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PORT FOLIO





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Atthaphan Sespattanachai (Bright)

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October, 15 2019

To whom this may concerns,

The reason I would like to work at your unique Architecture firm is that I have always been fascinated by the sophisticated process behind each project as well as the outcome. There are always new challenges that need to be solved with different approaches in which I believe that you cannot find in University. These motivated me to learn how to design sustainably with smart materials and planning techniques. I love to learn how to design and build constructions that reflect our era in terms of style and advancement in technology. Most of my designs would focus on people as how they are interacting, overlapping and moving through the space. It is more about how to design a space to fit into the community not how to design a space for community to fit into. However, as a freshly graduate part 1 architect I am still lacking in experience I would like to use this opportunity to learn and design buildings that are liveable, affordable, aesthetic and environmentally friendly by using the surroundings to their advantage. I believe that experiences I gain from practice would help to strengthen my knowledge, creativity and designing skills as an architect as well as how to work and corporate with contractors.

I believe that with a strong passion, skills in architectural technology, design, analysis and rendering I would be able to provide benefits to the company.

Sincerely yours,

Atthaphan Sespattanachai (Bright)



ABOUT ME

As a RIBA part 1 architect I am still lack in experience. However, with a strong passion I would love to learn and explore the world of architecture further. This allows me to express my ideas and ambition through building design.



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attaphan82345@gmail.com



14 July 1997



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SKILLS







Adobe Illustrate







Rhinoceros 3D Auto(



RhinoVault

SketchUP





R

ATTHAPHAN SESPATTANACHAI (BRIGHT)

RIBA PART I ARCHITECTURAL ASSISTANT



EDUCATION

2016-2019

Newcastle University, United Kingdom

2013-2015 (High school) King's College, New Zealand

2008-2012 (Elementary - Junior high school)

Vajiravudh College, Thailand

EXPERIENCE

2018

RIBA Student Mentoring Program at Kiosk architects

2017

IT international co., Ltd. (INTERN)

AWARD AND INVOLVEMENT

2017-2018

Fashion society
Thai society committee

2016

Boxing society Architecture society

2015

House Academic Colours Term 2
BMW bonnet design and painting
competition, 2nd place
Cultural night
House archery, Badminton and Basketball
Rugby 4th grade, Senior House rugby,
Intermediate House rugby IHC social
Handicap dancing party

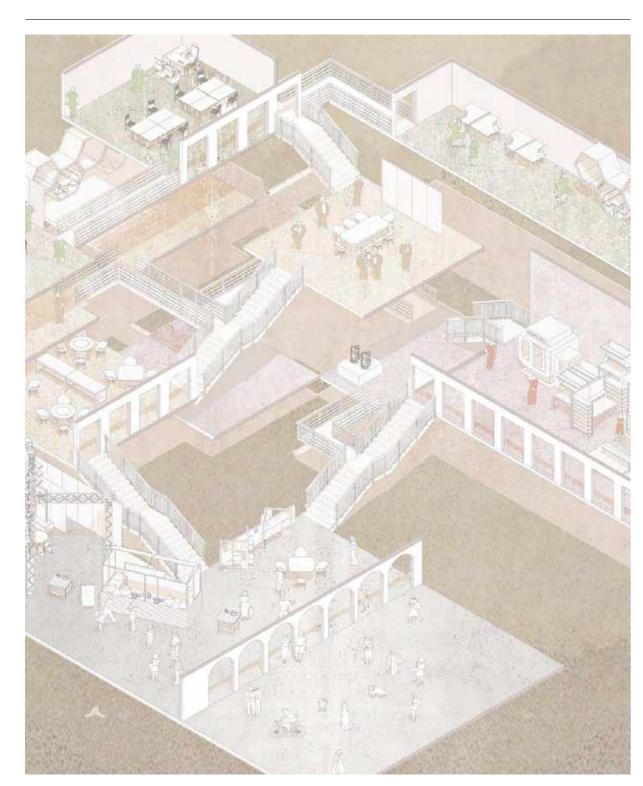
2014

King's College Leadership Camp Coaching a mentoring primary school students in reading 01

URBAN REGENERATION:

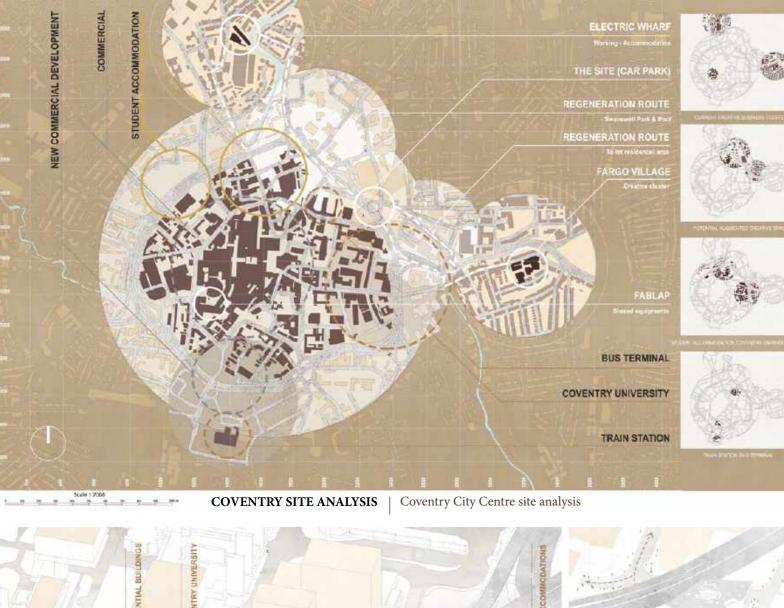
INNOVATION CREATIVE CENTRE

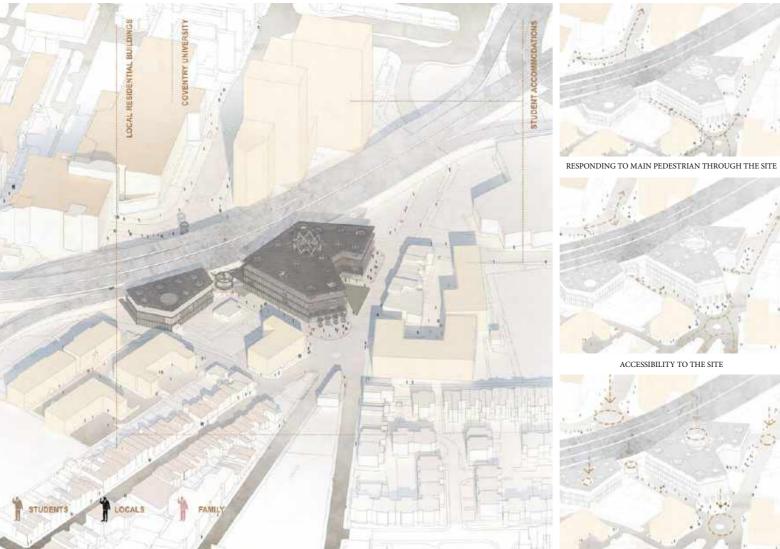
THE INDUTRIES OF TWENTY-FIRST CENTURY WILL DEPEND INCREASINGLY ON THE GENERATION OF KNOWLEDGE THROUGH CREATIVITY AND INNOVATION

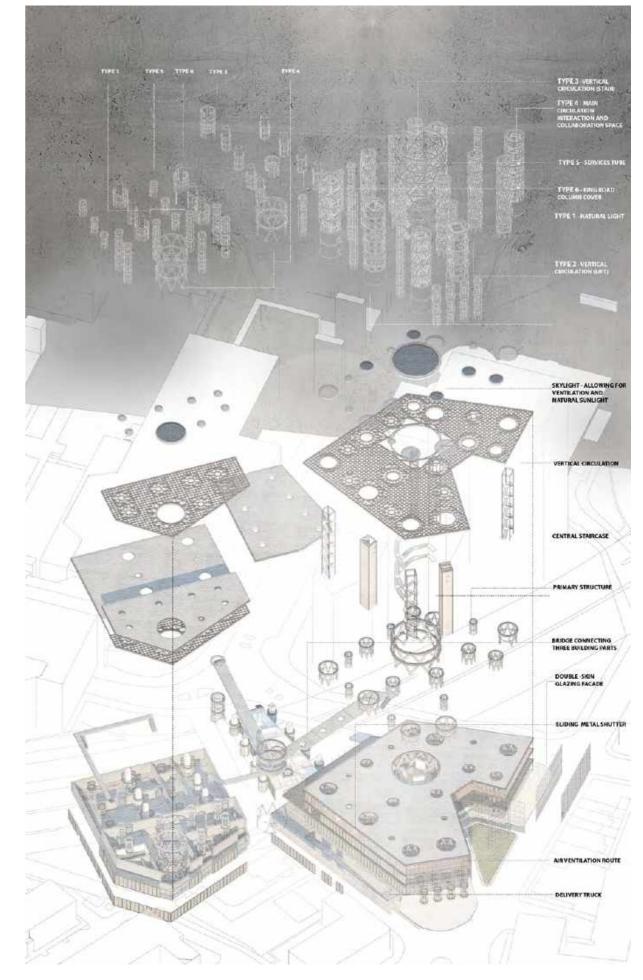


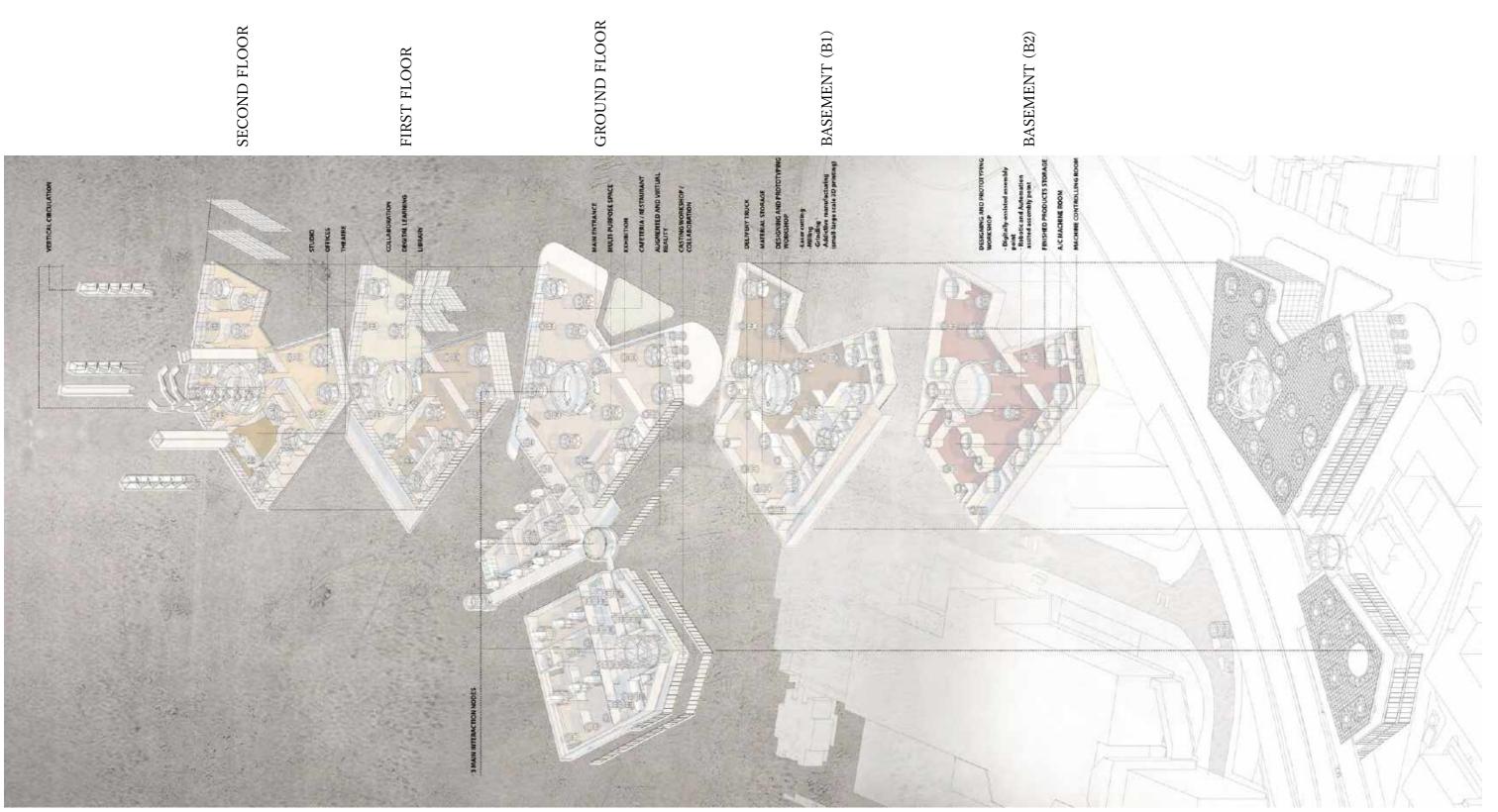
INITIAL CONCEPTUAL PROGRAMME | Four main spaces :

Four main spaces : Entrance (central space), Collaboration, Workshop, Business









EXPLODED ISOMETRIC DIAGRAM

This diagram illustrates essential programmes and elements of the building

- 1. Basement (B2)
- 2. Basement (B1)
- 3. Ground floor
- 4. First floor
- 5. Second floor

GENERAL TUBE COMPONENT - INTERACTION NODE AND SUPPORTING STRUCTURE

EXPLODED DIAGRAM - TUBE COMPONENT

FIRE PROOF GLAZING

WAFFLE FLOOR STRUCTURE

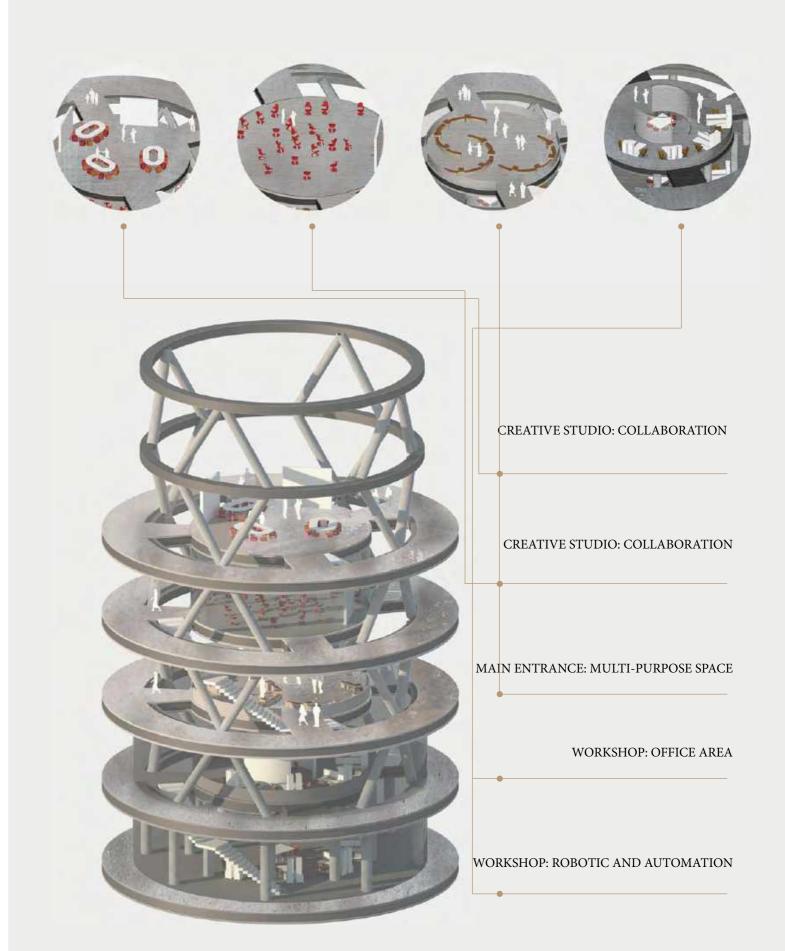
STEEL ROD STRUC-TURE

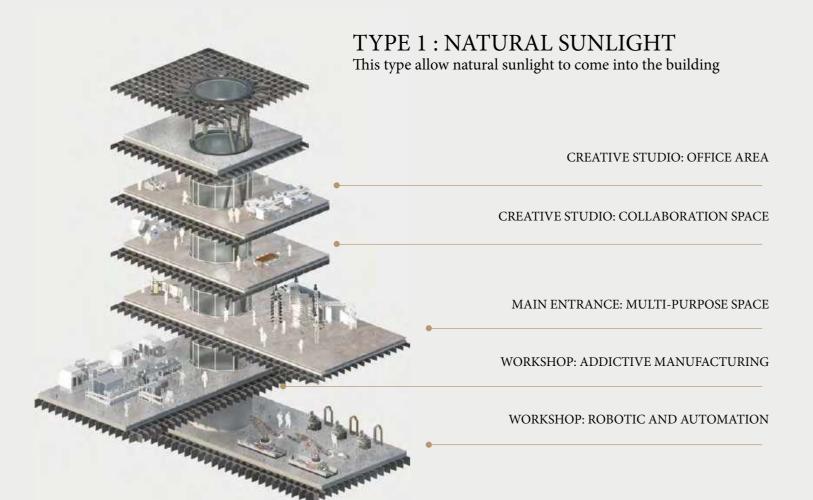
DOUBLE METAL SHEETS

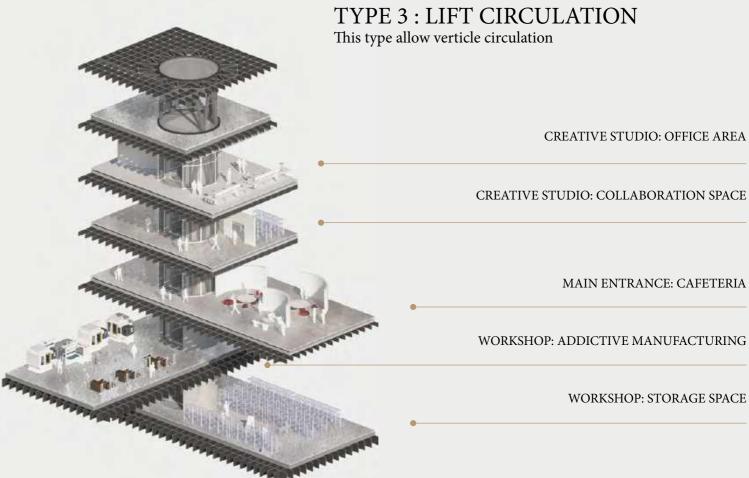
CONCRETE FLOOR-ING

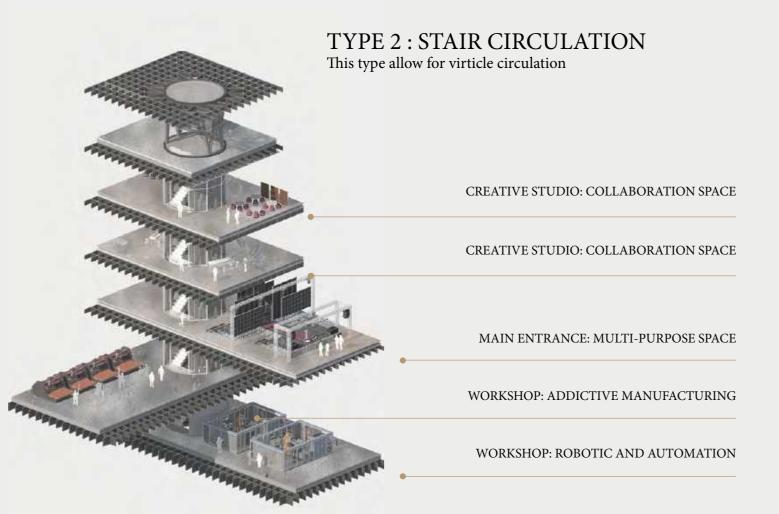
TYPE 0: COLLABORATION CENTRAL

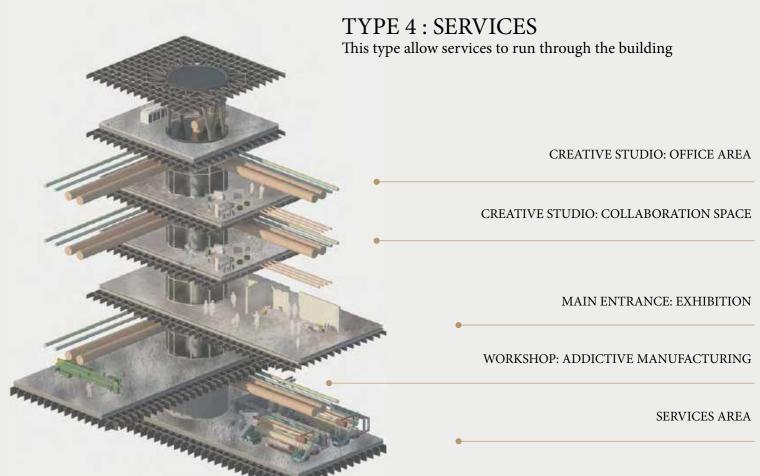
This type allow for virticle circulation













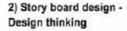


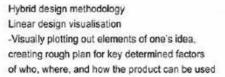
Design & Prototype Framework

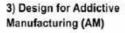
DESIGN THINKING

1) Stage gate product development

- 1.1) Initiation Brief is defined and set
- 1.2) Concept Initial idea
- 1.3) Design Develop idea
- 1.4) Validation Prototyping and testing
- 1.5) Learnings Ensure our future projects benefit from the outcomes of the past projects







Allows complex design geometries to be produced in polymers and metals

4) Analysis

-Finite Element Analysis and Computational Fluid Dynamics tools allow us to undertake a variety of analytical tasks Capability to develop and validate analyses for many structural, fluid flow a nd thermal design questions

5) Mechanical design

-Broad range of engineering expertise, allowing to respond to a variety of project requirements



6) Electrical design

-Develop solutions from "proof of concept" through to "manufacturing ready prototype" in a way that is aligned to ones manufacturing and testing methods and the core functional requirements

















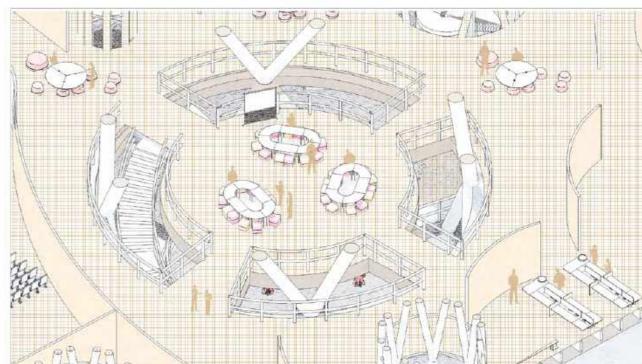


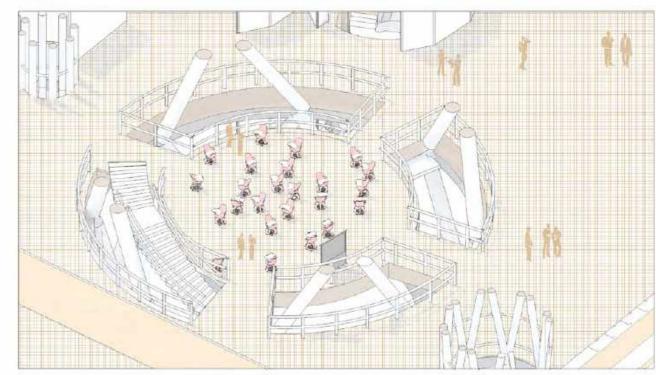


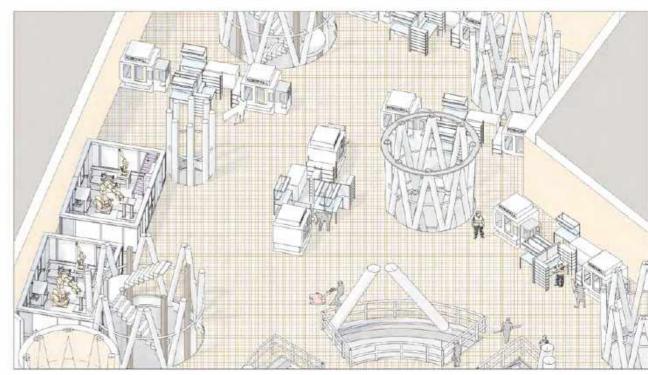


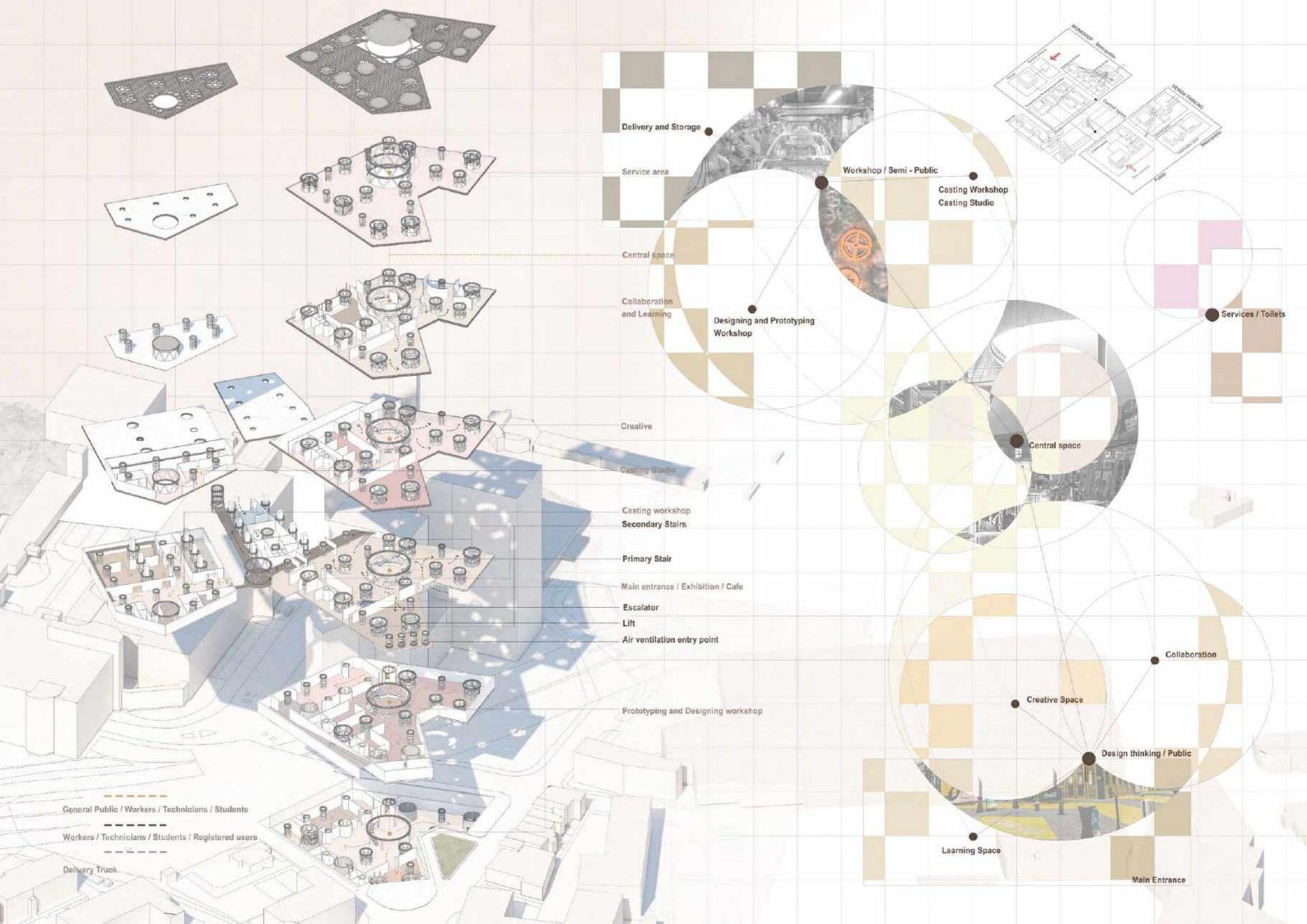




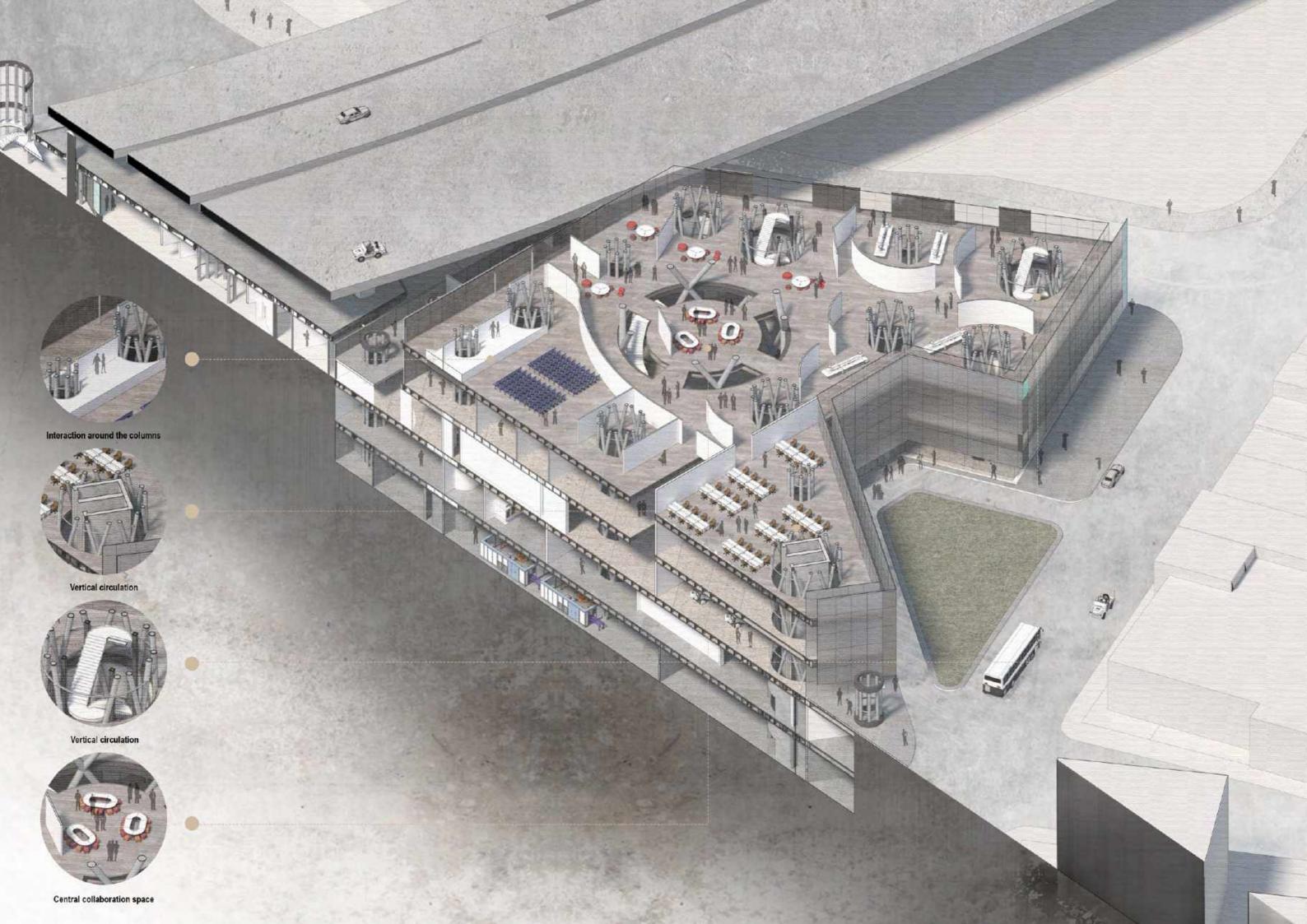


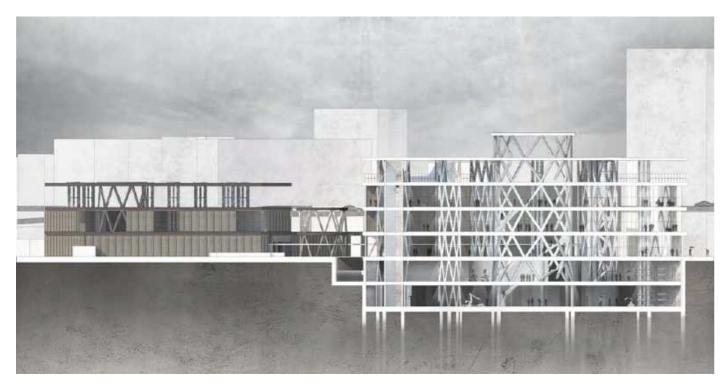












SECTION A - A

Shows building material experience, human interaction, and how the space would be inhabit: Workshop space, Studio space, and Educational space.

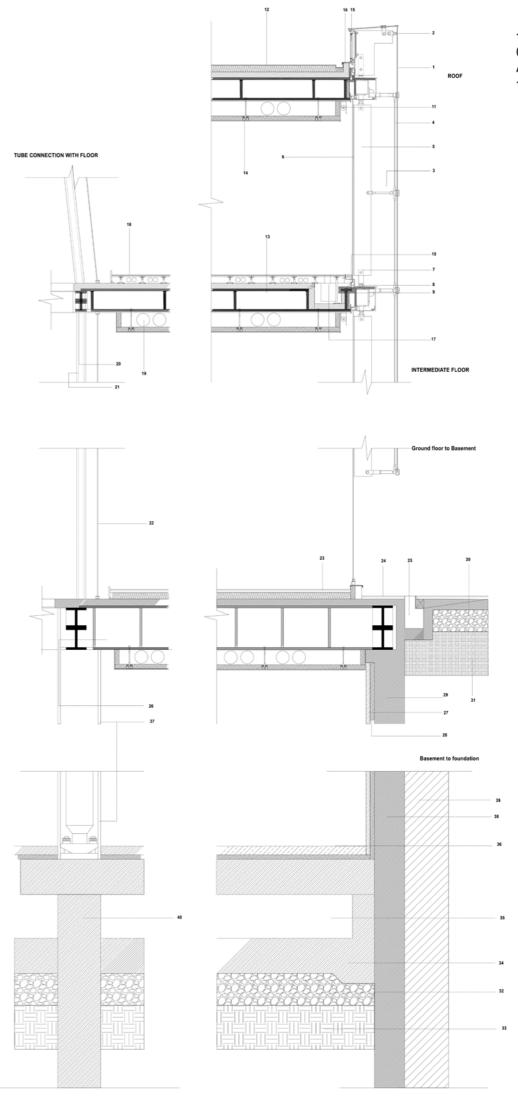


22

SITE SECTION B - B
Shows building sitting on the surrounding context

0 25 50 m

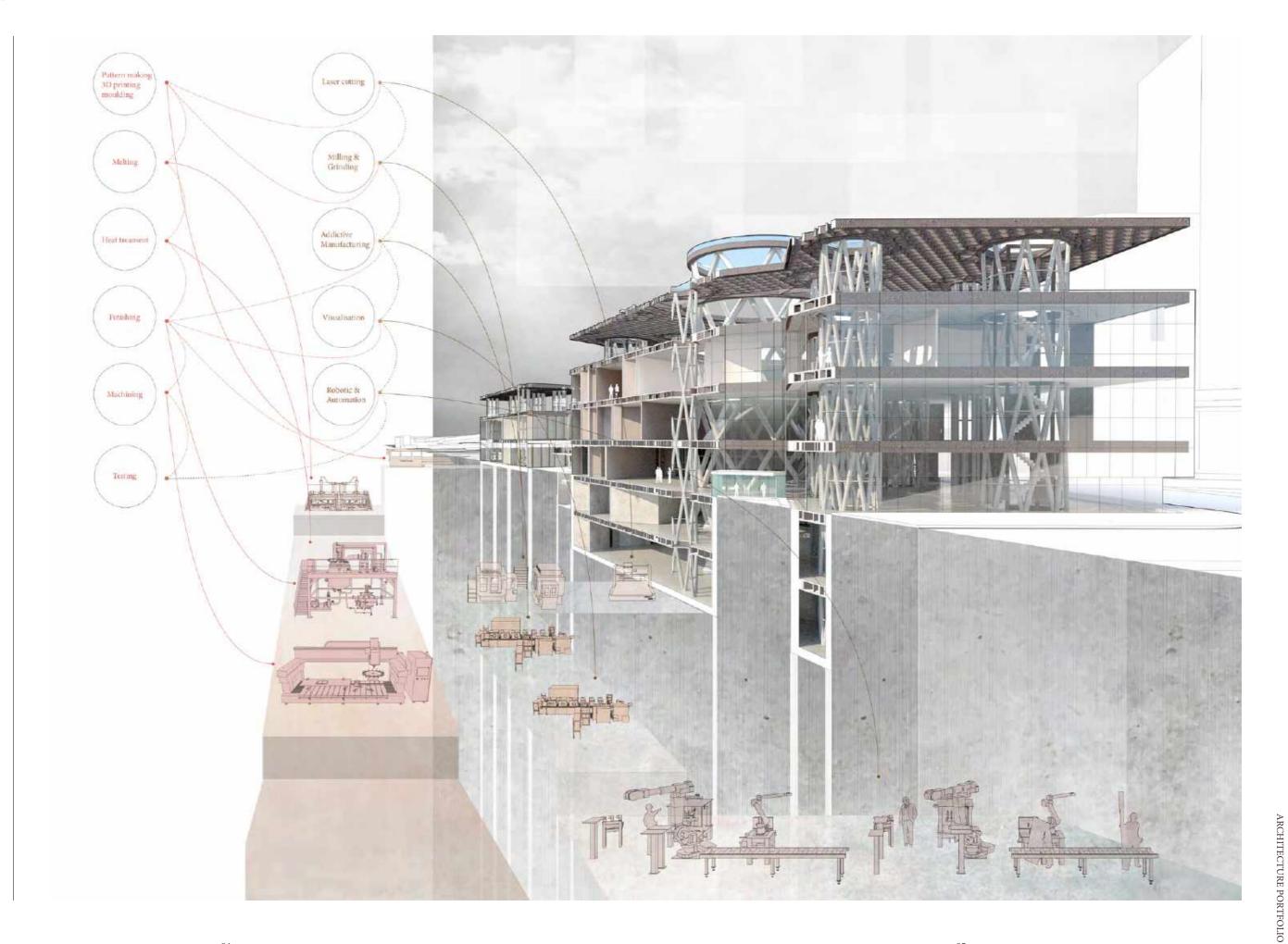
0 5 10 20 m

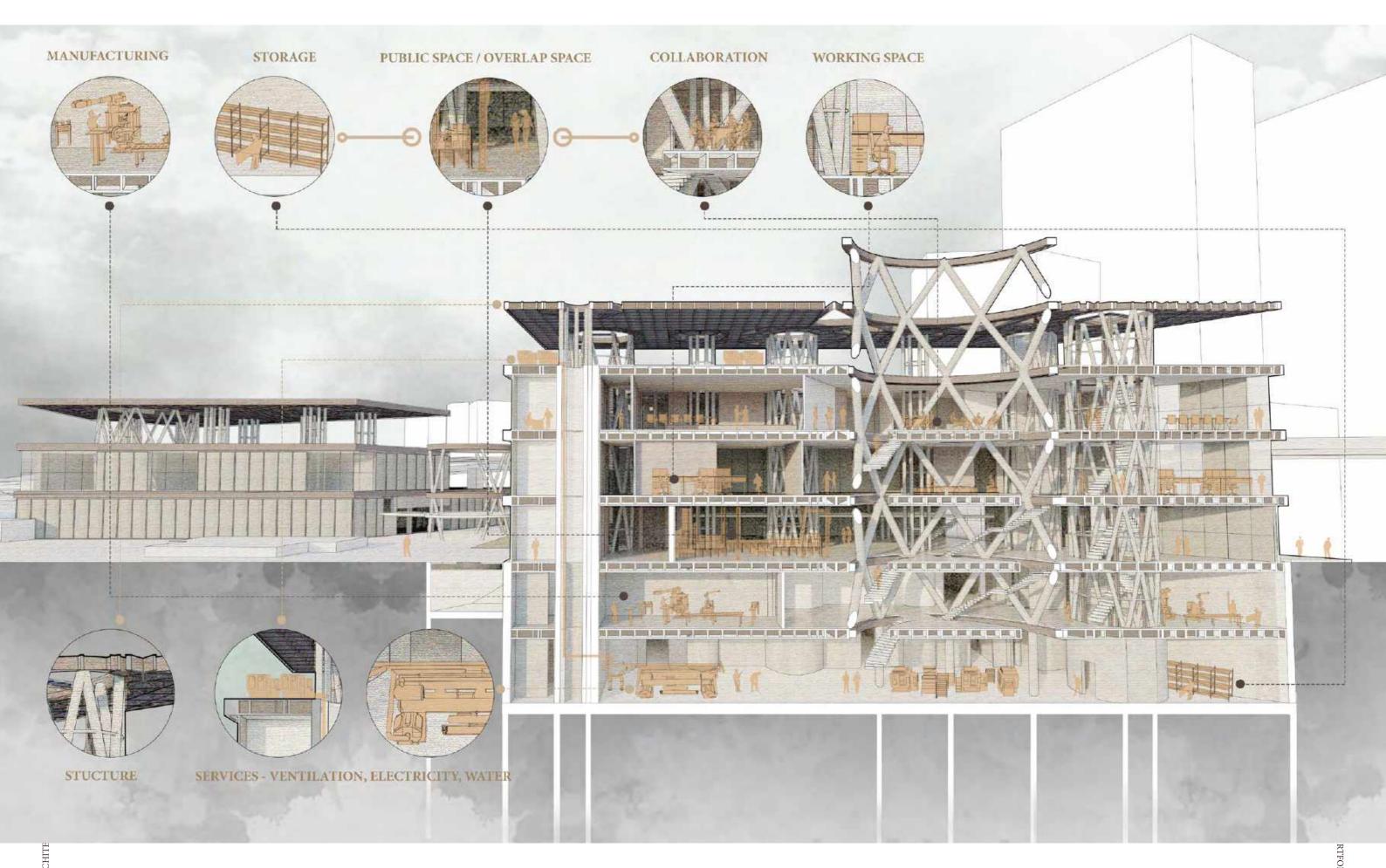


1:20 TECHNICAL SECTION (1300 mm x 2100 mm)

ATTHAPHAN SESPATTANACHAI

Perspective Section cut - showing workshop programmes in relation with the spatial quality in the building







ATMOSPHERIC DRAWING 1. - Collaborations centre top floor



ATMOSPHERIC DRAWING 4. - Creative centre



ATMOSPHERIC DRAWING 3. - Testing products roof top

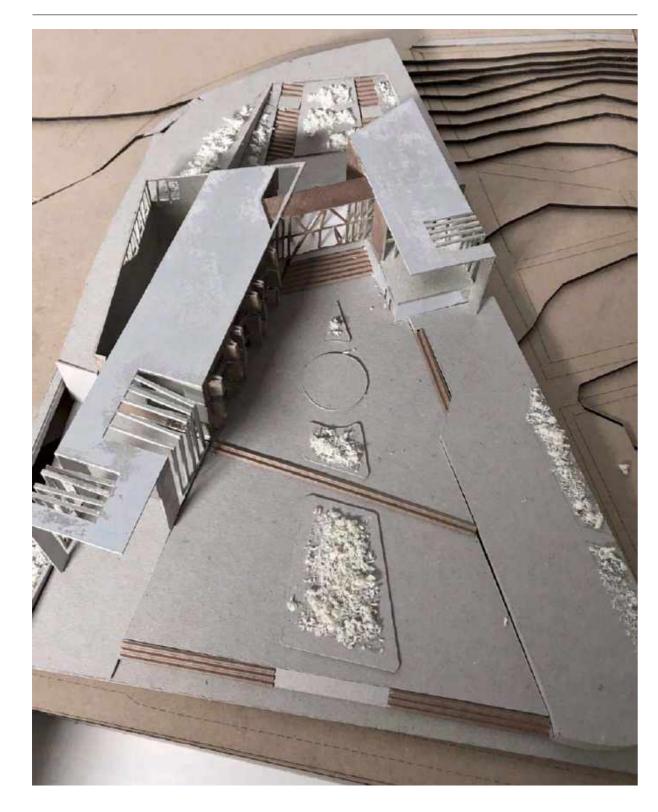


ATMOSPHERIC DRAWING 4. - Augmented workshop space

EXPLORING EXPERIENCE:

METAL WORKSHOP, MATERIAL EXPERIMENTING

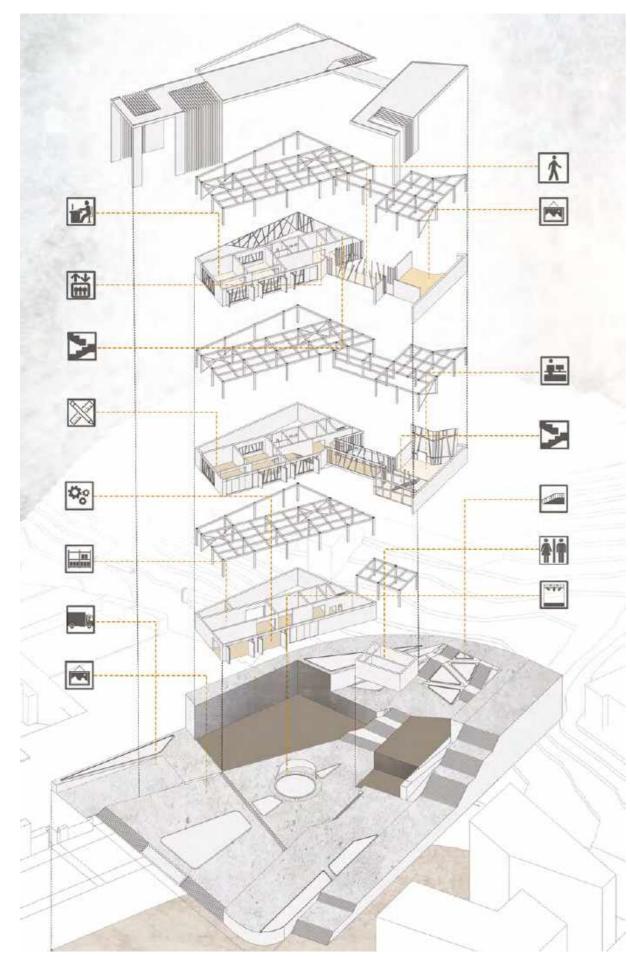
EXPLORE THE QUALITY AND PROPERTY OF STUDIO MATERIAL, AND USE THE PROPERTY TO DESIGN A BUILDING FOR EXHIBITION AND WORKSHOP SPACES.





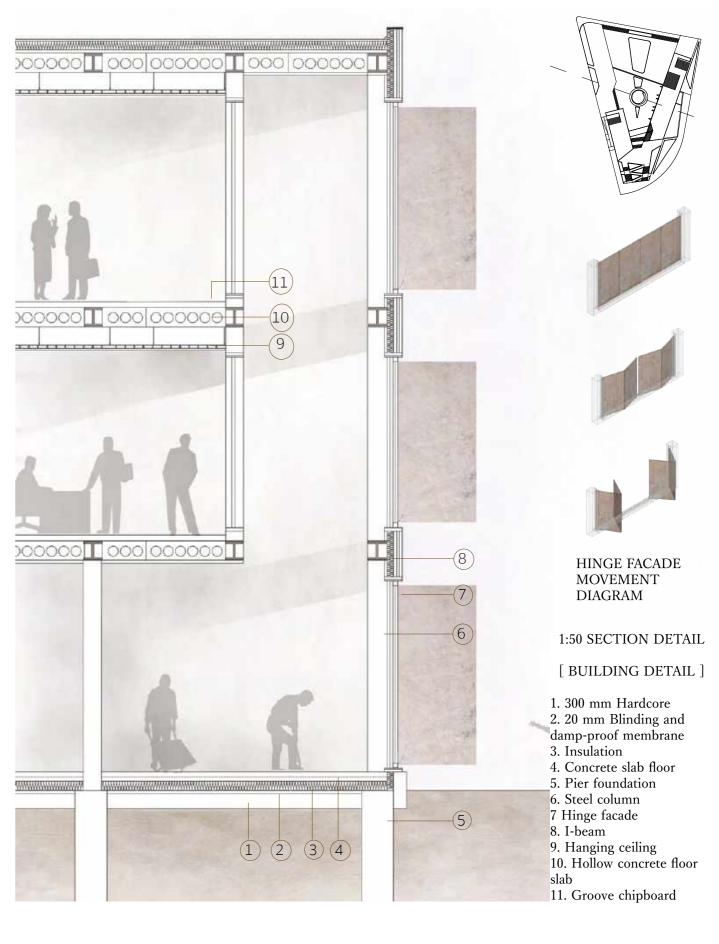
- 1. Stair
- 2. Main building entrance
- 3. Bridge4. Facade

- 5. Delivery6. Market stalls7. Chilling space8. A central space
- 9. Transitional space 10. Balcony



EXPLODED ISOMETRIC DIAGRAM

This illustrates the building program, structure, facade and landscape.

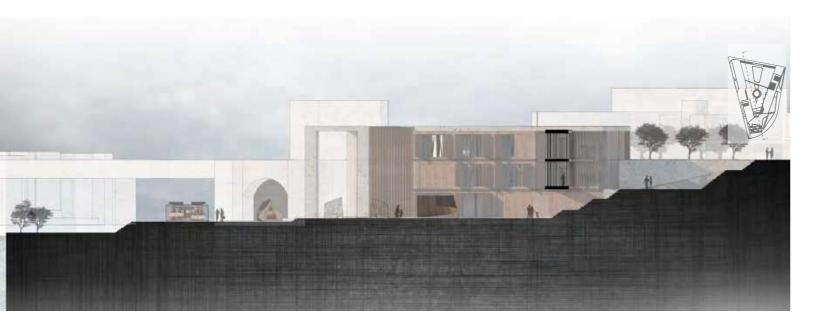


NEWCASTLE UNIVERSITY NEWCASTLE UNIVERSITY



1:200 SECTION A - A (A2)

Shows building material experience, human interaction, and how the space would be inhabit: Workshop space, Studio space, and Educational space.



1:200 SECTION B - B (A2)

Shows external exhibition space (market area) and people interaction with the space.



Market stalls







1:50 section model

Market stalls

03

LEITH PROJECT:

DWELLING PLUS, BUILDING ACCOMMODATION

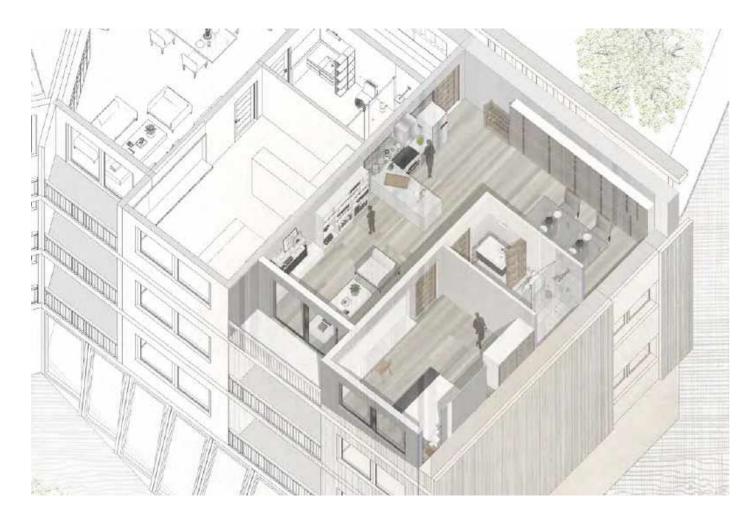
MY INITIAL BUILDING IDEA IS AN INCORPORATE SPACE WHERE RESIDENTIAL, COMMERCIAL AND LEISURE SPACES EXIST IN ONE BUILDING. ACCORDING TO THE MASTERPLAN, THIS AREA IS A BOUNDARY BETWEEN PUBLIC AND PRIVATE SPACES, WHICH MAKE THE AREA SUITABLE TO ADD EXTRA ACTIVITIES TO RESIDENTIAL SPACE.

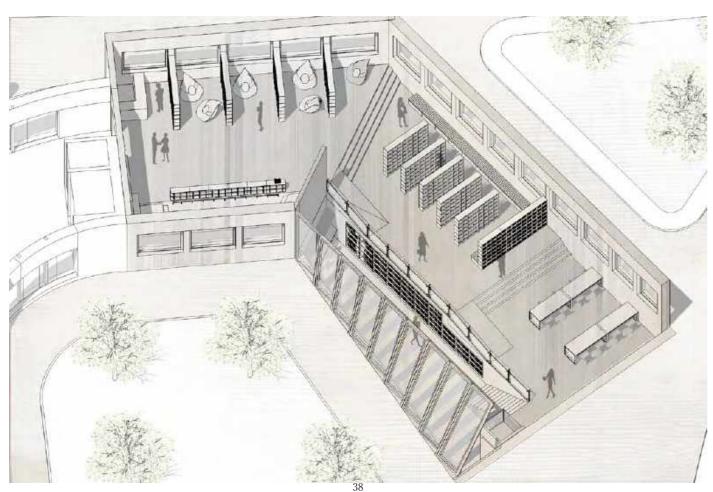


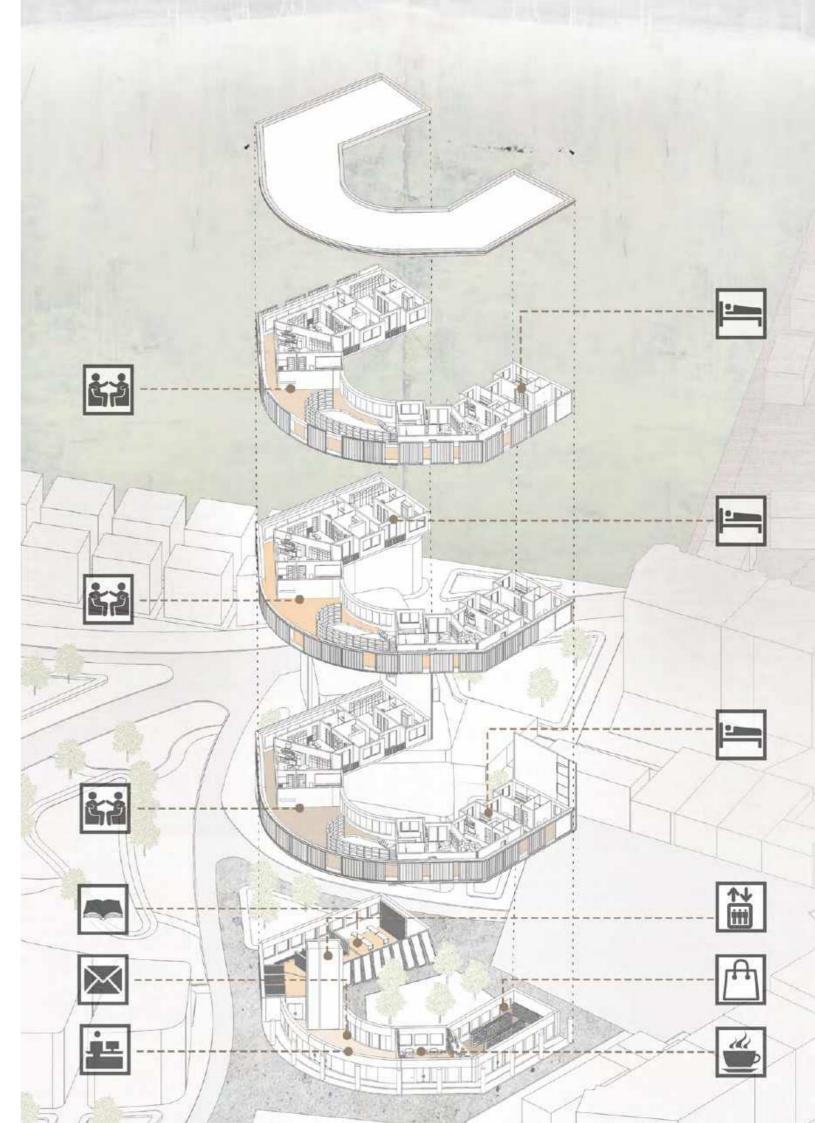


These two sections show how people would interact with the spaces. Upper floors are residential area, ground floor is library space, reception, cafe and convenient store.



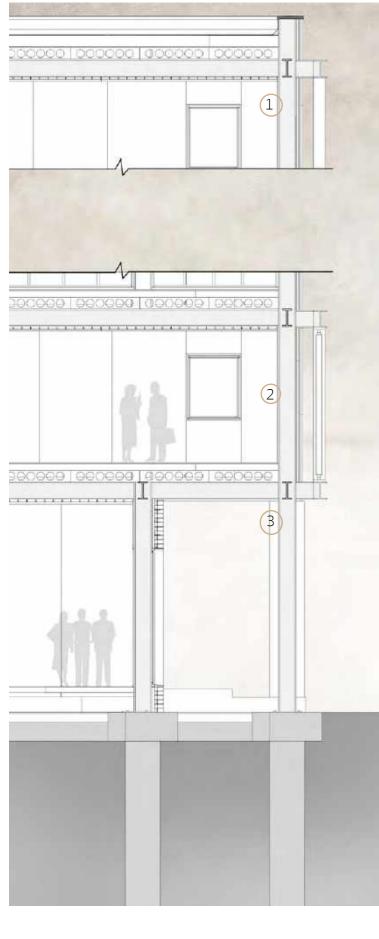


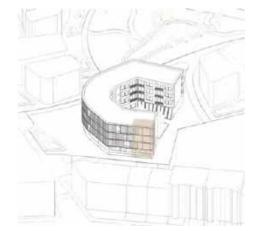












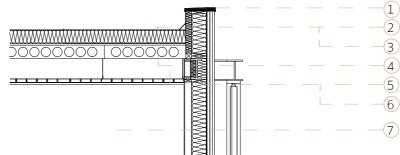
Shutter facade diagram





1:50 Section detail (A3)

- 1. Roof sectional detail
- 2. Floor Floor sectional detail
- 3. External wall Ground floor detail
- 4. Forundation sectional detail



1:50 Roof detail (A3)

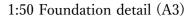
- 1. Zinc head
- 2. Bituminous membrane (asphalt)
- 3. Damp Proof Membrane
- 4. PIR Thermal insulation board
- 5. Vapour control layer
- 6. Leveling screed
- 7. Pre-cast concrete slap

1:50 Floor- Floor detail (A3)

- 1. Cement Cladding
- 2. Timber Batten
- 3. Sheathing board
- 4. Fire stopper
- 5. Quiebravistas: Woodbrise
- 6. Breather Membrane and OSB board
- 7. PIR Thermal Insulation Board
- 8. Vapour Control Layer
- 9. Timber Batten
- 10. Plasterboard

1:50 External wall - Ground floor detail (A3)

- 1. Polished Concrete Floor
- 2. Leveling Screed
- 3. PIR Thermal Insulation Board
- 4. Vapour Control Layer
- 5. Pre-cast Concrete slap
- 6. Vapour Control Layer
- 7. Cement cladding
- 8. External Masonry Wall
- 9. Wall tie



- 1. Double-Glazing Window
- 2. External Masonry Wall
- 3. Polished Concrete Floor
- 4. PIR Thermal Insulation Board
- 5. Concrete Slab
- 6. Damp Proof Membrane
- 7. Sand Binding
- 8. Hardcore
- 9. Concrete Pier Foundation

