

[ARCHITECTURE]PORTFOLIO

CALUM[RAMSAY]

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CALUM RAMSAY

CURRICULUM VITAE



In today's world, where housing crises, gentrification and displacement of indigenous communities are rife in global cities, I want to know if things can be another way. Through research and good architecture, can we make a difference in the way urban space is conceived of and occupied, and how might we, as architects, play a role in addressing rising inequality and social injustice within the built environment?

EDUCATION

2009-2015 Westhill Academy
2015-2021 University of Dundee [MArch]

WORK EXPERIENCE

2018-2019 The Bazeley Partnership [Part 1 Architectural Assistant]
2020 Hunter Landscapes [Landscaping Assistant]
2016-2019 Dunecht Estates [Estate Worker]

ACHIEVEMENTS

2020 UED HYP CUP - International Competition [2nd Place]
2020 Dundee Civic Trust Award [1st Place]
2018 Dundee Church Spire Competition [Honourable Mention]
2014 World Challenge Expedition [Madagascar]
-Built a school in a remote village
-Led a team of 20 through a 2 day expedition
2014 Duke of Edinburgh Award [Bronze]

SKILLS

Photoshop, AutoCAD, Revit, Illustrator, Sketchup, 3DS Max [Design]
Photography, Post Processing, InDesign [Media]
Hand-drawing, Model Building, Landscape Construction, Laser Cutting [Physical]
Brazilian Jiu Jitsu, Muay Thai, Surfing, Skiing, Hiking [Hobbies]

REFERENCES

[University of Dundee] Andrew Stoane [Thesis Tutor]
a.z.stoane@dundee.ac.uk
[The Bazeley Partnership] Martin Back [Previous Employer]
bude@bazeley-architects.co.uk

An architectural rendering of a courtyard space. The walls are made of light-colored bricks. In the foreground, a man sits on a stool reading a newspaper, and a woman sits on a stool talking. A child stands nearby. In the background, a woman on a bicycle and a man on a bicycle are visible. The sky is blue with some clouds. The overall atmosphere is one of a vibrant, communal living space.

The design consists of modular components which can plug together in any **required arrangement**. We have 6 modules; Residential Duplex (provides dwellings for families up to 4 members) , Residential-Commercial Hybrid (2 bedroom apartment plus spaces to promote local retail), Residential-Cultural Hybrid (2 bedroom apartment plus the opportunity to develop larger scale programmes when connected to other units), Towers, Metro and Farms. Aside from the Towers, these are all dense low-rise building typologies which sit at two storeys each. The presence of the Towers allow for this rich collective mode of living to occur as they absorb the majority of the population whilst taking up minimal ground space.

All units are designed around a basic grid of 5m x 17.5m, the same dimensions as a traditional Li-long. Through the manipulation of void and solid the units allow for the first floor to become a second layer of alleyways where cores of interaction such as community tables and roof gardens maximize collectivity. All types of residences include at least one private courtyard and patio, except the Tower dwellings where the gardens are shared. The units can be arranged in both a linear fashion and back-to-back forming what we have called a “matrix.” Modules arranged only in a linear fashion form a “half matrix” . The Residential-Cultural Hybrid in particular benefits from this “half matrix” solution allowing more flexibility to develop a variety of programmes.

Brick, concrete, steel and glass are the only materials needed to develop these units. The homogeneity of simple materials for easy assembly make these units affordable and viable for mass production which provides a fast and easy solution to the **rapid population growth of Shanghai**.

LILONG REVIVAL

Location [Shanghai]
UIA HYP CUP 2020 [2nd place]
Mishell Parodi, Elliot Reilly, [Calum Ramsay]

MASTERPLANS



Total percentage of green space = 32.5%

MASTERPLAN 1
1:1250



Total percentage of green space = 31.8%

MASTERPLAN 2
1:1250



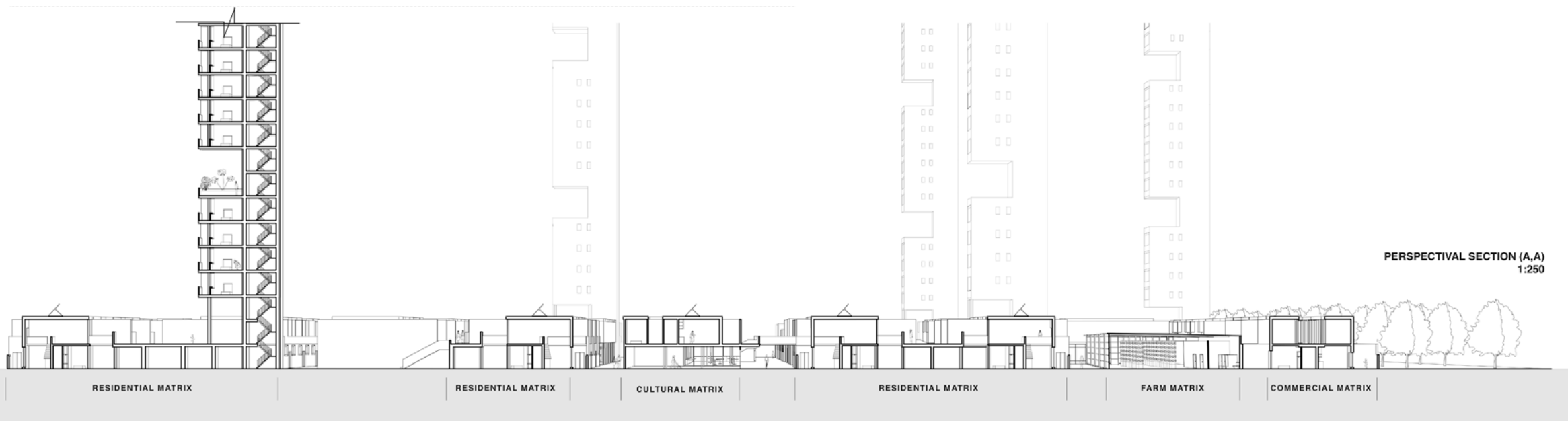
Total percentage of green space = 30.1%

MASTERPLAN 3
1:1250

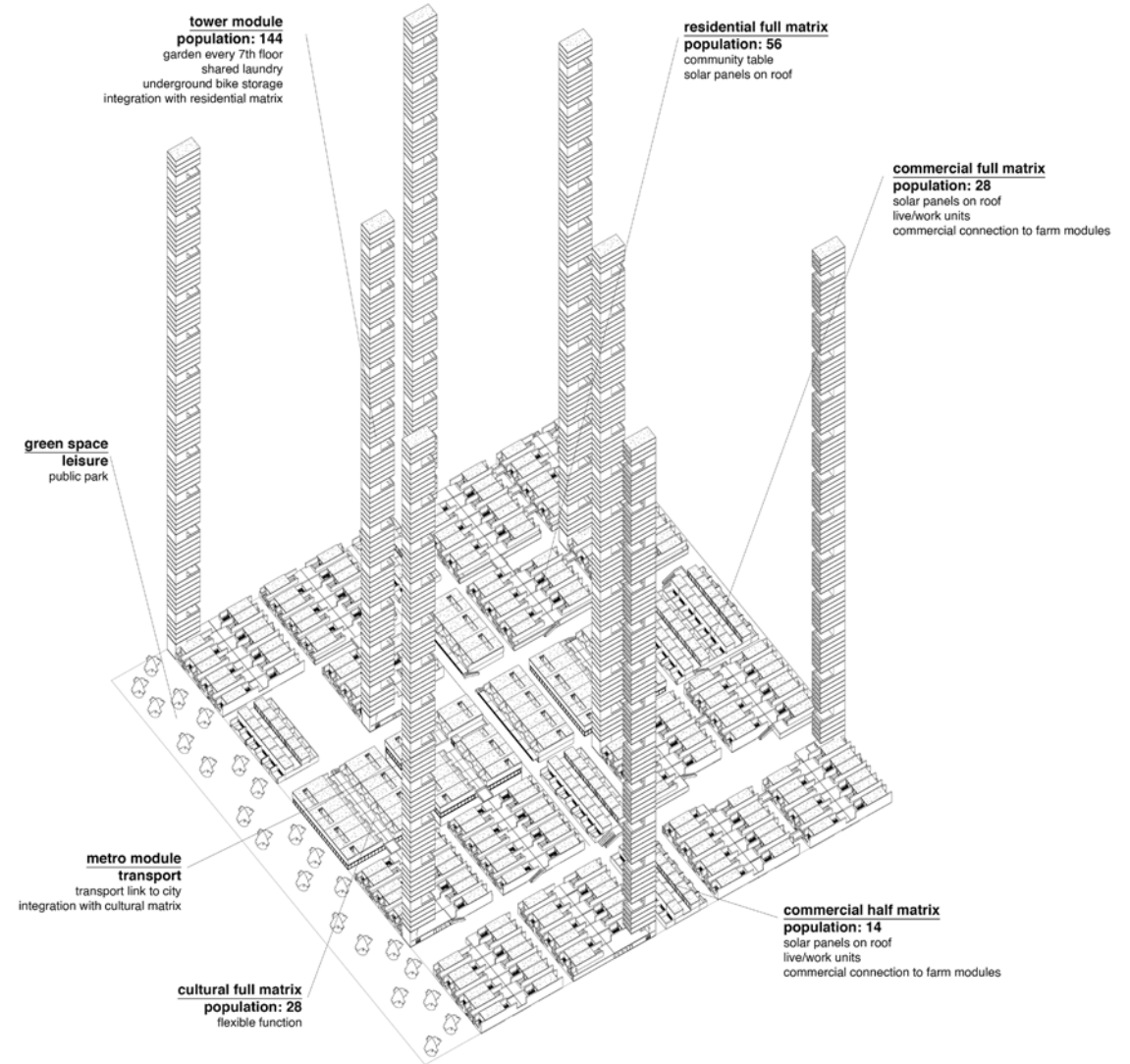
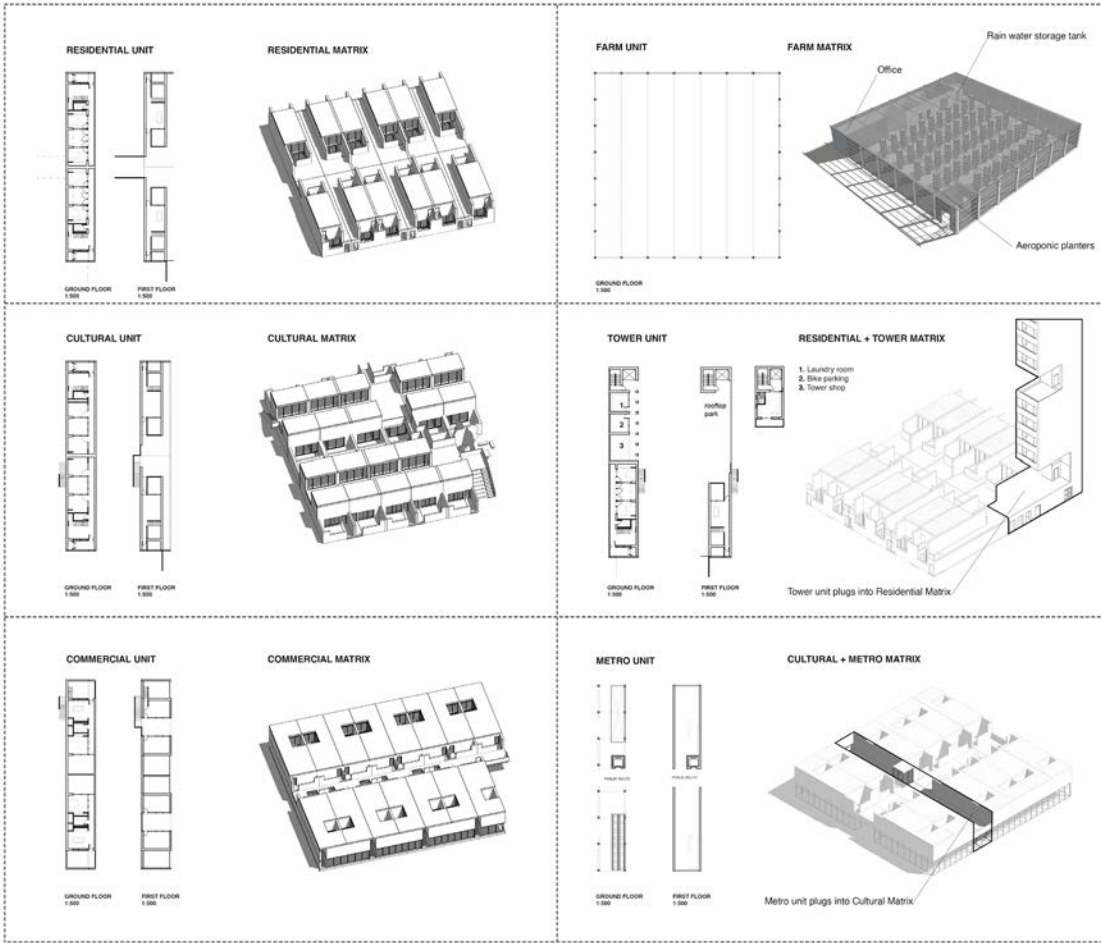


Total percentage of green space = 35.4%

MASTERPLAN 4
1:1250



CLASSIFICATION OF MODULES



MAIN UPPER ALLEY - COMMUNITY TABLE



INTERIOR VIEW - LIBRARY COURTYARD



RESIDENTIAL UNIT - KITCHEN/LIVING SPAC

The Old Town of Shanghai is the traditional urban core of the modern mega-city. Since 2006 there have been attempts to understand its value through the Protection Plan for the Old City Historical Cultural Scenery Area, yet large areas are still under threat of demolition. The low-rise housing schemes - often overcrowded and insanitary - are incapable of responding to the growing pressure of the Chinese housing crisis. The quiet streets are a reminder of the loss of the traditional pluralistic way of life and the deterioration of communities, the neighbouring high-rise buildings showcase a new way of life: a life of introspection.

The Fuxing Hybrid is part of a larger manifesto: **Repair + Revanchism**. The hybrid will offer the opportunity to implement dense residential living and large-scale public programmes such as health care and educational, sporting facilities and technological and enterprising centres into the Old Town without erasure of the existing fabric or displacement of the local community.

FU(X)ING HYBRID

Location [Shanghai]

Winner of the [2020 Dundee Civic Trust Award]

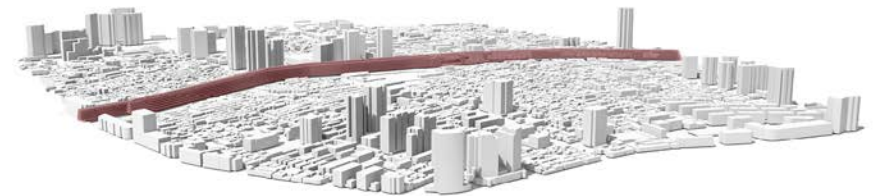




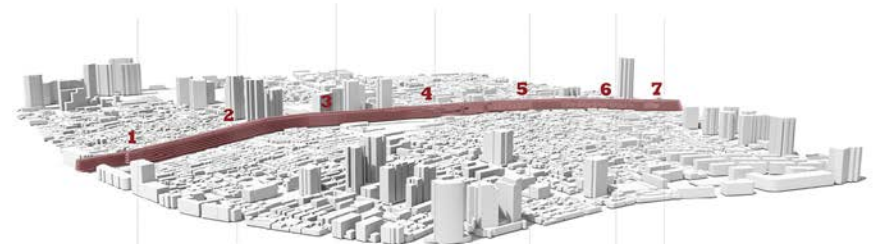
Identify the Fuxing Road as one of the key driving factors within the old town.



Move the road underground

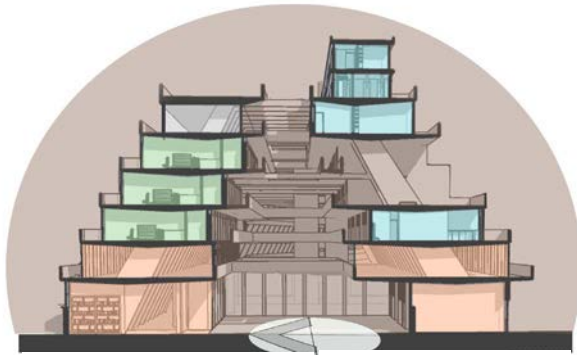


Reclaim the land and construct the Fuxing Hybrid to repair the north and south sides of the Old Town



Divide the Hybrid into 7 transit stops.





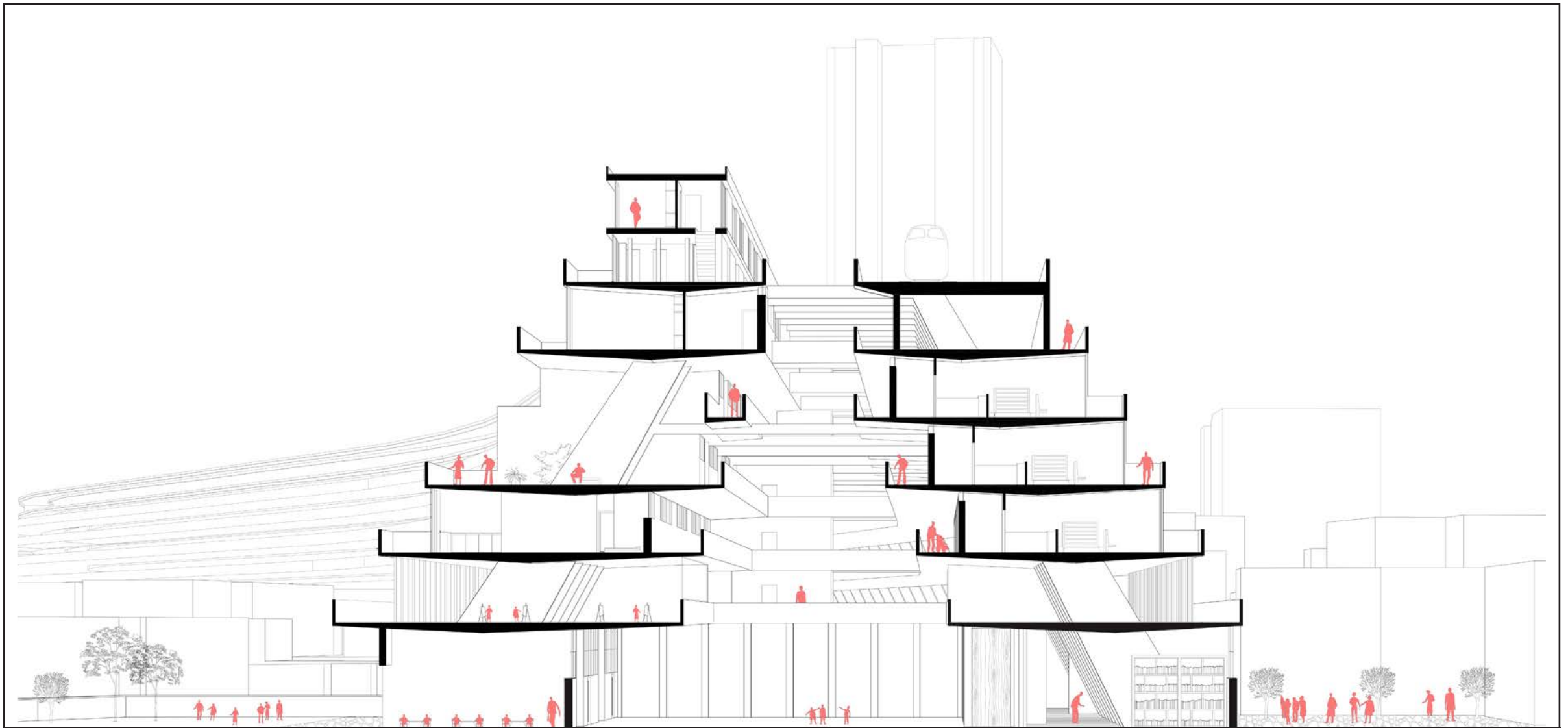
- FULL-TIME ACCOMMODATION
- TEMPORARY ACCOMMODATION
- PUBLIC PROGRAMME
- PUBLIC SPACE



- EXTERNAL
- INTERNAL



Internal render of apartment



Perspectival section



- browse the library - stop off for some food -
- meet with friends - catch the transit - air your dirty laundry -
- watch people from your deck -



- watch your children play from the balcony -
- classrooms open up into the playground -
- drop off the children at school and hop on the transit to work -

The Cauldron is a **global concept**. As a design project, it builds on Arendtian ideas of limit and boundary, proposing a strategy for **resistance to free-market urban housing development** through monopolising mass-housing provision and supply of social programme in a generic bordered form. Using London as a case study, it explores how we might ensure future cities have a **stable core** both in terms of **social programme and a workforce**, who have a stake in their environment.

THE CAULDRON

Location [Global]

Masters Design Project [INCOMPLETE]

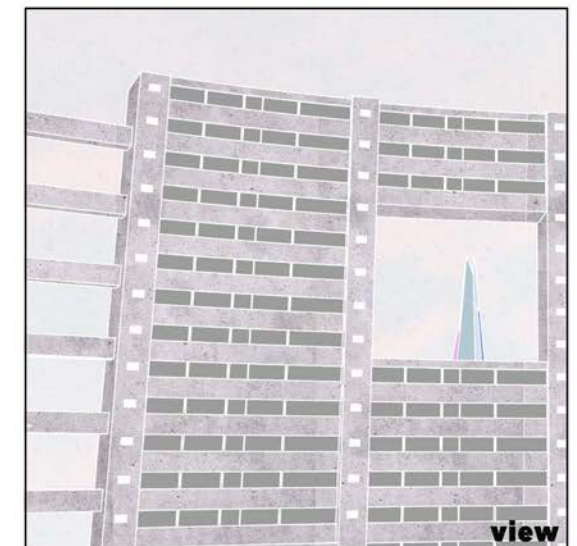
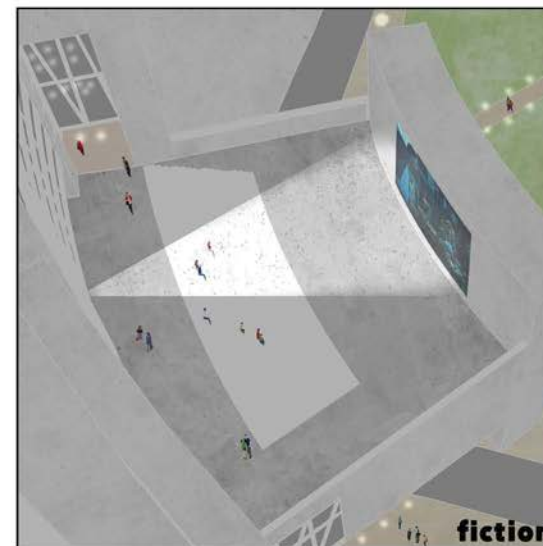
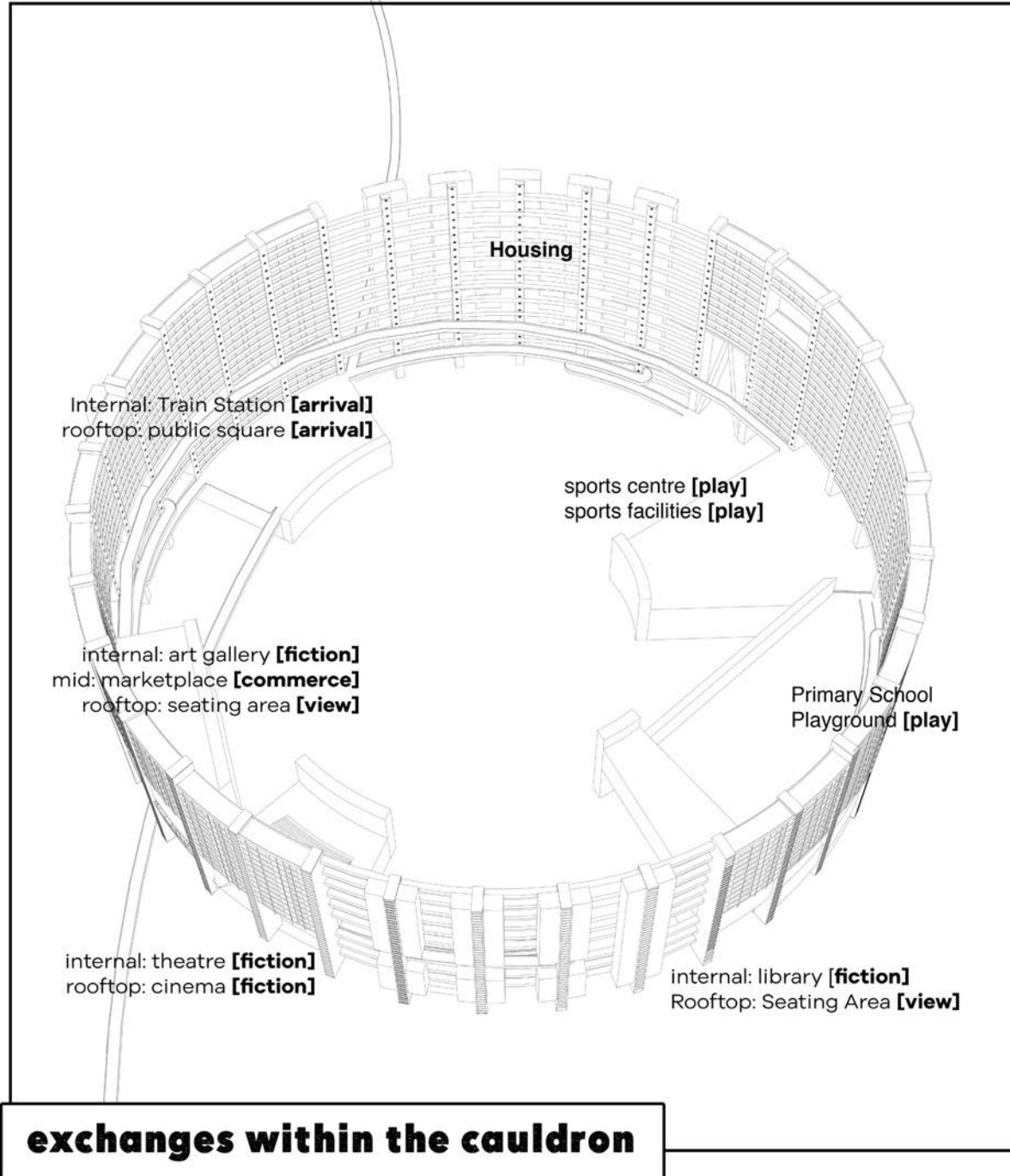
WORK IN PROGRESS!



Henri Lefebvre said the modern city needs places where "exchange would not go through exchange value, commerce and profit."

I have defined these exchanges in six categories within the cauldron: play, nature, views, fiction, arrival and commerce, with each function of the Cauldron fitting into one of these categories. Where commercial exchanges appear, they will be small, in the form of market stalls or small restaurants which can be operated by inhabitants.

"an opportunity for inhabitation, festival and play and not merely as a functional habitat impelled by the needs of power and capital" henri lefebvre



shared systems

The structure of the apartments is designed in such a way as that no one can truly own an individual apartment. By having structural beams which run through multiple apartments, floor slab stability dependant on partition walls and services relying on the position of walls, ducts and vents, the lines of ownership become blurred and it becomes impossible to alter the layout of the flat in any way which could alter the value of the apartments.

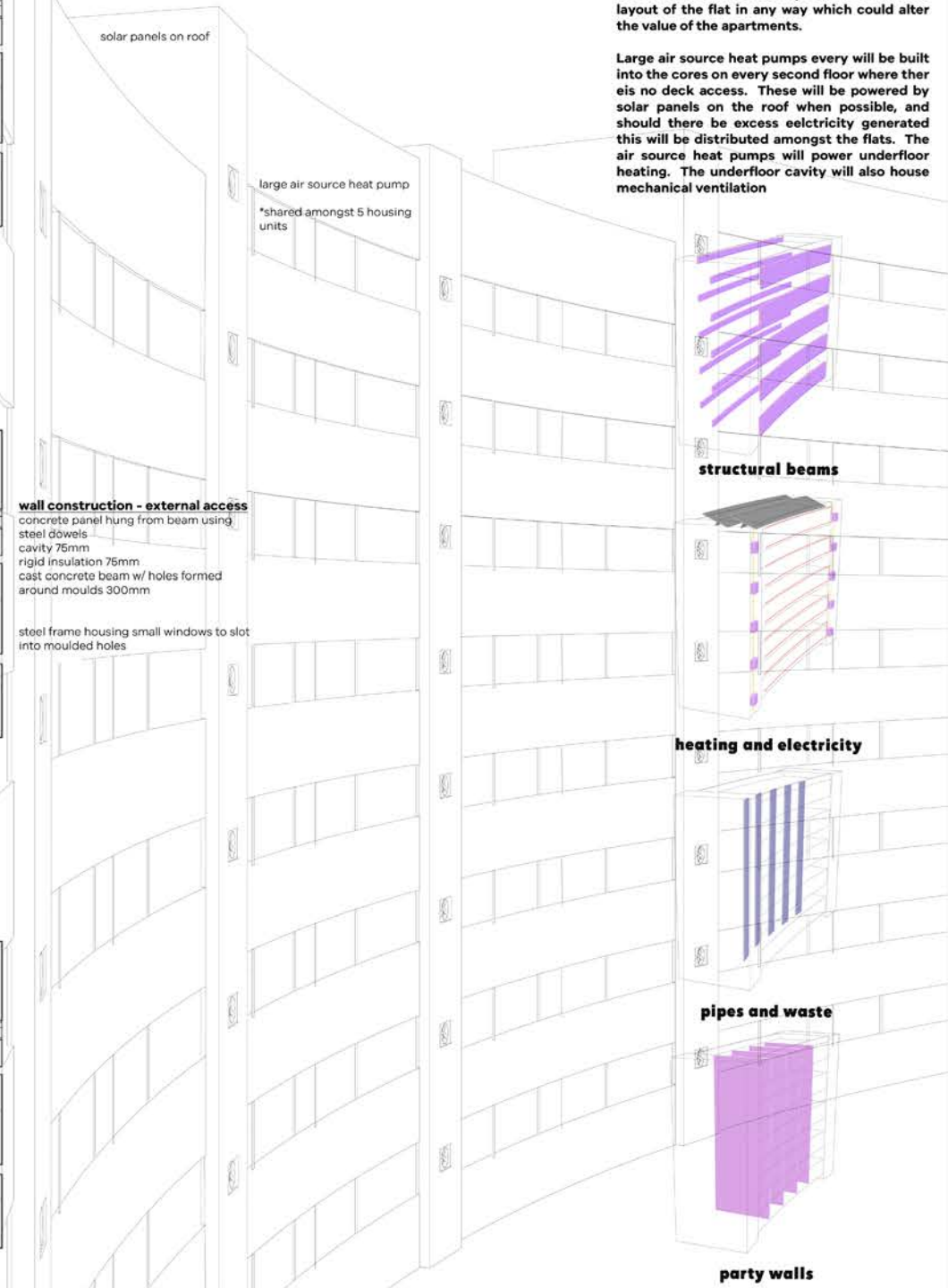
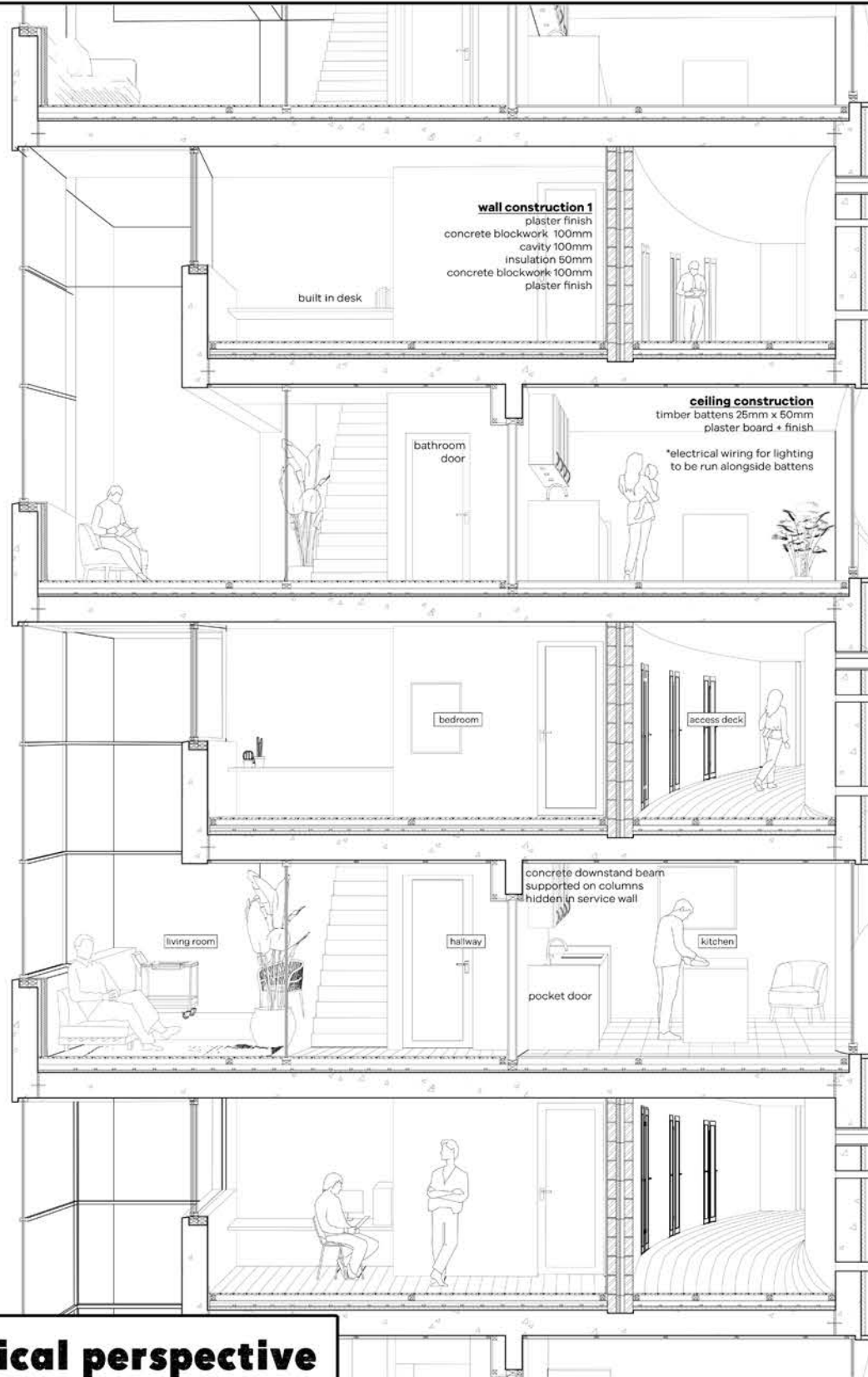
Large air source heat pumps every will be built into the cores on every second floor where there is no deck access. These will be powered by solar panels on the roof when possible, and should there be excess electricity generated this will be distributed amongst the flats. The air source heat pumps will power underfloor heating. The underfloor cavity will also house mechanical ventilation

floor construction - living room
 cast concrete slab
 rigid insulation 25mm
 screed 65mm
 flooring batten (50mm x 50mm)
 hardwood flooring

*screed to house underfloor heating pipes and mechanical ventilation

floor construction - balcony
 cast concrete slab
 DPC
 rigid insulation 150mm
 membrane (single ply)
 gutter
 delivery batten (50mm x 50mm)
 decking board 20mm

*6mm gap between decking boards



1 unit flat technical perspective

The primary concept for us was to create a **harmony between the working and living conditions** within the design. Both of these functions occur within the solid base of the school. Holes have been cut into the roof to allow skylights and courtyard spaces around which programme is orientated.

The residential units are divided into four blocks which house 12 students each. All bedrooms face into central courtyards to allow for the kind of collaborative living seen in the original Bauhaus, with a visual connection instead of an audible one.

On top of the base, sits a glass cube. The objective of this is to give the school a presence in the city whilst providing a transparent exhibition space.

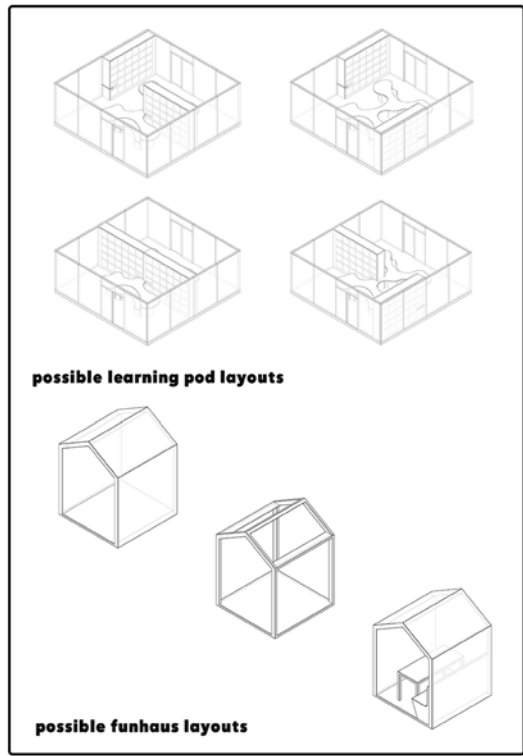
From the exhibition space there are views into some of the open plan studios below, this is to offer the public an insight into the workflow of the students. These studios will be occupied by flexible modules to allow students to **customise their workspace.**

GLASHAUS

Location [Dessau]

International Competition [completed as 24hr charrette]





flexible classroom modules

