

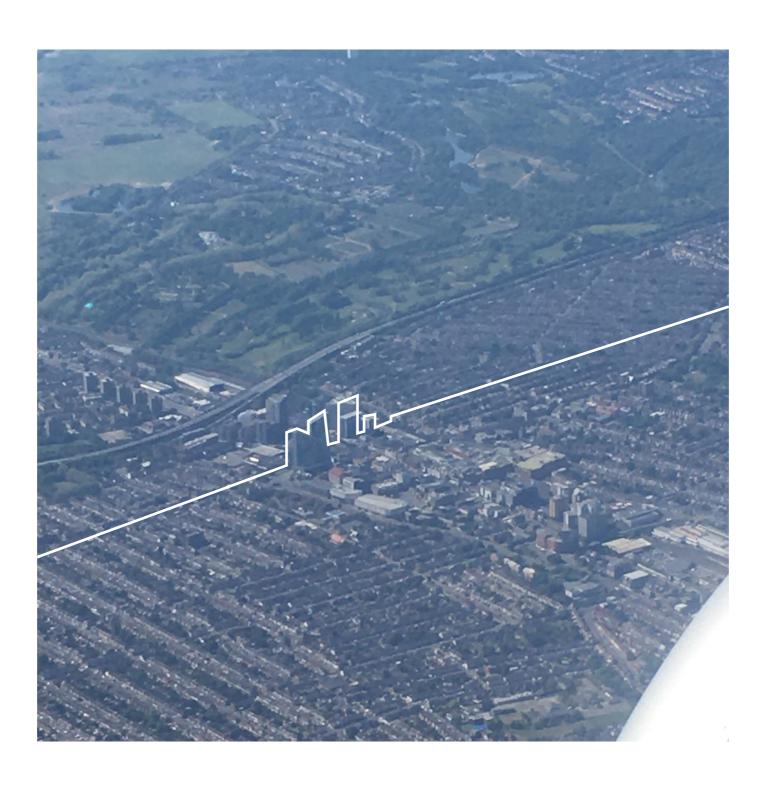
Linearities

Coral Reefs in the Sea of Urbanity
Presentation 5

1. Suburban Exodus

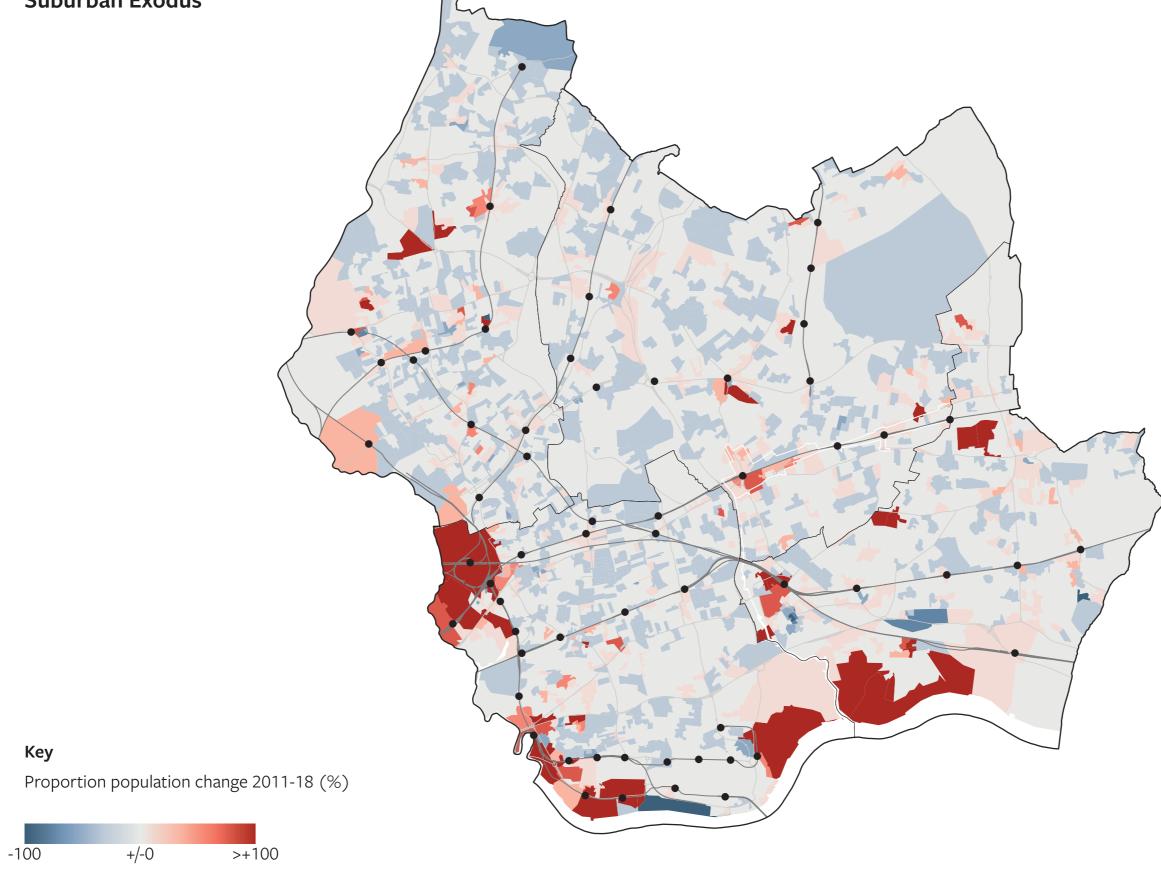
Introduction

Suburban Exodus



Introduction

Suburban Exodus



Data source: Nomis Census 2011

As people migrate towards infrastructural corridors, so the **topography** of suburbia is dramatically warping.

2. The Urban Coral Reef

Framework

Perception

Deduction

Deployment

This is the story of a man made coral reef.

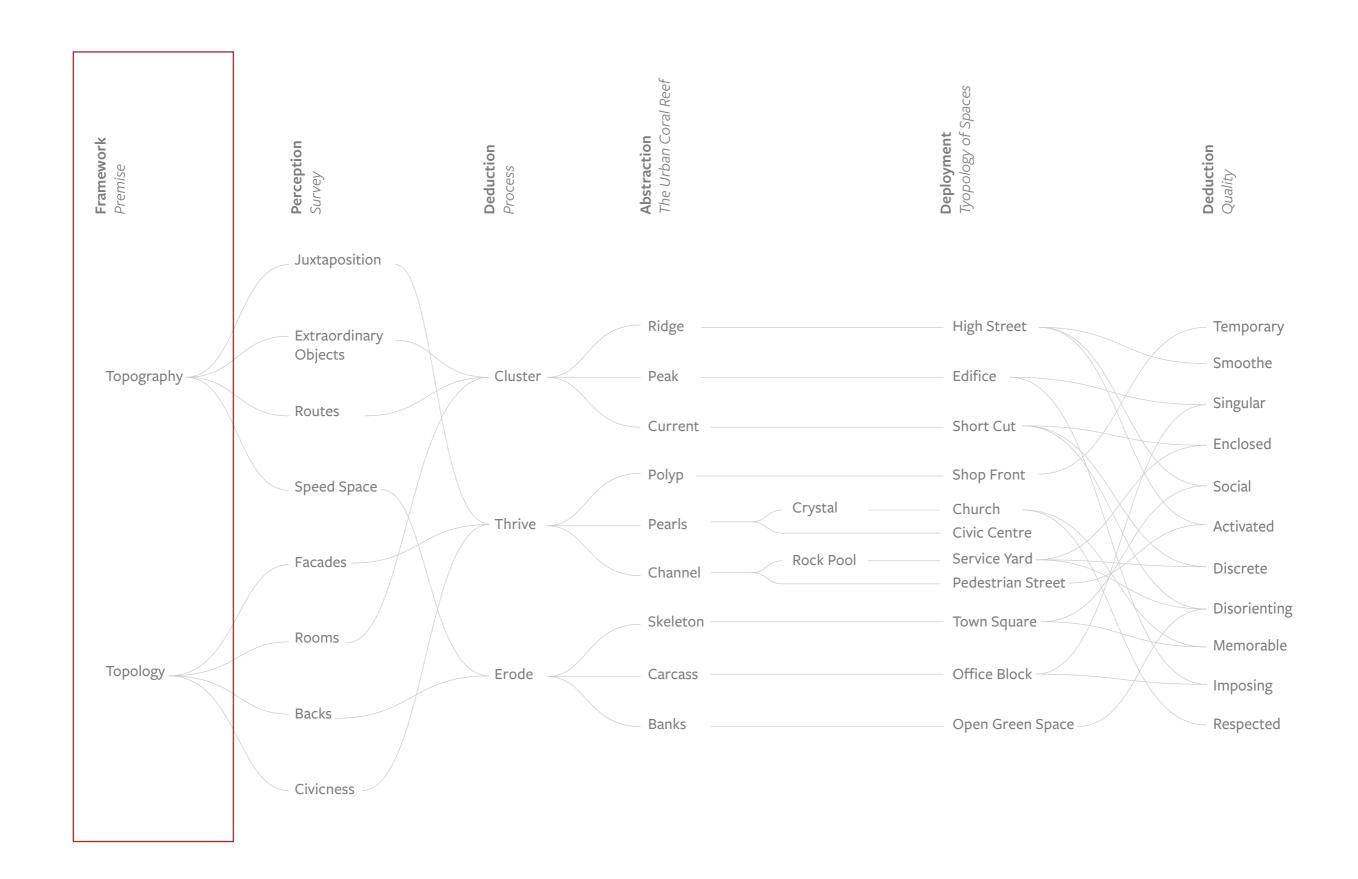
2. The Urban Coral Reef

Framework: patterns of linearity

Perception

Deduction

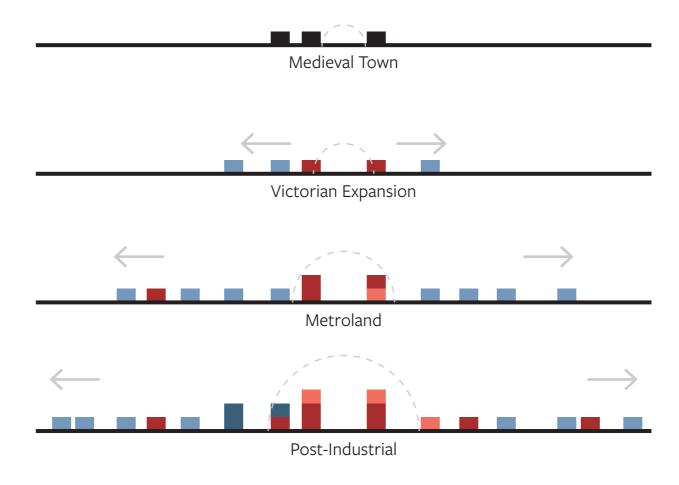
Deployment

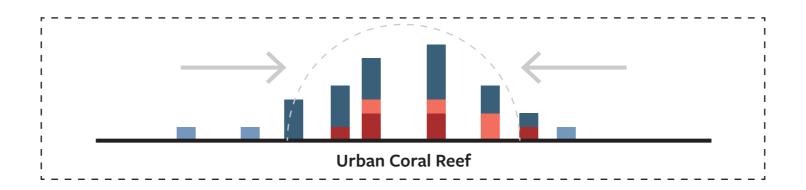


Linearity is an emerging urban form



Suburban Exodus





Key



Flatted Block

Commercial

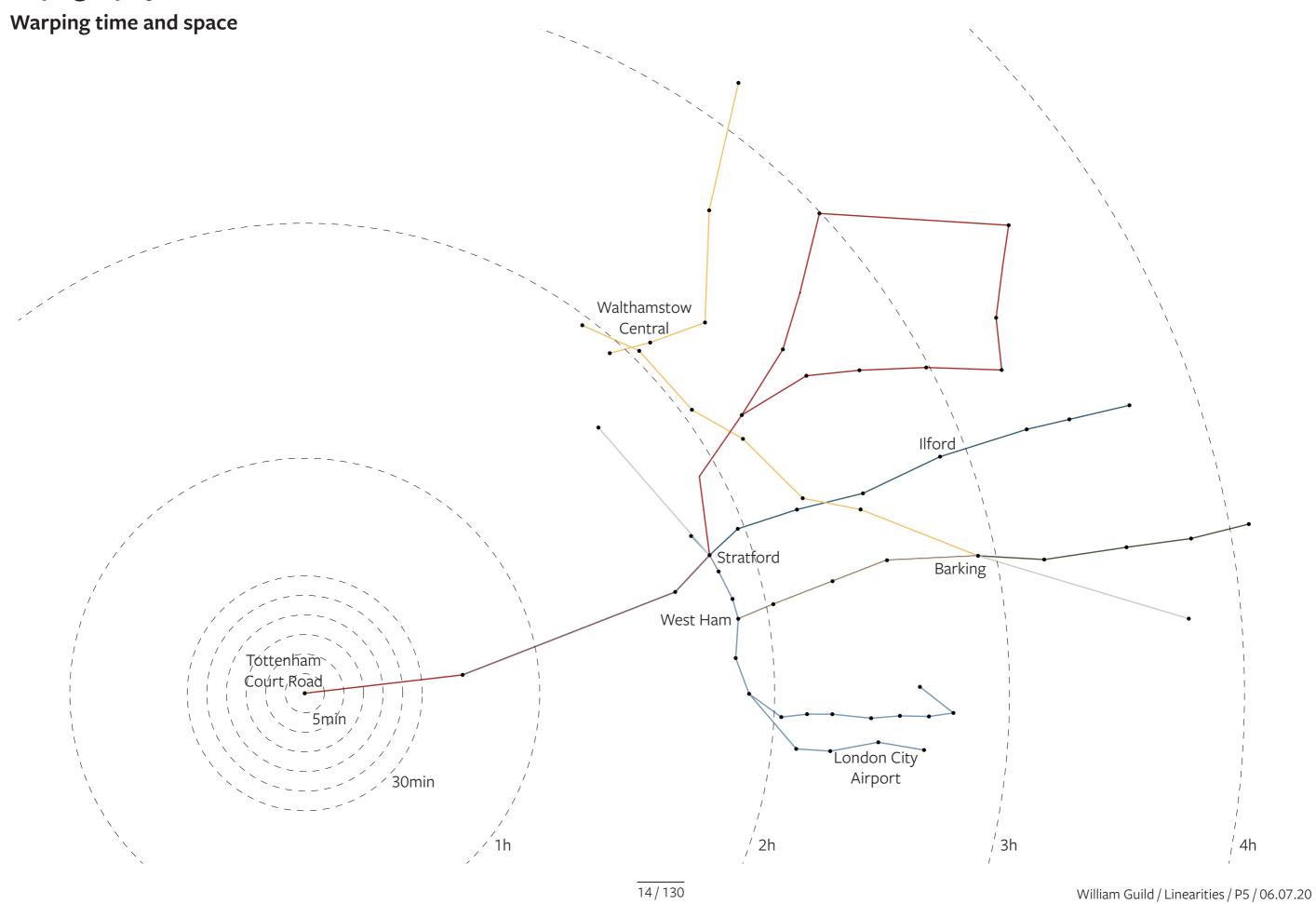
Retail

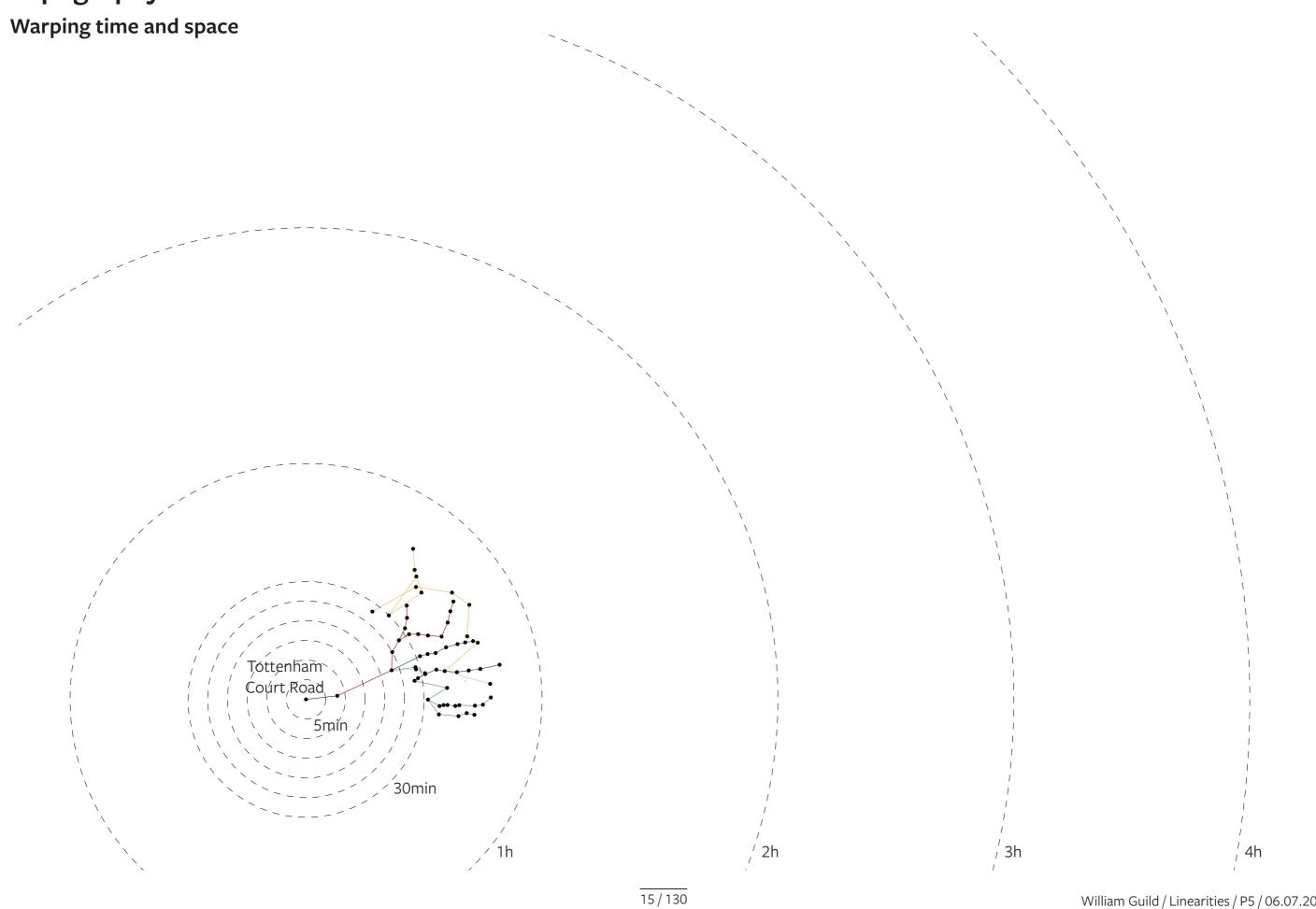
Urban infrastructure: Crossrail



Elizabeth Line (CR1)

Stations

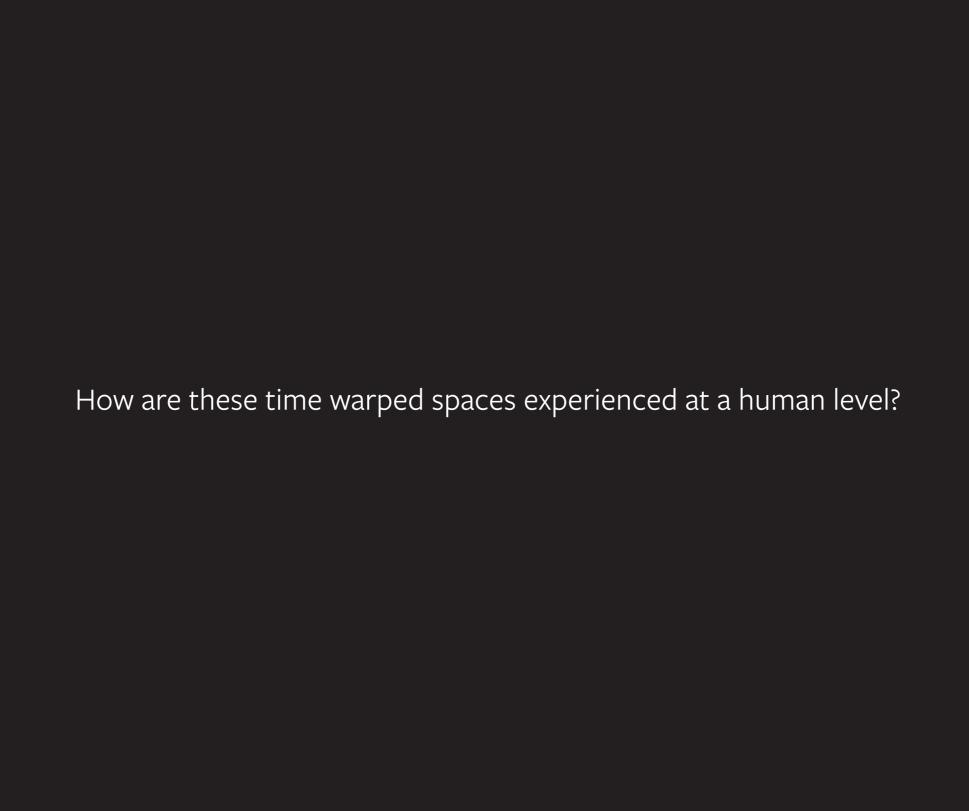




Warping time and space

Picon, Antoine. *La Ville Territoire Des Cyborgs*. Tranches De Villes. Besançon: Les Editions de L'Imprimeur, 1998 : 22-23.

'The substitution of the notion of accessibility to that of distance forces crucial distinctions into a state of crisis, such as that of centre and periphery.'



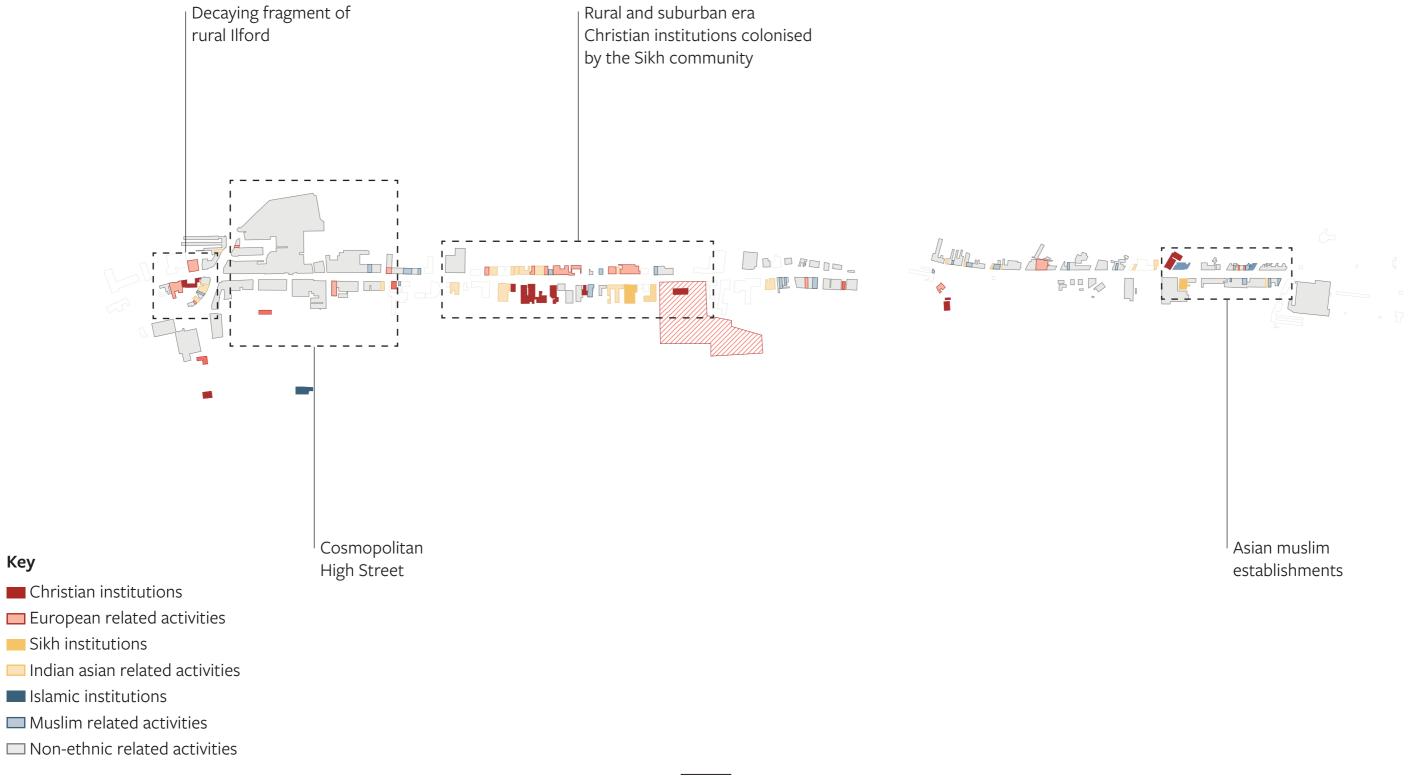
The urban coral reef is not merely a **topographic** entity, it is also defined by its **topological** qualities.

Cultural diversity





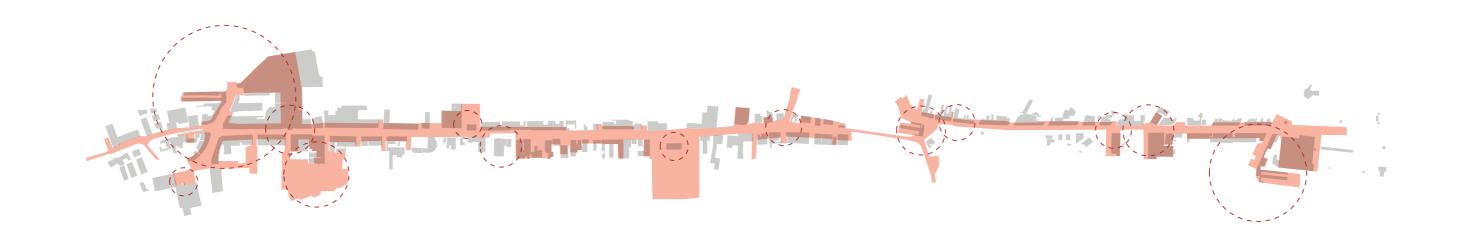
Cultural diversity



Field of intensity

'The new institutions of the city will perhaps occur at moments of intensity linked to the wider network of the urban field, and marked not by demarcating lines but by thickened surfaces.'

Allen, Stan. 1997. "From Object to Field." Architectural Digest 67 (127):24-31.



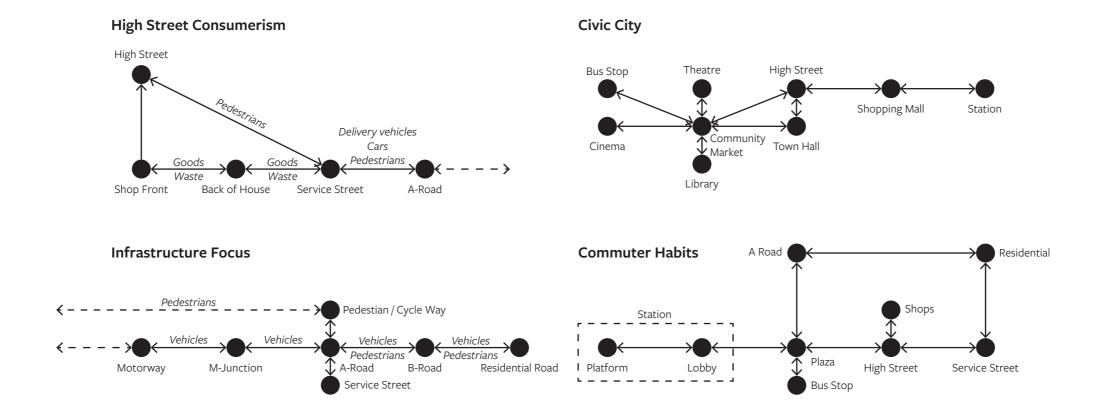
Field of intensity

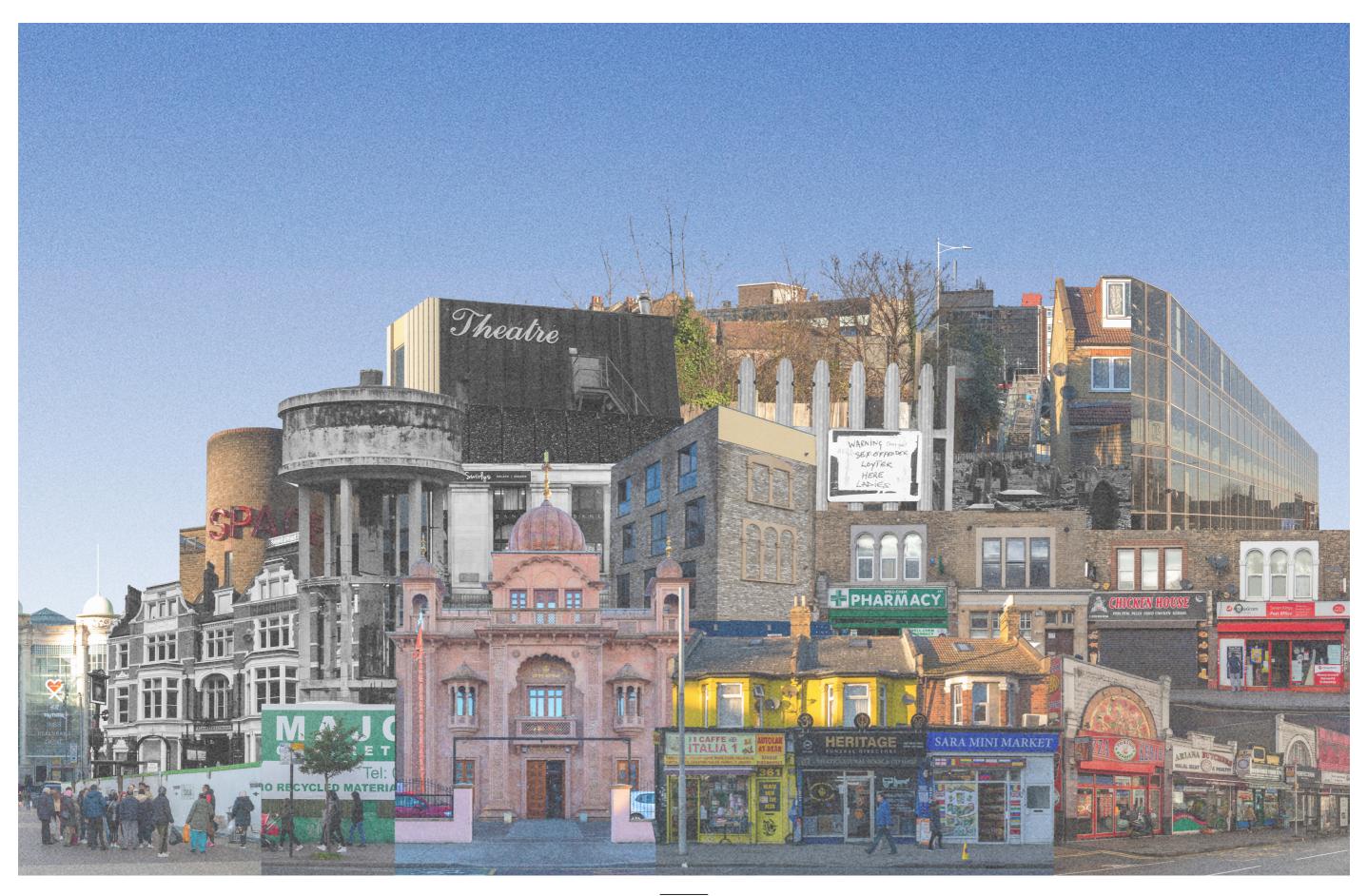




density

Relational space





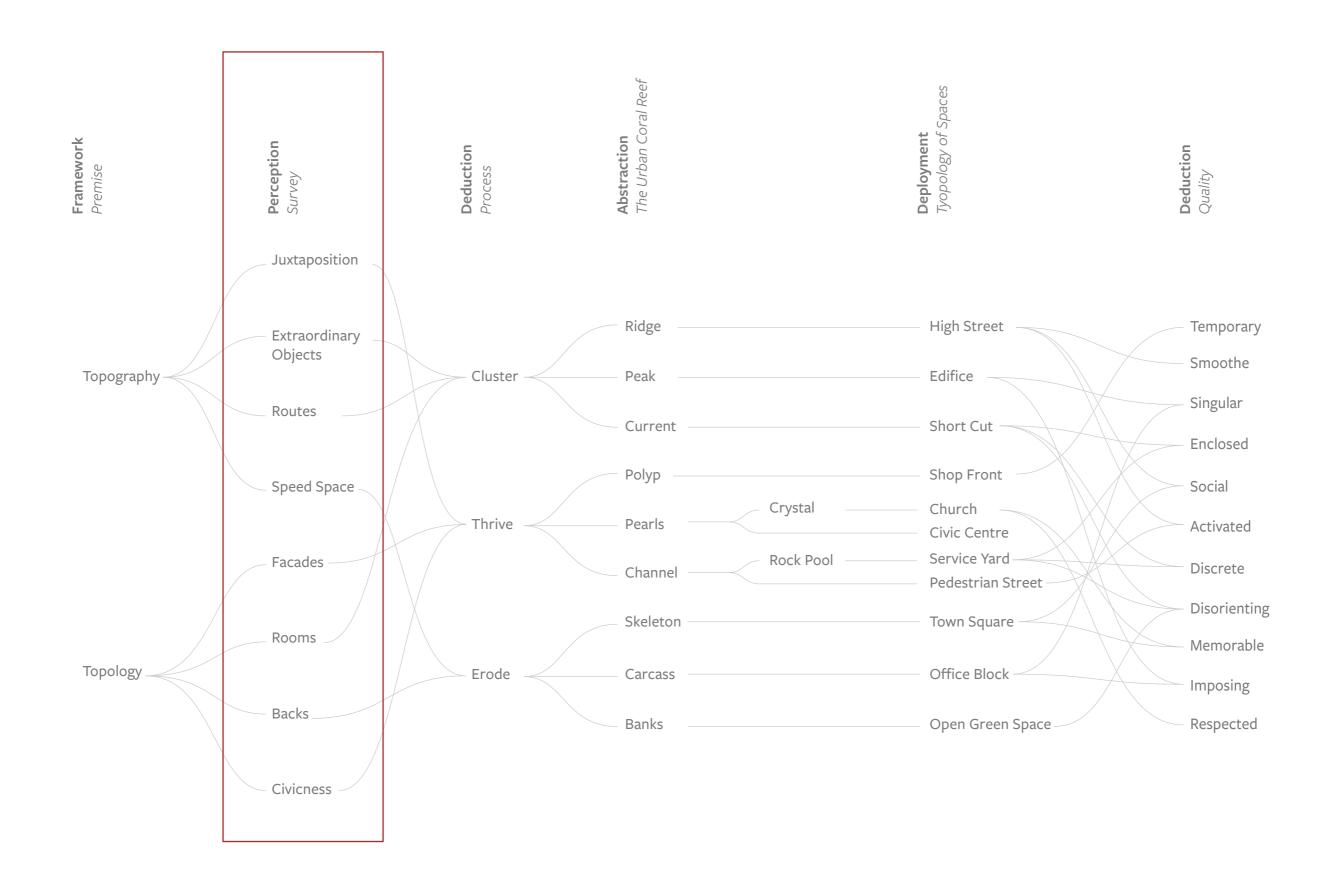
2. The Urban Coral Reef

Framework

Perception: a fragmented landscape

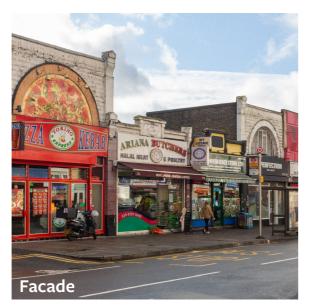
Deduction

Deployment



The apparent chaos of the reef conceals an underlying coherence in the perception of this space.

What are the underlying mechanisms supporting life in this place?





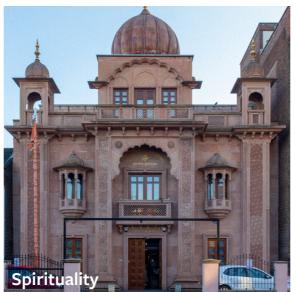






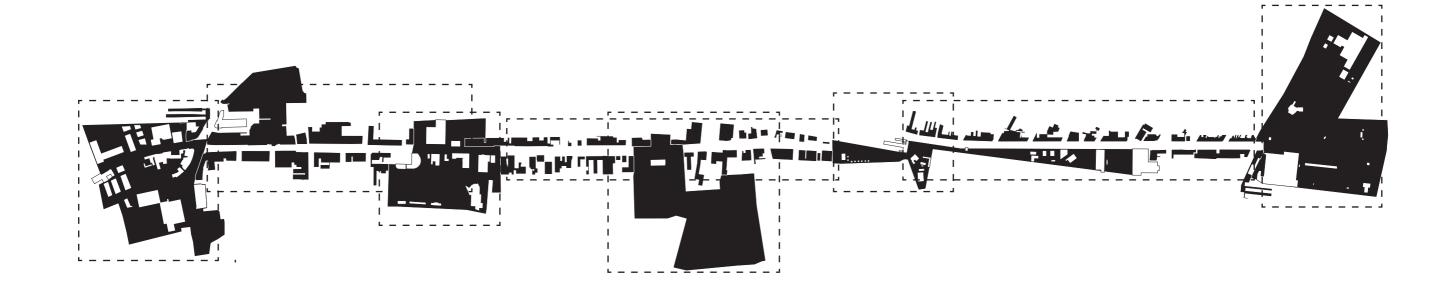






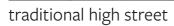


Inversion of spaces



Cluster and erosion



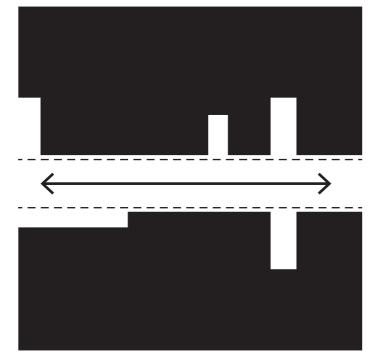




eroded fabric

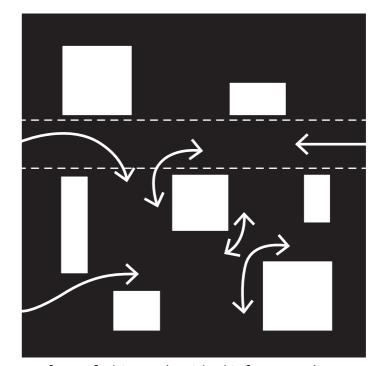
Cluster and erosion

Cluster



Condensed linear space (high street)

Erosion



Surface of objects (residual infra-scape)

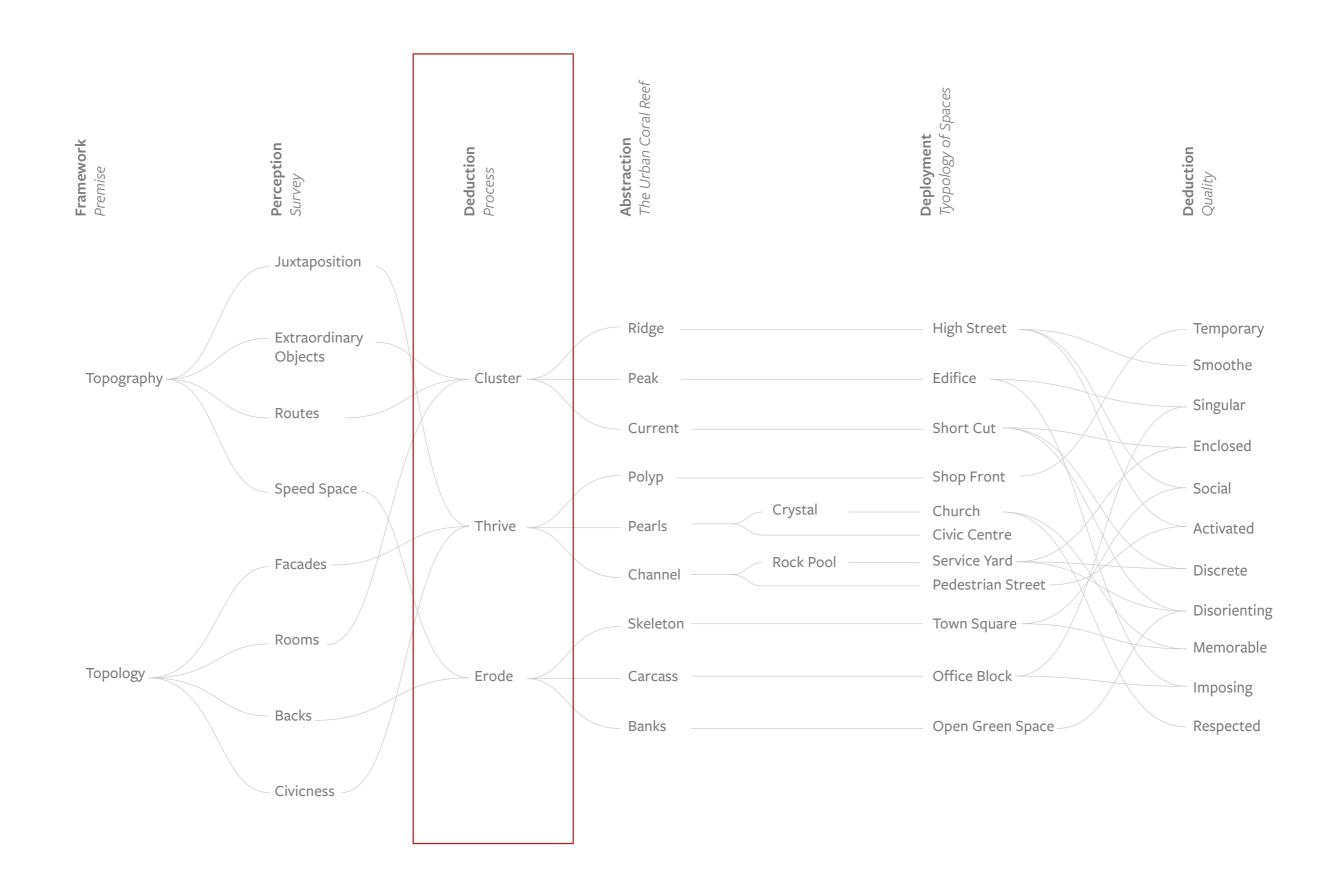
2. The Urban Coral Reef

Framework

Perception

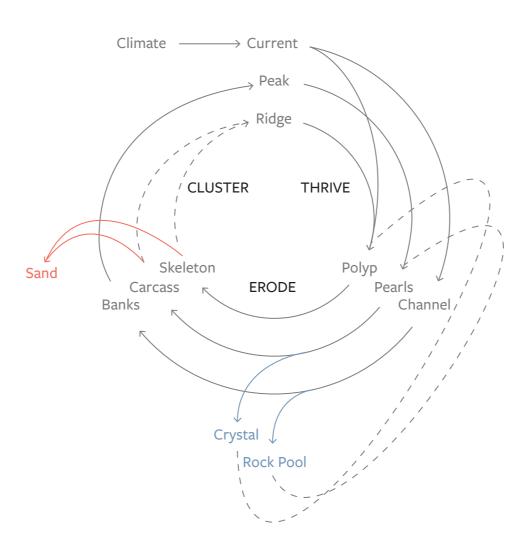
Deduction: process of renewal

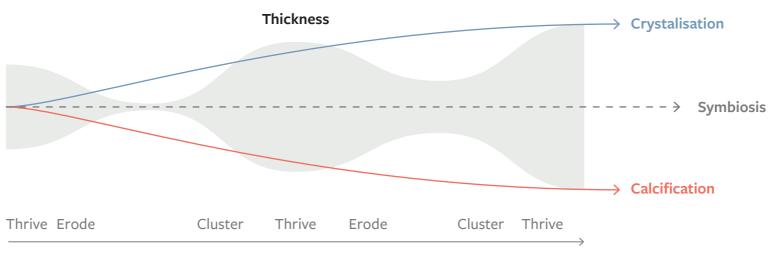
Deployment



Deduction

Process





Deduction

Cluster ----- Erode -----







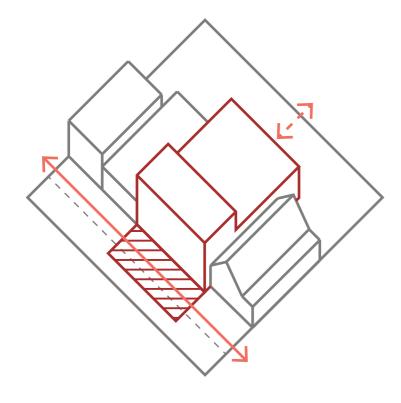
Current

Channel

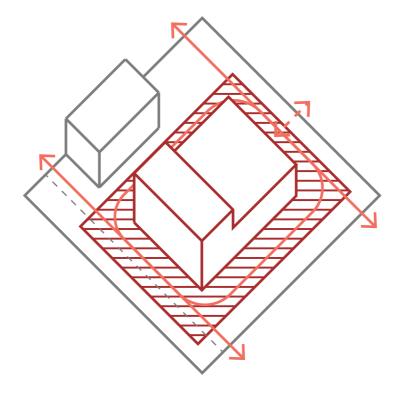
Sand Bank

- 1. Bridge across the River Roding towards Ilford (c.1900) (Redbridge Archive)
- 2. High Road looking West towards Bank (c.1930) (Redbridge Archive)
- 3. Construction of North Circular junction at Ilford (c.1960) (Redbridge Archive)

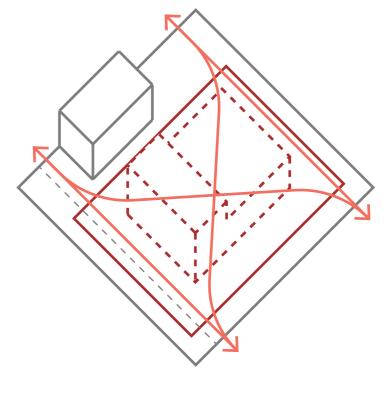
Deduction



IntegrityA front to the High Street and a back for servicing

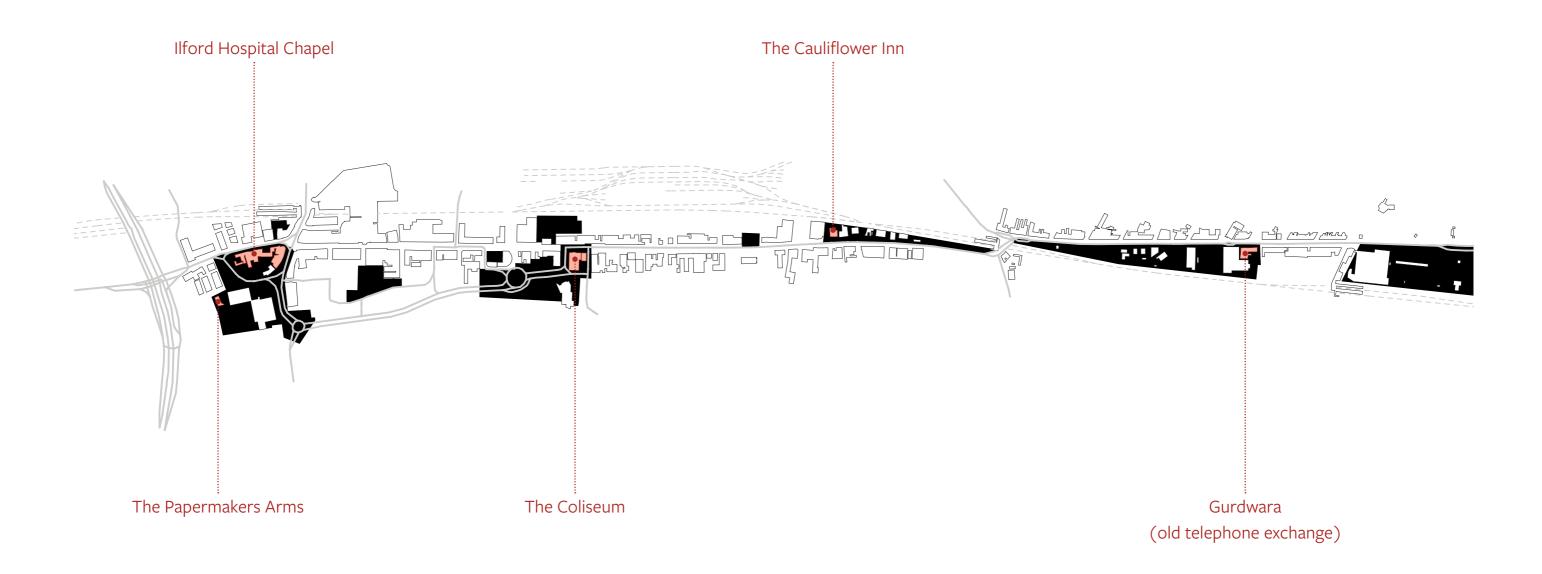


Isolation
Infrastructural incisions collapses the traditional anthropomorphic rational of the block



Abandonment
The block cannot sustain human activity and is eventually abandoned

Deduction



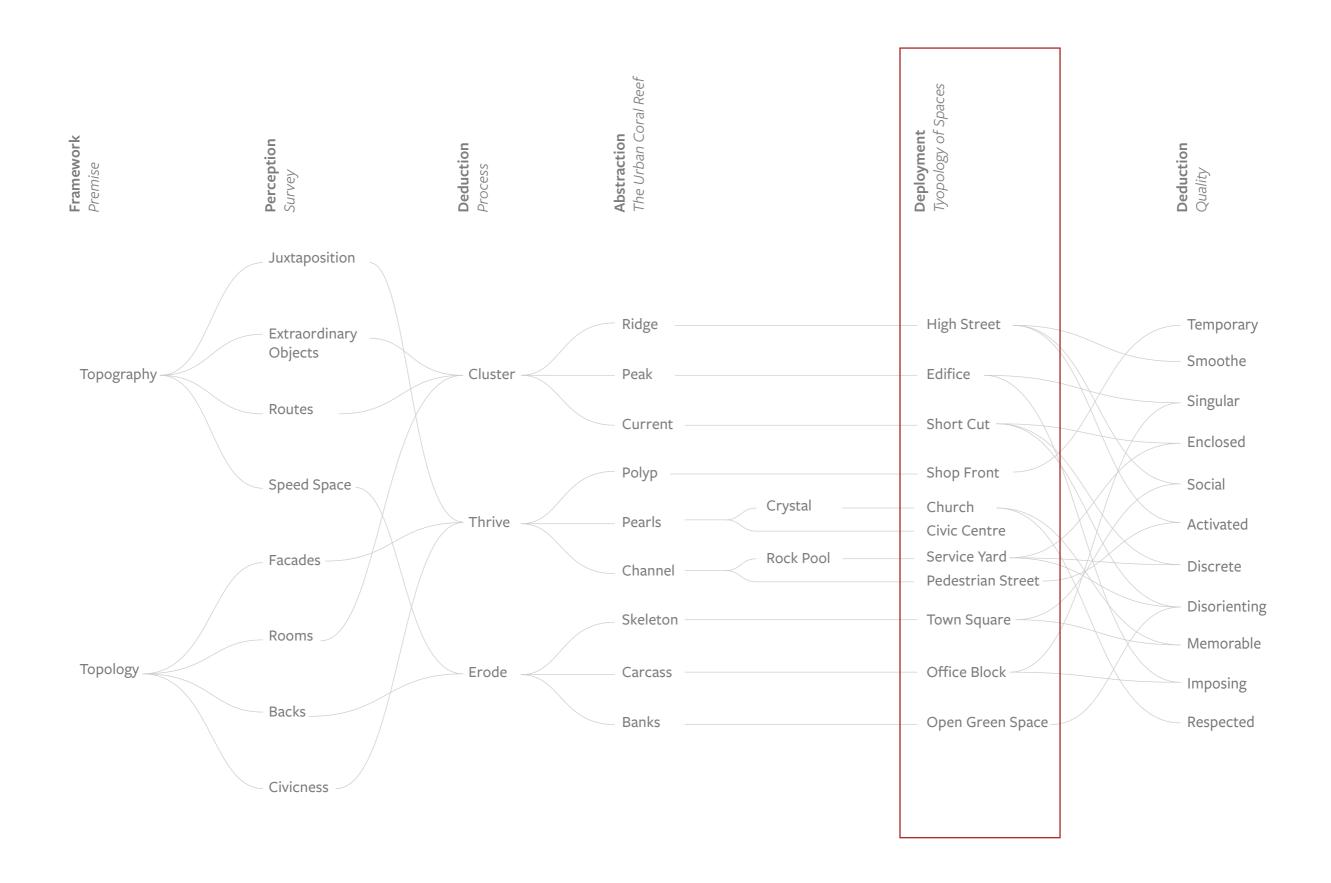
2. The Urban Coral Reef

Framework

Perception

Deduction

Deployment: typology of spaces



Remnants of past histories

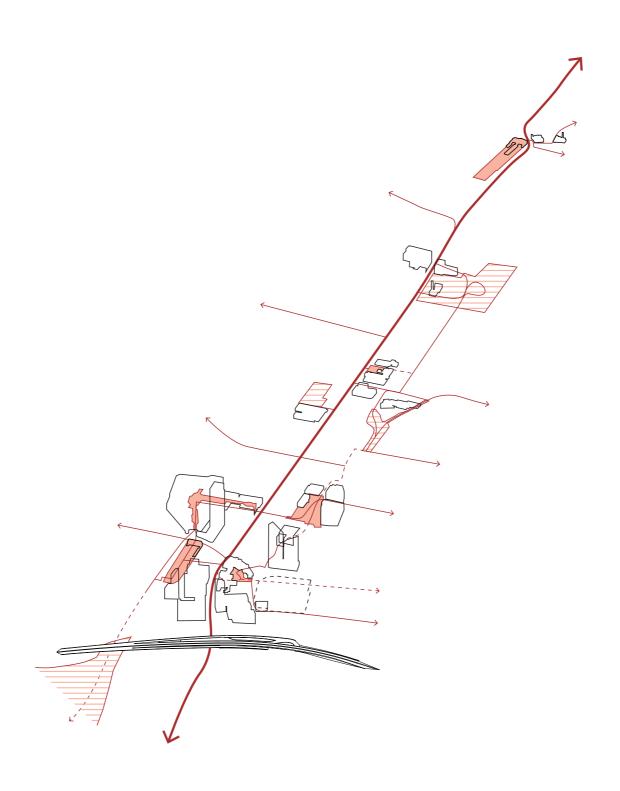




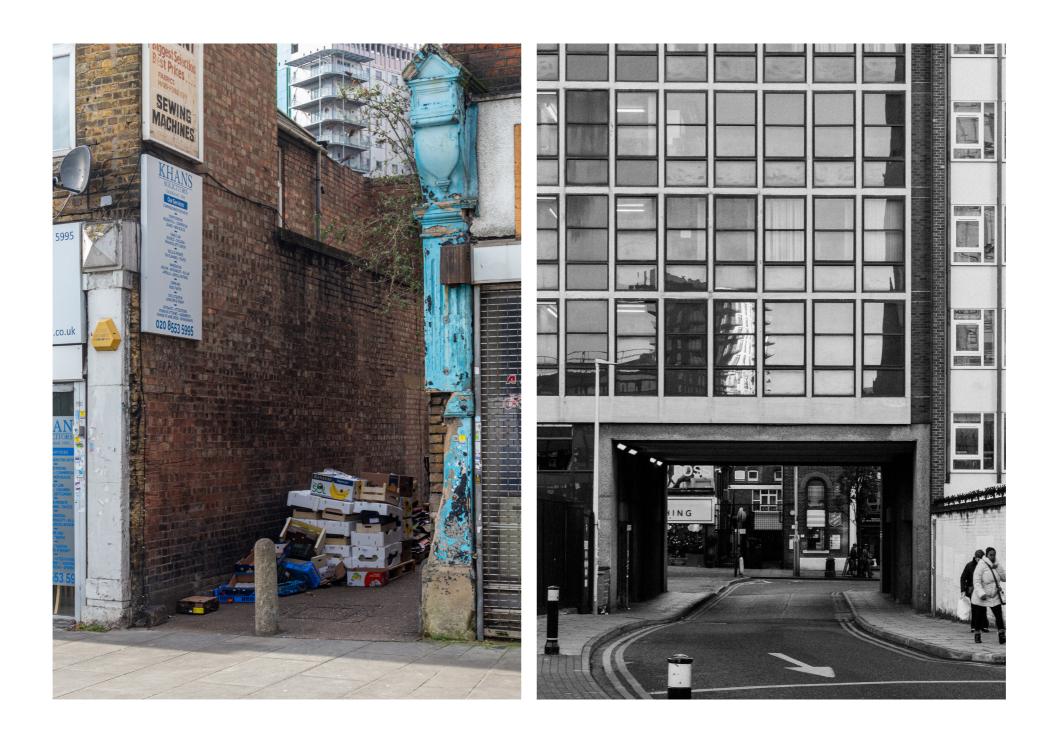




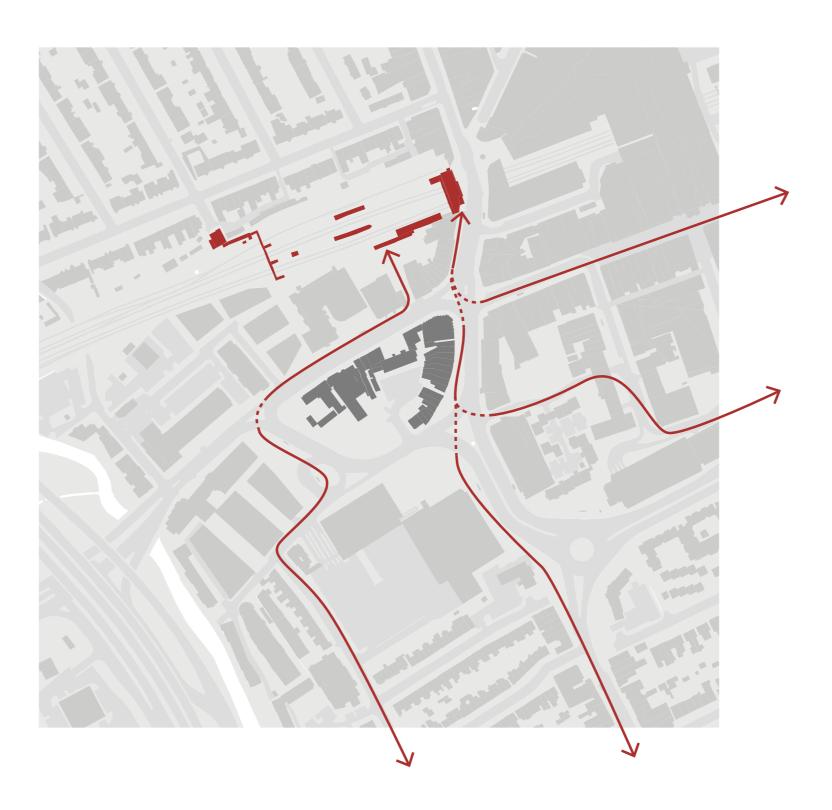
Non linear network in a linear space



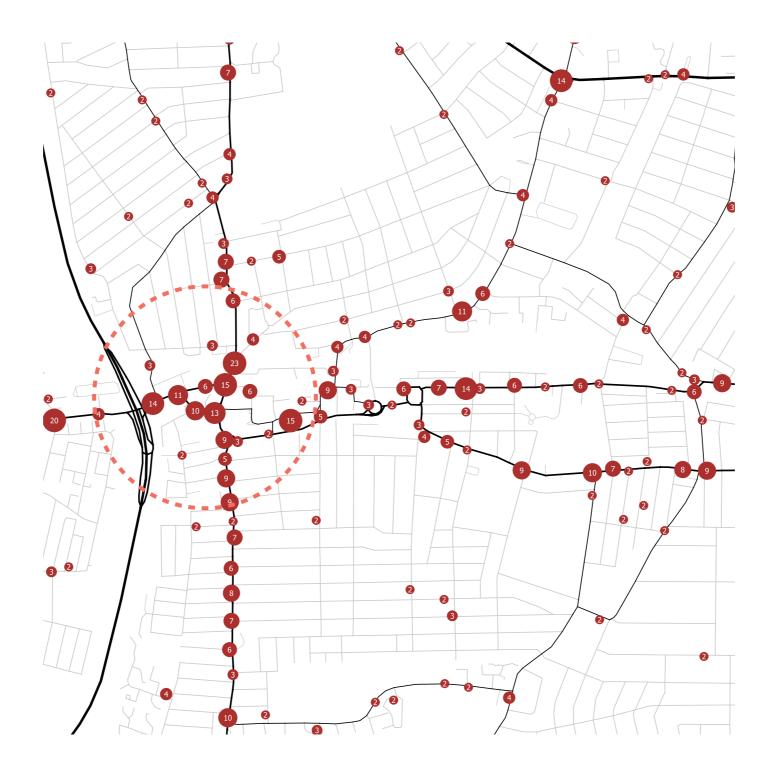
Non linear network in a linear space



Discontinuity of flows



Discontinuity of flows



Pedestrian and cyclist accidents between 2005 and 2014 (source: Transport for London)

Discontinuity of flows





Mending the fragment

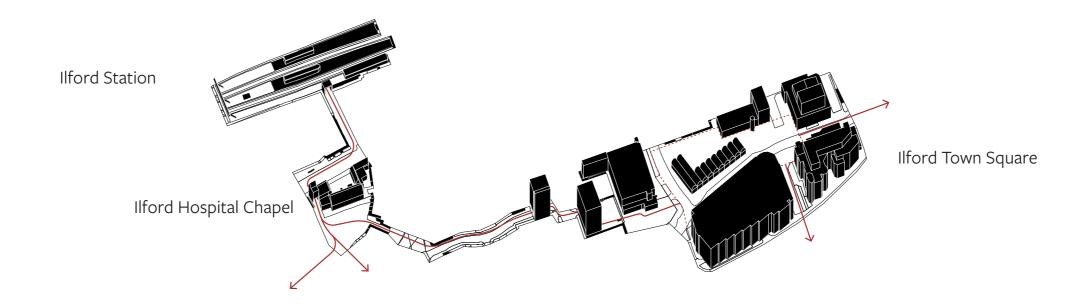




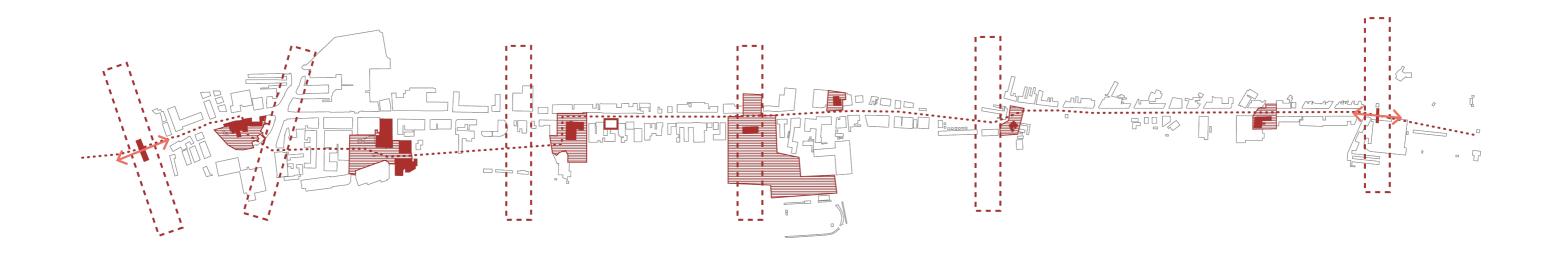
Projecting new routes

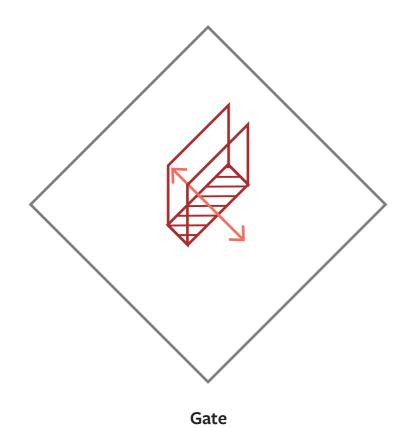


Projecting new routes

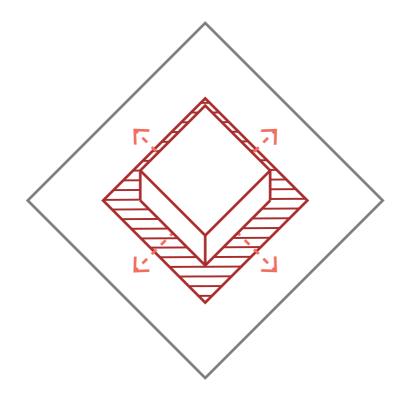


Projecting new routes

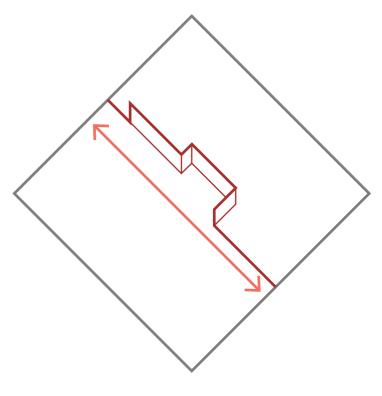




Marking a boundary condition



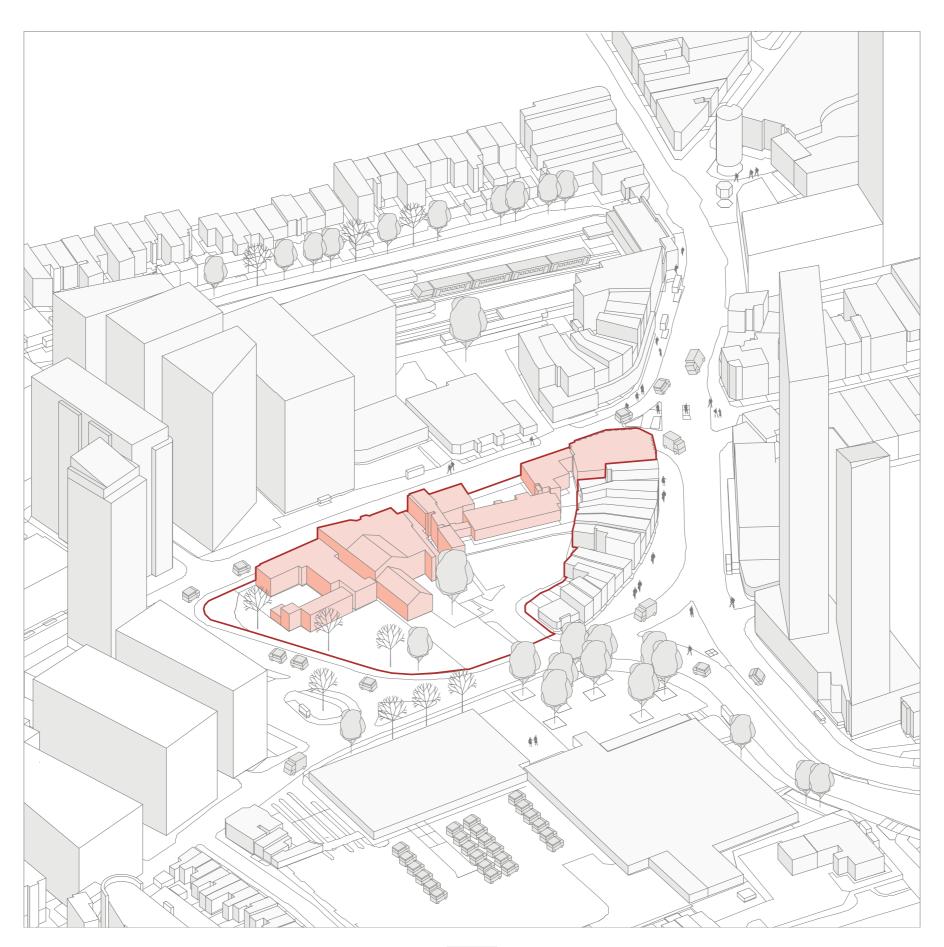
Surface
Taking ownership of the immediate
context of the block



Frontage
Improve the legibility of the facades along the high street

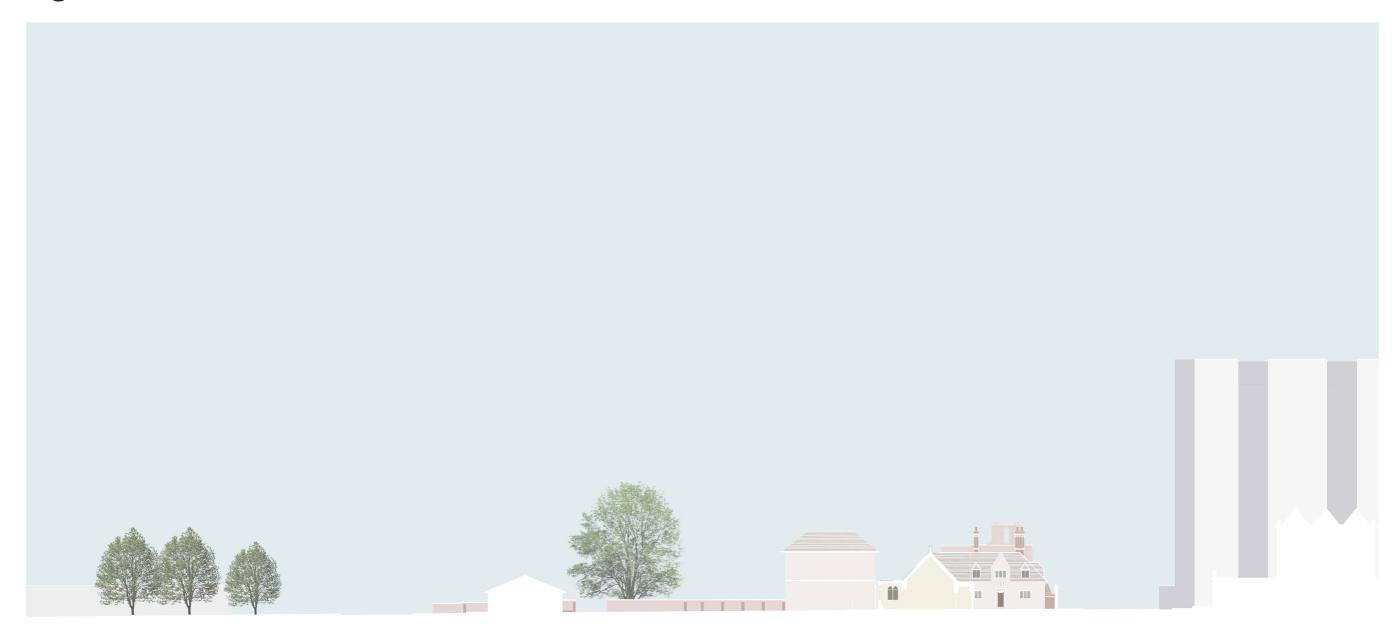
3. Chapel Square

Integrating
Placemaking
Bookending
Materialising











3. Chapel Square

Integrating: mending the urban

Placemaking

Bookending

Materialising

Design Tools

Erode	Cluster	Thrive
Punching	Routing	Inserting
Excavating	Grounding	Infilling
Stripping	Framing	Grafting

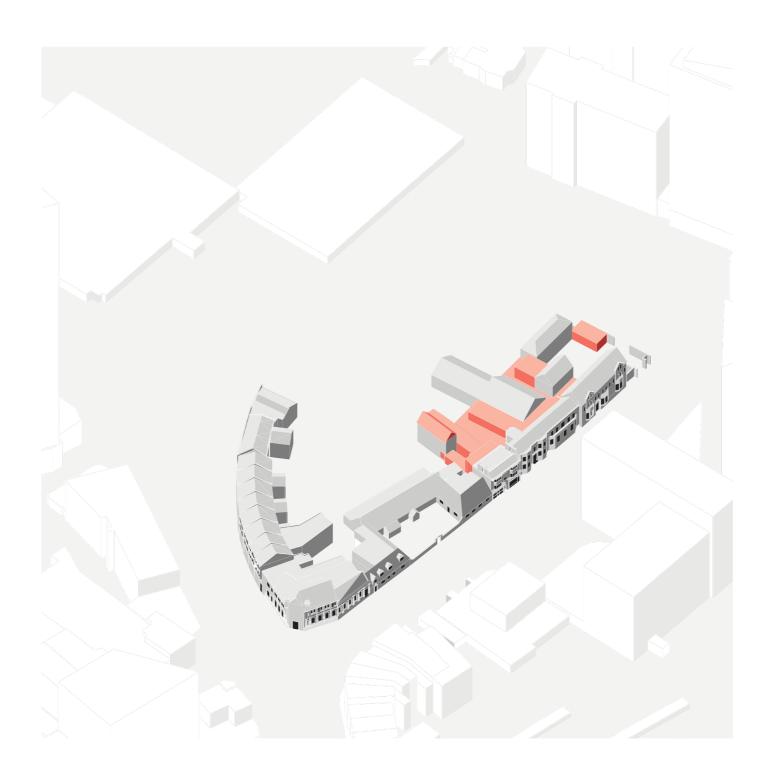
Current

Existing site condition



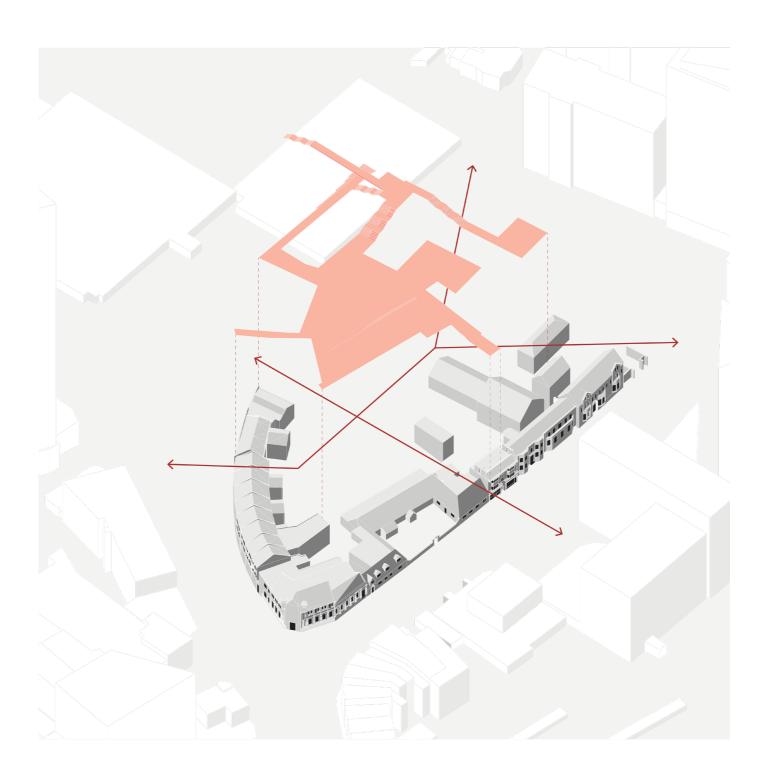
Demolition

key portions of the block are removed



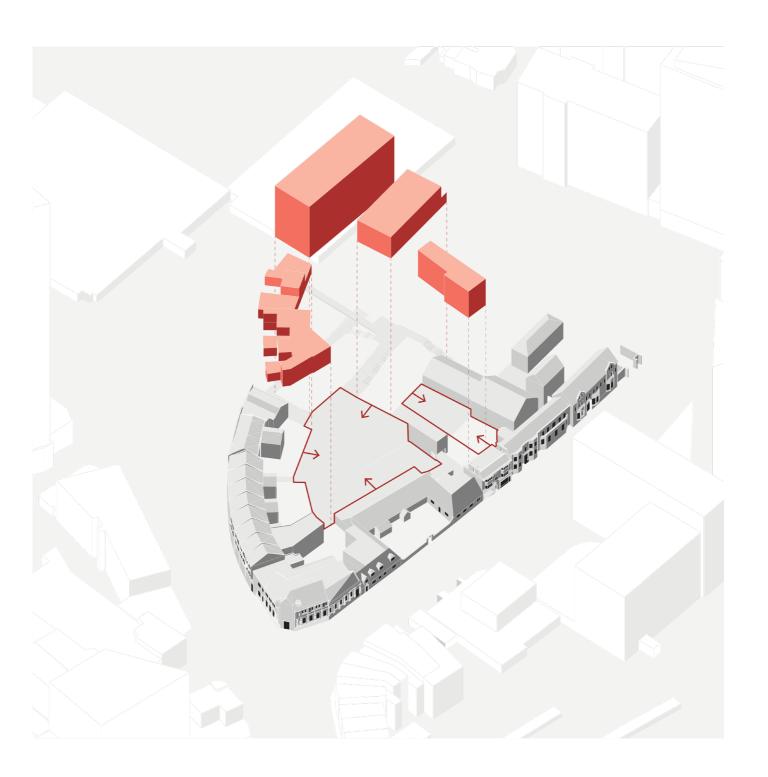
Routing

routes through the site are defined



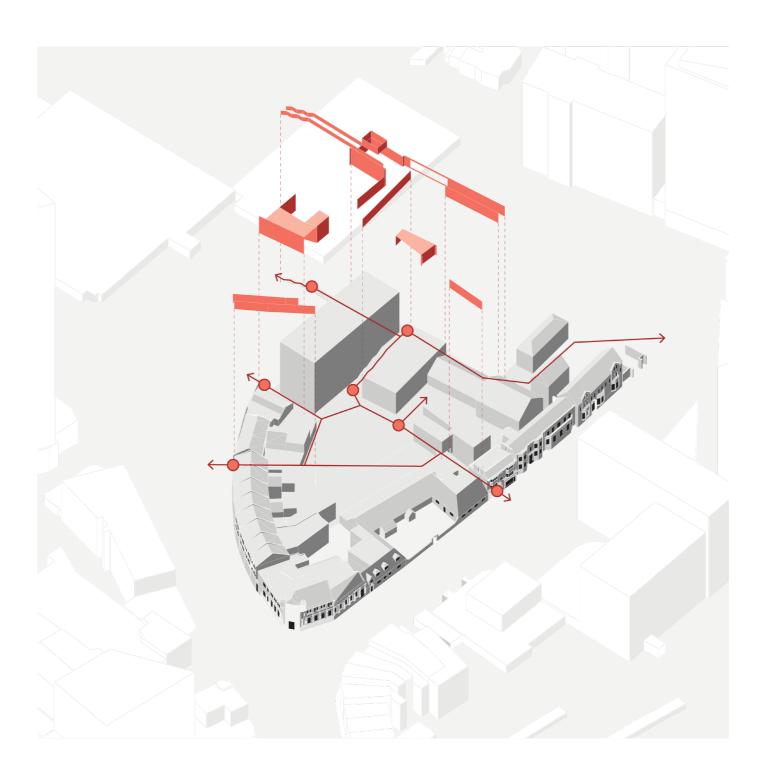
Infilling

new massing is inserted to frame the new square



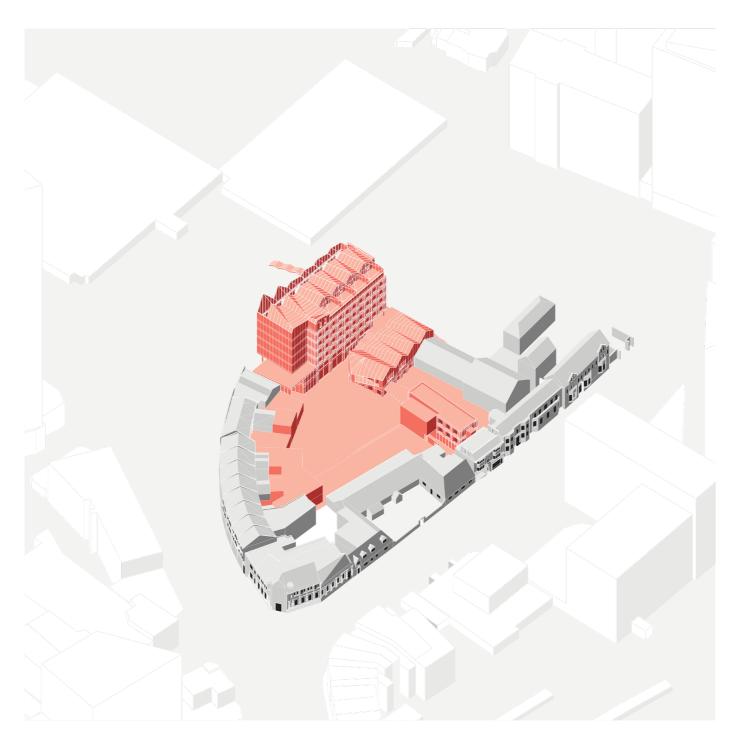
Grafting

additional facades are stretched onto the backs of existing buildings to complete the composition

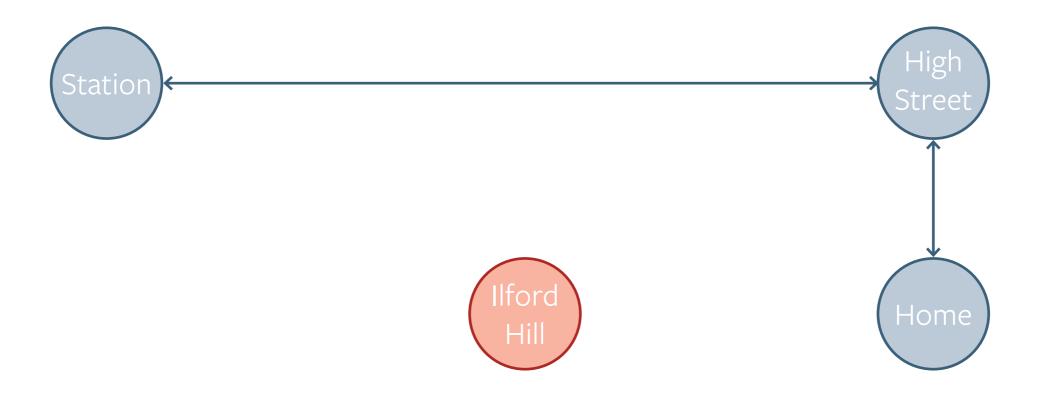


Materialising

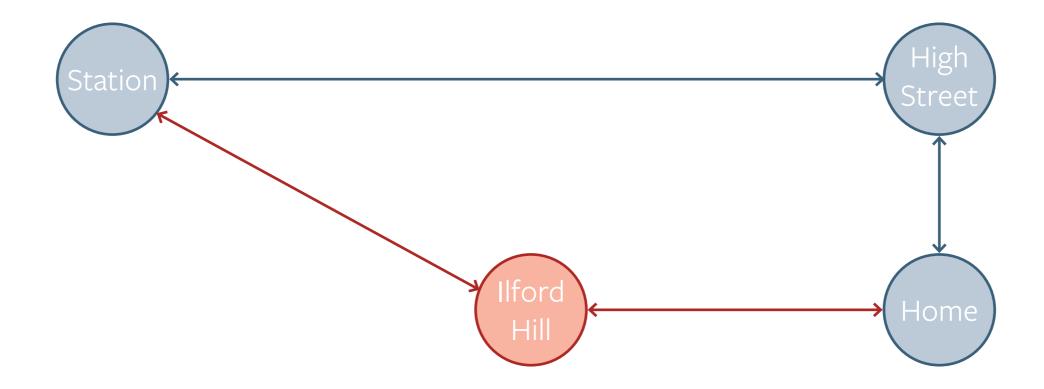
consolidation of the block through coherent material choices



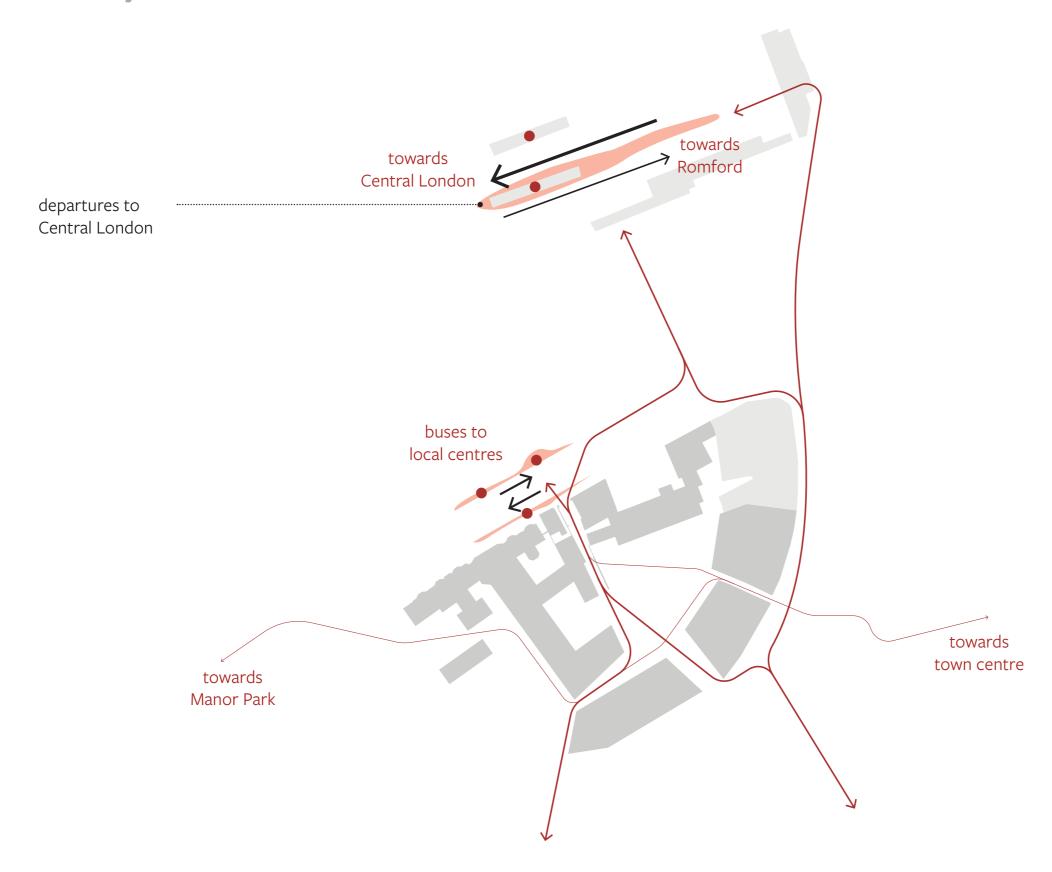
Topological Relationship



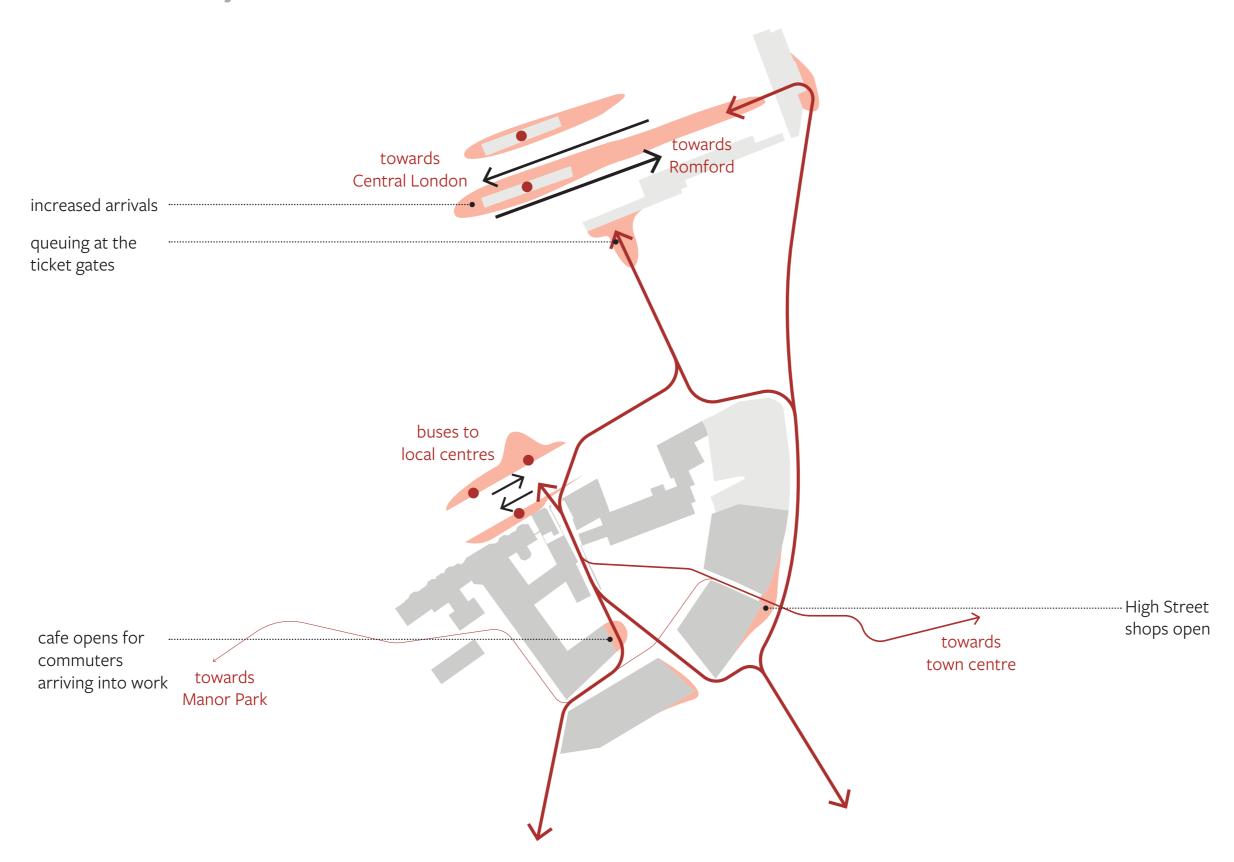
Topological Relationship



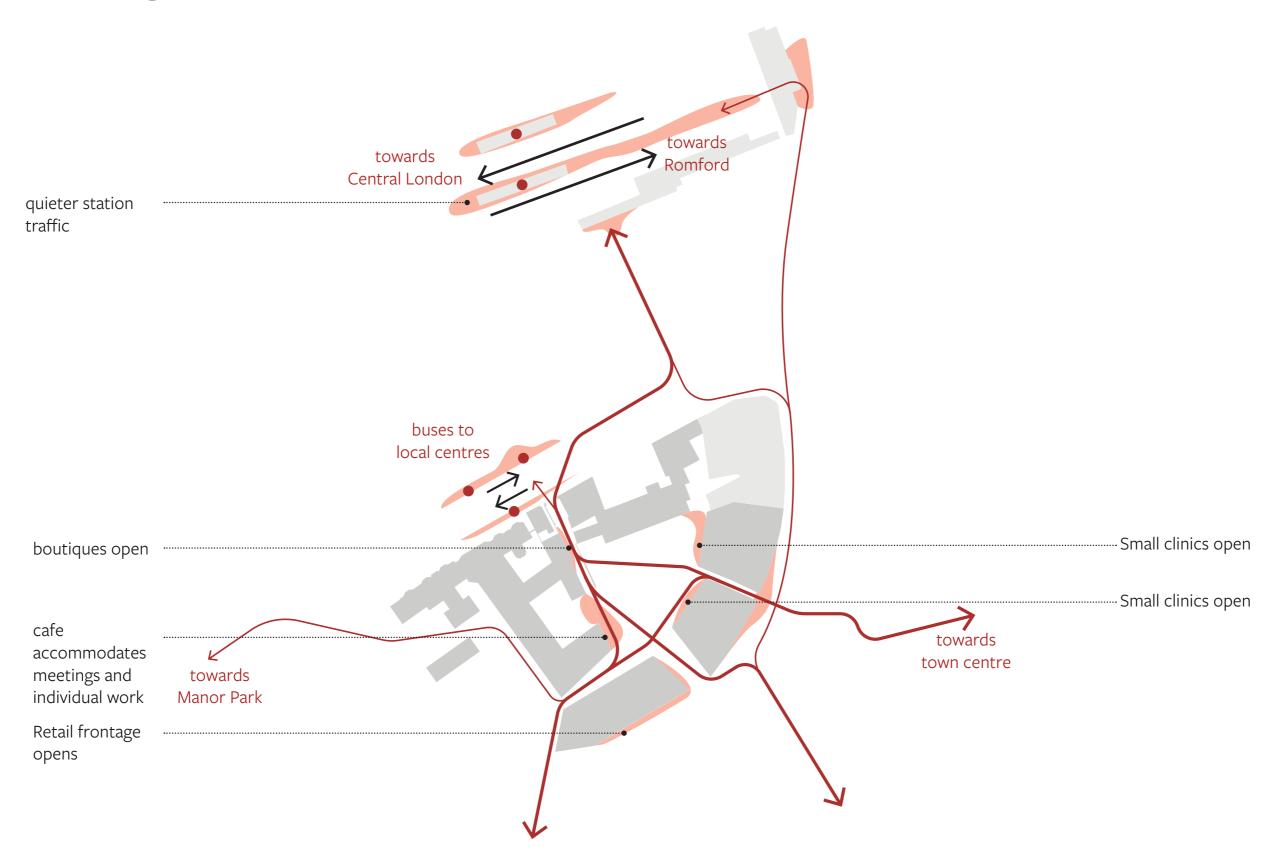
06:00 - 08:00 Early commuters



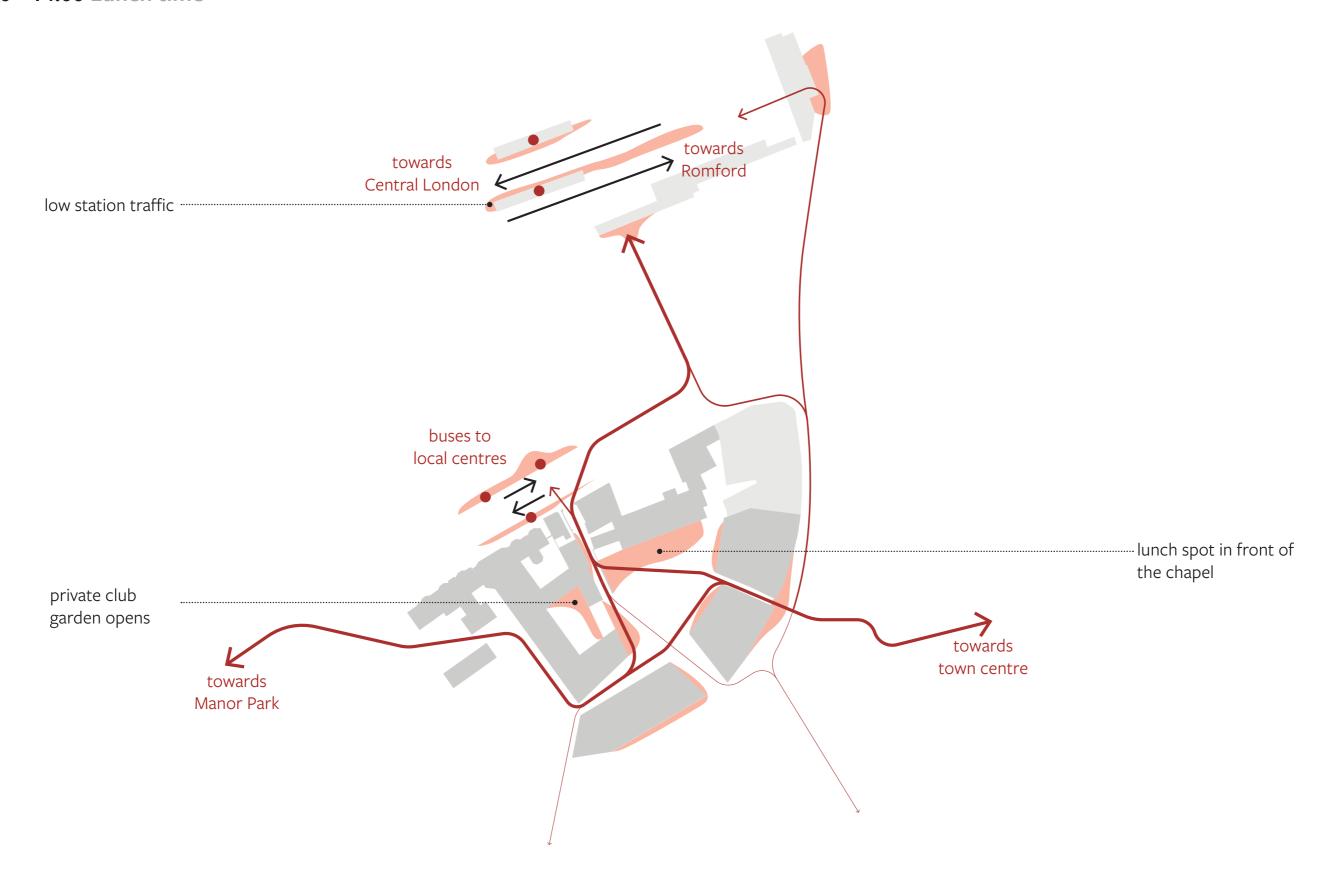
08:00 - 09:00 Start of the day



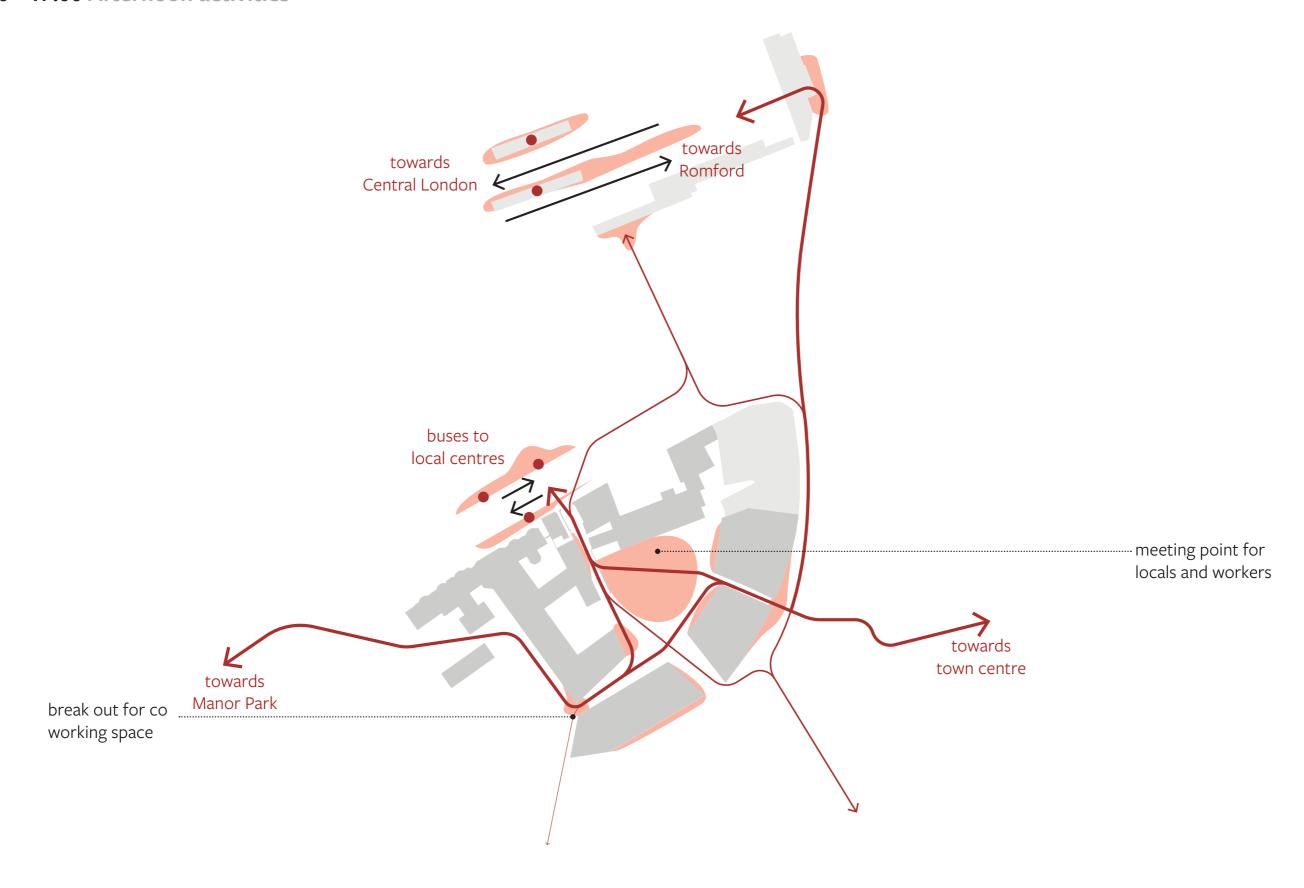
09:00 - 12:00 Morning activities



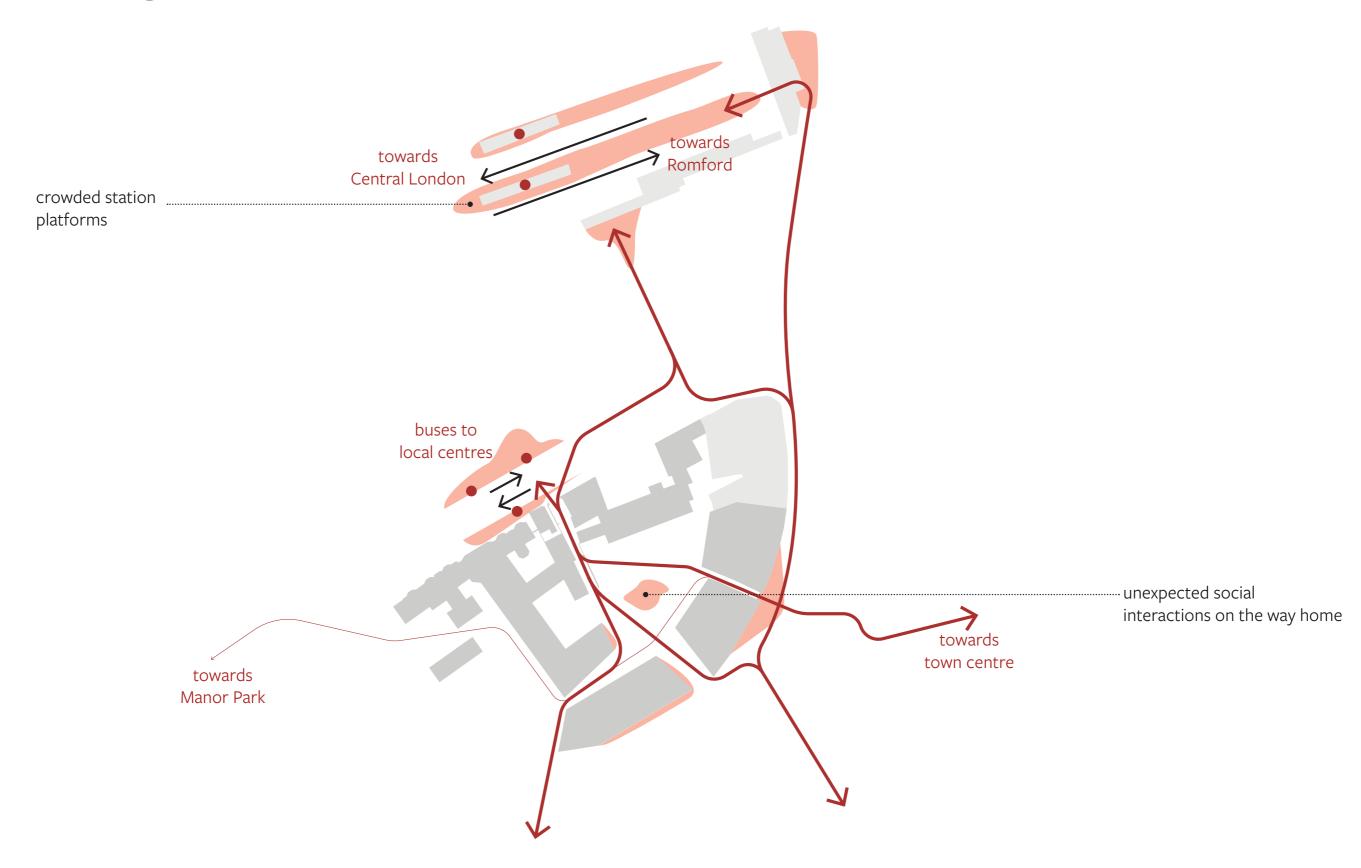
12:00 - 14:00 Lunch time



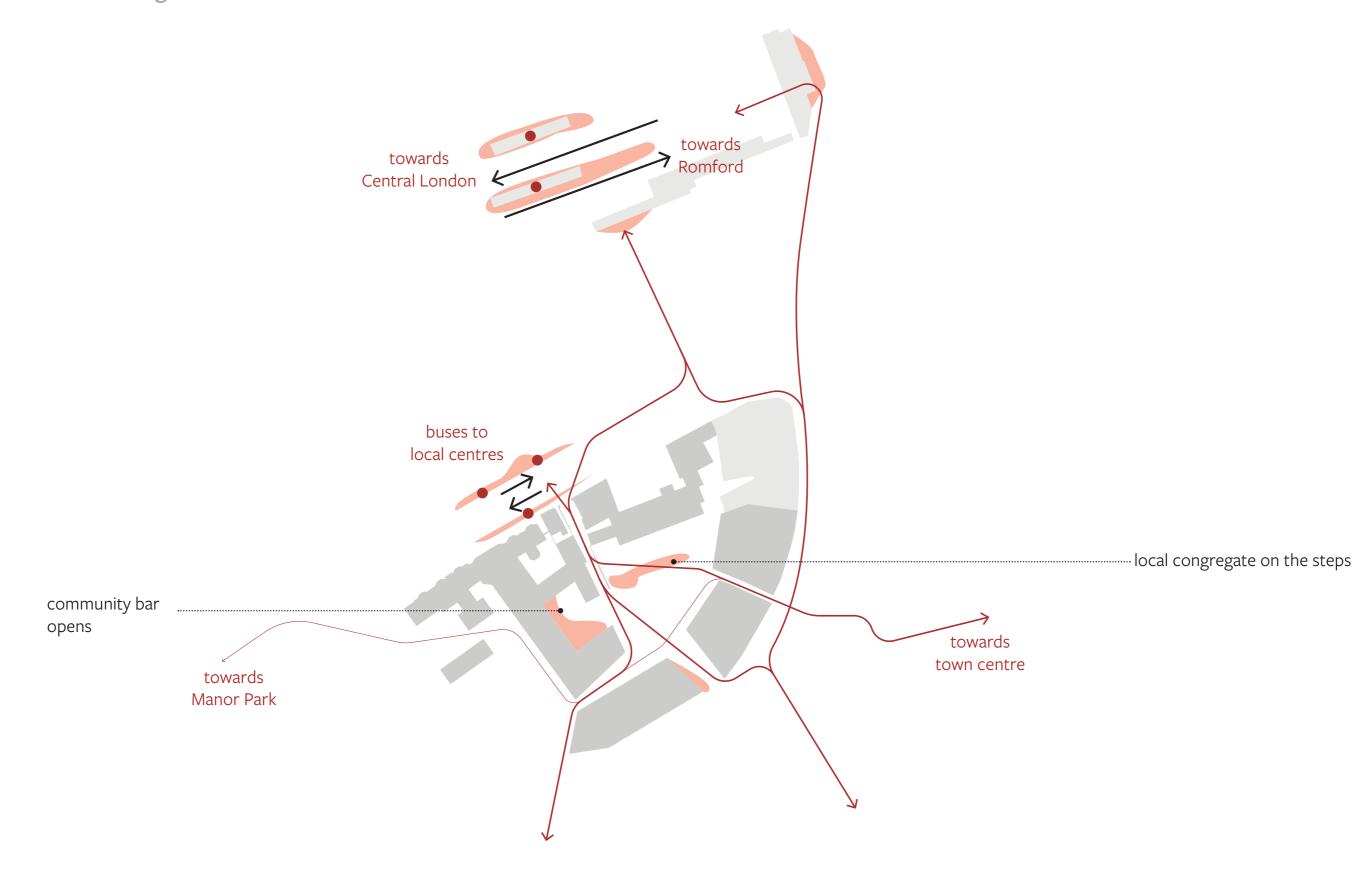
14:00 - 17:00 Afternoon activities



17:00 - 19:00 Evening rush hour



19:00 - 23:00 Evening activities

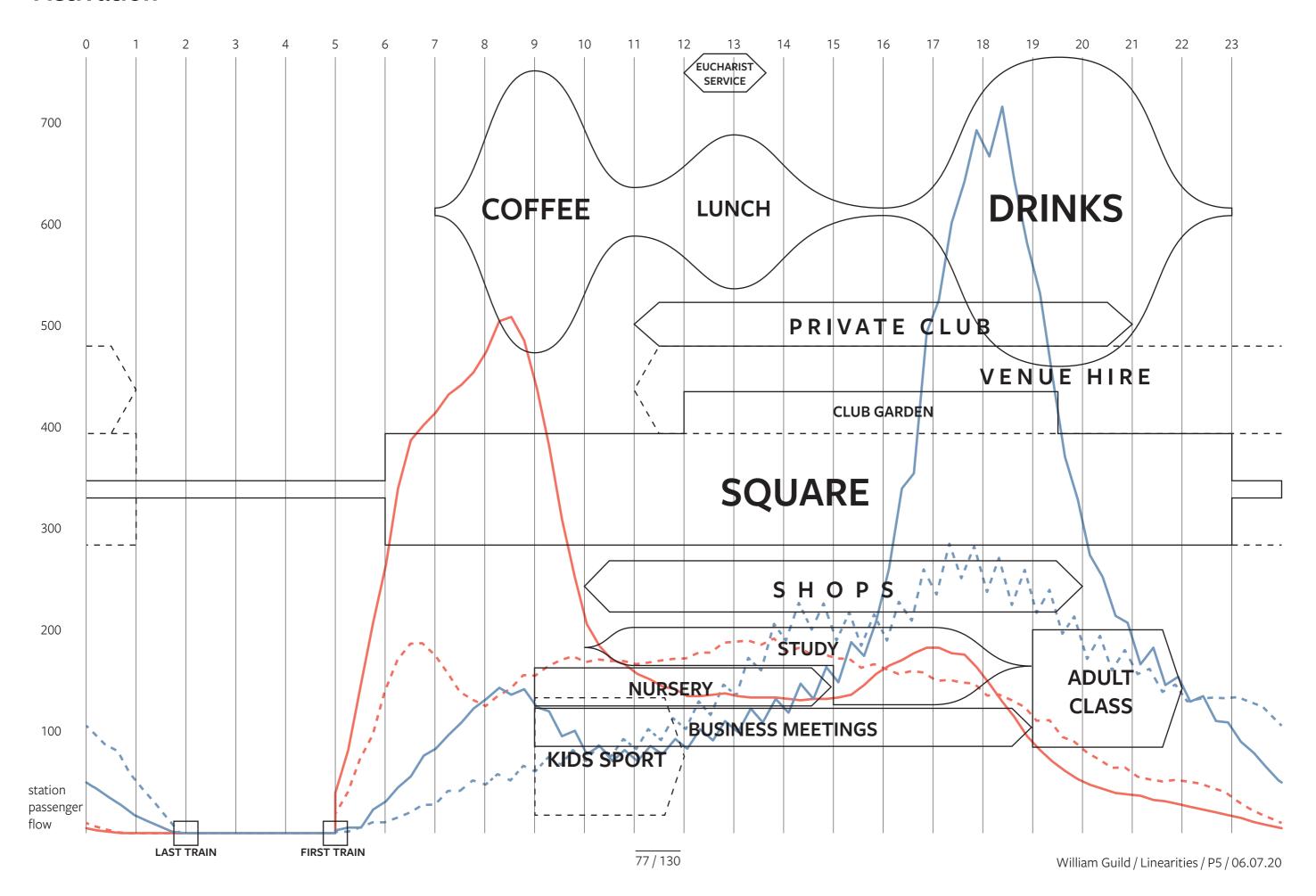


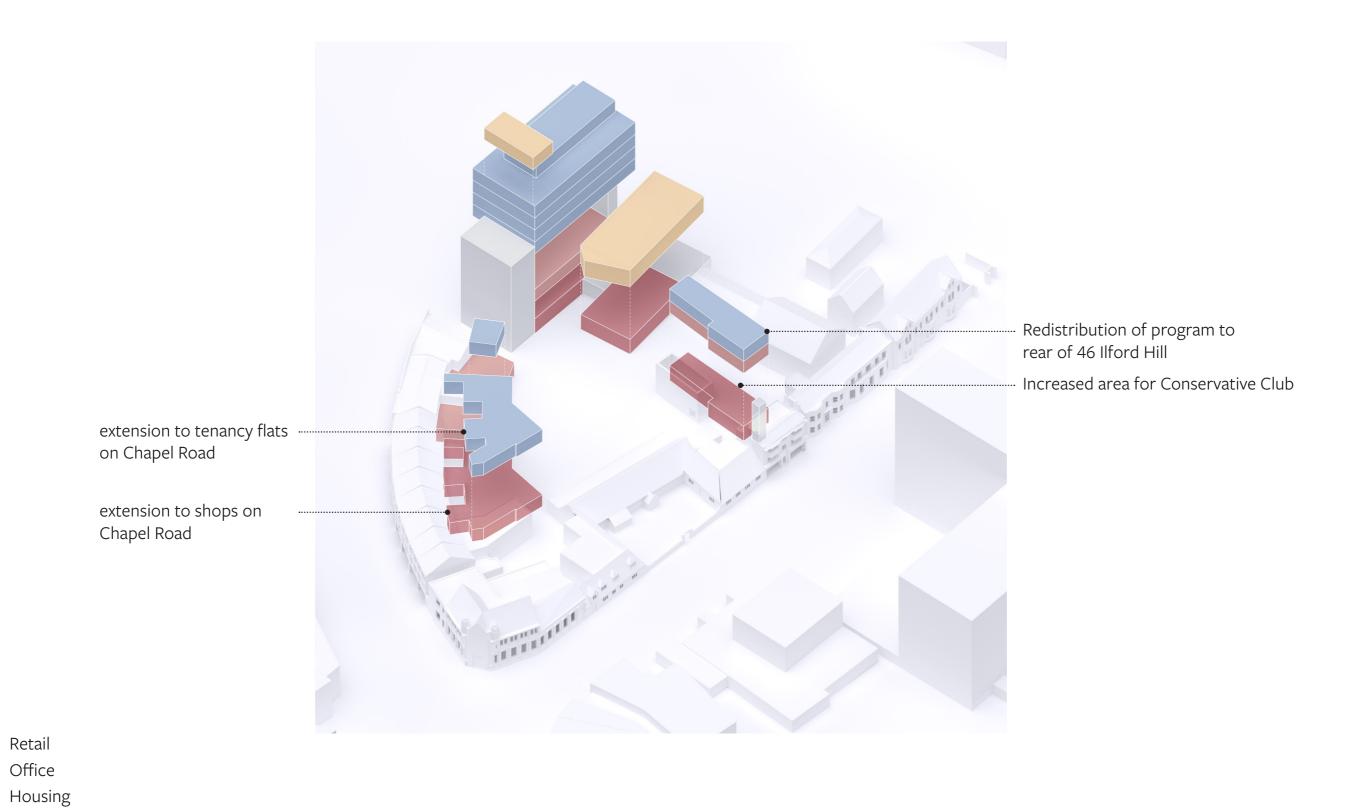
3. Chapel Square

Integrating

Placemaking: injecting value

Bookending Materialising

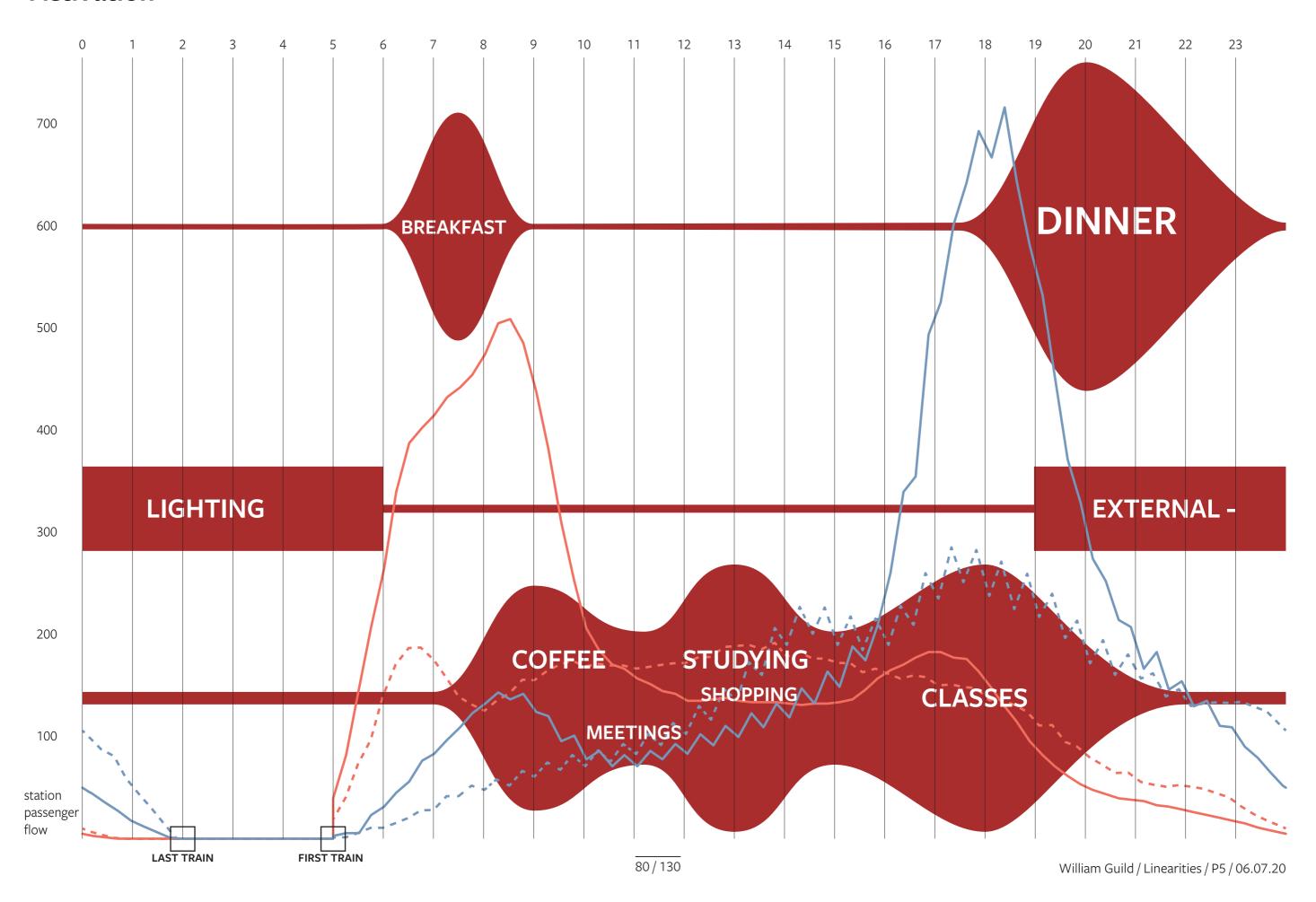




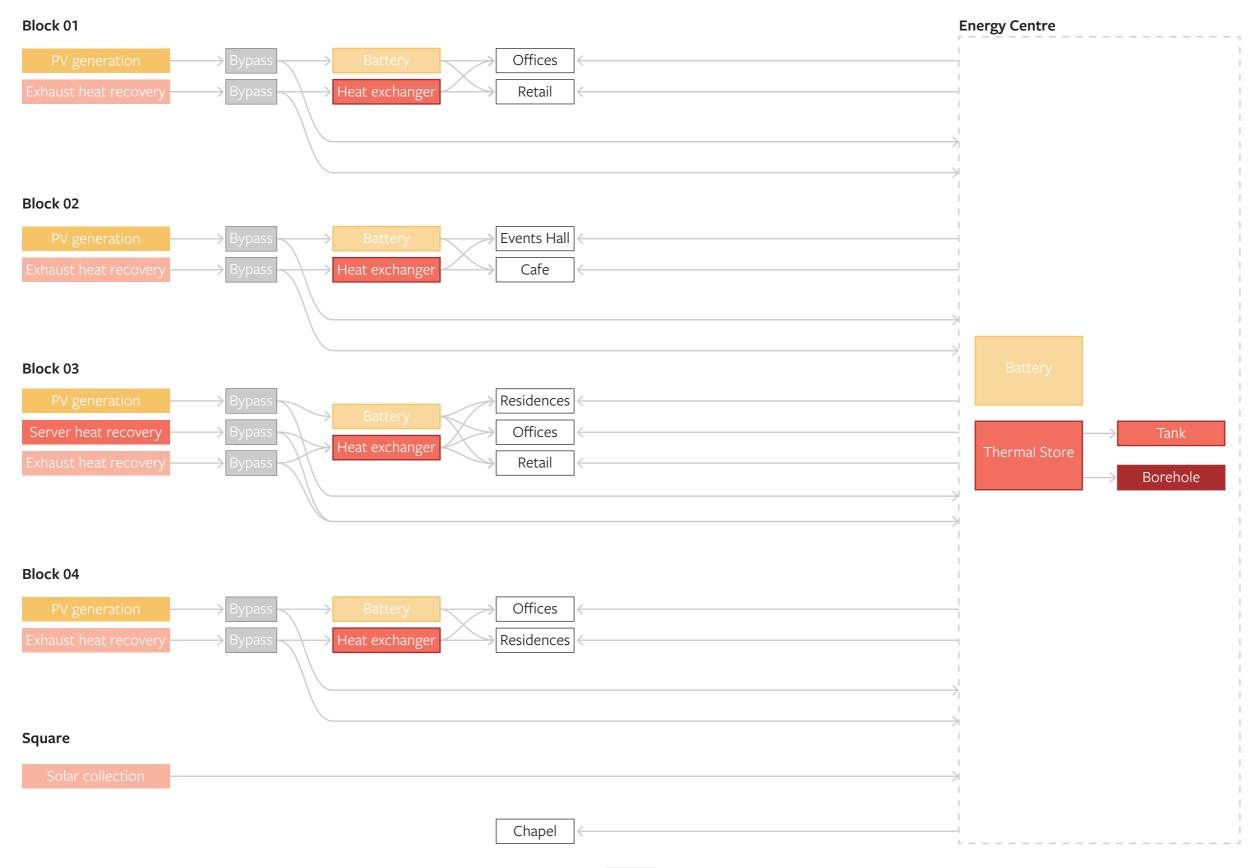
Community
Service

Key

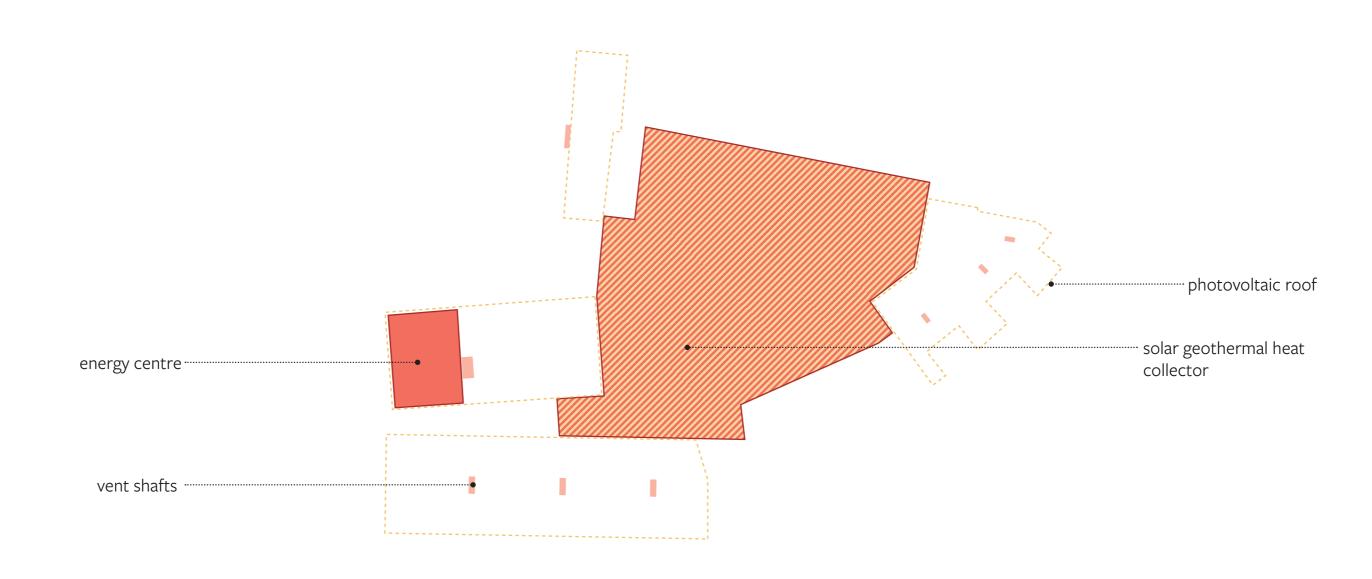




Energy Strategy



Energy Strategy



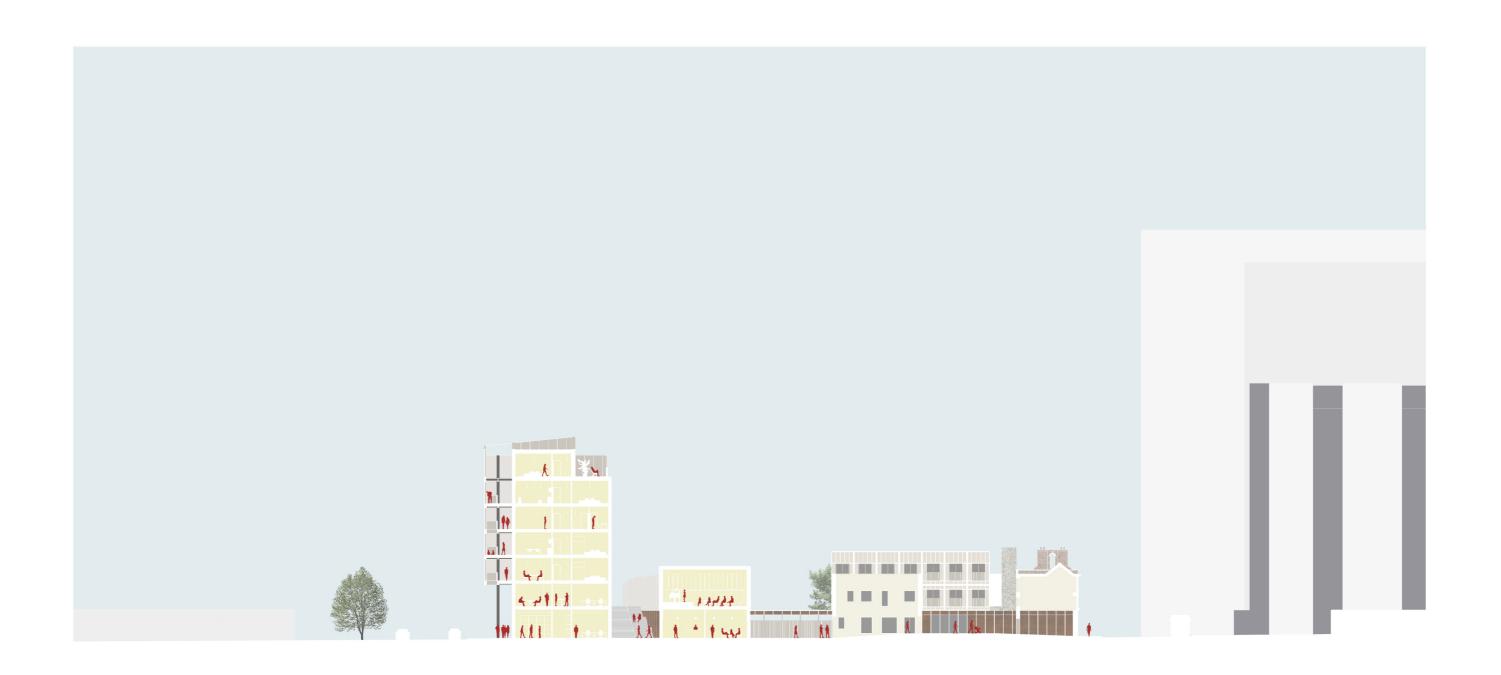




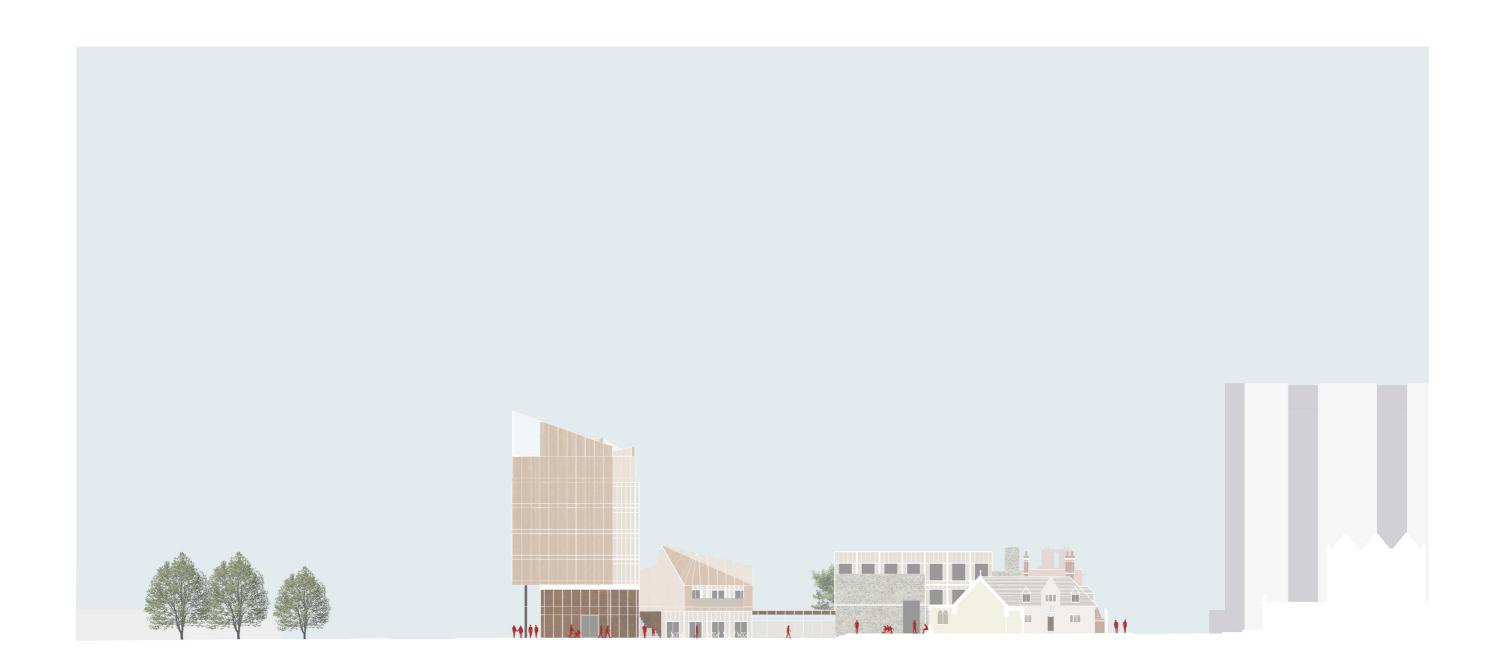
















3. Chapel Square

Integrating Placemaking

Bookending: new frontage

Materialising

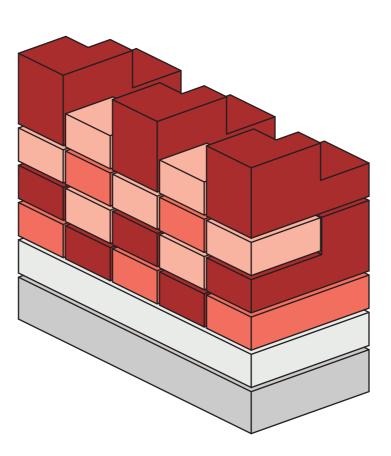


Program



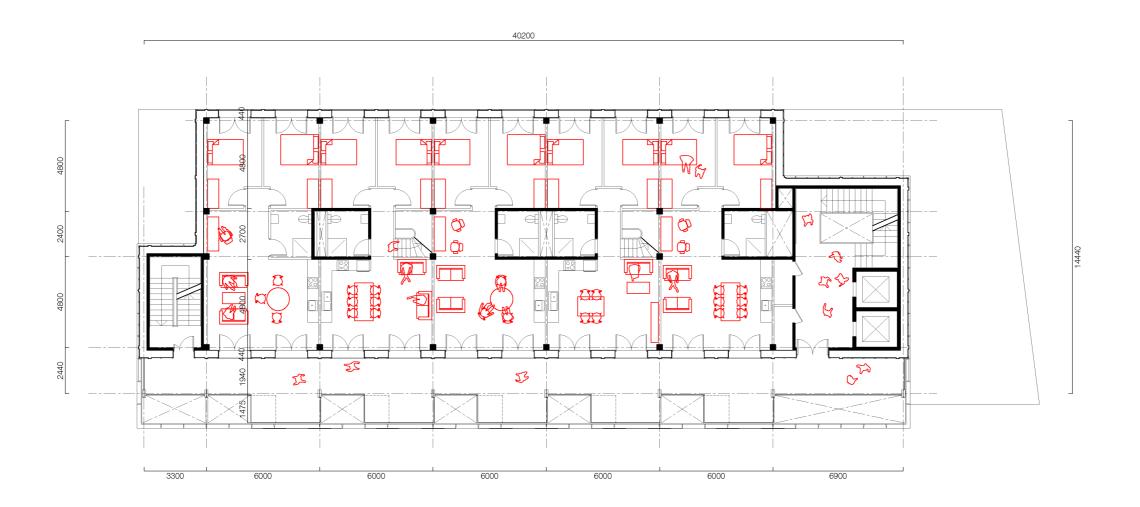
Co working space

■ Retail / co working space

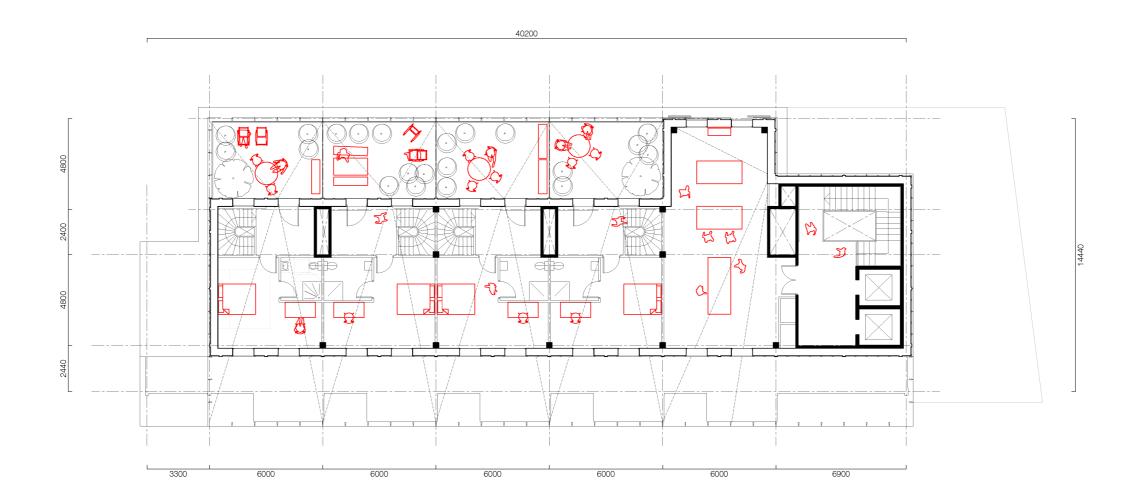






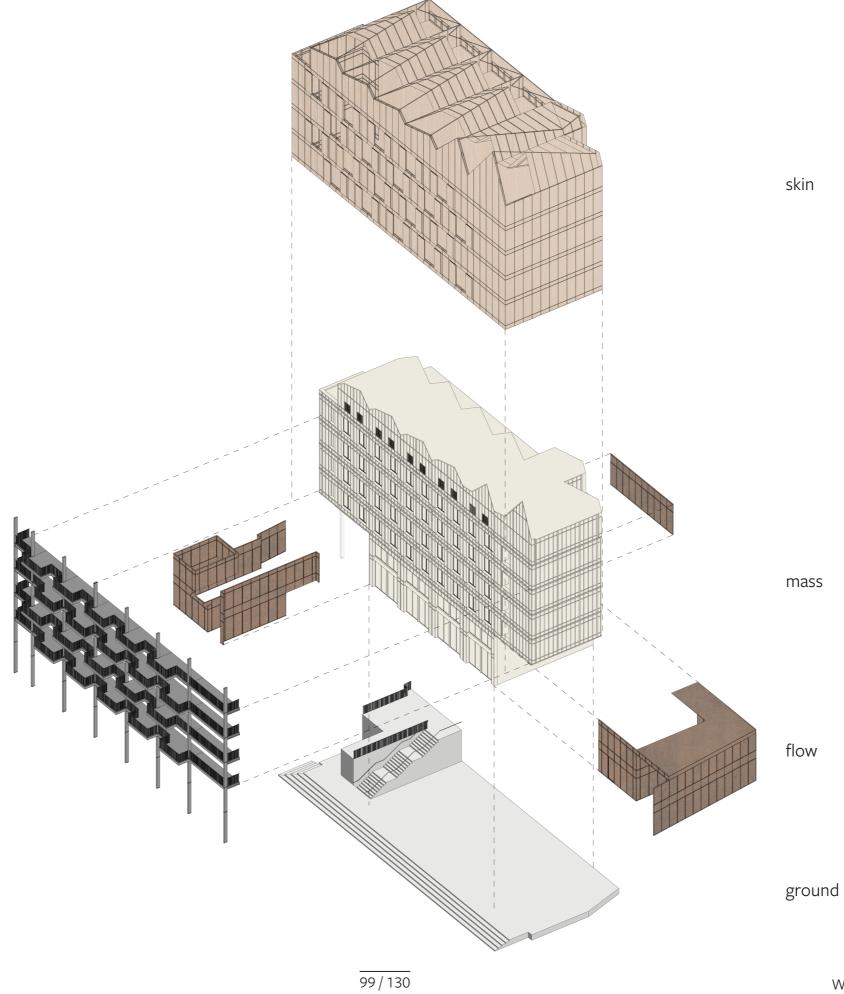








Tectonics



Material Expression

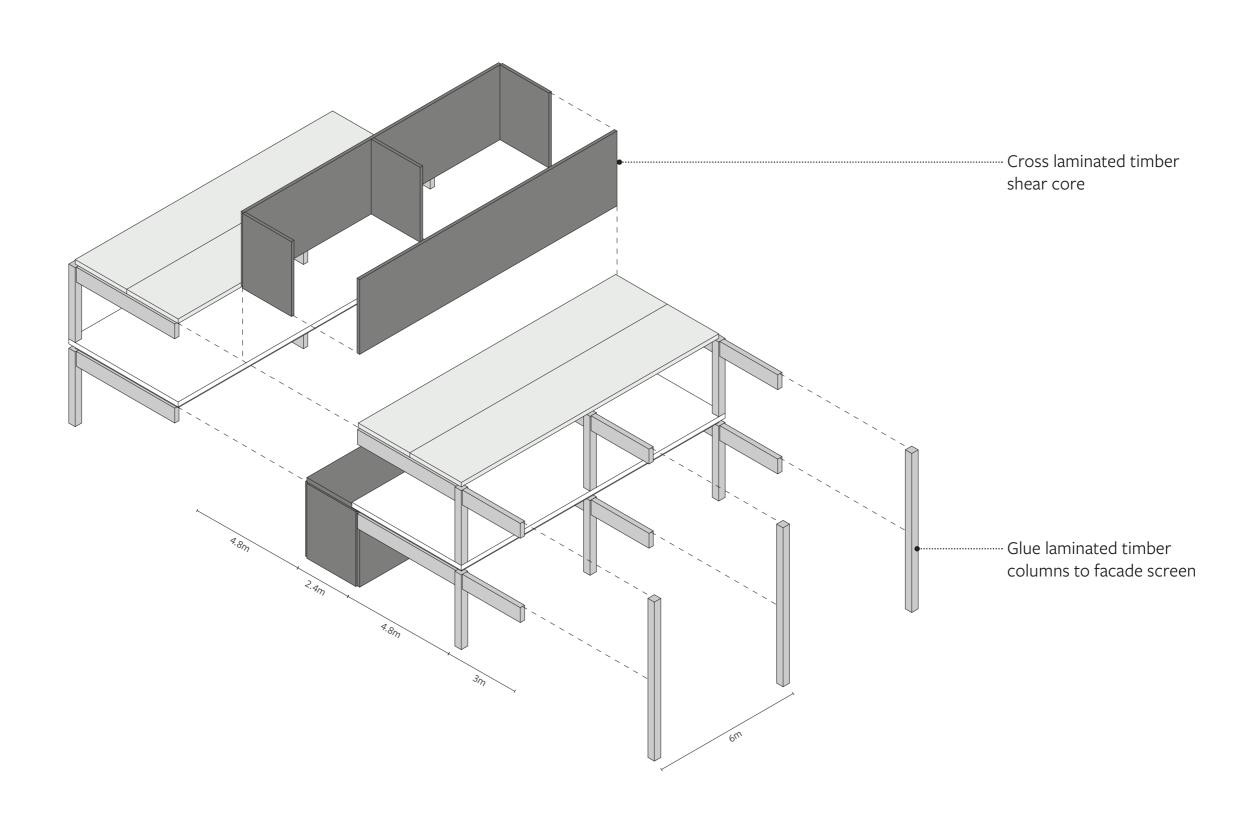
Logements Sociaux, Narbonne Passelac & Roques Architectes 2016

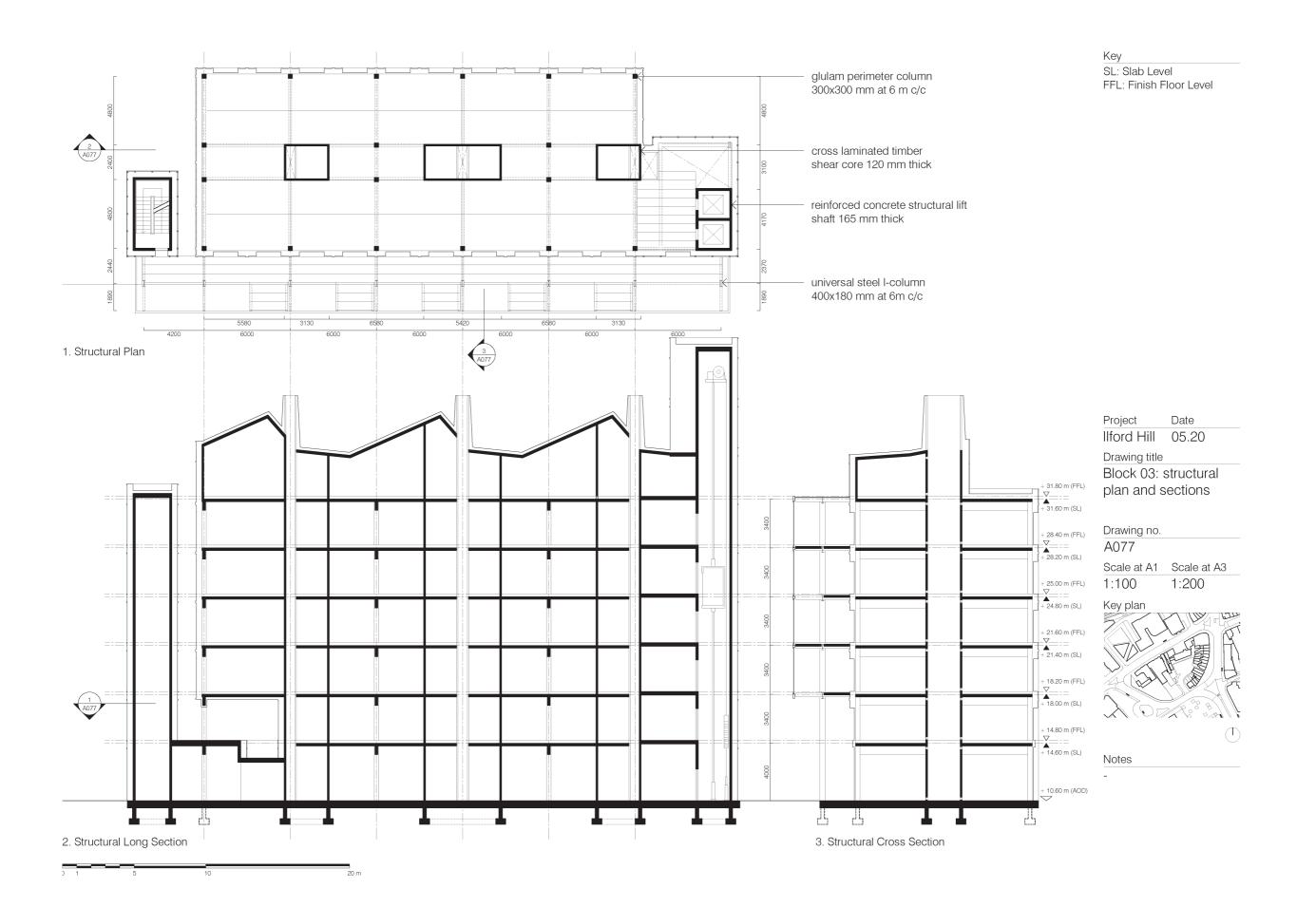




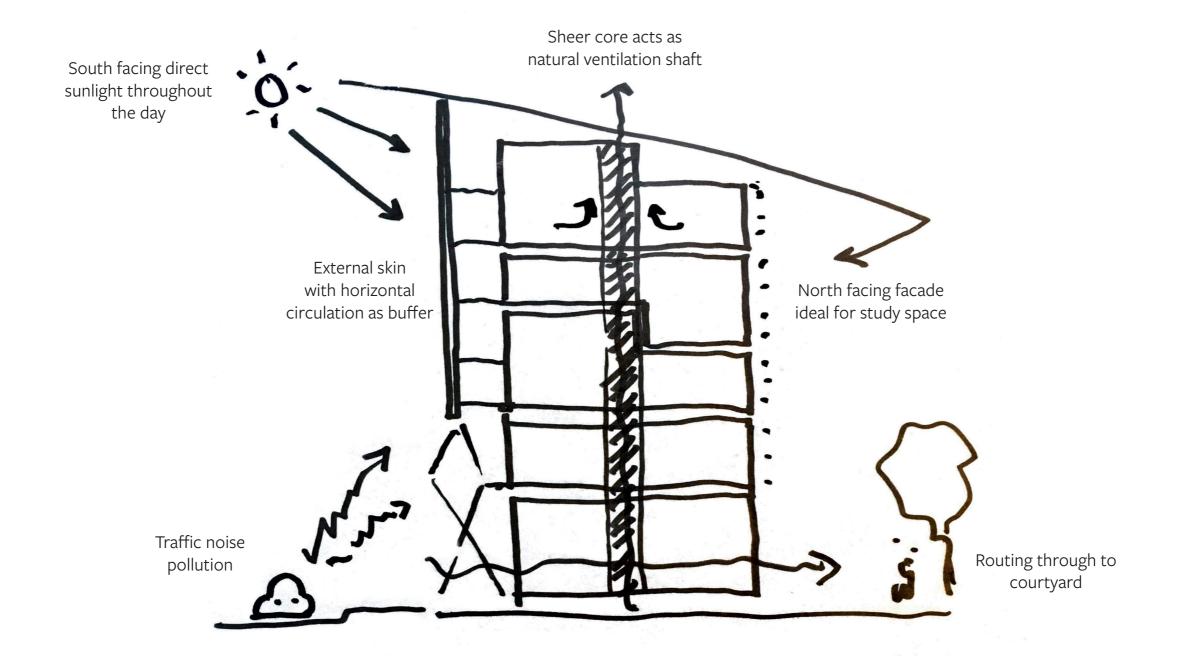
Structural Strategy

Hybridised system with shear core

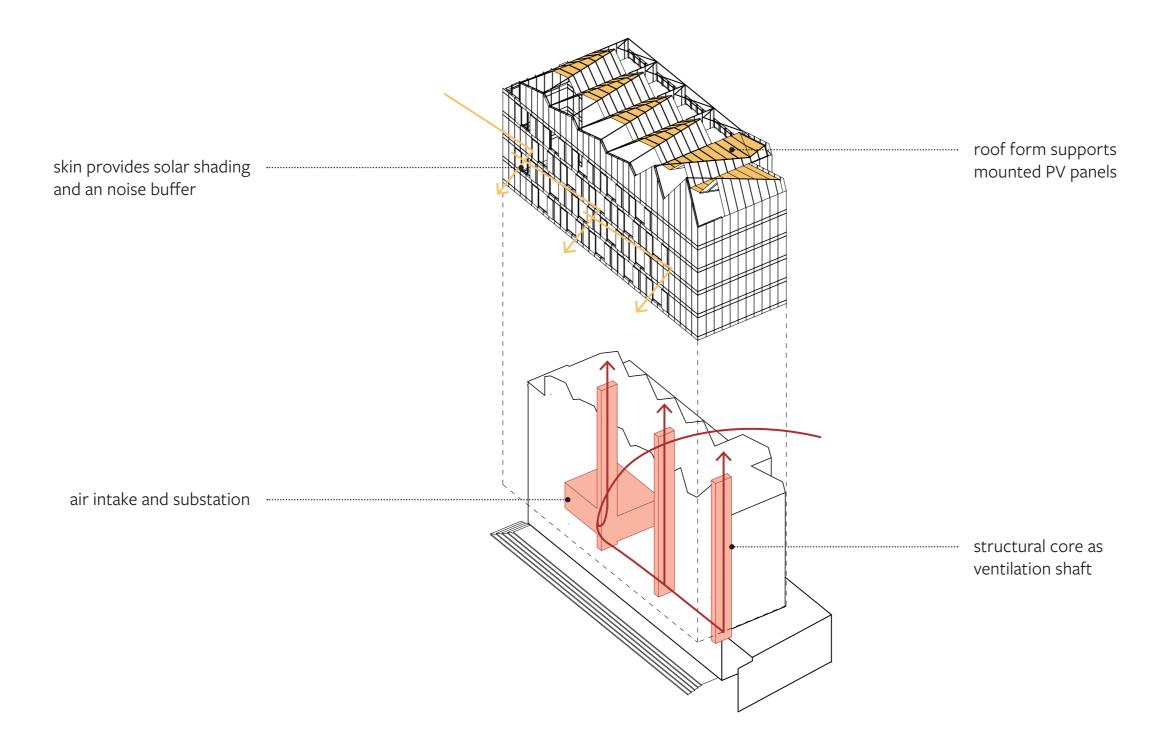




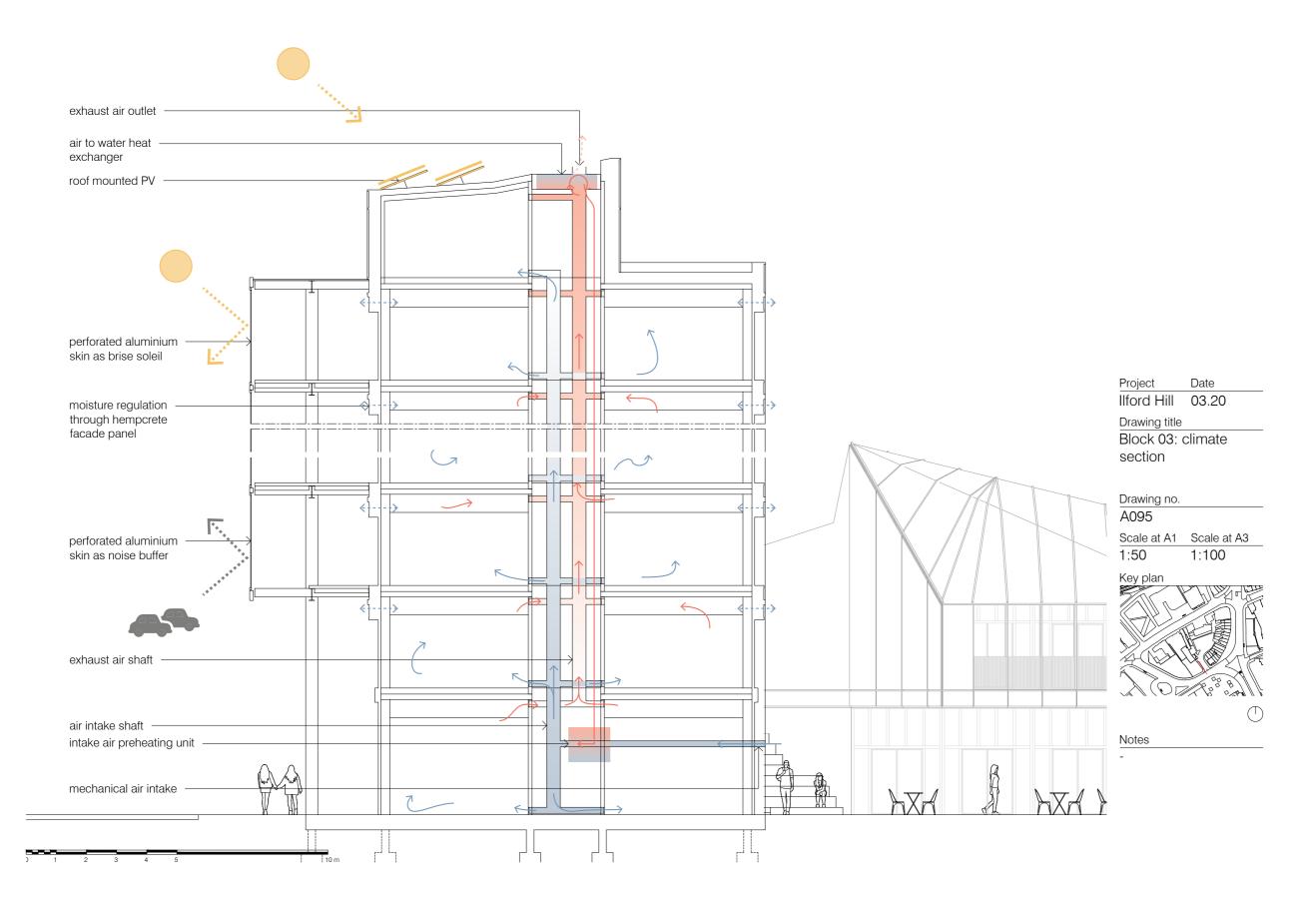
Climate Strategy



Climate Strategy



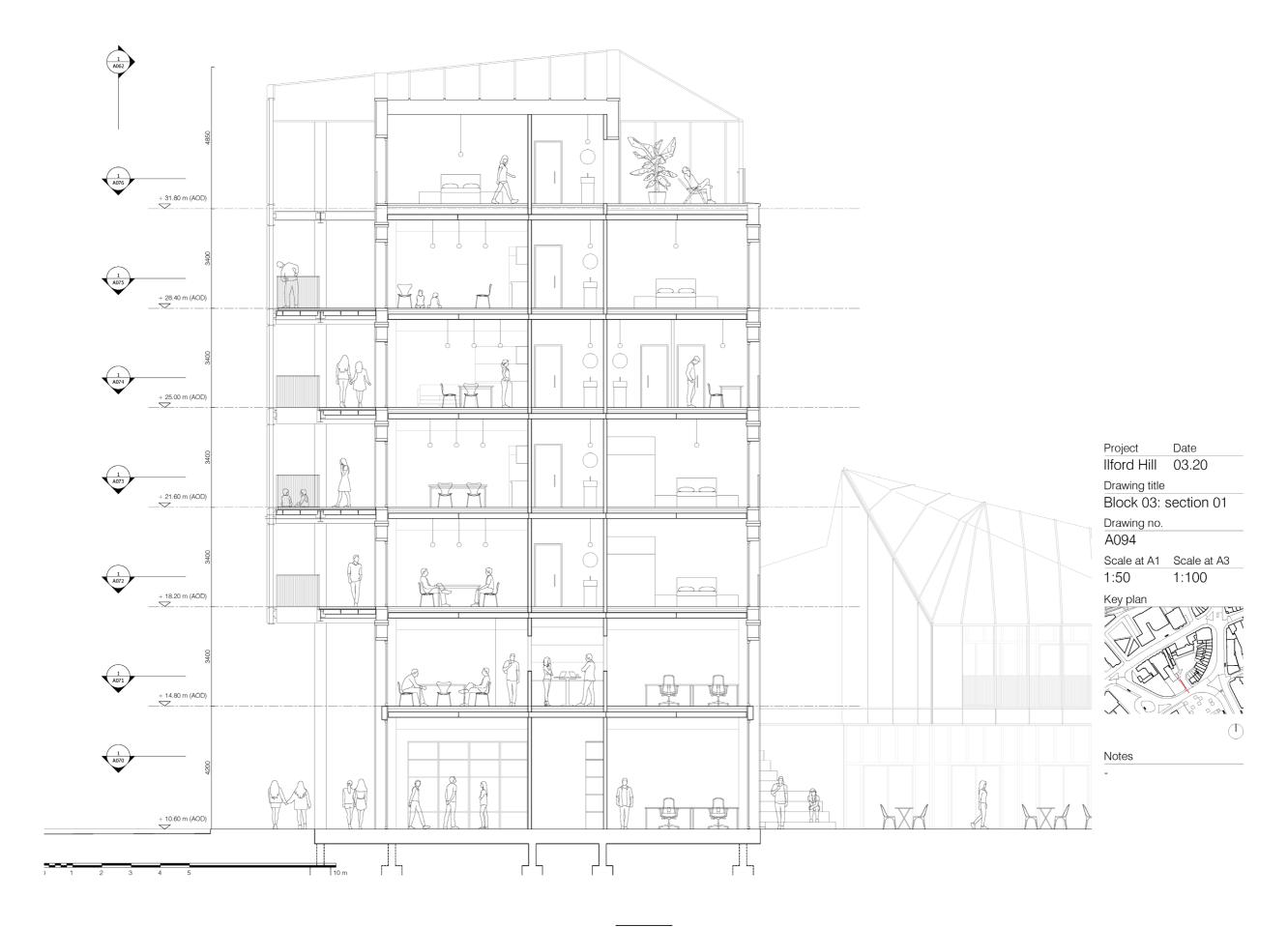
Climate Strategy



3. Chapel Square

Integrating
Placemaking
Bookending

Materialising: intimacy in the city



Layout

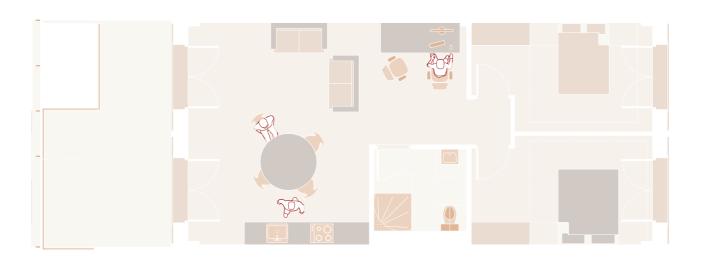
Studio flat type

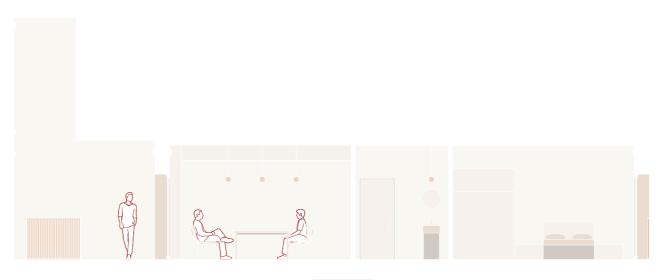




Layout

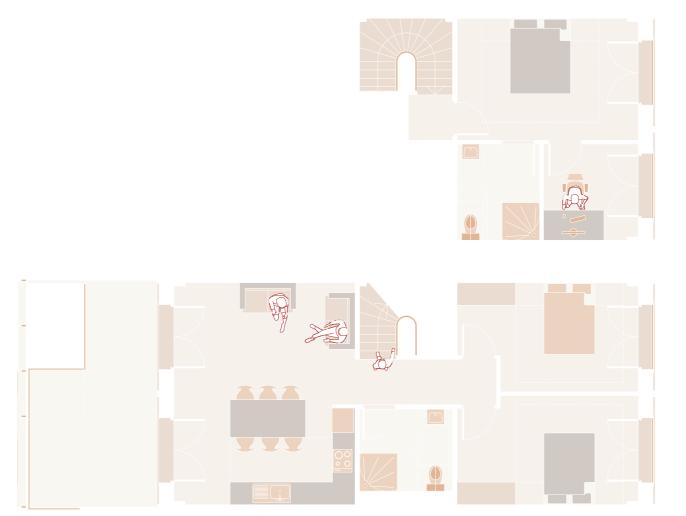
Two bedroom flat type

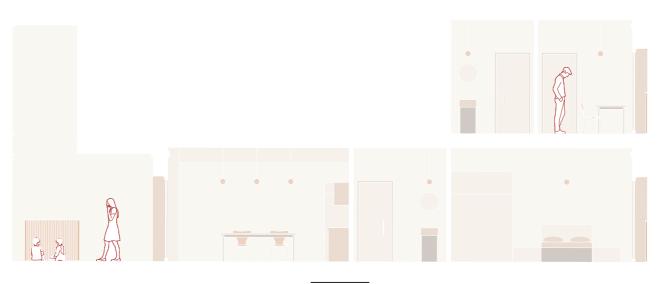




Layout

Duplex flat type

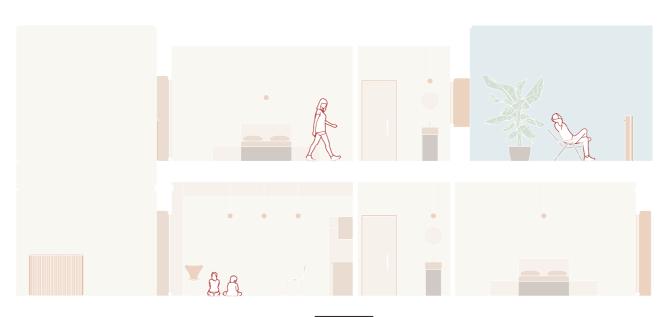




Layout

Penthouse flat type

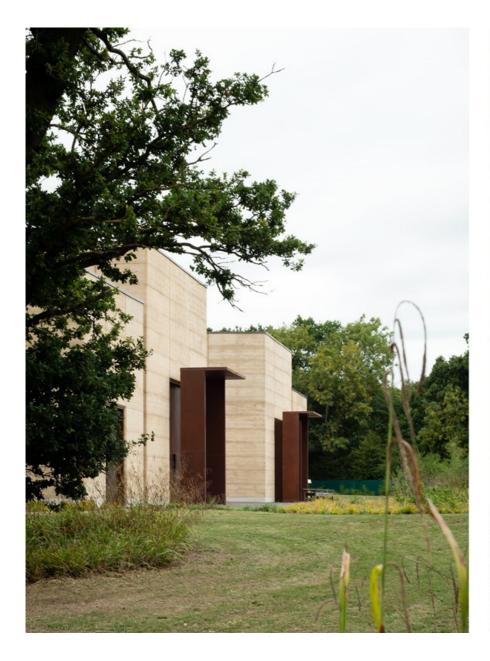




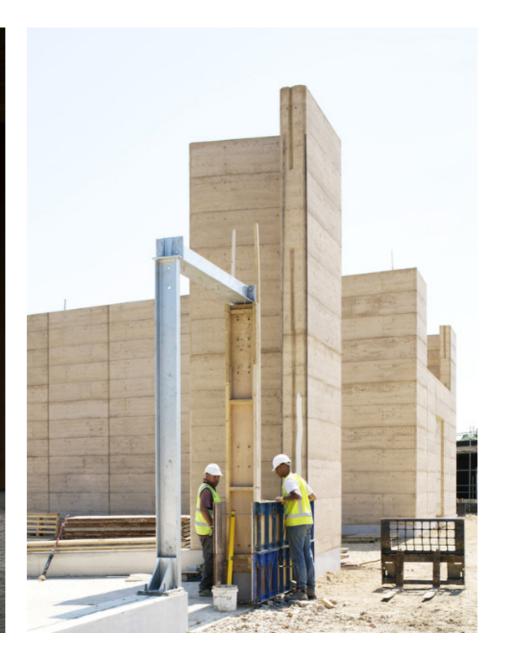


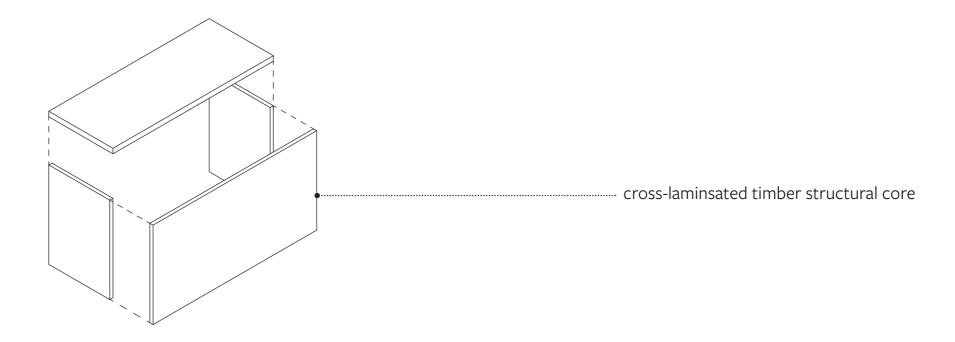
Material Expression

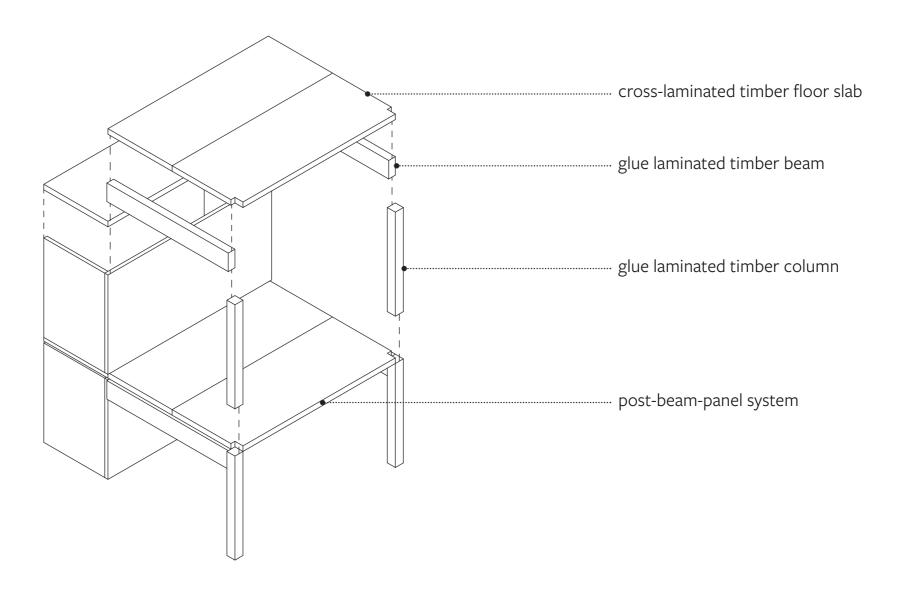
Bushey Cemetery Waugh Thistleton 2019

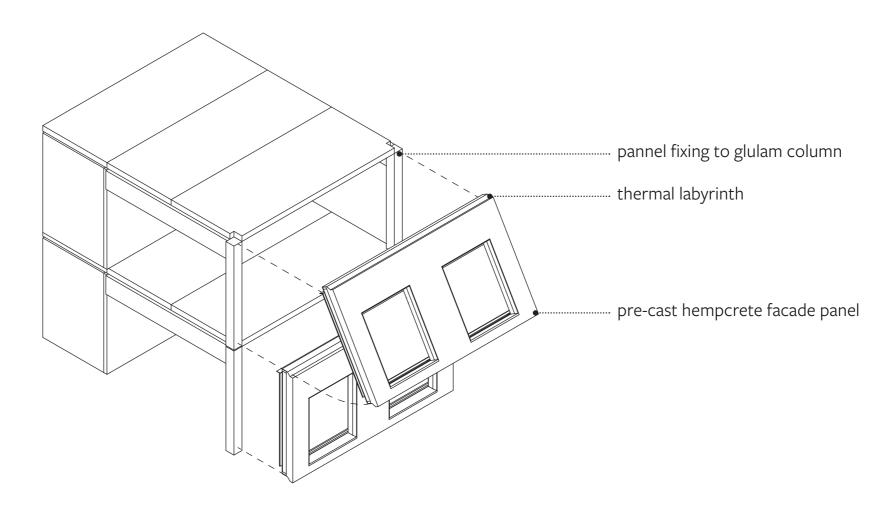


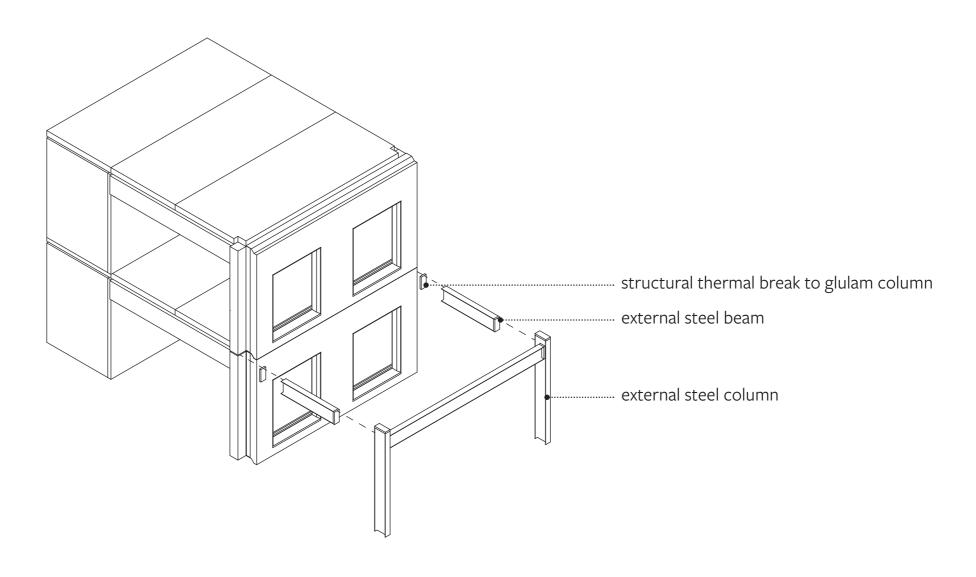


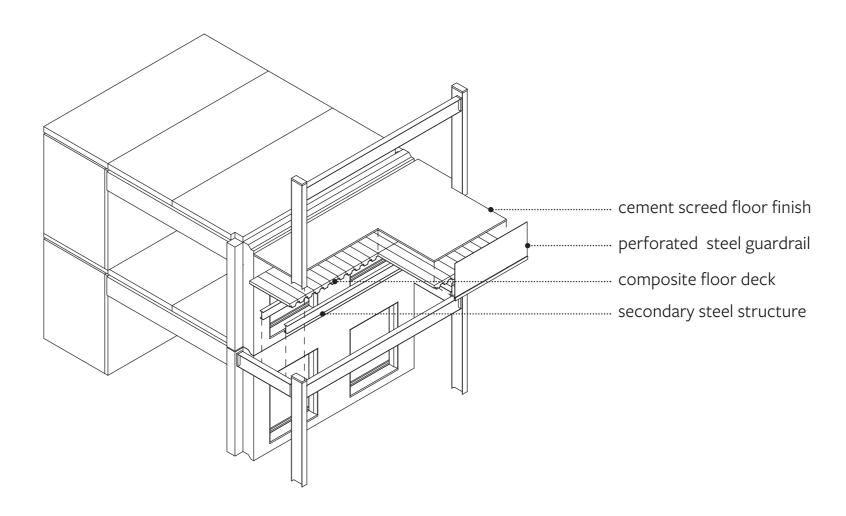


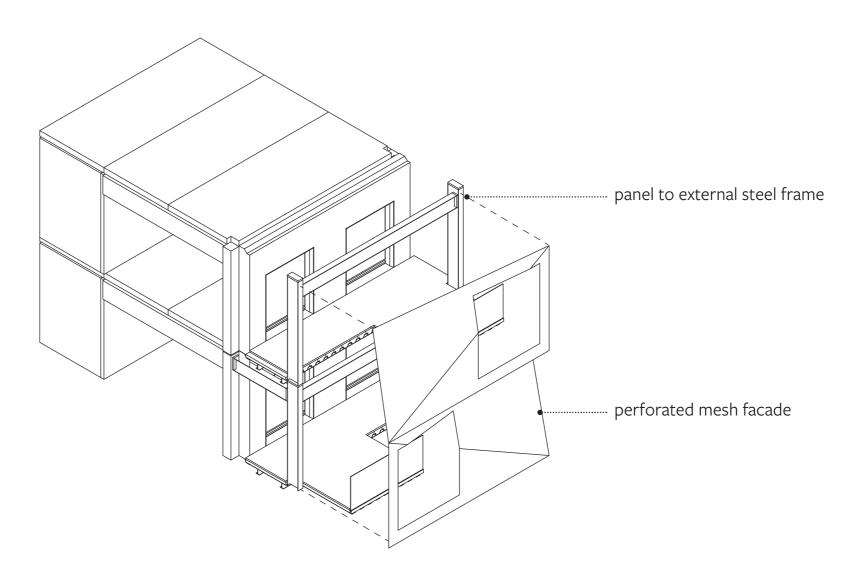










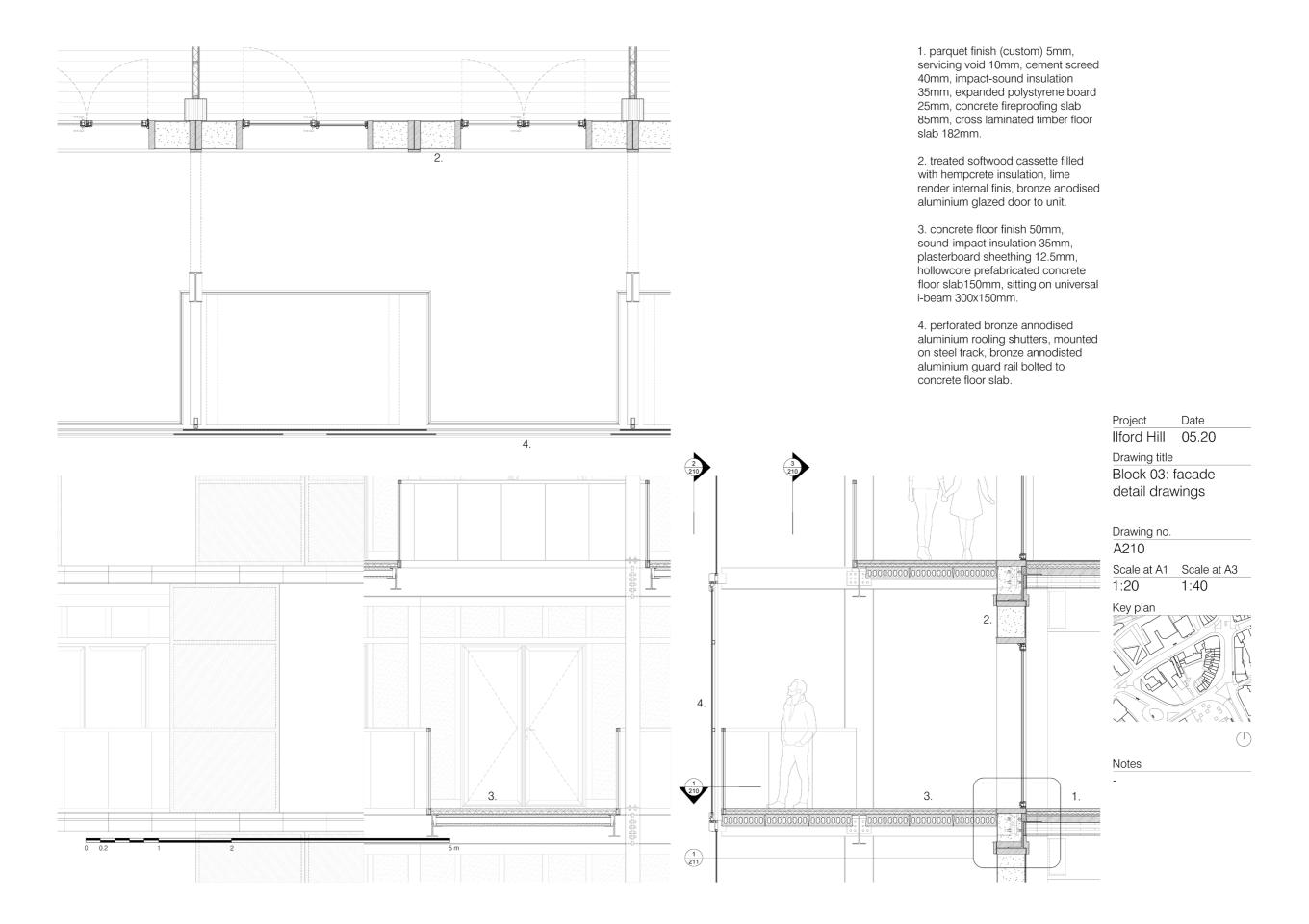


Facade Design

2 St George Road, Fitzroy North, Melbourne Fieldwork 2019







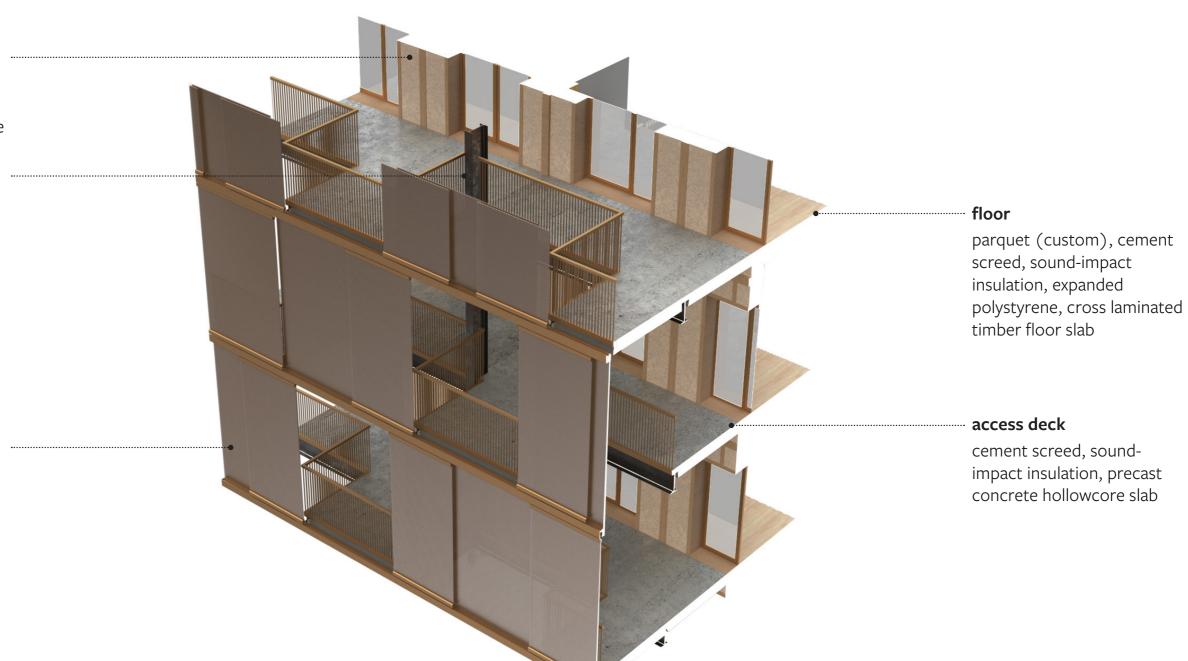
Facade Design

facade panel

prefabricated cassette with softwood frame and hempcrete infill, internal lime render finish

external structure

steal i-beam, welded plate



external skin

perforated bronze anodised aluminium shutter on rails, bronze anodised guard rails

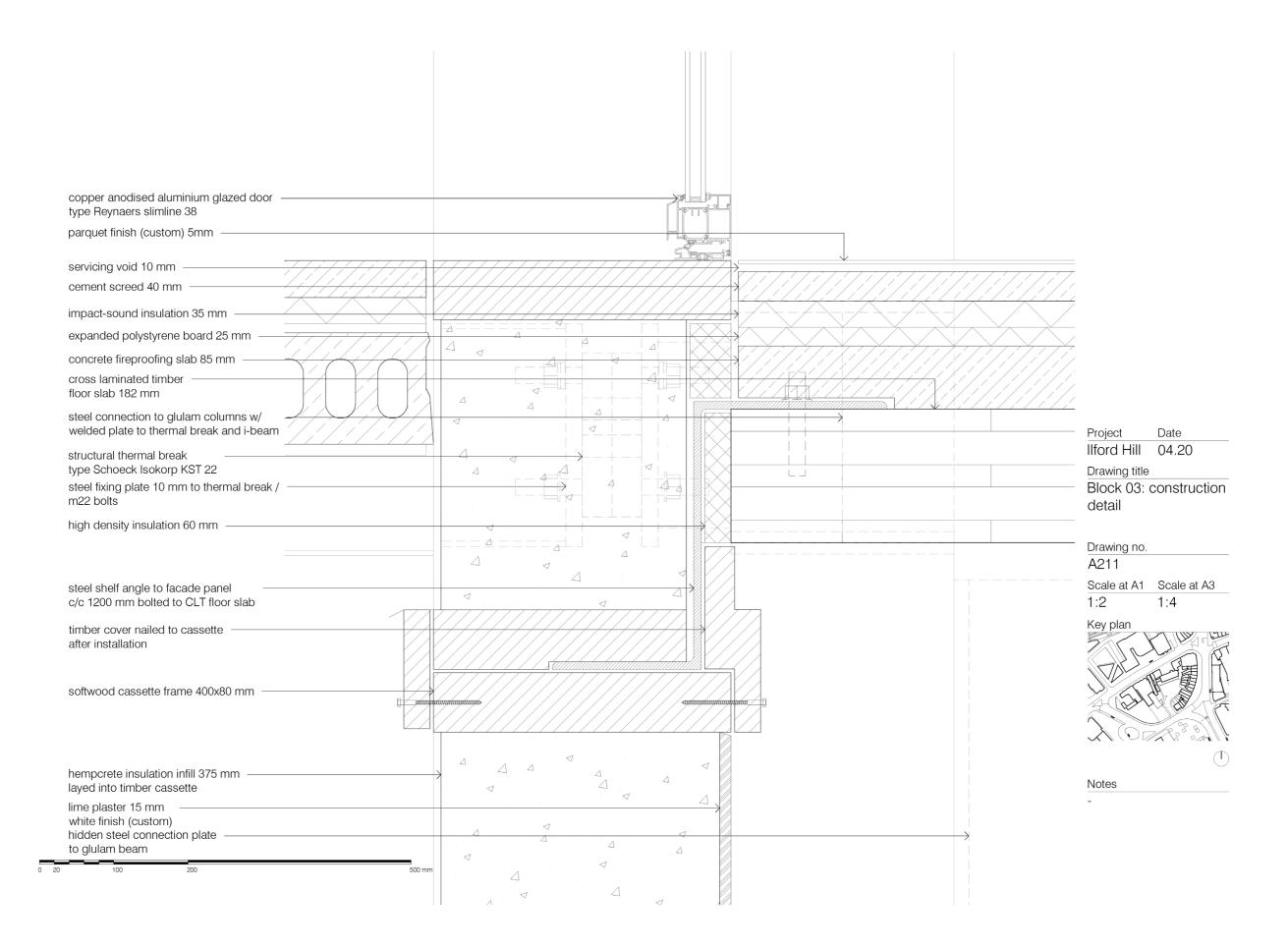
Panel Design

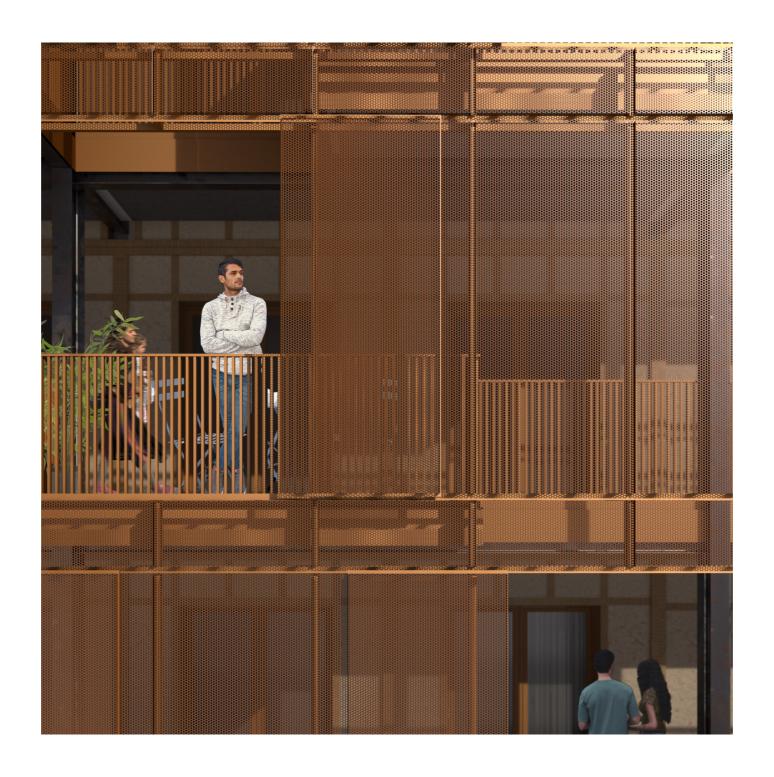
Flat House, Cambridgeshire Practice Architecture 2019











4. Reflection

The project responds to the specifics of the site yet also engages with the generic condition of leftover infrastructure space present in many English town centres.

Reflection

Systematic occurrence



Archway



Swindon



Bournemouth



Basildon



Kingston upon Thames



Winchester



Stafford



Reading

The outcome of this thesis may thus provide the foundation of a methodology towards tackling the inherent fractures in the perceived urban network.

