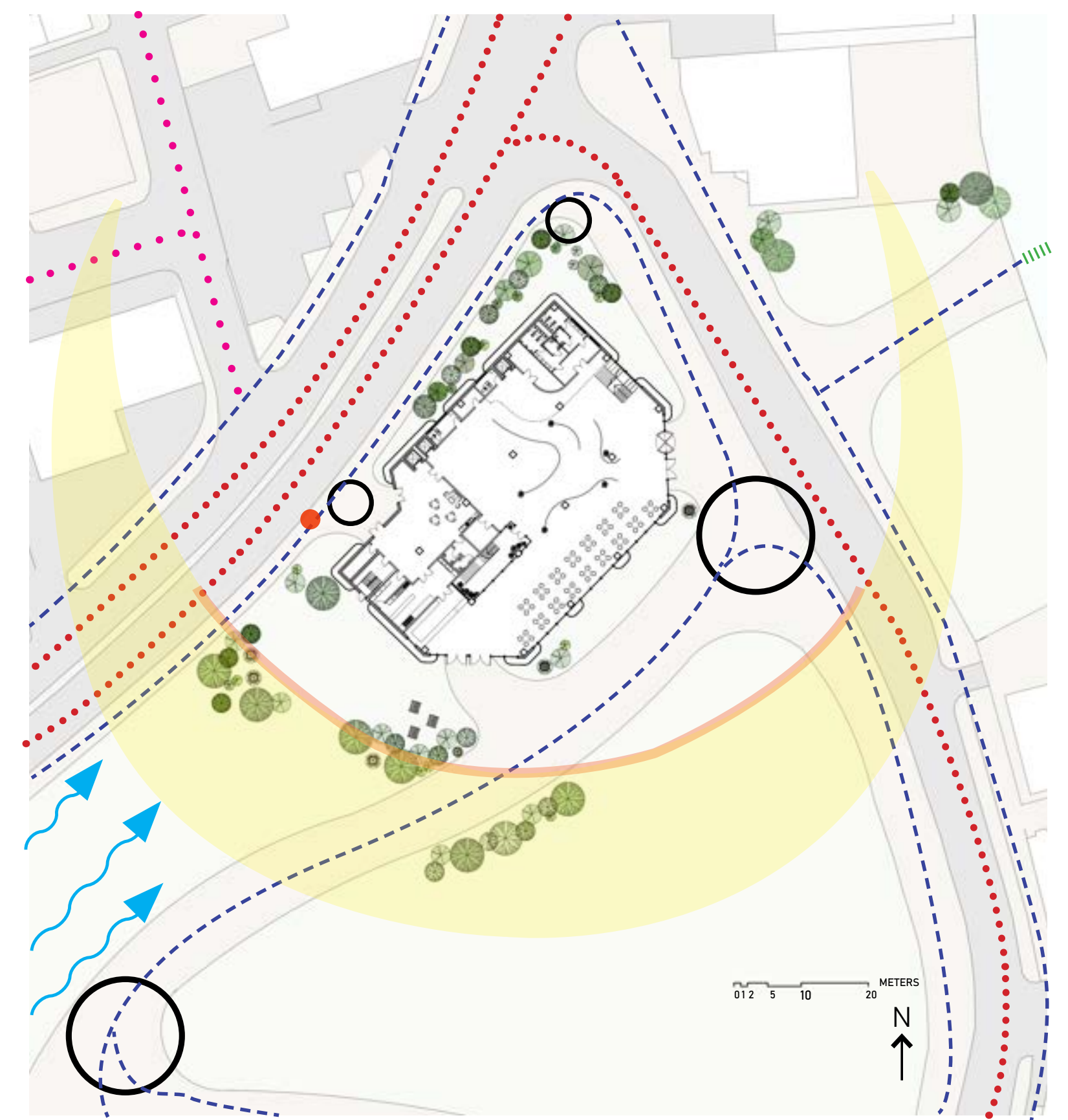
03 HUDDERSFIELD FOOD AND STUDY CENTRE

Year: 2023
Project location: Huddersfield town centre
Typology: Individual Design Studio project
Software Used: Rhino 3D, Adobe & AutoCAD

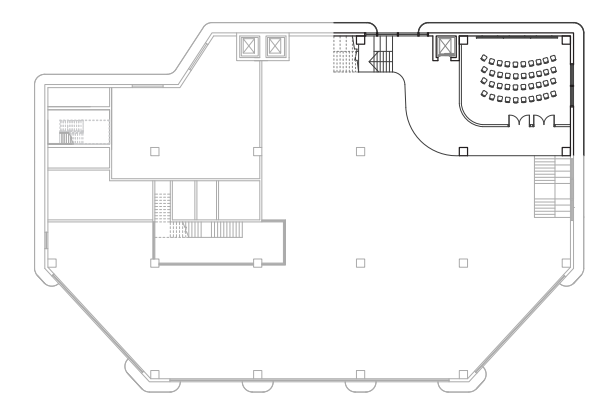
Project introduction: Setting an example for the future, and educating the following generations, both in food and architecture. Thinking about the necessities food, plants and animals need and translating it into an architectural language. Connecting to the heart of our planet, grasping influence from the site and food research, to create a unique, inspirational food research centre.



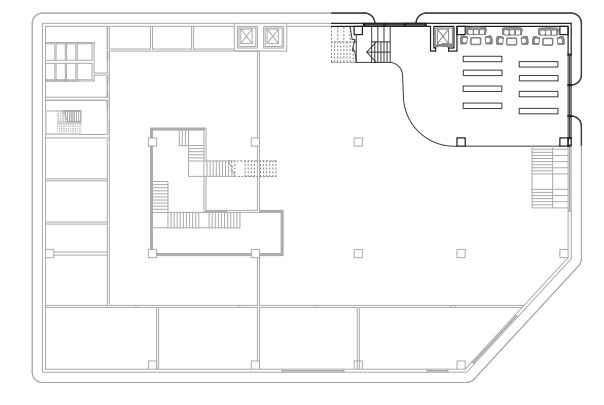
DESIGN STRATEGY PLAN



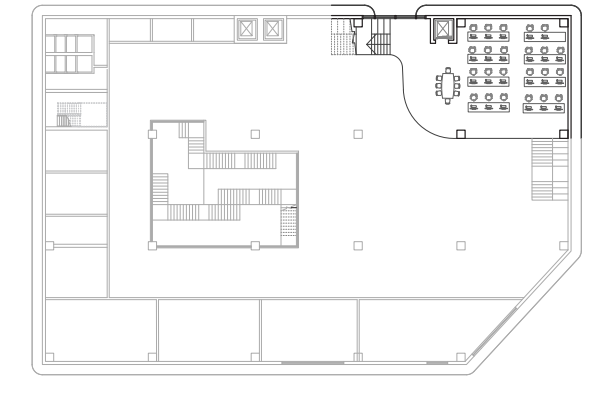
- Minor motorised movement
- Major motorised movement
- Nodes
- Winter sun
- Prevailing wind
- Bus stop
- - - Pedestrian movement
- Summer sun



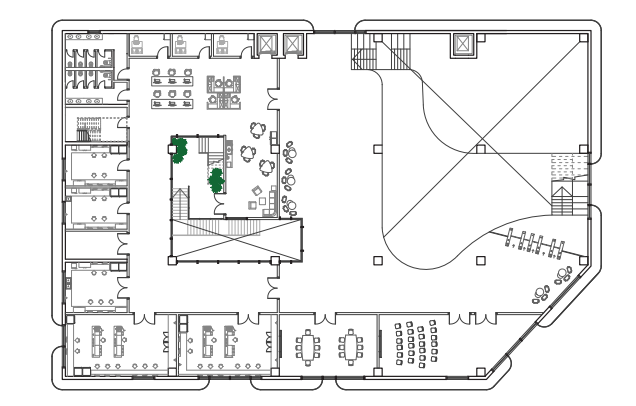
MEZZANINE 1



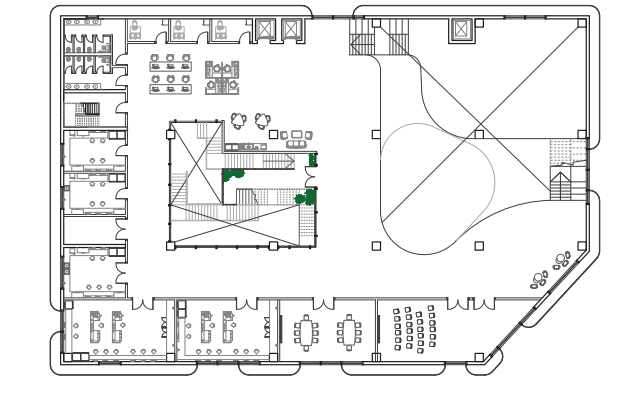
MEZZANINE 2



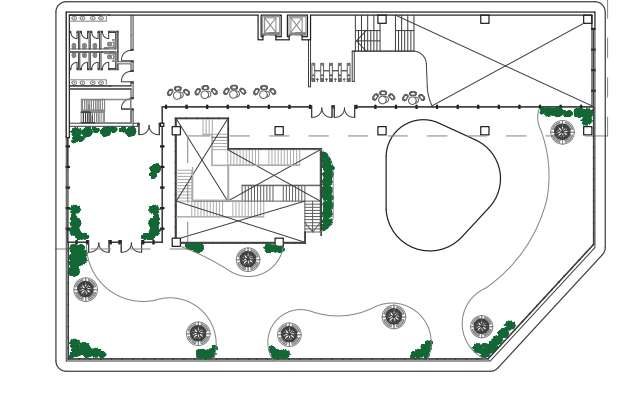
MEZZANINE 3



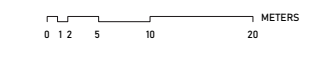
1st FLOOR



2nd FLOOR



3rd FLOOR





CAFE SEATING

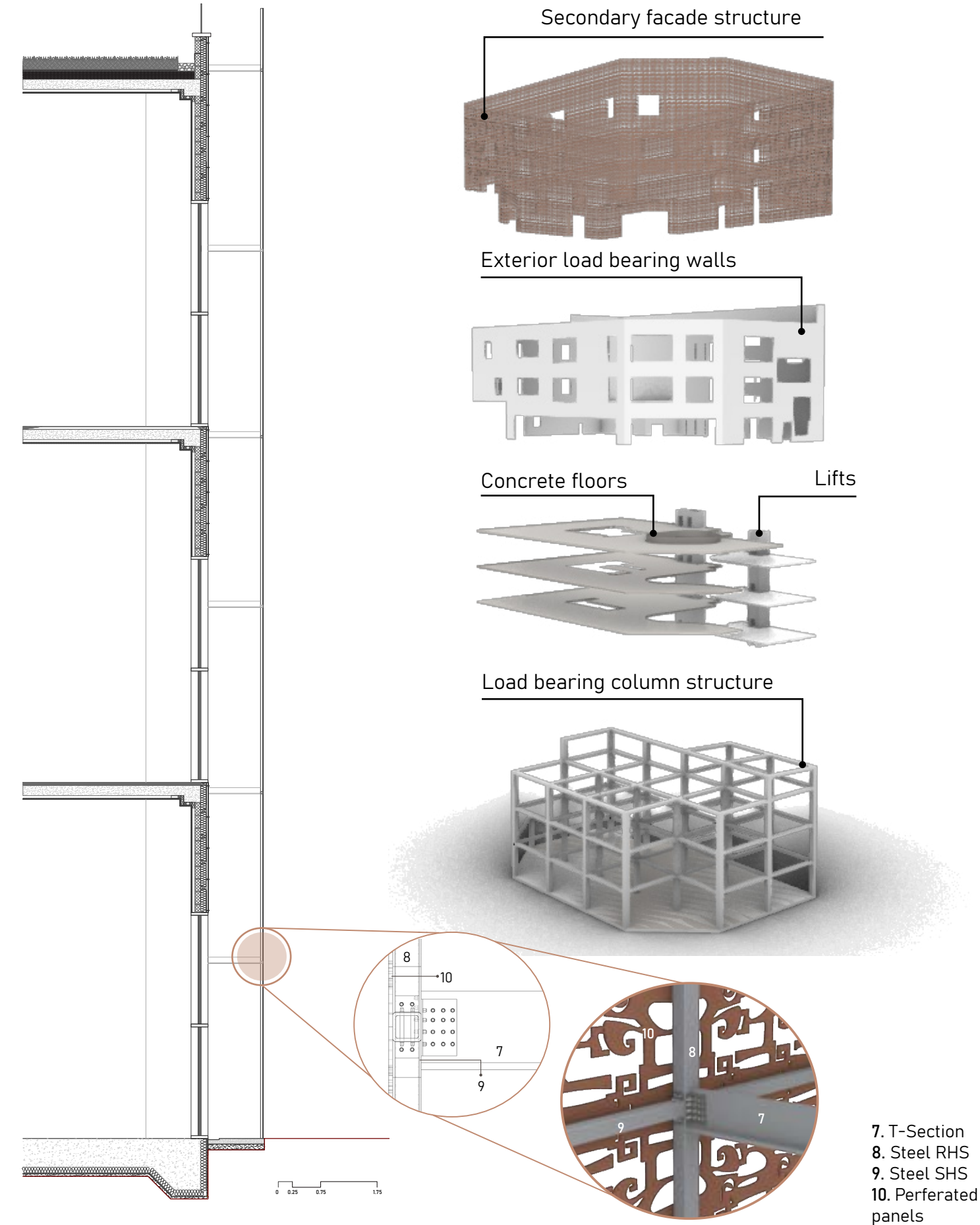
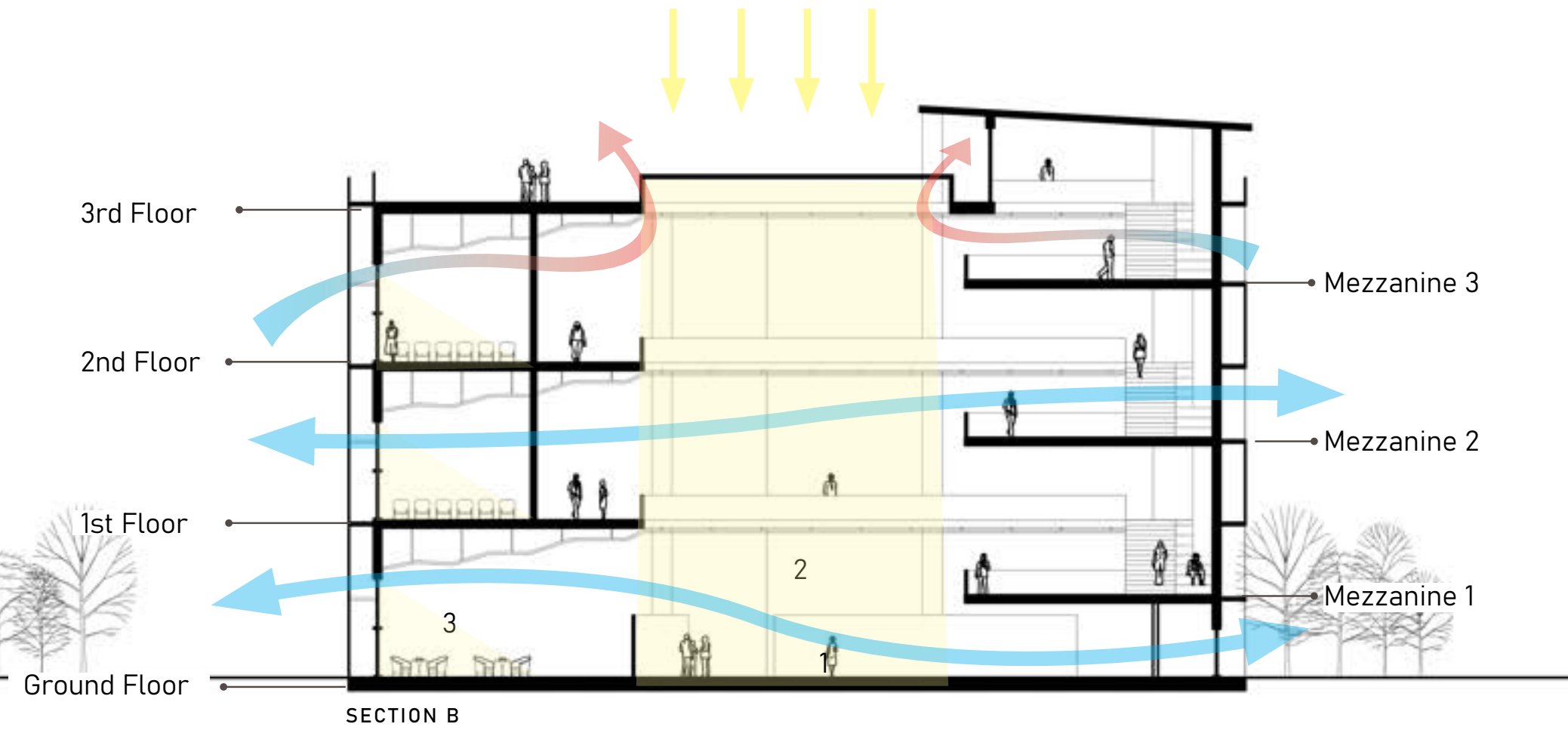
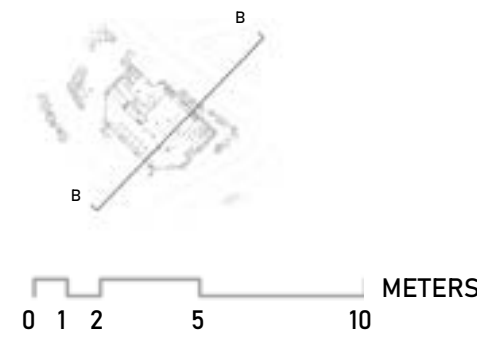


COURTYARD VIEW FROM LABORATORIES

ENVIRONMENTAL STRATEGY

- Heat rising and escaping through vents
- Cross ventilation
- Direct sunlight

1. Exhibition stands
2. Atrium
3. Cafe seating



- 7. T-Section
- 8. Steel RHS
- 9. Steel SHS
- 10. Perforated panels



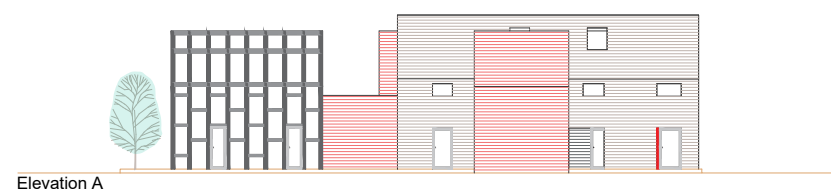
04 SLIDING HOUSE, SUFFOLK THE HOUSE FOR ALL SEASONS

Year: 2024

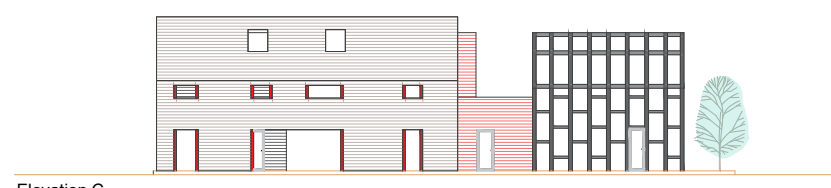
Typology: Individual Technology Case study

Software Used: Rhino 3D, Adobe & AutoCAD

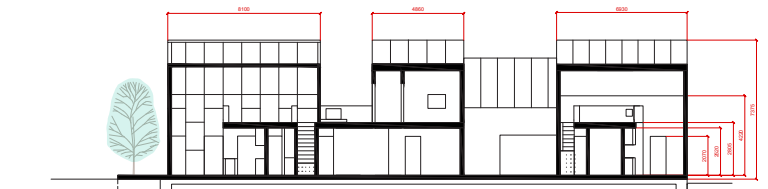
Project introduction: A detailed case study analysis of the Sliding house situated in Suffolk. This case study analyses the structural components, materials and environmental factors.



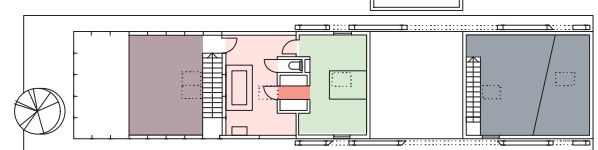
Elevation A



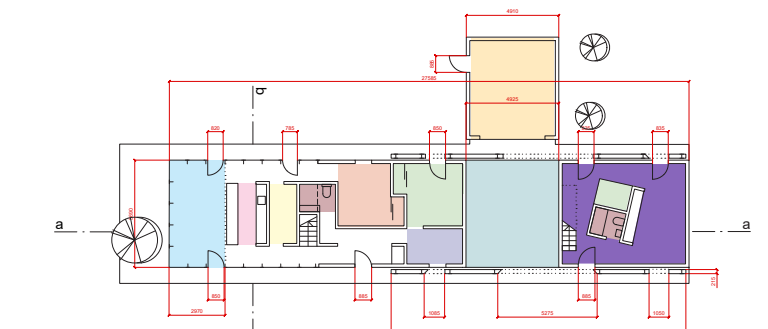
Elevation C



Section aa



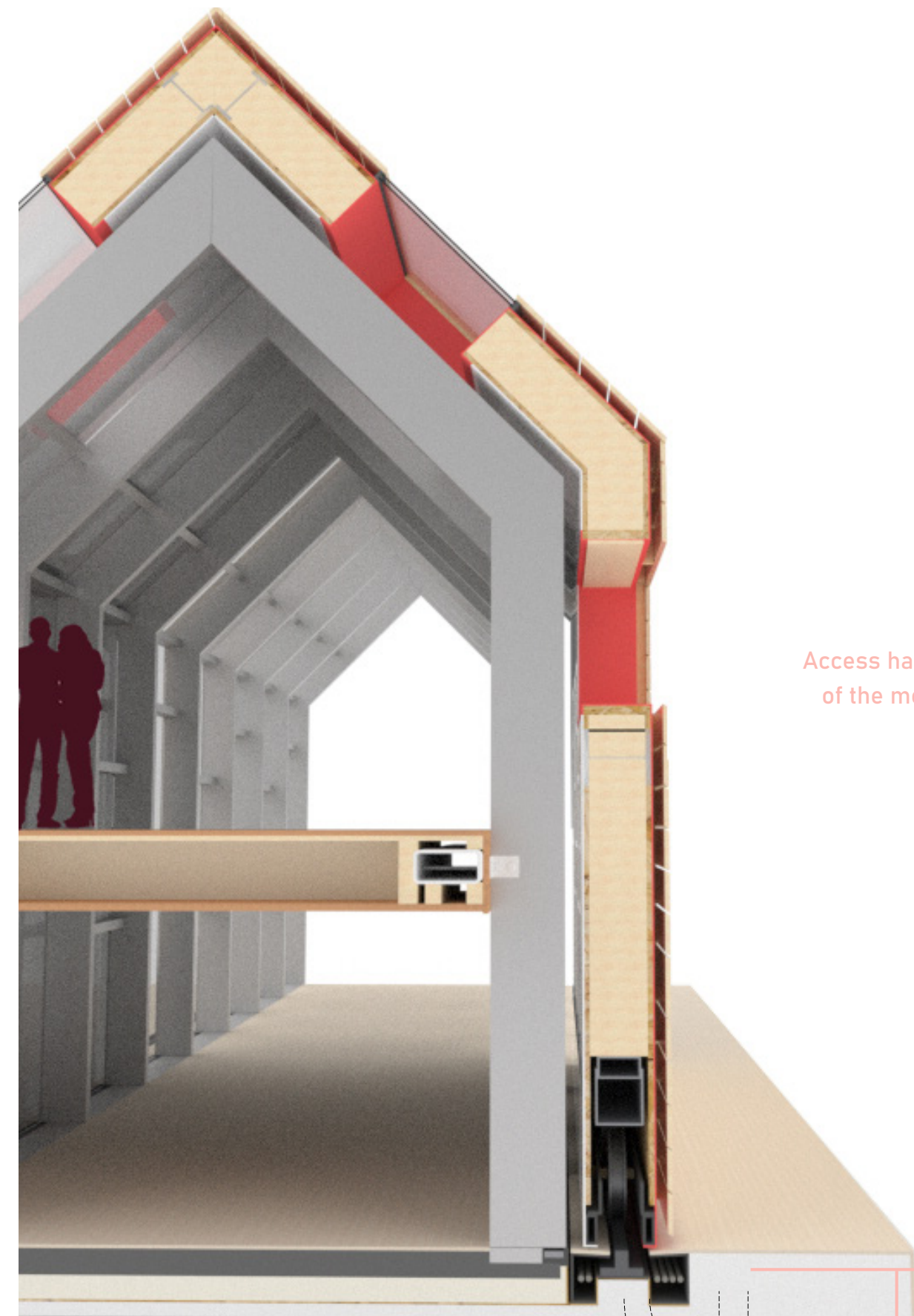
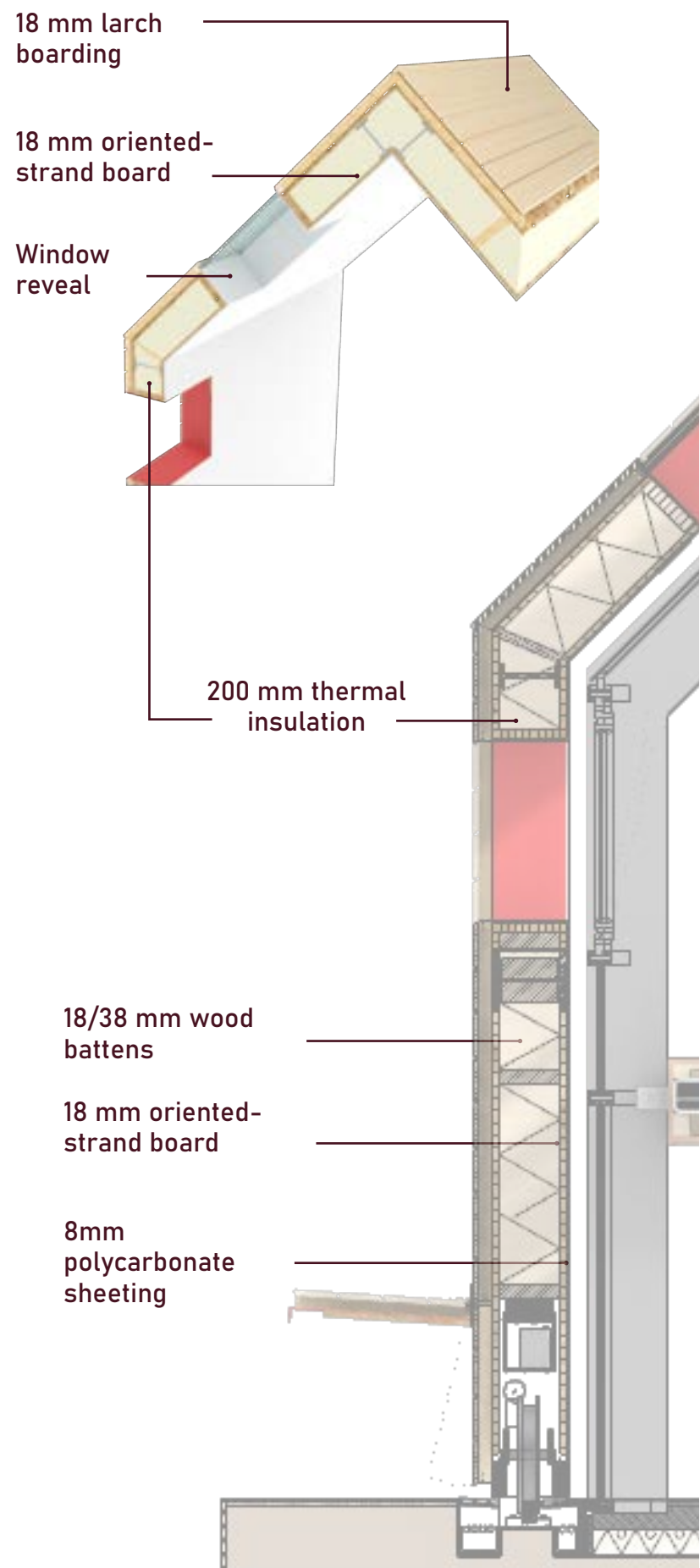
First floor plan



Ground floor plan

Scale 1:200
0 2000 5000 10000 15000mm

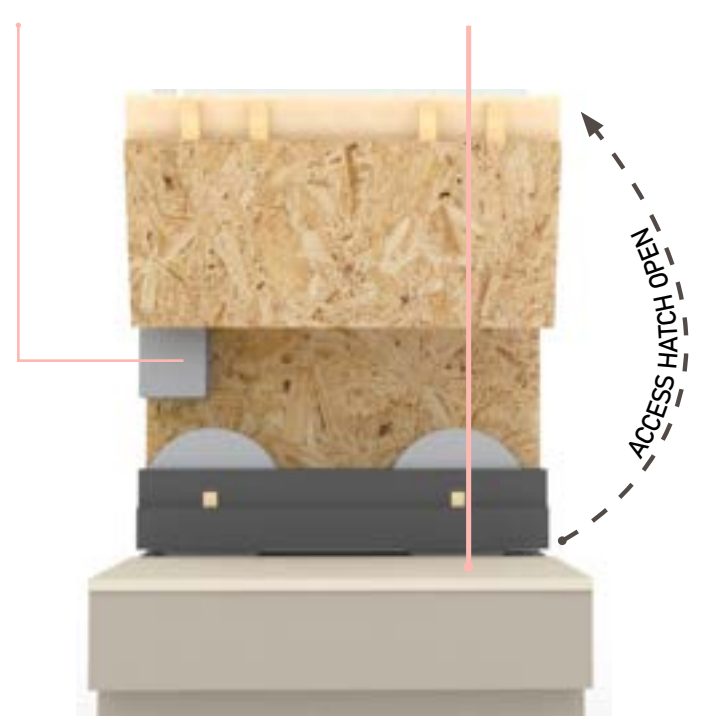
- | | | |
|---|---|---|
| ■ Conservatory | ■ Study | ■ Open-able bathroom |
| ■ Kitchen | ■ Courtyard | ■ Dressing room |
| ■ Utility room | ■ Garage | ■ Office/Living room |
| ■ Living room | ■ Living area/ Kitchenette | |
| ■ Bedroom | ■ Gallery | |



Profile (150mm x75mm) of the Steel frame covered with wood and insulated.

Quartzite floor on sand cement.

Access door hinges



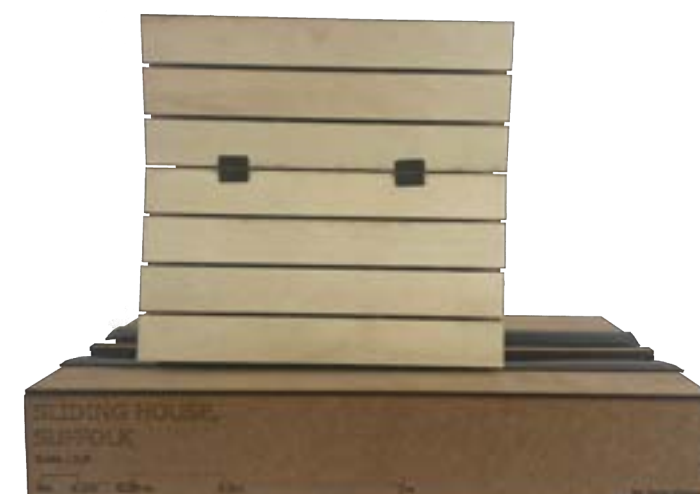
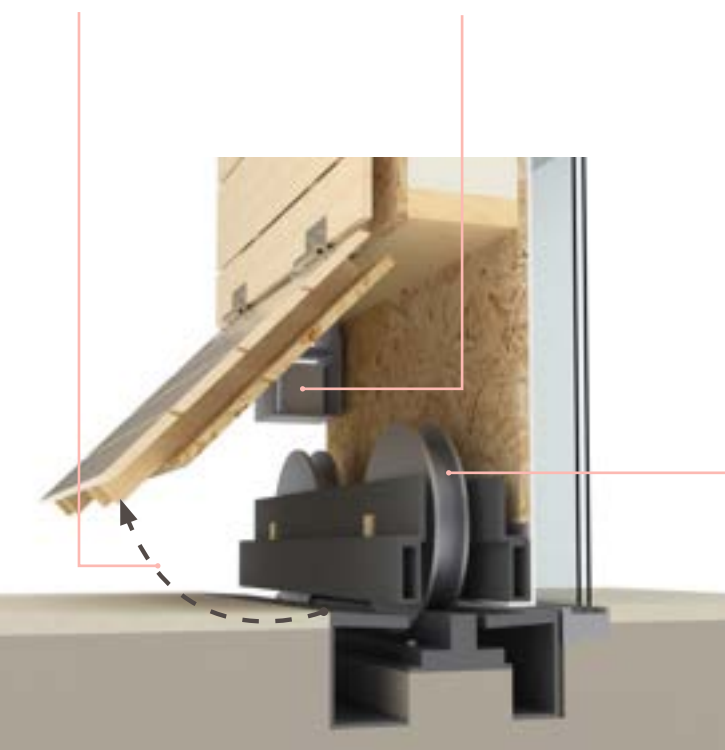
ACCESS HATCH OPEN



Access hatch, for maintenance of the mechanical systems.

J: Two 12-volt batteries

K: Chain driven steel wheel.



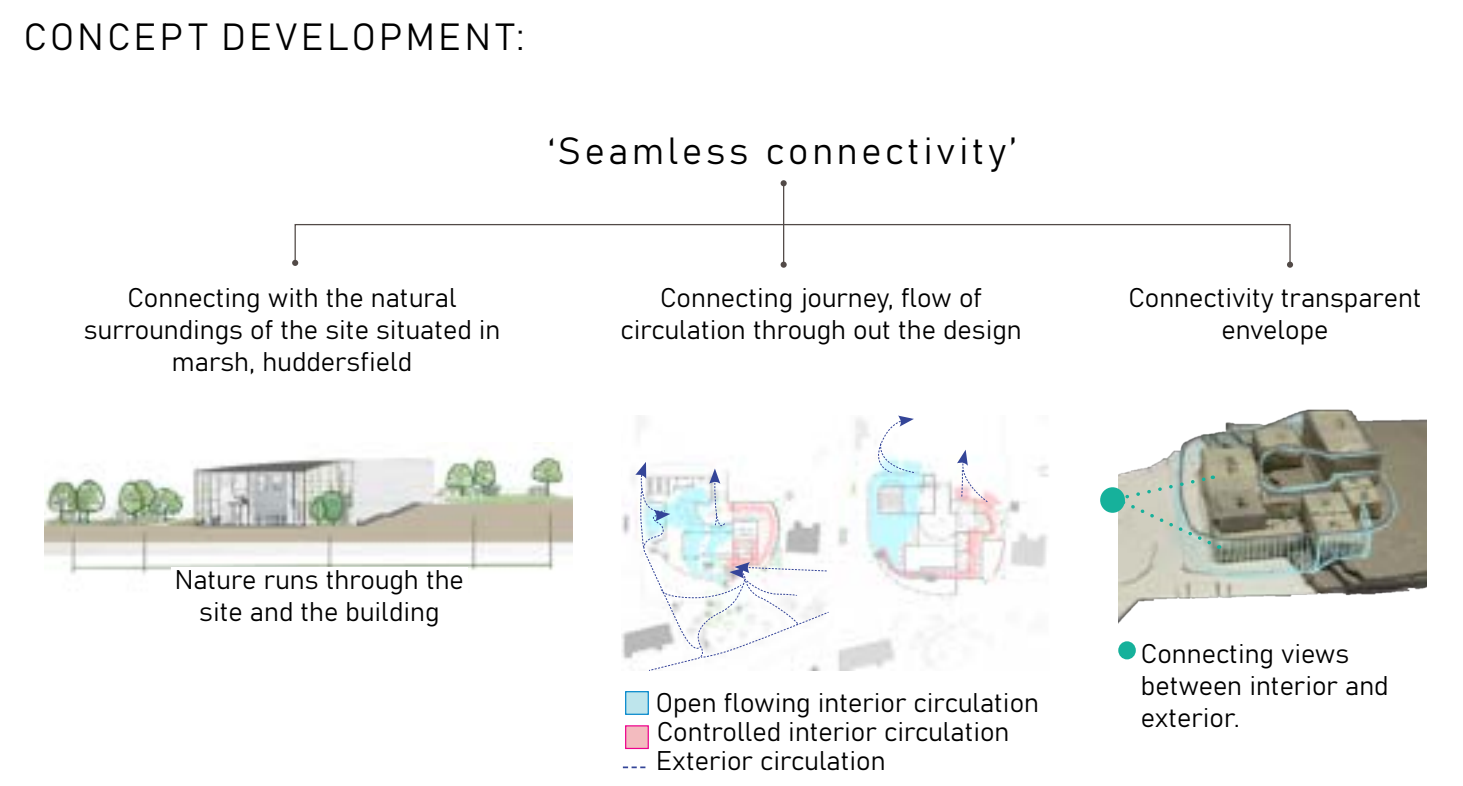
75mm drainpipe



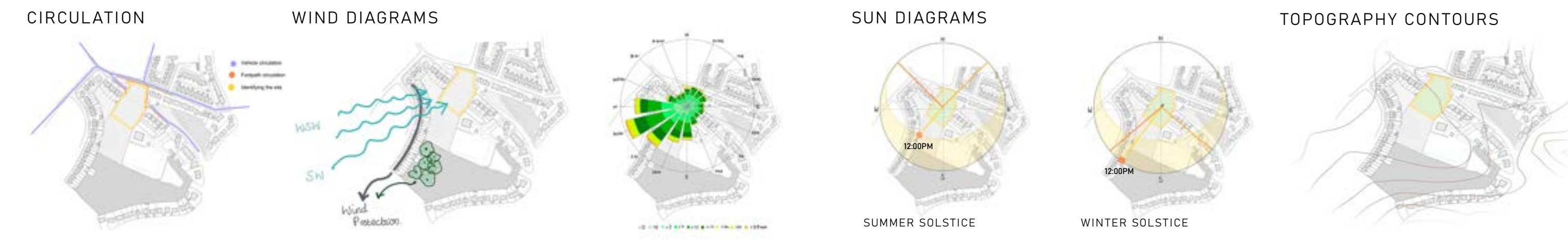
05 MARSH ART AND COMMUNITY CENTRE

Year: 2022
Project location: Mash, Huddersfield
Typology: Individual Design Studio project
Software Used: Adobe & AutoCAD

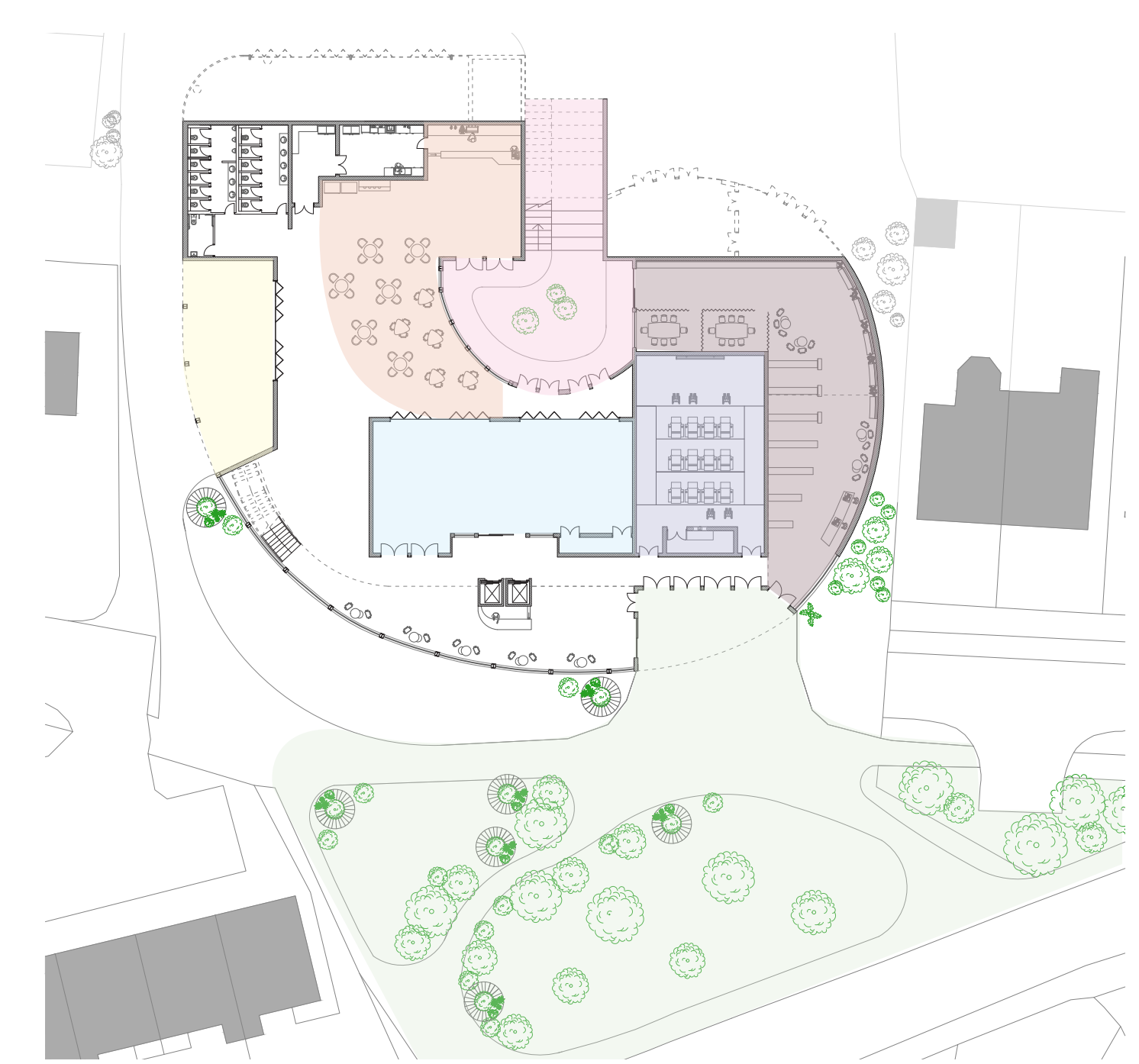
Project introduction: The Marsh Arts and Community Centre embodies 'seamless connection,' integrating harmoniously into the site's natural contours and surroundings. With a focus on inviting individuals inward and blending indoor and outdoor spaces, the design creates an open and airy ambiance. In achieving connectivity, the community's visual interaction with the outdoor spaces was a central consideration, alongside the journey of occupants through the structure. Connective views were emphasised through transparent integration of spaces, with careful material selection highlighting a steel framework coated in timber and floor-to-ceiling glazing encircling the building. This approach not only fosters connectivity between interior and exterior realms but also establishes a profound link with the adjacent flora and fauna.



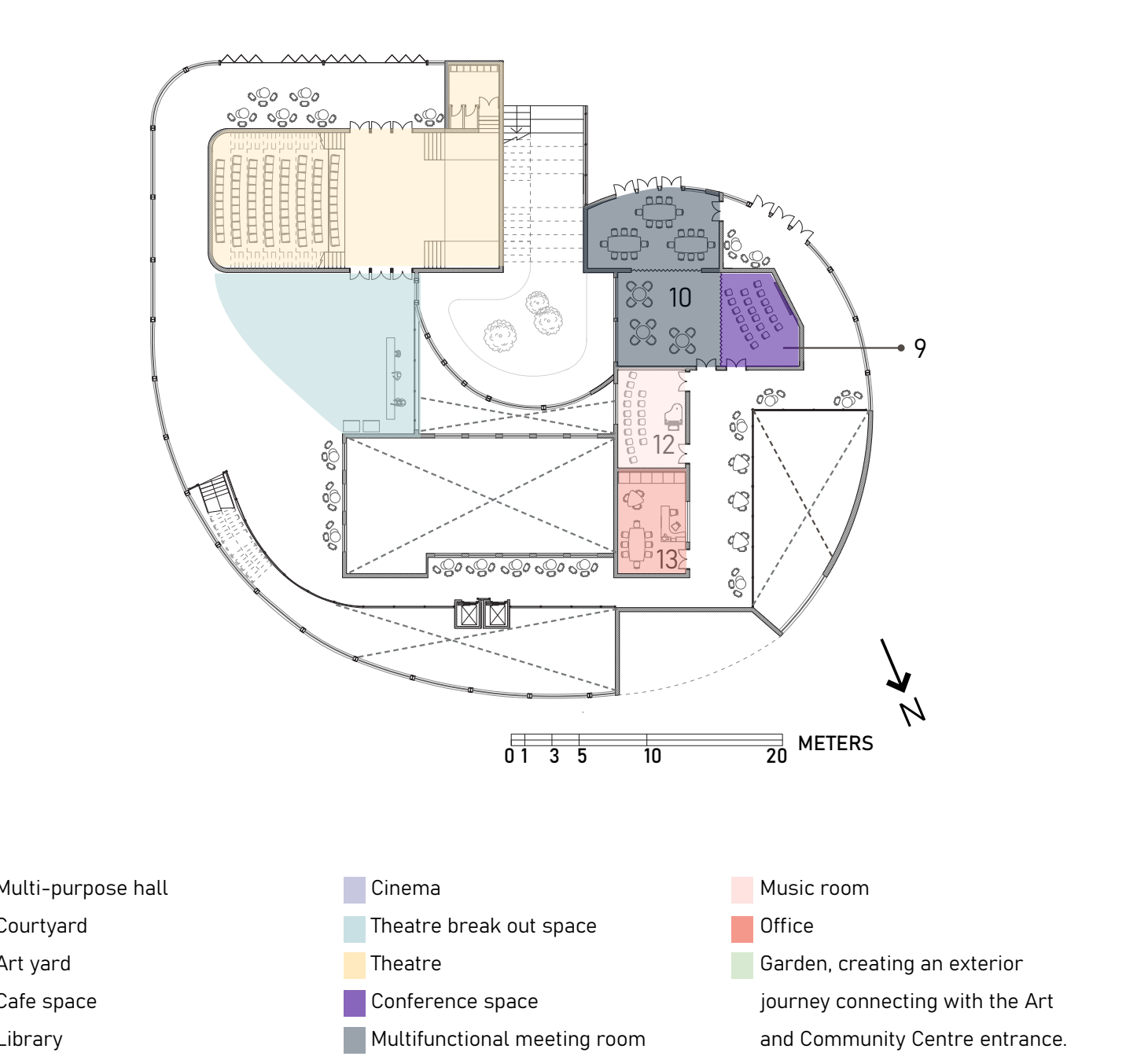
SITE ANALYSIS DIAGRAMS



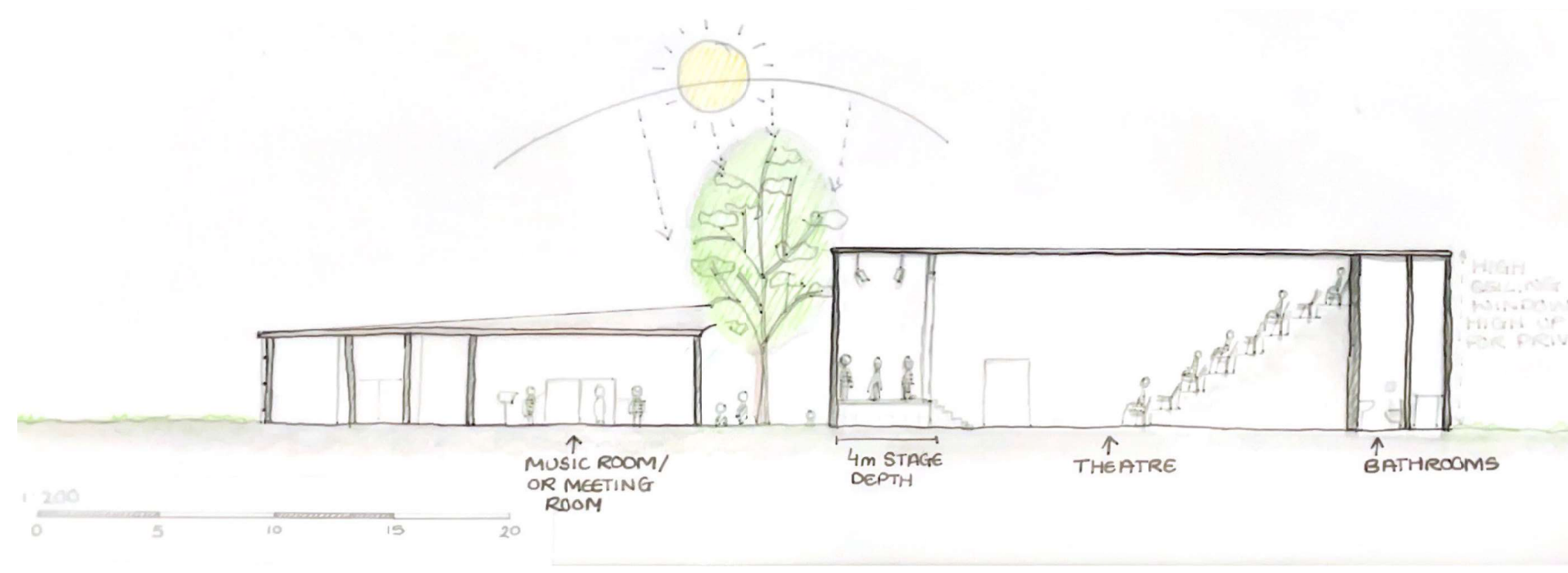
GROUND FLOOR



1ST FLOOR



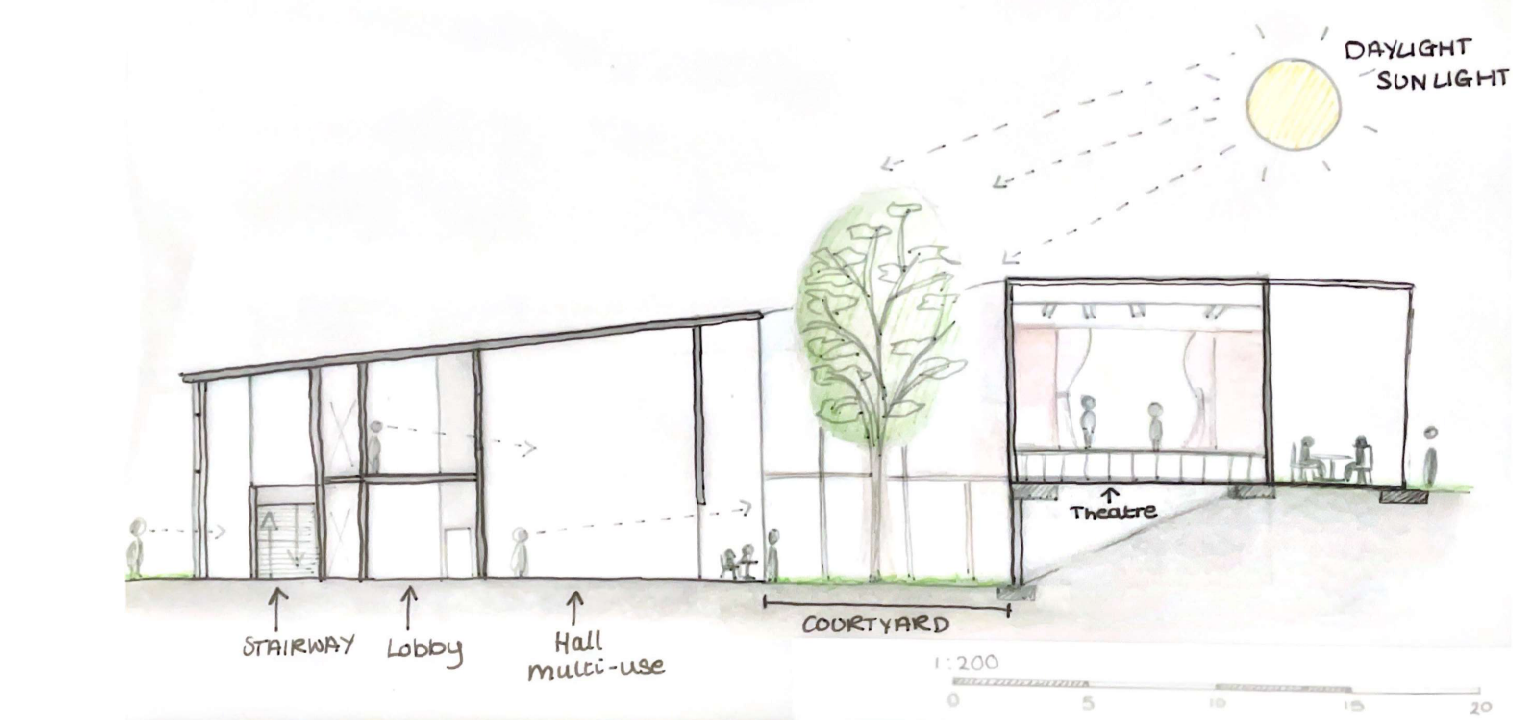
SKETCHY SECTIONS



SECTION MODEL



INTERIOR SKETCHES



06

THE ARCHITECTURAL PROTAGONIST OF KINGS LANDING: A Dynamic Force in the 'Game of Thrones' Narrative

Year: 2024

Typology: Architectural Dissertation

Theme: Architecture & Narrative

Research Question: How does architecture within 'The Game of Thrones' act as a silent yet powerful protagonist, complementing and enriching the narrative of specific scenes?

Grade: 82%

Topic Selection: Having immersed myself into the subject area of 'architecture and narrative', specifically exploring how architecture is used within digital media, I have come to appreciate how architecture goes beyond just being seen as a backdrop in fictional TV shows and films. Instead, architecture emerges as an element with the ability to aid and complement narratives. Honegger (2004) and various other authors explored this concept in my dissertation, articulating that architecture possesses the potential to actively enhance and enrich the complexities of specific plots and scenes within visual storytelling. This inspired me to explore the role of architecture in complementing the complex, dark fantasy narrative of Game of Thrones.



ABSTRACT

Game of Thrones is a dark fantasy TV series based on a book by George R.R. Martin. It's known for its violent and dark narrative. In the context of Game of Thrones, the architectural design of sets and locations serves as a silent yet powerful protagonist, complementing and enriching the narrative of specific scenes. The study uses a qualitative case study approach to examine four key scenes from the series, including Joffrey and Margaery Tyrell's wedding, Cersei's arrest by the High Sparrow, Cersei watching the Great Sept of Baelor explode from the Red Keep, and Cersei's coronation. By delving into existing literature on the concepts of 'architectural symbolism' and 'architectural protagonist,' and comprehending the process of translating fictional realms into visual representations on screen, a foundational knowledge has been established. This knowledge serves as the basis for the analysis conducted in the chosen case studies.

The case studies involve collecting data, highlighting, and examining the key aspects of the scenes' narratives through the use of dialogue, narrative summaries, character summaries, and selected frames taken from the key scenes. After collecting the data, the book 'Reading Architecture: A Visual Lexicon' is used as a guide to conduct a graphic analysis of the selected scenes, examining how the architecture has used various elements to complement and enrich the specific narratives (Hopkins, 2012).

Through the examination of these scenes and a discussion aimed at exploring the findings of each case study in connection with the research question, the study endeavours to substantiate the term "architectural protagonist" as posited by Thomas Honegger (2004). This contributes to an enhanced understanding of how architecture is pivotal in constructing and enhancing the intricate dark fantasy narrative of Game of Thrones.

METHODOLOGY

