

01	<b>FROM STAGE TO STRUCTURE</b>	2022
02	<b>DEGREES OF NEGOTIABILITY</b>	2018
03	<b>DESIGNING FOR NEGOTIABILITY</b>	2018
04	<b>ATLAS OF EROSIVE POTENTIALITIES</b>	2019
05	<b>ONE EVEN KEEL</b>	2013
06	<b>COLLECTIVE REPLAY</b>	2023
07	<b>COMMONING DEVICES</b>	2023
08	<b>UNBUILDING TERRITORY</b>	2021
09	<b>ENVIRONMENTAL TECHNOLOGY</b>	2021
10	<b>PROFESSIONAL PARADIGMES</b>	2022
11	<b>TECTONIC MEMORY</b>	2021

**MARA V DIAVOLOVA**

WORK SAMPLE 2023 MIT SA+P

location: boston, ma  
instructor: cristina parreno  
project type: mit core 02  
m.arch year 01  
collaborators: charles janson

Drawing on the logics of the theater - a tension between adaptability and preservation, a present in flux and a saturated past - our proposal follows in lock step with The Strand, working within these rhythms.

"From Stage to Structure" recycles timber discards, an intervention that embraces and encourages decay as an act of maintenance. The recycling plant embeds itself within the theater's material and programmatic cycles, and maps the relationship between timber from various waste streams in the city: domestic and construction discards, flyaways, compost.

To locate the proposal within the theater, we take a chair as our subject, a subject with an ambiguous fate. The chair arrives at The Strand backlot, sorted and fated for one of two paths: decay or repair.

Following a vertical cargo lift, the chair is fed through a series of climate-controlled pods, structuring its decay and transformation into aggregate for mycelium production.

If lightly damaged, the chair circumvents reprocessing and arrives at the fifth pod, where it is fixed.

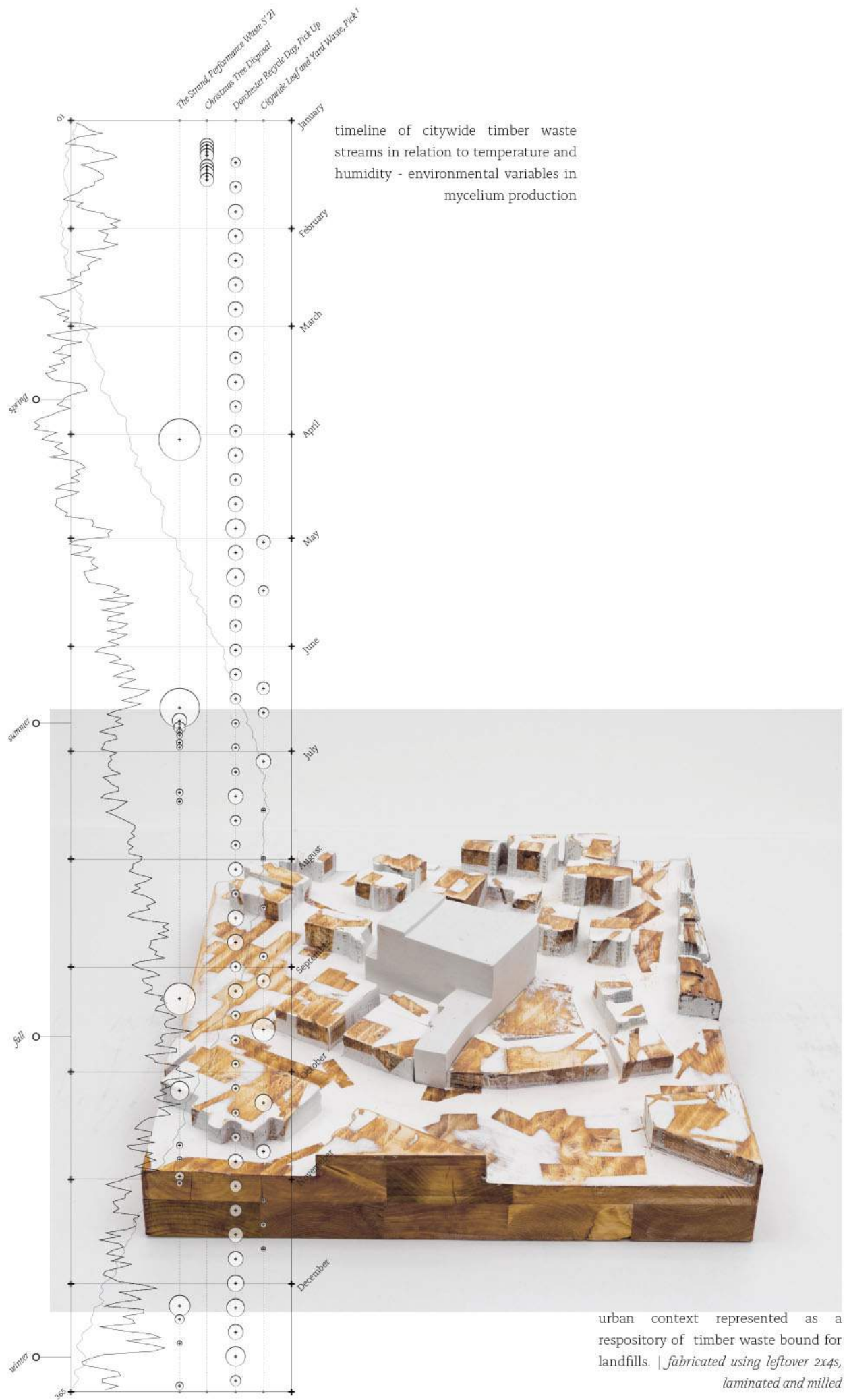
If the material cycle is the site, then programmatic experience is complicated. The public program is then about the experience and collaboration with production. Publically accessible via multiple fronts, the roof creates an osmosis between material renewal and one's agency over that phase change.

2





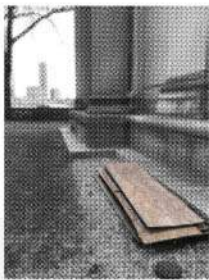
representational model, 1: 100 | using a split wood with fungal overgrowth to CNC existing theater







repositories of waste



MYCELIUM CHAIR CUSHION



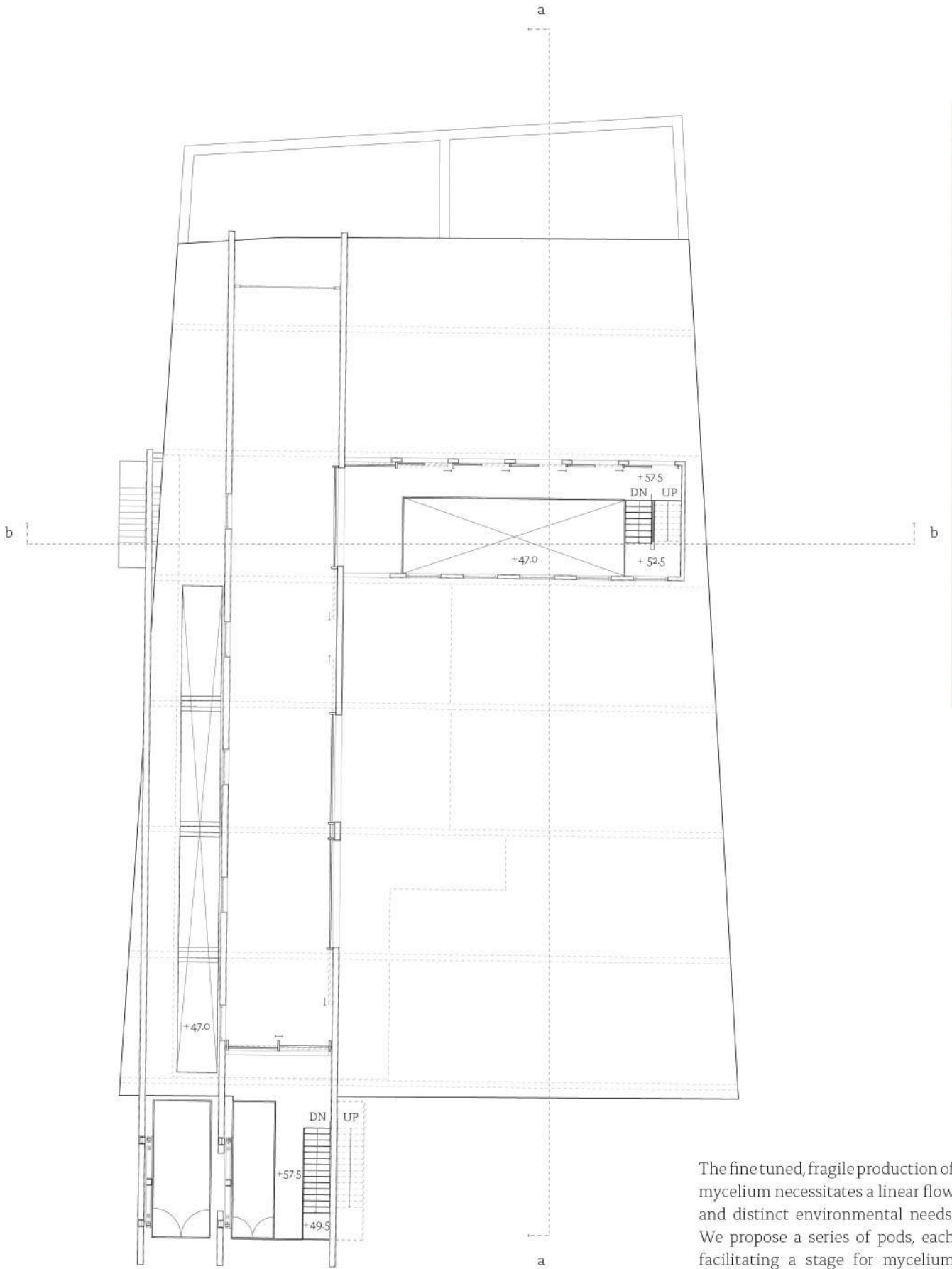
04-12-22 15:58:00

day 07/14

pleurotus djamor



chair designed to receive its missing piece: the cushion | *constructed with repurposed plywood and leftover 2x4s*



6

The fine tuned, fragile production of mycelium necessitates a linear flow and distinct environmental needs. We propose a series of pods, each facilitating a stage for mycelium production, suspended over the existing ceiling, and sandwiched between the theater's existing trusses, which we reinforce using glulam beams.

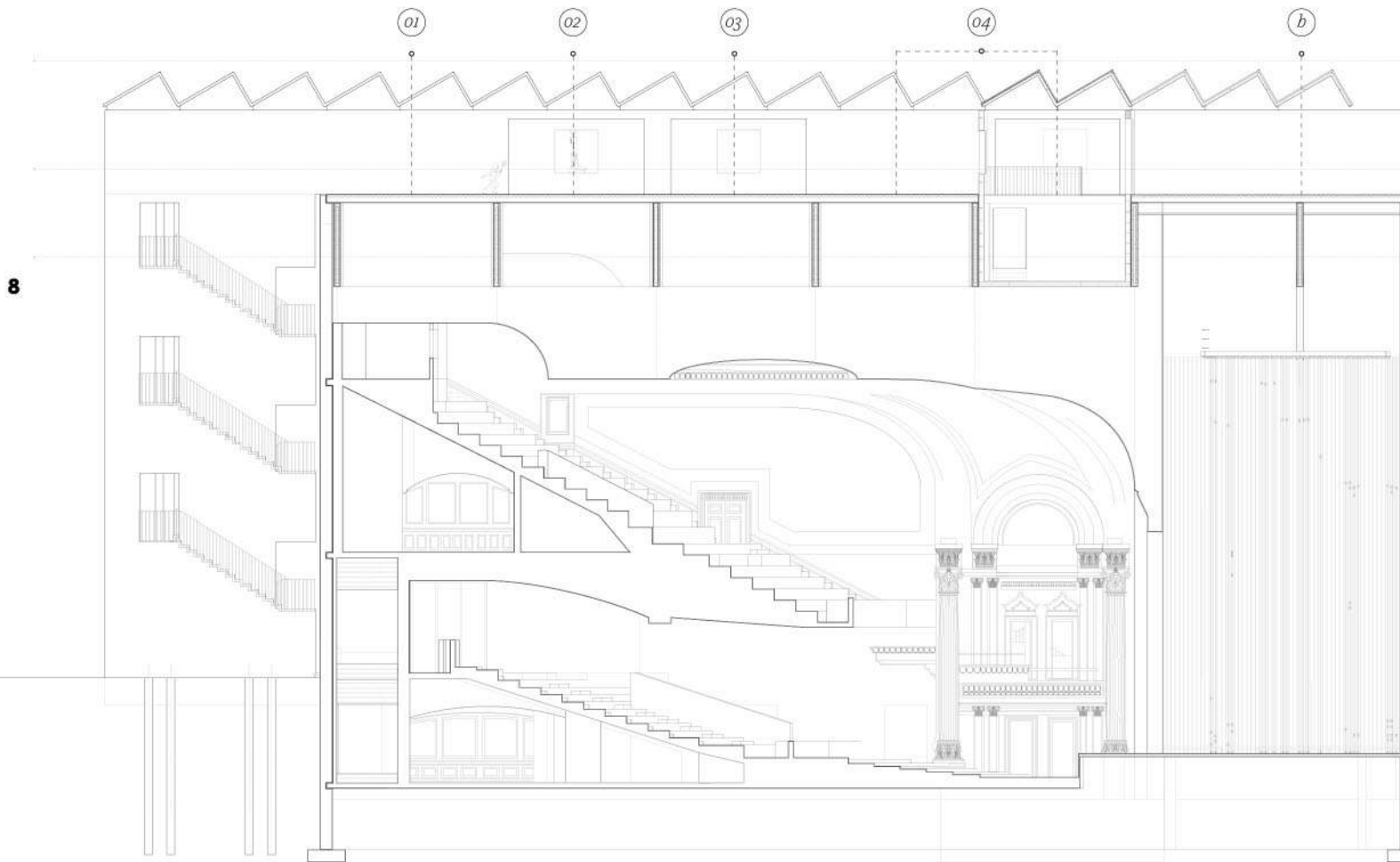


our subject, the chair, circumventing decay

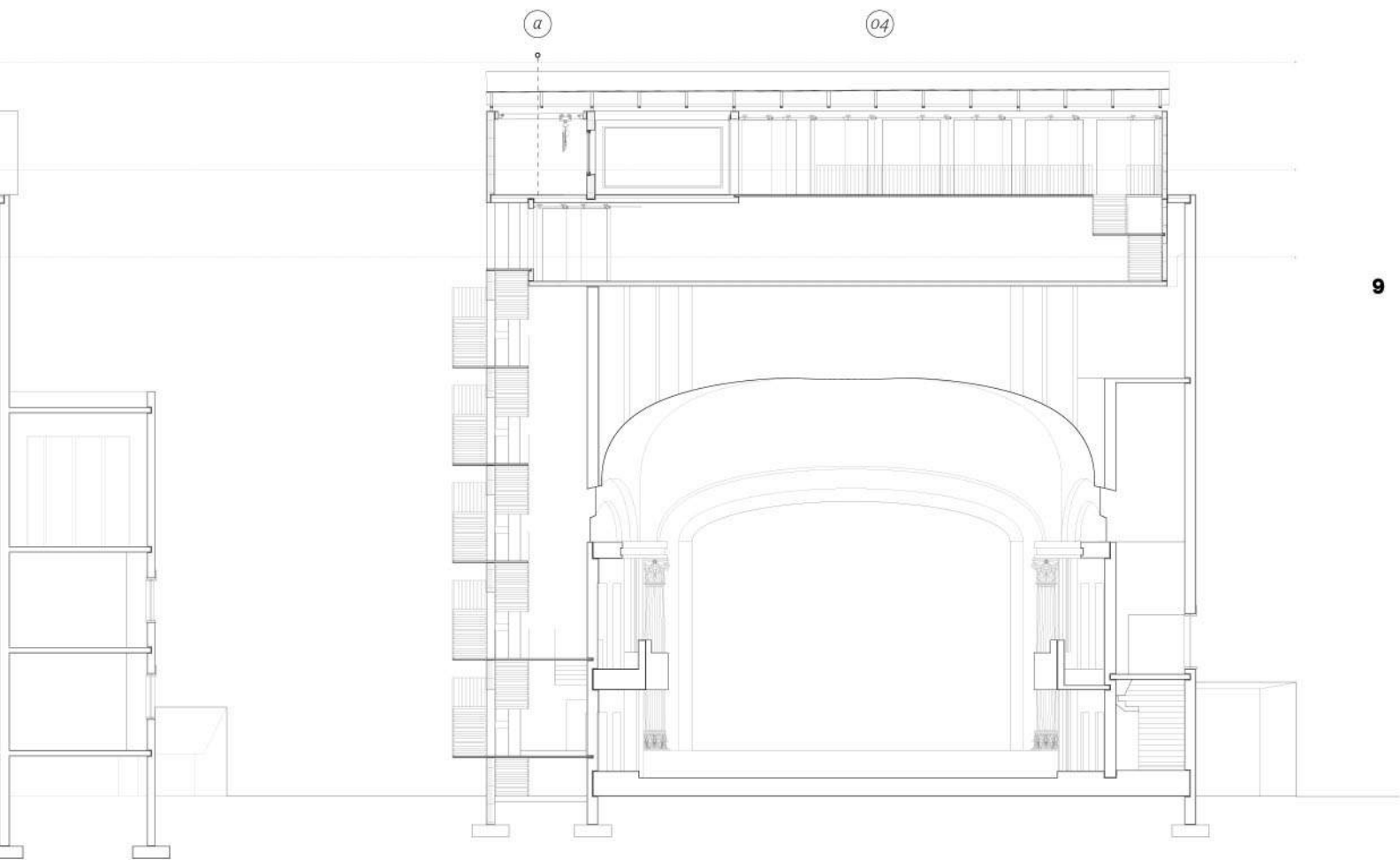


view of double-height workshop with windows overlooking roofscape

<i>PROGRAM</i>	<i>CHIPPER</i>	<i>STORAGE</i>	<i>INOCULATION</i>	<i>SPAWNING &amp; TOOLING</i>
<i>AGENT</i>	<i>MECHANICAL</i>	<i>NONE</i>	<i>HUMAN &amp; FUNGAL</i>	<i>HUMAN &amp; FUNGAL</i>
<i>SUBJECT</i>	<i>WOODCHIP</i>	<i>WOODCHIP</i>	<i>WOODCHIP</i>	<i>MYCELIUM</i>
<i>ACTION</i>	<i>CHIPPING</i>	<i>CONTAINING</i>	<i>INOCULATE</i>	<i>CASTING &amp; ASSEMBLY</i>
<i>ENVIRONMENT</i>	<i>SHELTERED</i>	<i>SHELTERED</i>	<i>CLIMATE CONTROLLED</i>	<i>SHELTERED</i>
	<i>DRY</i>	<i>DRY</i>	<i>STILL AIR</i>	<i>WARM</i>
			<i>WARM</i>	







section a-a

Additional circulation is inserted on left, utilizing , yet extending the theater's existing stair core. Thus, the core also becomes a structural landing point for the transfer of loads of our intervention.

section b-b

## 02 DEGREES OF NEGOTIABILITY : TATE BRITAIN

location: london, uk  
instructor: naiara vegara  
marie de monseignat  
katya larina  
project type: arch. assoc.  
spring semester visiting school

Boundary pertains to access.

Edge pertains to proximity.

Yet, both operate on a spectrum of negotiability.

The negotiable is that which is dynamic, which relinquishes authority; which offers room for the user to delimit their experience in accordance with their understanding of cultural, political and physical boundaries. The non-negotiable is that which is static; which prescribes, revoking the user's agency.

Boundaries and edges contain a range of typologies: architectural, spatial or typographic. Yet, they all behave architecturally, defining occupiable and non-occupiable space - here, in the context of the museum as an institution, and art as a precious object.

10

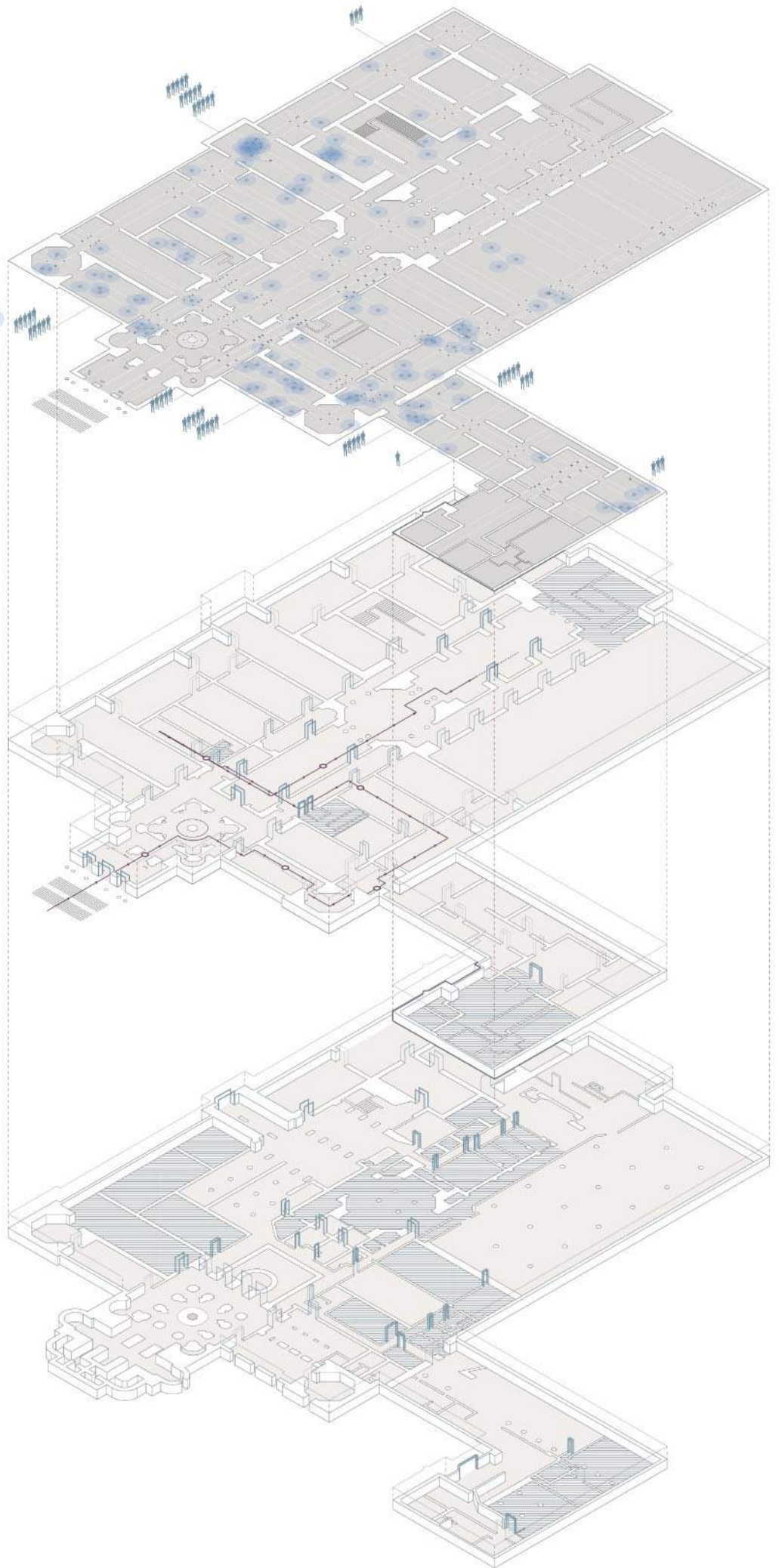


catalogue : edge and boundary

average popularity of gallery  
 intimate space (0.45 m dia.)  
 personal space (1.2 m dia.)  
 social space (3.6 m dia.)  
 non negotiable edge > negotiable edge

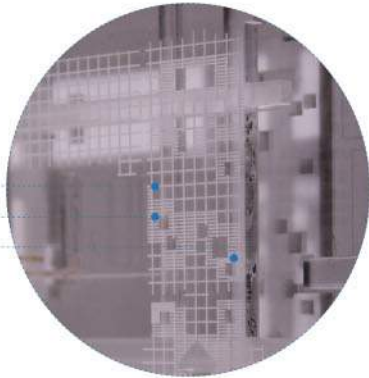
ground level : physical boundaries  
 private area : non-negotiable boundary  
 non-negotiable edge  
 public area : negotiable boundary  
 non-negotiable boundary > negotiable boundary  
 route through boundaries & edges  
 direction along route  
 select boundary edge

lower level : physical boundaries  
 private area - non-negotiable boundary  
 non-negotiable edge  
 public area : negotiable boundary  
 non-negotiable boundary > negotiable boundary



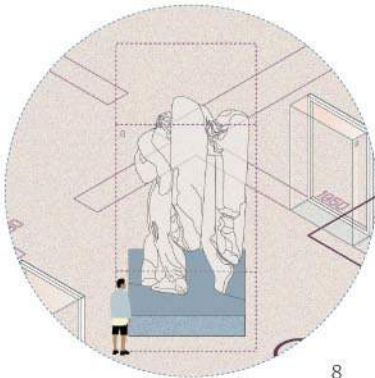


MOST NEGOTIABLE  
 NEGOTIABLE  
 NON-NEGOTIABLE



**THE MUSEUM AS A NEGOTIABLE GRID**

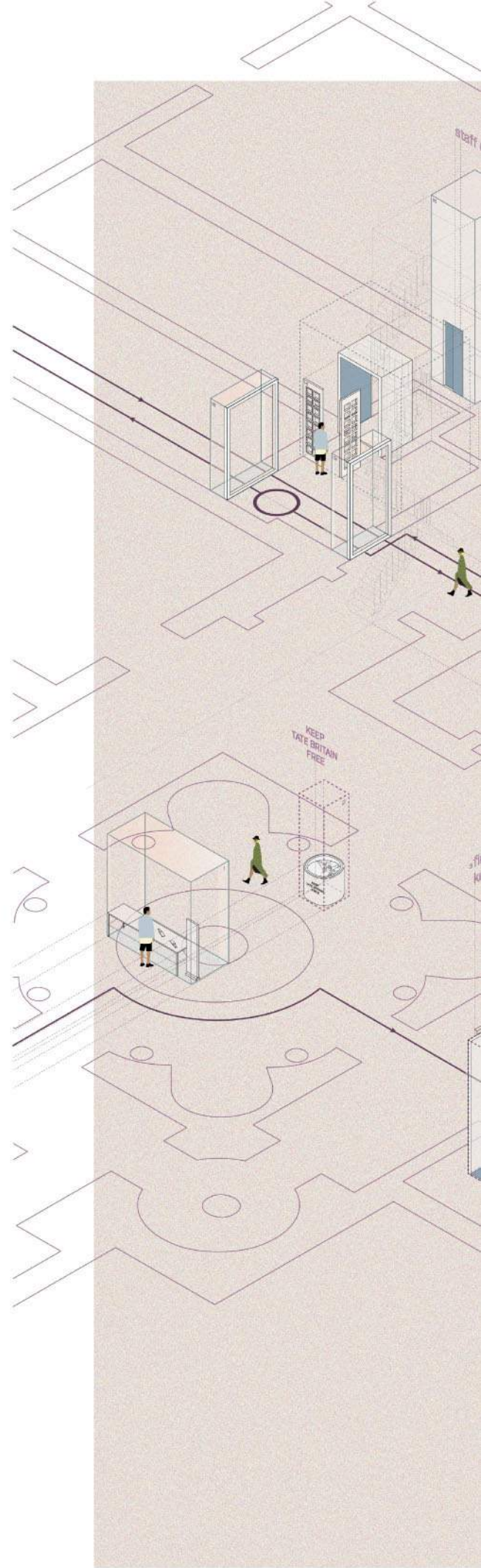
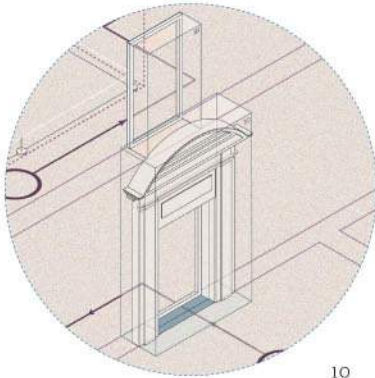
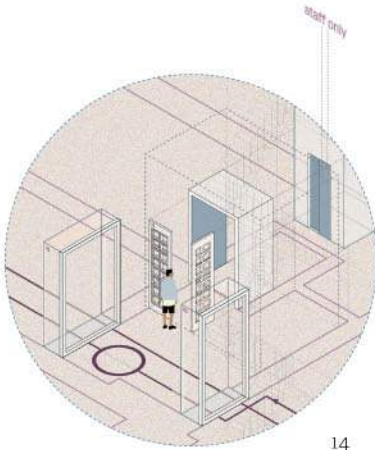
Together, the edges and boundaries of the Museum shape a territory with varying degrees of negotiability, constructing a viewer's relationship to artefacts.



**FIGURES, DOORS AND PASSAGES**

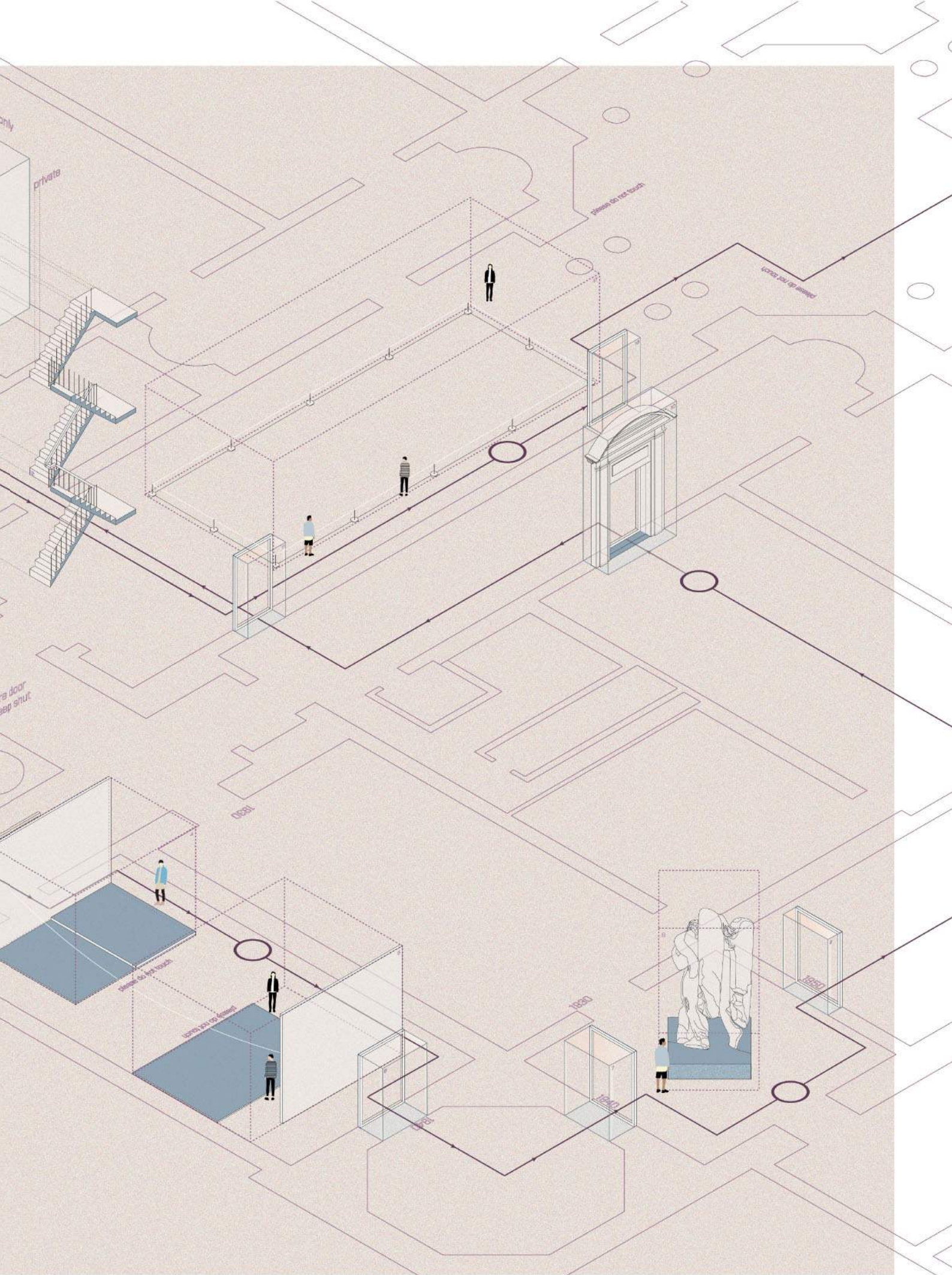
*"If anything is described by an architectural plan, it is the nature of human relationships, since the elements whose trace it records - walls, doors, windows and stairs - are employed first to divide and then selectively to reunite inhabited space."*<sup>1</sup>

<sup>1</sup> Robin Evans, *Figures, Doors and Passages* (1978)



artefact, negotiable edge : 2, 4, 5, 8, 17 private stairwell, non-negotiable  
 fire door, negotiable boundary : 3, 15 staff entryway, negotiable





negotiable boundary : 12  
 non-negotiable boundary : 14

----- negotiable boundary  
 ———— non-negotiable boundary

----- negotiable edge  
 ———— non-negotiable edge

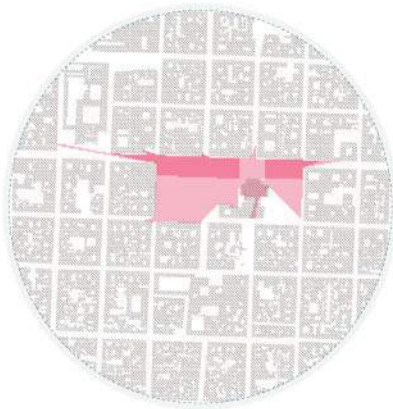


### 03 DESIGNING FOR NEGOTIABILITY

location: london, uk  
instructor: naiara vegara  
marie de monseignat  
katya larina  
project type: arch. assoc.  
spring semester visiting school

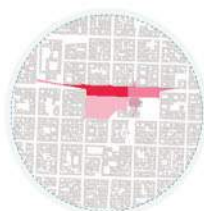
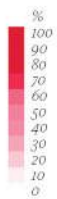
If you extend the definition of negotiability to the boundaries and edges of an urban environment, you begin to understand the porosity of that environment, architecturally and thereby, socially.

Looking at Morelia, Mexico - a city whose historical center was built under Spanish rule - one begins to understand the relationship between the colonial typology, the program of each urban block and the degree of negotiability. Namely, buildings in immediate proximity to the central Cathedral de Morelia have public or semi-public programs, which infer a greater degree of negotiability. On the contrary, the periphery is heavily populated with local residences, which are non-negotiable in nature.



1.5 m

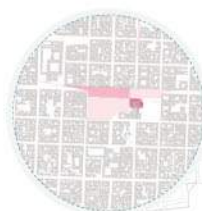
This is a serial study using LadyBug showing the degree of visibility at varying elevations of Cathedral de Morelia - the city's most important and most frequented landmark. The first and last elevation distinctly show how visibly porous the city's inner courtyards become as one progresses upwards. So, to whom does the city appear porous? The tourist or the resident?



6 m



12 m



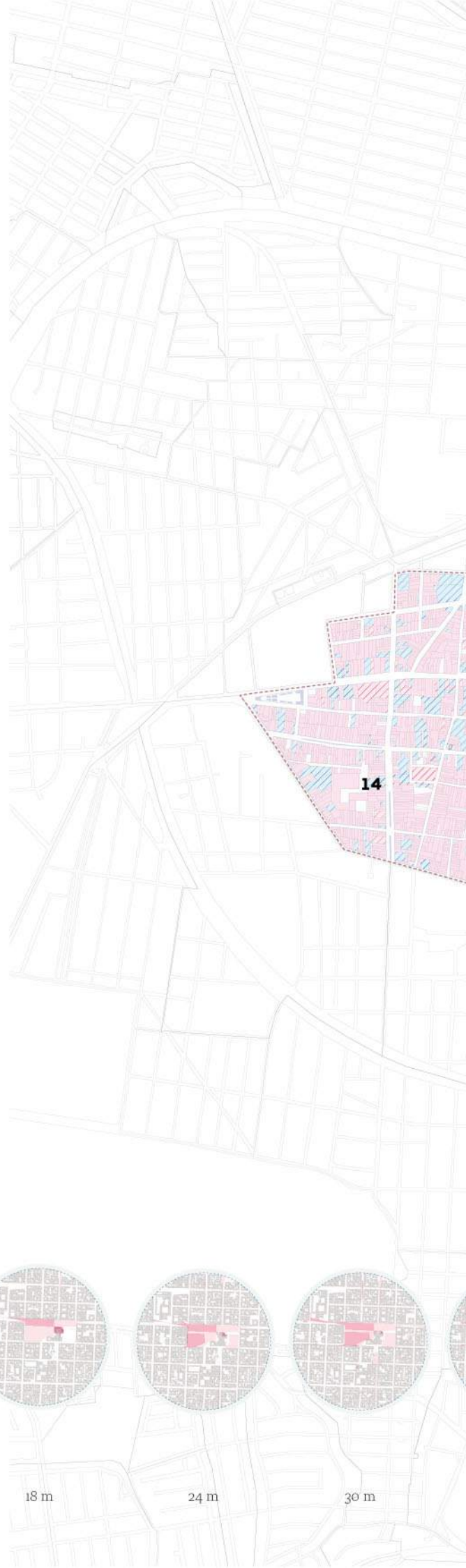
18 m



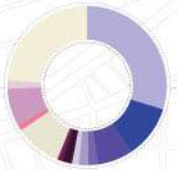
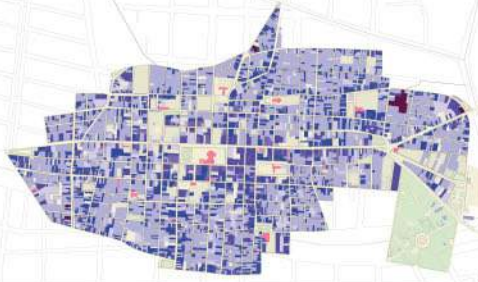
24 m



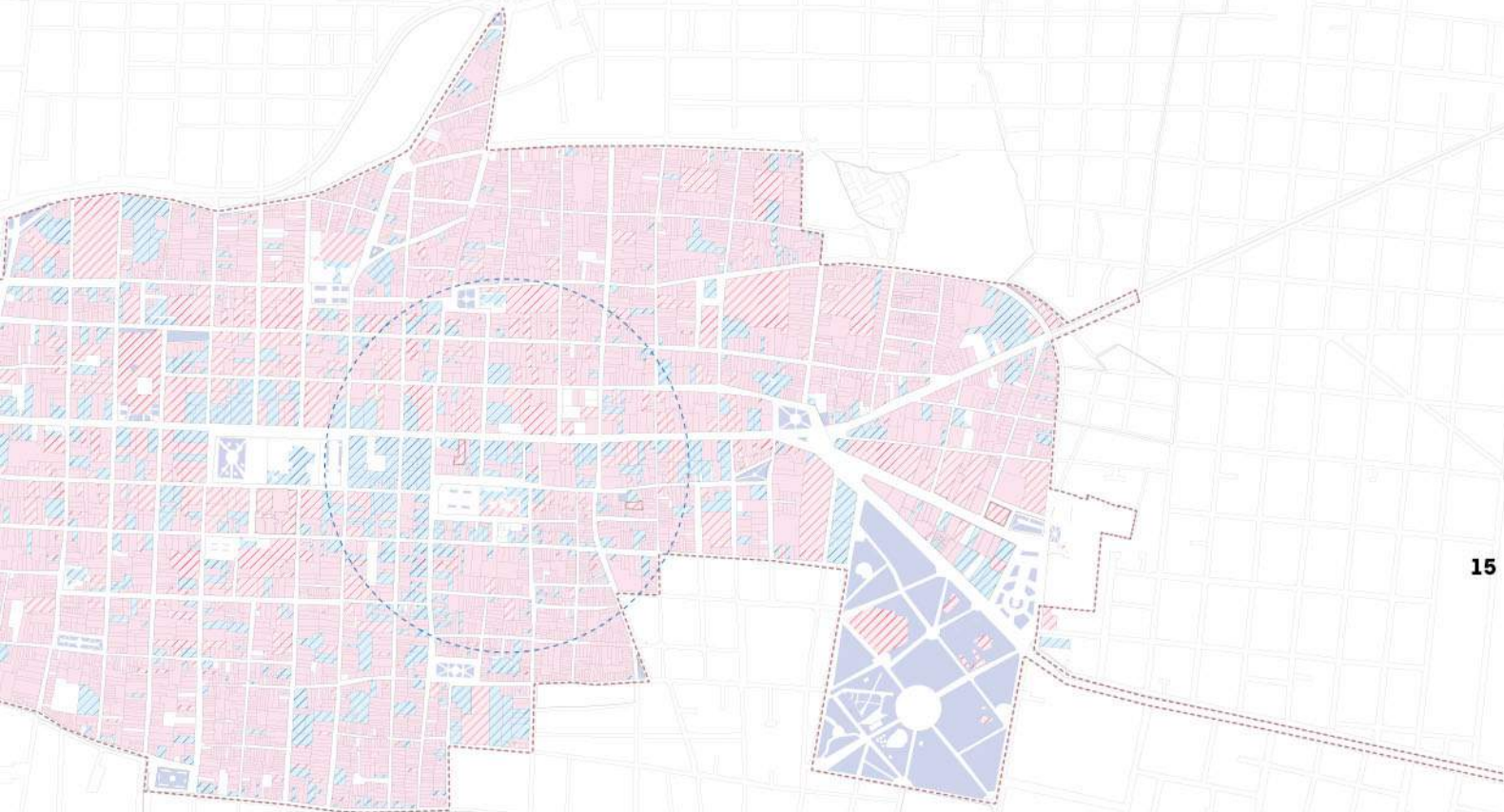
30 m







- residential
- mixed residential
- commercial
- commercial w/ offices
- offices
- hotels
- parking
- bodegas
- industry
- facilities
- churches
- green spaces
- empty lots
- roads



15



36 m



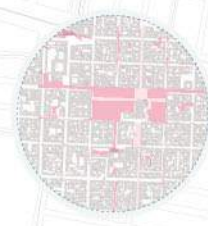
42 m



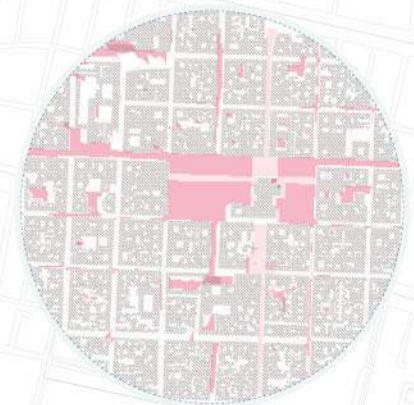
48 m



54 m



62 m



68 m

## DECOLONIZING THE BLOCK

Taking the block directly across from Cathedral de Morelia, this unrolled elevation shows the degree of porosity, and so negotiability, in a typological sense. Clearly, the cathedral-facing façade is the most porous, where as that facing the residential perimeter is the least. This is immediately challenged when one takes a section through each

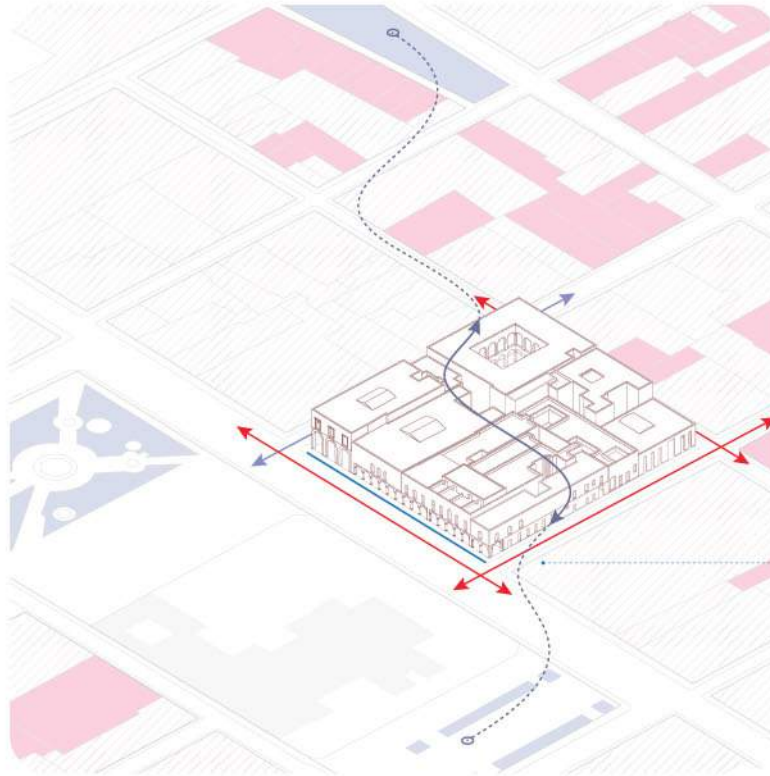
side of the block where the courtyards dominate.

The strategy then becomes to generate a tertiary programmatic path that links areas of high negotiability and begins to dissolve the colonial typology in an effort to challenge the following statement : *"the city has...become more a*

*place to come to work rather than live."*

The space is inhabitable 24 hours a day, performing as a pocket park and community nook during the day-time and as a dance and performance space in the night-time.

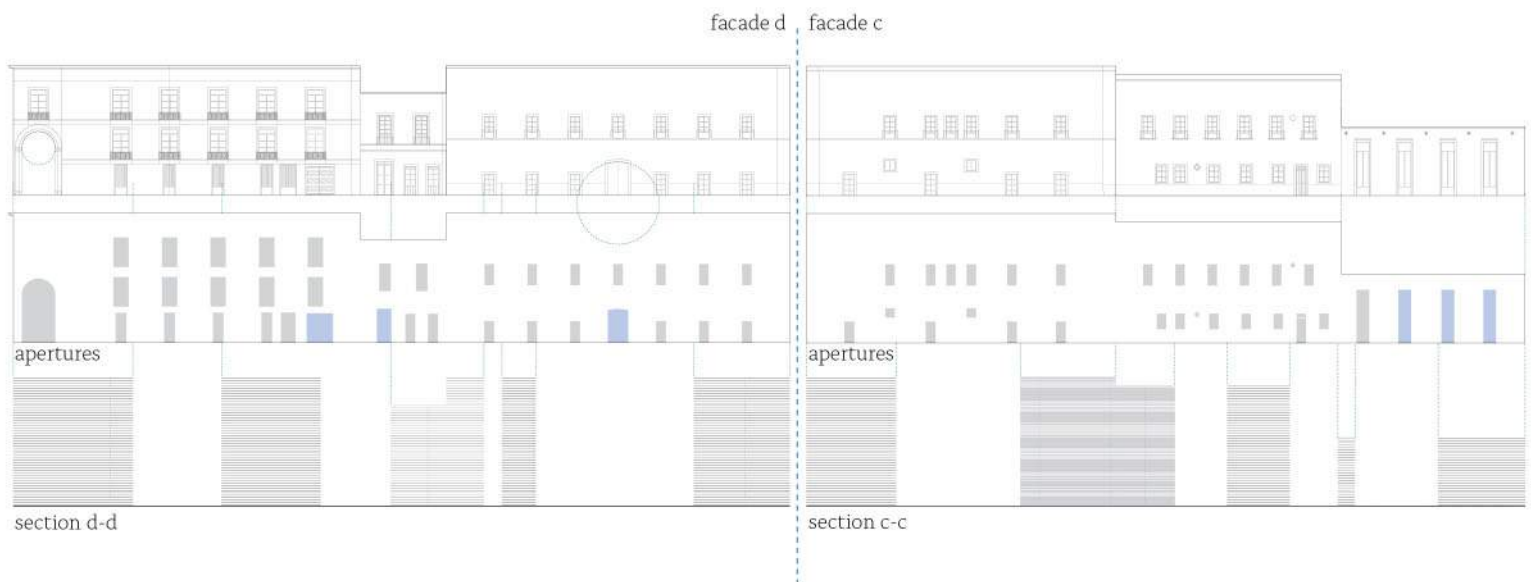
1 Alejandro Magana, born and raised in Morelia



xray elevation / section a-a

- 01 : primary circulation
- 02 : secondary circulation
- 03 : tertiary circulation

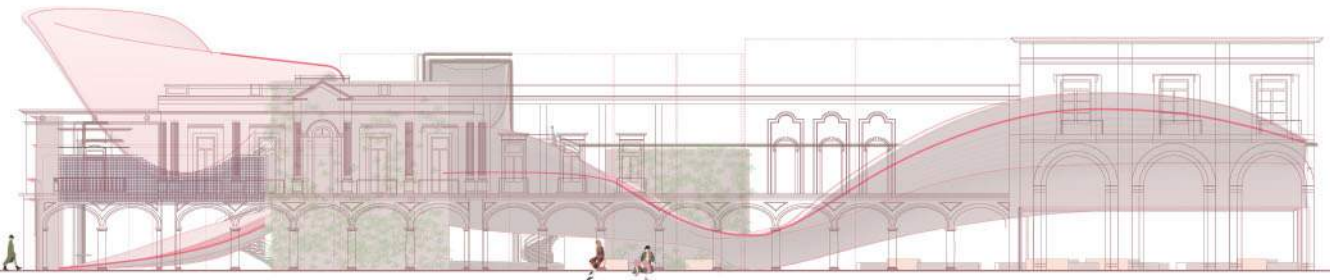
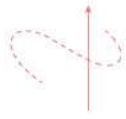
16



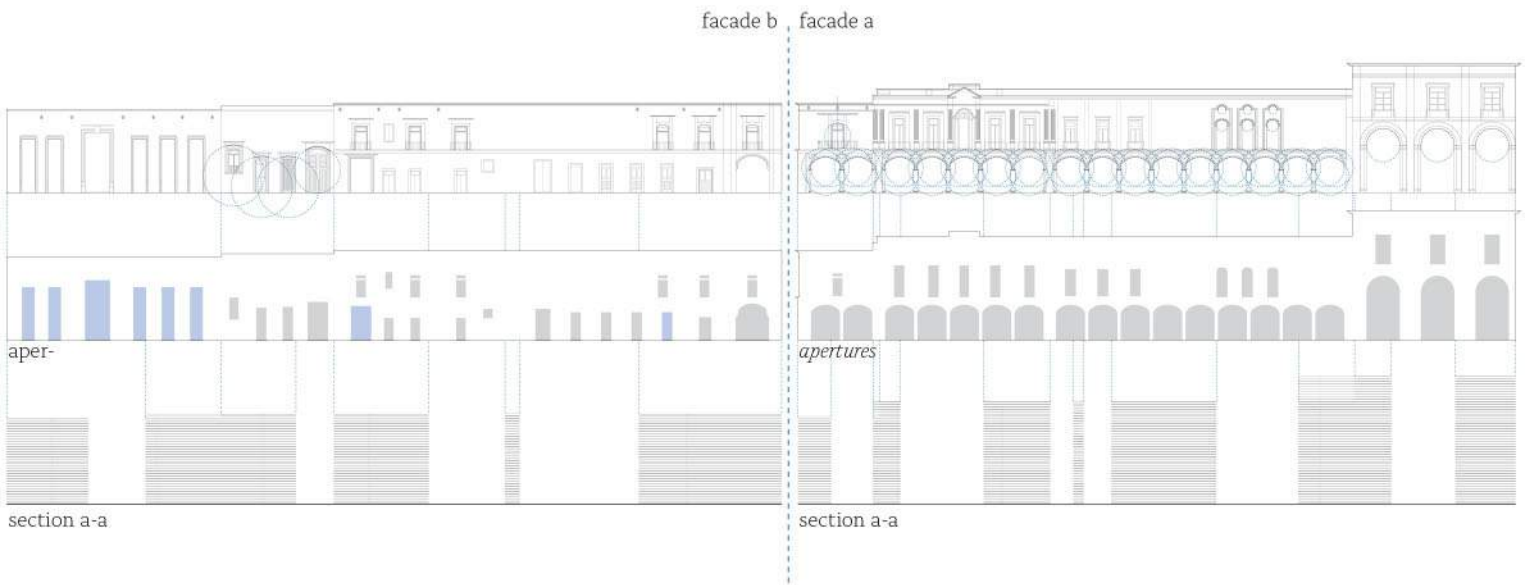


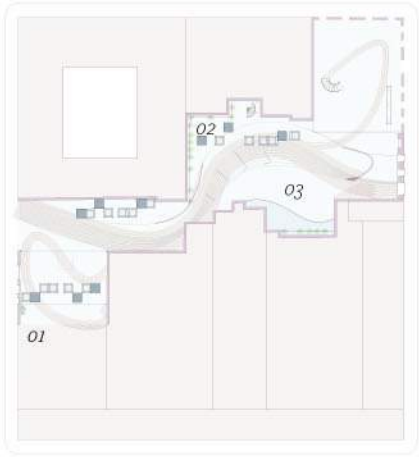


motion diagram  
picture/plan/elevation



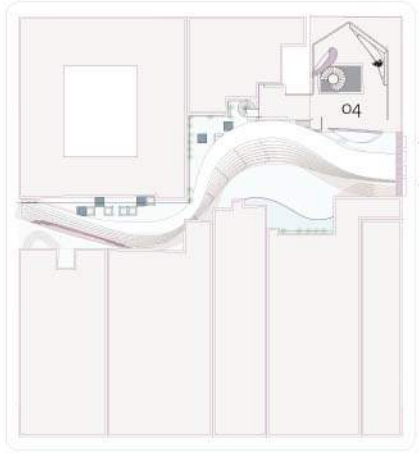
xray elevation, section a-a





plan a : a

- 01 : rehearsal space
- 02 : la balera
- 03 : exhibition cove

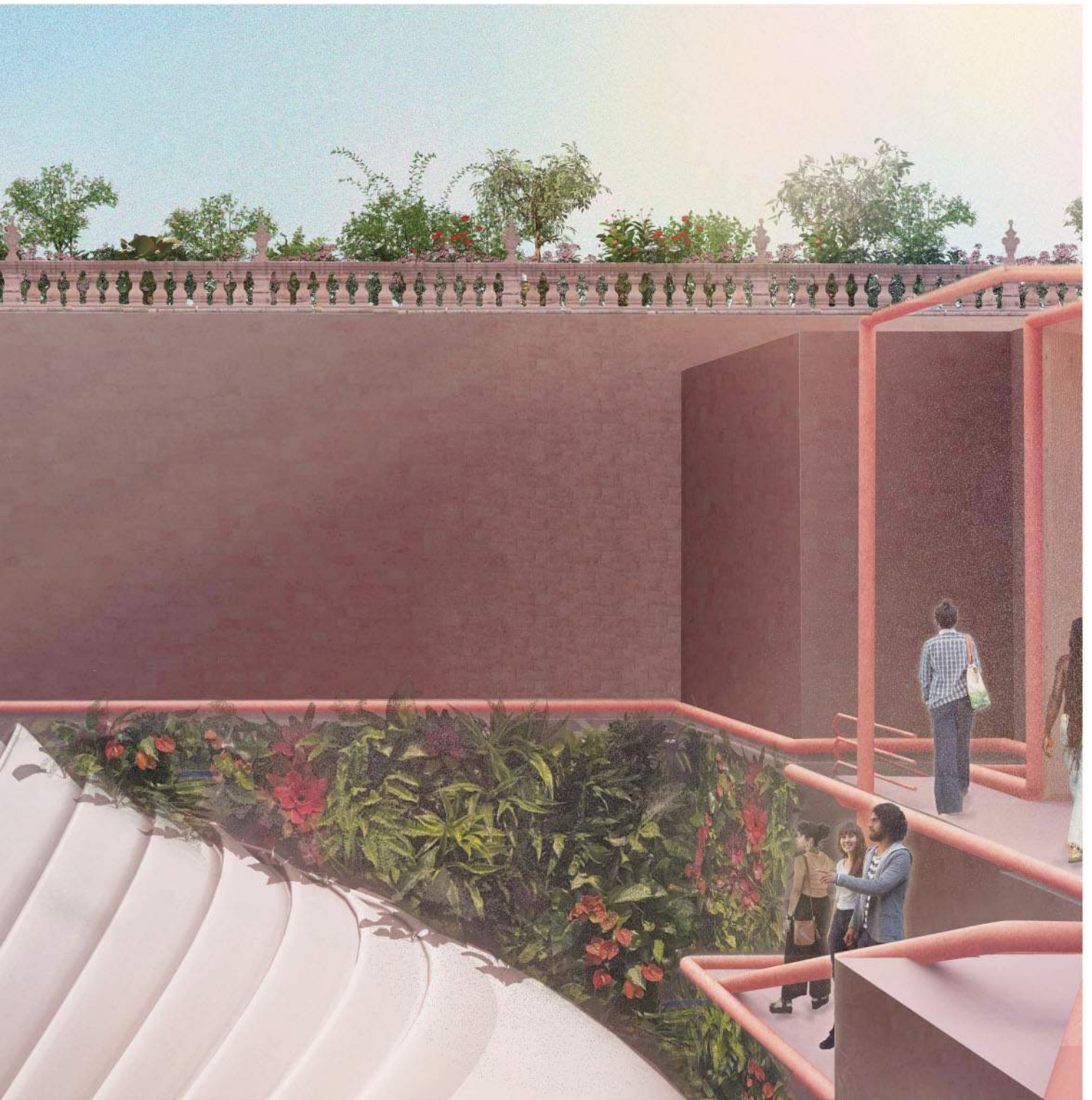


plan b : b

- 04 : community hub







04 **ATLAS OF EROSION POTENTIALITIES :  
ARCHITECTURAL NARRATIVES IN THE FACE OF SURGING SEAS**

location: london, uk  
adviser: daniel barber  
s.e. eisterer  
thesis: upenn, year 04  
honors thesis

London is inherently vulnerable to flooding as a result of high tides and storm surges on the Thames, exacerbated, at an increasing frequency, by storms in the North Sea. Since 1984, the city has been on the defense, primarily in protection of the City of London, when the government erected the Thames Barrier. The 1,800-foot retractable floodgate stretches between Silvertown and New Charlton, cutting off high tide ahead of the meanders that define London's cityscape. Designed for a one in a one-thousand-year event, the two-billion-pound investment has already been used 182 times, 50 times in the year 2013 alone.

30,000

25,000

20,000

15,000

10,000

5,000

0

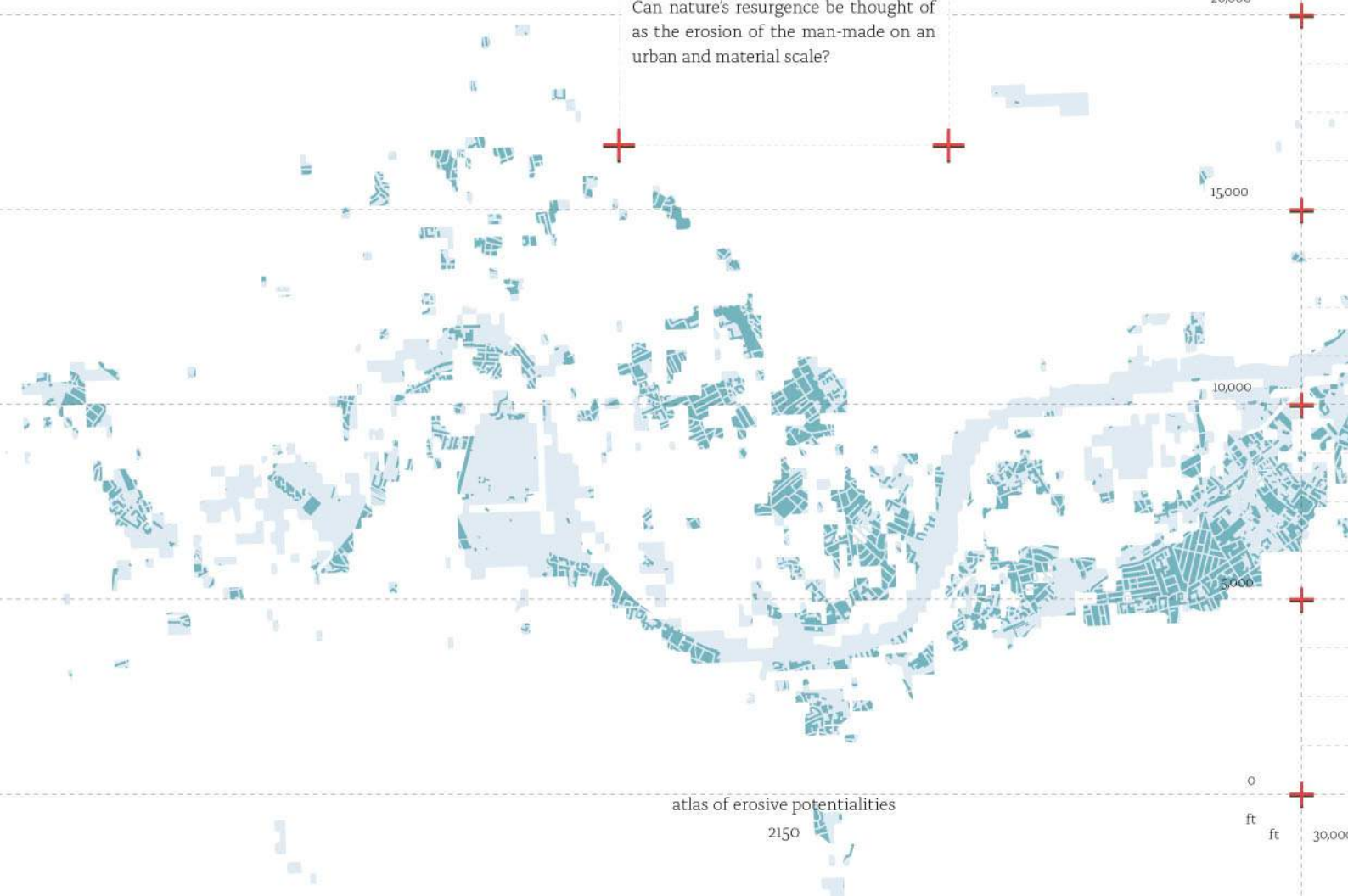
atlas of erosive potentialities

2150

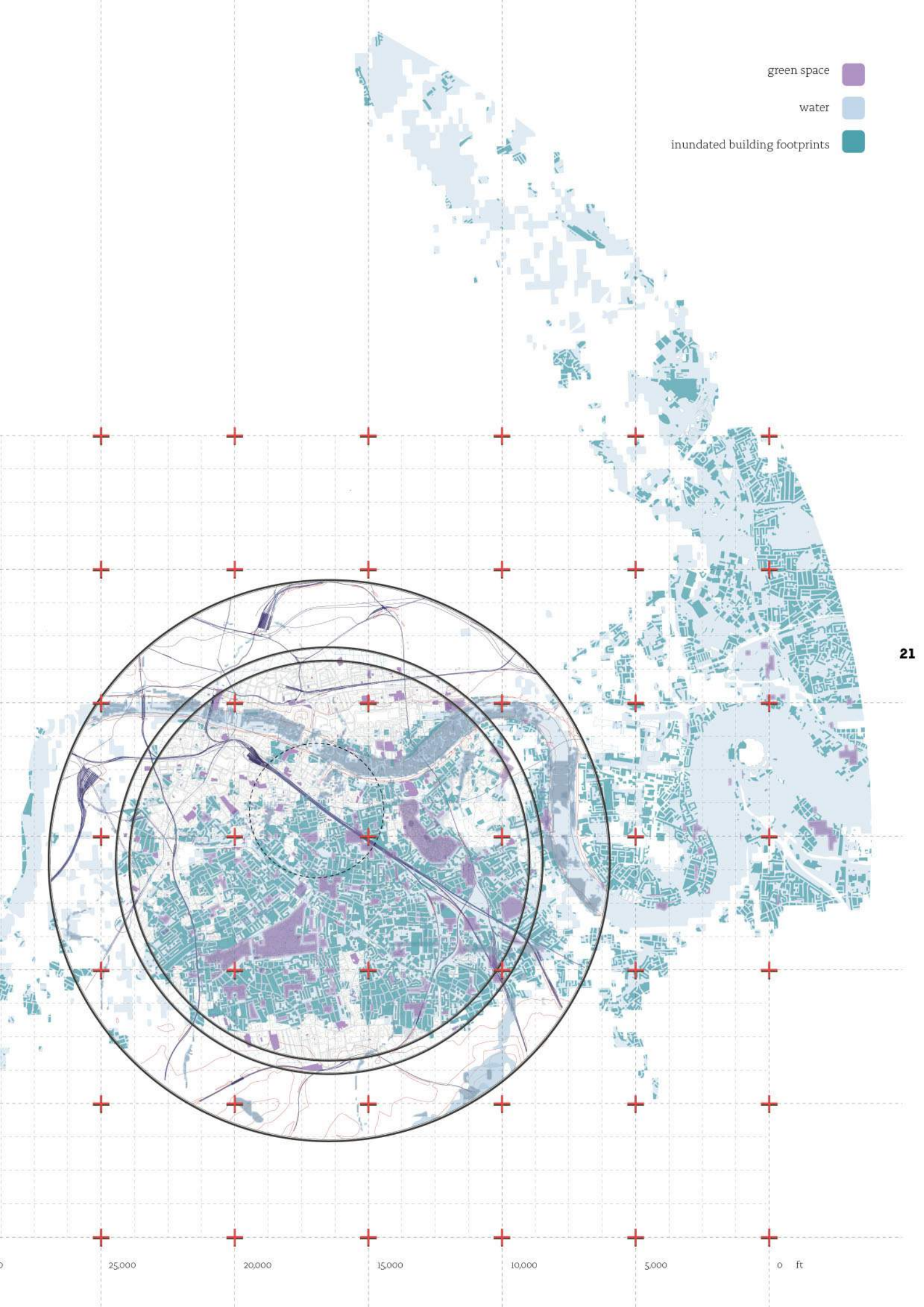
ft

ft

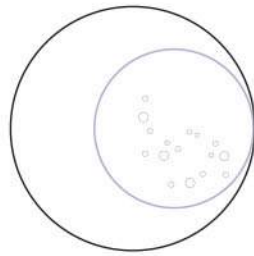
30,000



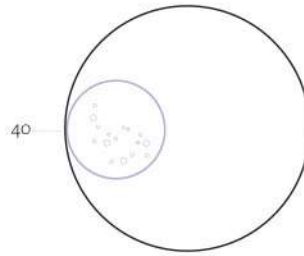




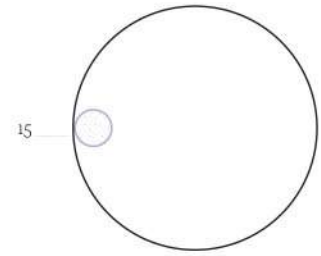




65  
60 to 70% of anthropogenic greenhouse gas emissions emanate from cities



40  
the construction industry is responsible for 40% of UK's carbon emissions



15  
15% of London is within a recognized flood risk zone from either tidal or fluvial flooding

**PREFACE :**

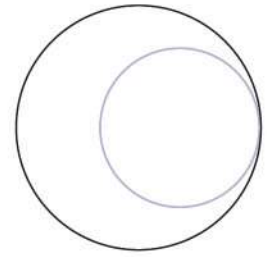
WATER is the first means to traverse the world; to exchange resources between faraway lands; to extract and redistribute. Water is inherently endowed with the quality of a fuel—energy, which can be transformed into power; but as found, it is a potentiality, a “not yet rigidified [form] of power.”<sup>1</sup> Within a reservoir, it becomes an echo of sociopolitical conditions for the production of capital, a mirror image of a place in time.

Once rigidified, it can become a tool for human use and abuse, losing its identity as anything but a ‘means to.’<sup>2</sup> The most notable periods in the history of the United Kingdom are defined as those of greatest geographic reach, not in terms of landmass but in terms of claim to offshores. The hard divisions between land and water stem from cartography, of mapping as a tool for the “exploration” of offshore territories. Globally, waterways became dominant sites of economic activity. Shoreline factories, warehouses and ports enabled the centralization of economic production, distribution and exchange. The contemporary domestication of water emanates from the transformation of these labor practices, from predominately industrial in nature to primarily service-oriented. Waterfronts have become the sites of the spatial transformation of capital.<sup>3</sup> Specifically, London’s riverfront is now the site of the global economy, of vertical forests, which offer far-reaching views that dissolve locality and instill globality.

...  
Architects such as Keller Easterling and Rem Koolhaas have spoken on the value of subtraction or abstinence<sup>4</sup> in architecture; both of these terms, however, operate on the same timescale of quick or momentary exchanges. This thesis speculates on the value of erosion, a term, which implies a longer, geological, time scale in the transformation

of London’s built environment. Erosion is commonly defined as a natural process whereby an entity is being eroded by wind, water or other natural agents. In the context of the Anthropocene, however, erosion is hardly a “natural” phenomenon; instead, it is the product of anthropogenic activities. This thesis defines erosion as the gradual removal of the man-made, permitting the resurgence of the non-human within the built environment; it argues that the built environment is full of erosive potentialities—objects, systems, and moments, which bear a capacity for erosion as a means to transform place in the face of surging seas.

Subsequent chapters tell the psychogeography of a person living in a particular time, as a way to illuminate the layers of historical processes, which have led to the climate crisis as experienced today. This thesis explores the relationship between narrative and design; and then, between mapping and narrative. Beginning in 2052, the reader is briefly transported to Post-Carbon London, where carbon-neutral technological solutions are failing to resolve the crisis. Then, it focuses on three time periods – 1870, 2020 and 2150, presented chronologically; the objective is to imply a longer time scale for the contemporary and future realities. 1870 suggests the onset of the carbon emission curve, which we continue to accelerate; 2020 is the moment of potentiality, where indecision and inaction will (and do) prove detrimental; and 2150, as the projected scenario of managed retreat. This thesis proposes a reality where the resiliency of London’s built environment is not predicated on defense. Instead, the built environment becomes a moment of exchange between man and the non-human; in this process, architecture and urbanity may be eroded, but their value multiplies as they become hosts to new habitats, human and non-human, both.



13  
13 of the world’s largest 20 cities are port cities



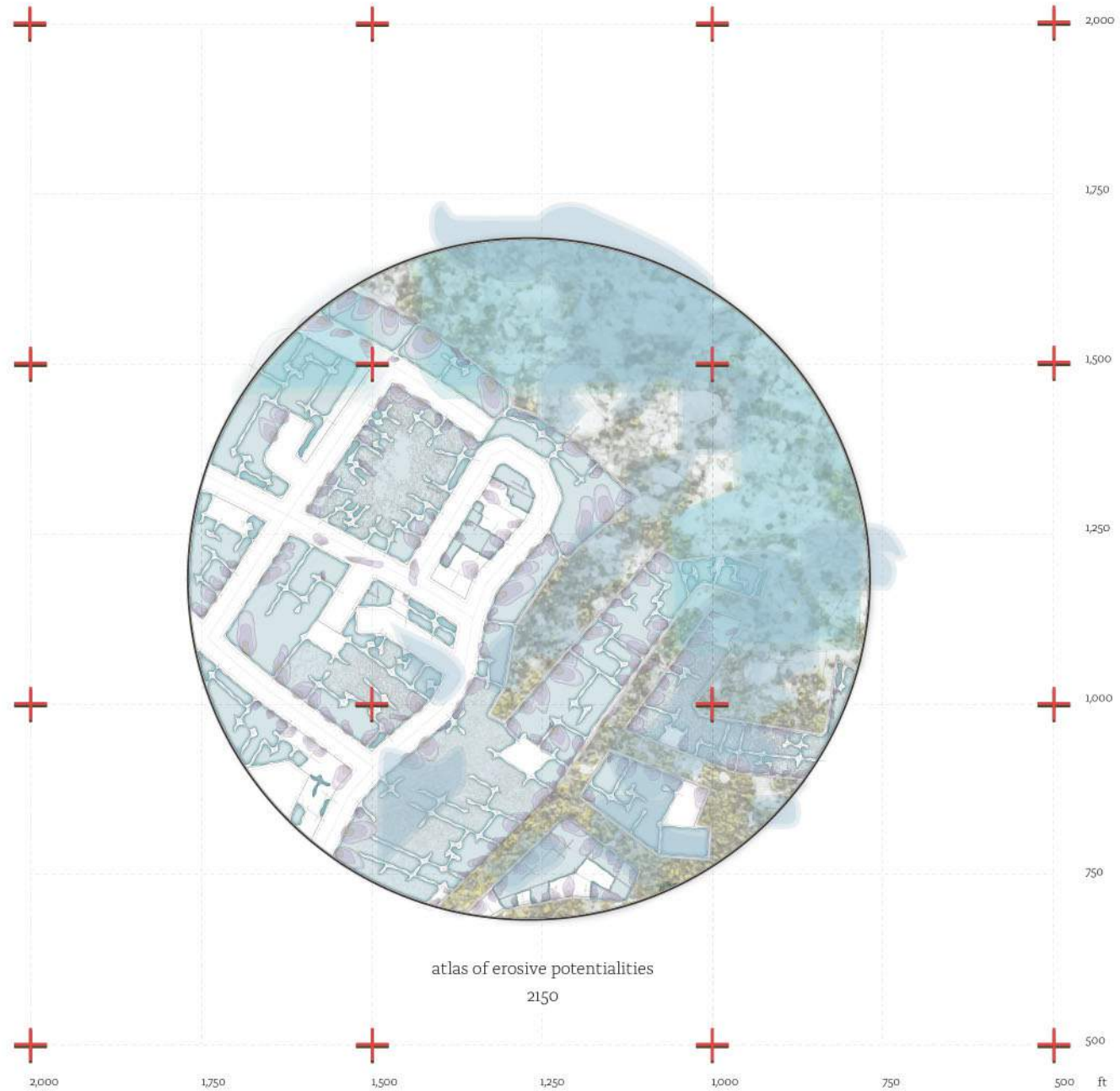
silicone cast of eroded sidewalk, Bermondsey

1 Pinkus, 2016  
2 Harman, quoted in Gage, 2019  
3 Harvey, quoted in Dawson, 2017  
4 Koolhaas, Otero-Pailos, GSAPP Transcripts, 2014



**SCALAR SHIFTS :**

The Atlas deploys scalar shifts to emphasize the need for shifts in resolution. Since the macro scale



requires sweeping and systemic change, the micro scale becomes a productive lens through which to penetrate, frame, define and visualize the problem. Casting was a means to visualize the erosion of the man-made, challenging the premise of erosion as a 'natural process' in the anthropocene. These preliminary studies are the foundation of my honors thesis.





location: yarmouth, maine  
 instructor: rami el-samahy  
 project type: mit core 03  
 m.arch year 02  
 collaborators: evan ortiz

Driving north on Route 1, you might just miss it. Wedged between two economic forces – the Ford dealership and Dave's Lobster Shack – Even Keel Road is an unassuming dirt road. If you stay the course of its meander, you would find yourself at One Even Keel.

One Even Keel is the site of a newly established riverfront cooperative, leading the transition towards regenerative aquaculture. The few aquaculture facilities in the United States infill unused warehouses and wharfs, remnants of the fossil fueled global network of exchange. The nonresponsive nature of these buildings is unmatched for our need for a regenerative future.

Situated along the Cousins River, One Even Keel sits at the intersection of three ecosystems – marshland, riverfront and forested hillside – each subject to variability. The inherent precarity of the landscape, together with the unpredictability of climate change, demand a facility, which both anchors itself firmly and retains the ability to change over time: daily, seasonally, yearly, generationally

A line is drawn north to south, connecting marshland to river.

Two structures straddle this path, bridging ecologies, forms of production, the public and mariculture, construction typologies.







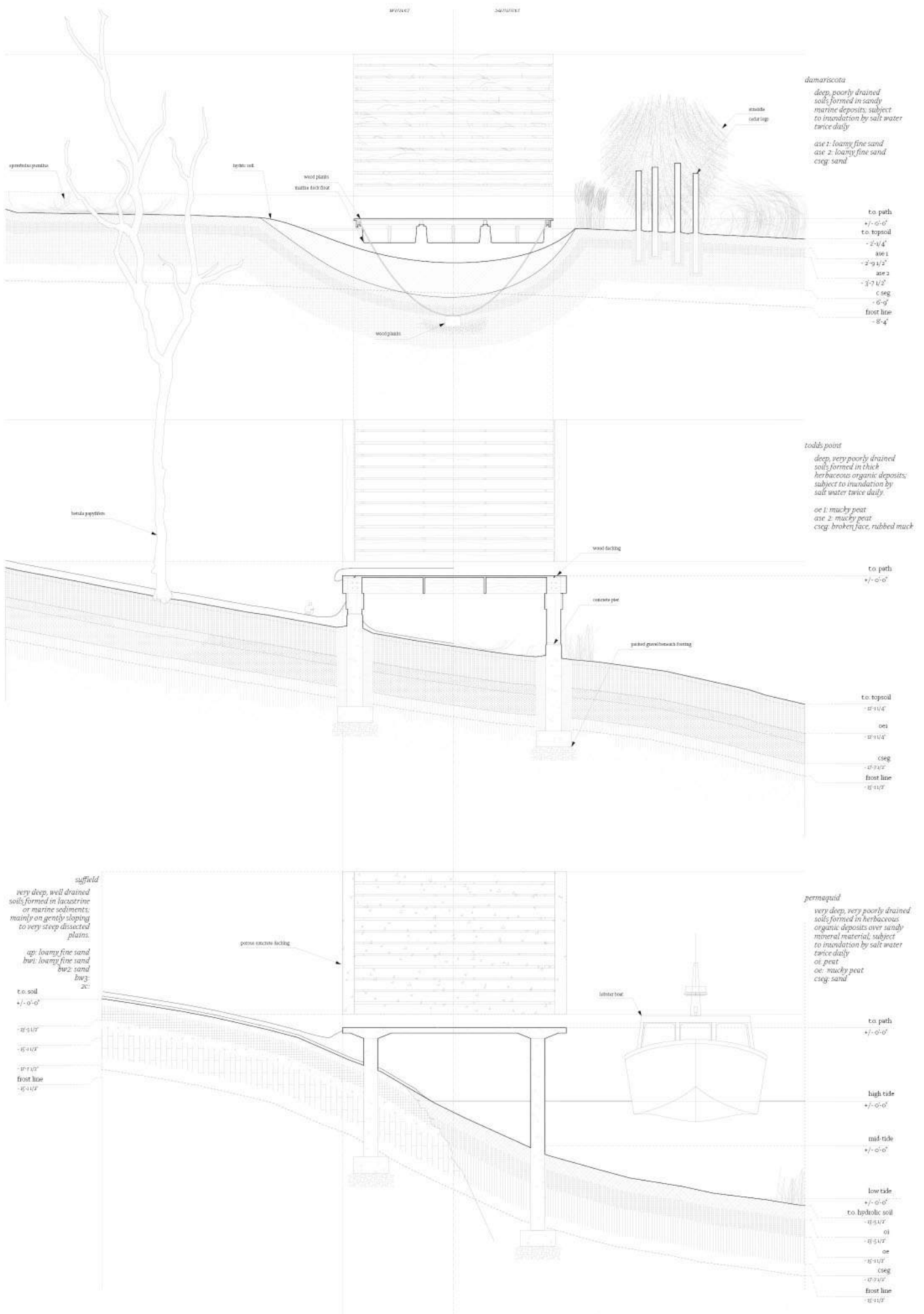




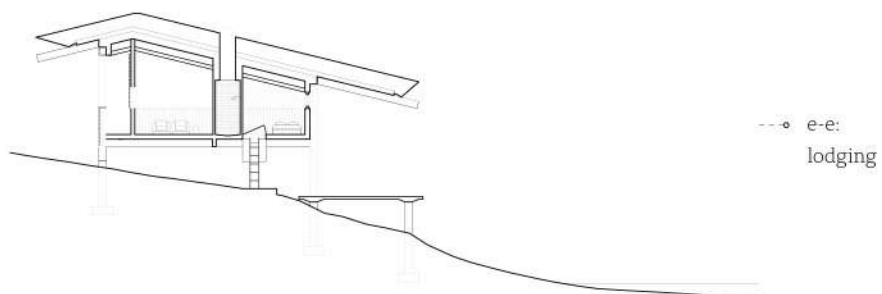
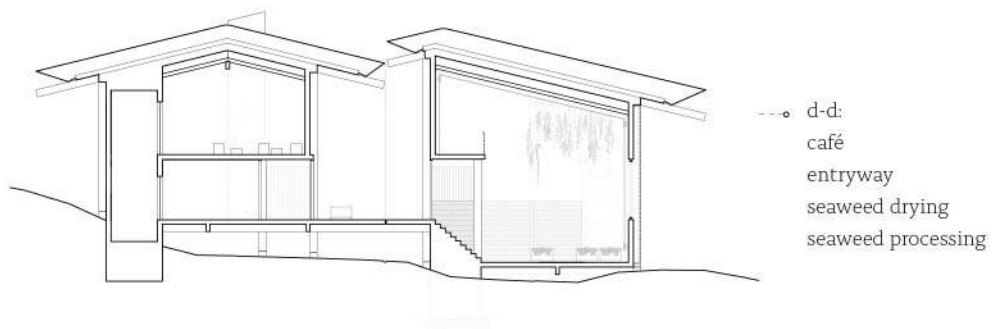
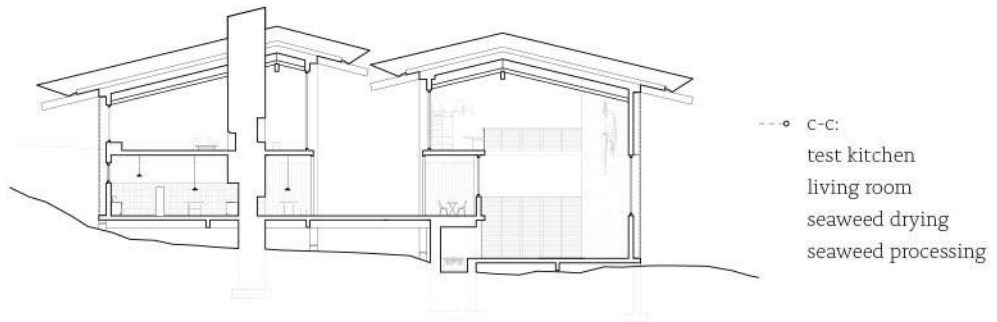
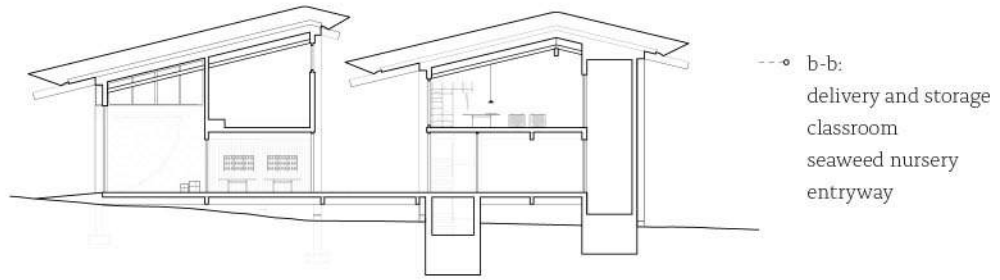
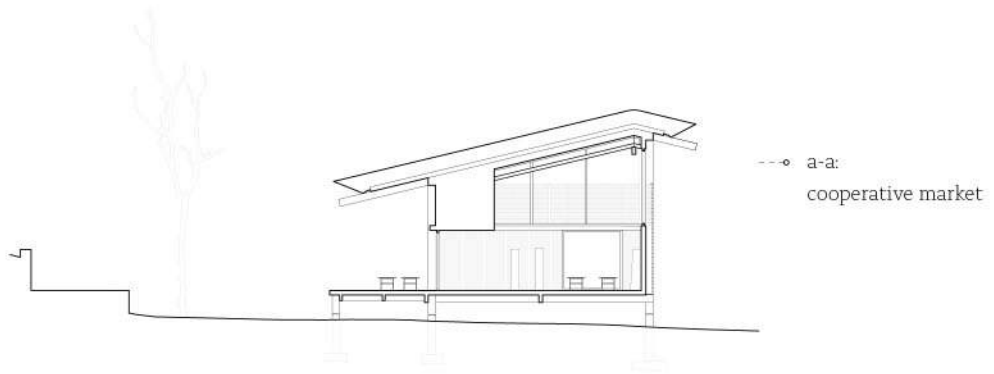
01 FORD DEALERSHIP    02 LOBSTER SHACK    03 ONE EVEN KEEL

The site is crosses marshland to the north, forested hillside to the west and the riverbed to the south.





path cross-section across three ecologies, associated soil typologies; path changes in buoyancy and materiality





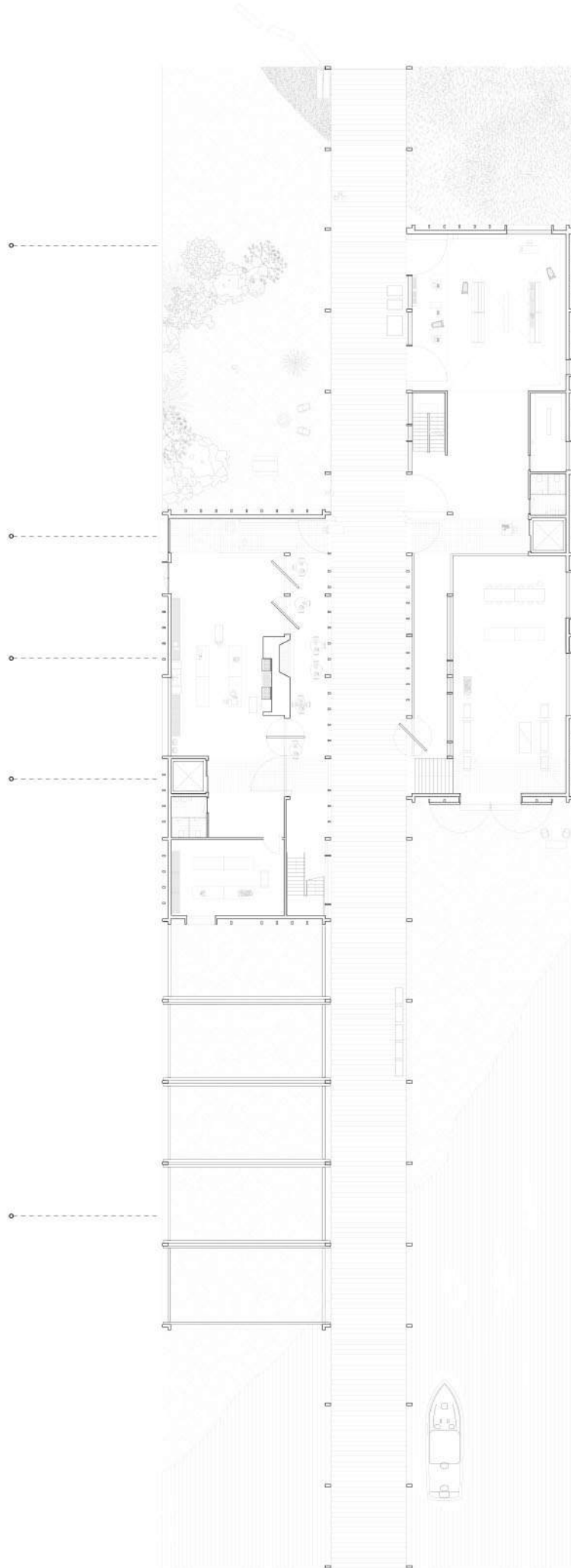
section a-a

section b-b

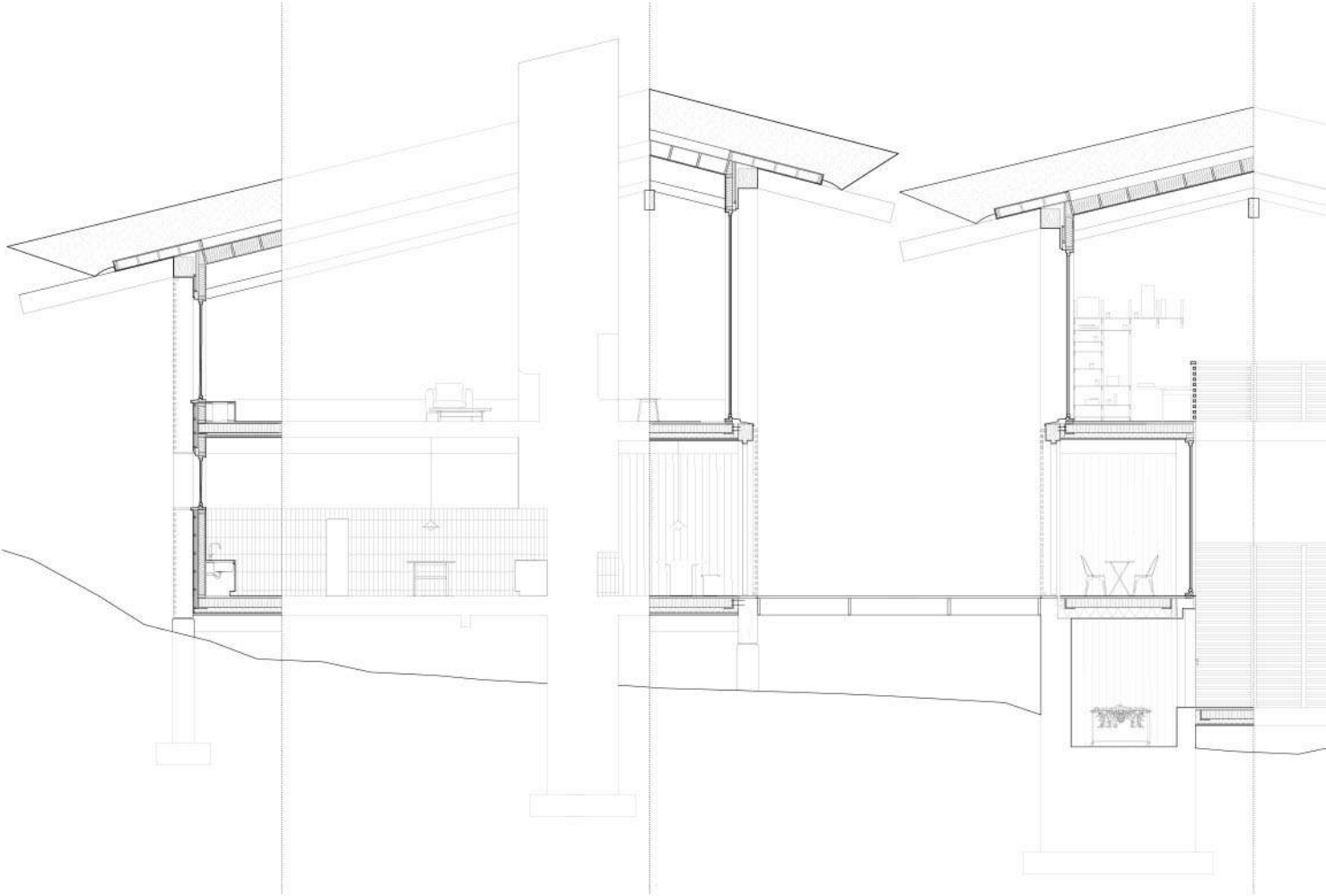
section c-c

section d-d

section e-e

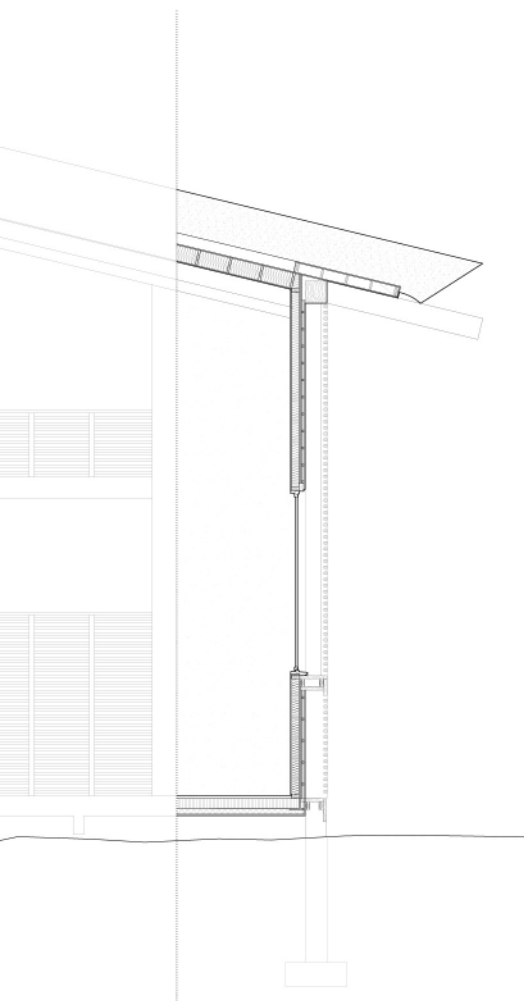
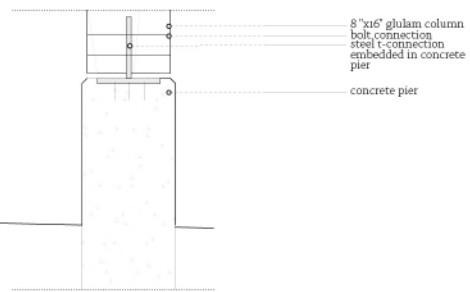
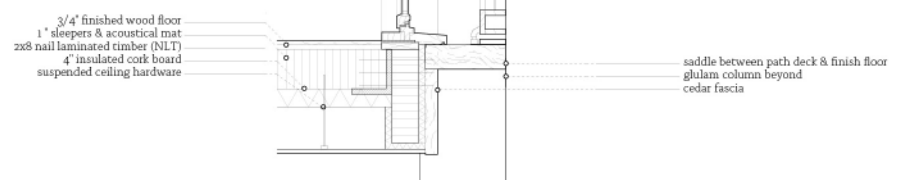
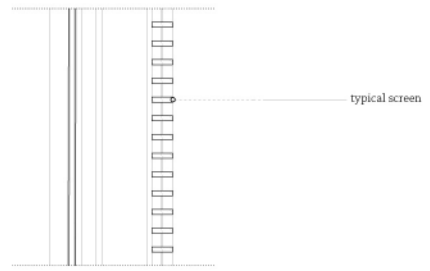
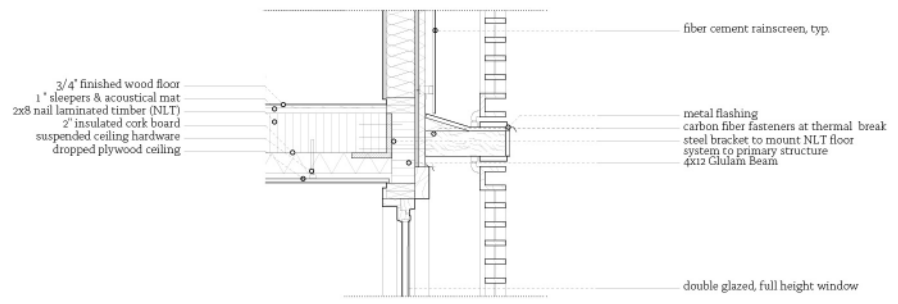
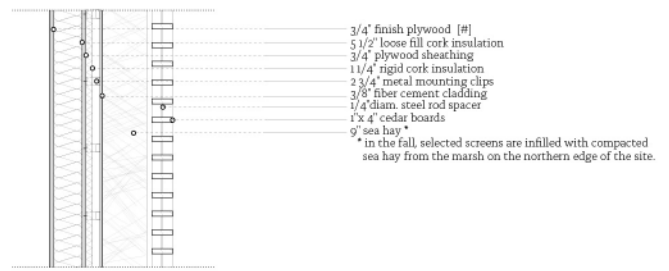
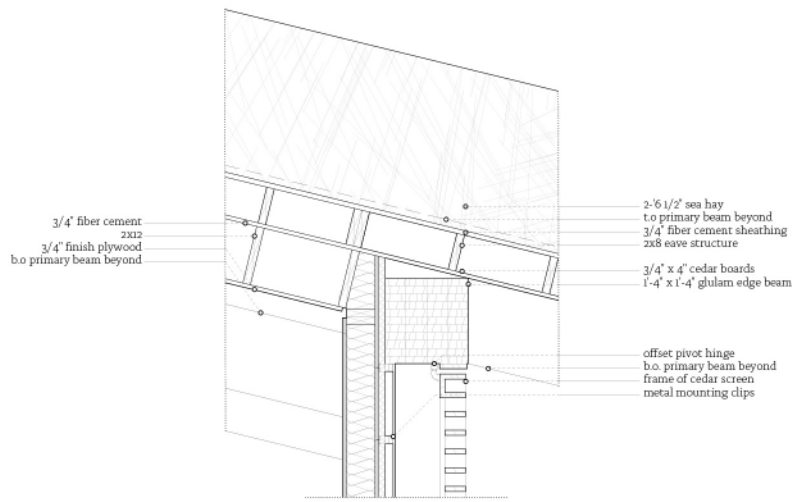


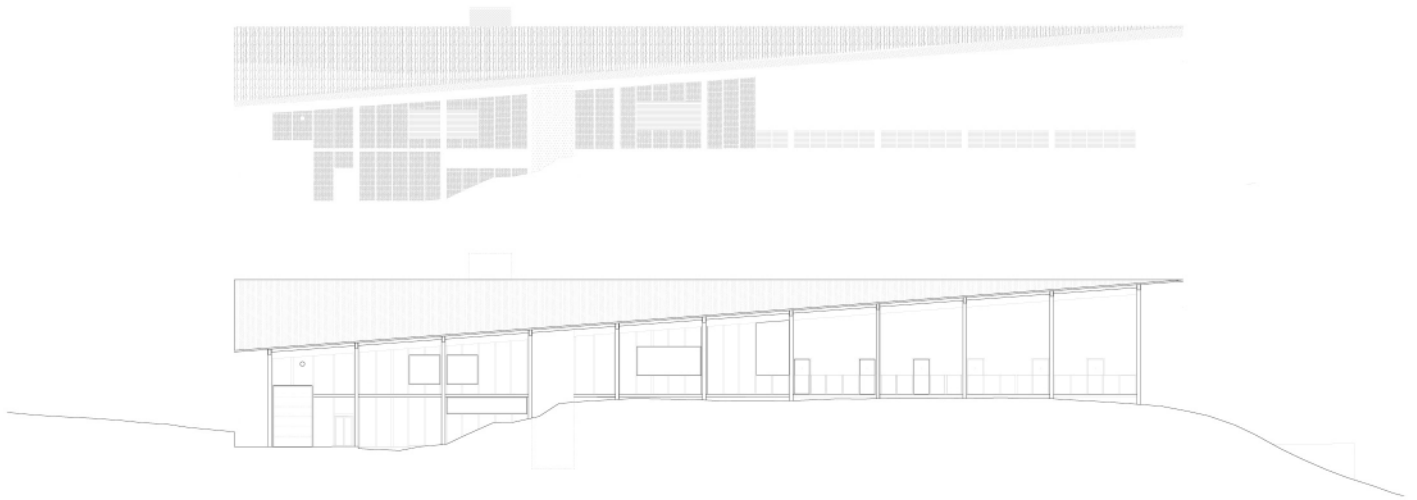
ground floor plan



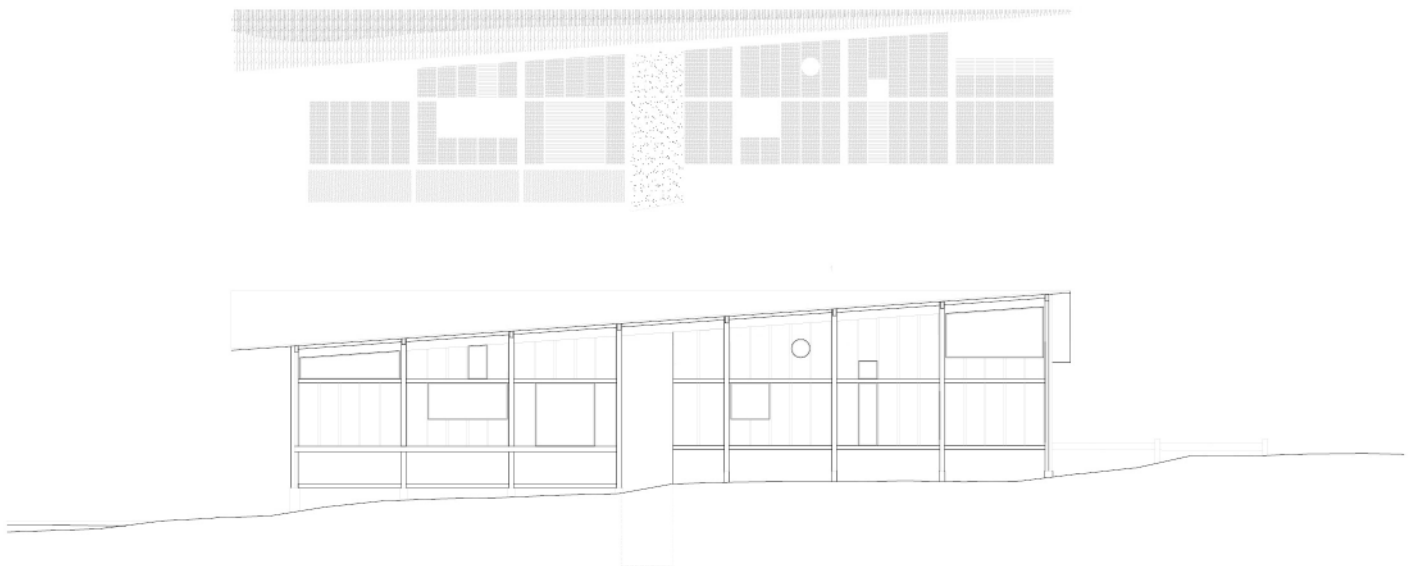
The duality between life and work; production and publicness, as expressed in section. The envelope is designed to "receive" a yearly packing of sea hay as insulation.







western facade, nestled in forested hillside



eastern facade, overlooking cousins river



--o envelope

--o structure

--o aperture



north facade , picture window overlooking marshland | *milled landscape using a 2x6 glue-up;*

--o envelope

--o structure

--o aperture



interior view of cooperative market, opening to path | *hand-crafted structure and envelope*

## 06 COLLECTIVE REPLAY

location: belgrade, serbia

instructor: ana miljacki

project type: collective studio

collaborators:

christopher allen

jenna schnitzler

lauren gideonse

sloan aulgur

susan williams

ina wu

Our REPLAY proposal was introduced through an envelope with a series of loose-leaf handouts. Each envelope contains a character card of a quasi-fictional quality, loosely based on people we met in Belgrade. The network of people contained within is the basis for the culminating portion of this studio, including its architectural proposal.

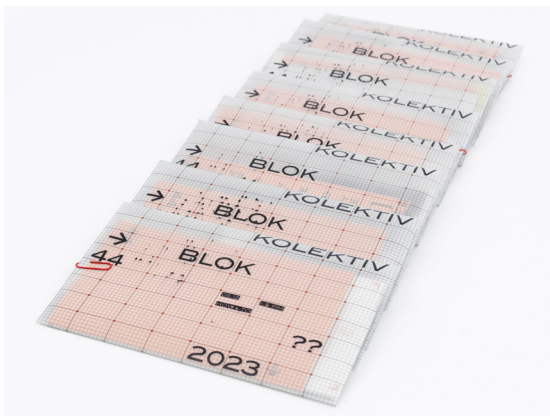
The cards give a character overview along with potential housing needs and social connections between the group. The characters reflect a shared need for affordable housing, community connection and an openness to alternative modes of living.

Together, as a Collective Studio, we envisioned a framework in which the Co-Op exists, strategized choosing of the site, explored modes of living and care, and speculated on how it could all grow in the future.

34



envelope containing "how to" cards for constructing a cooperative housing model



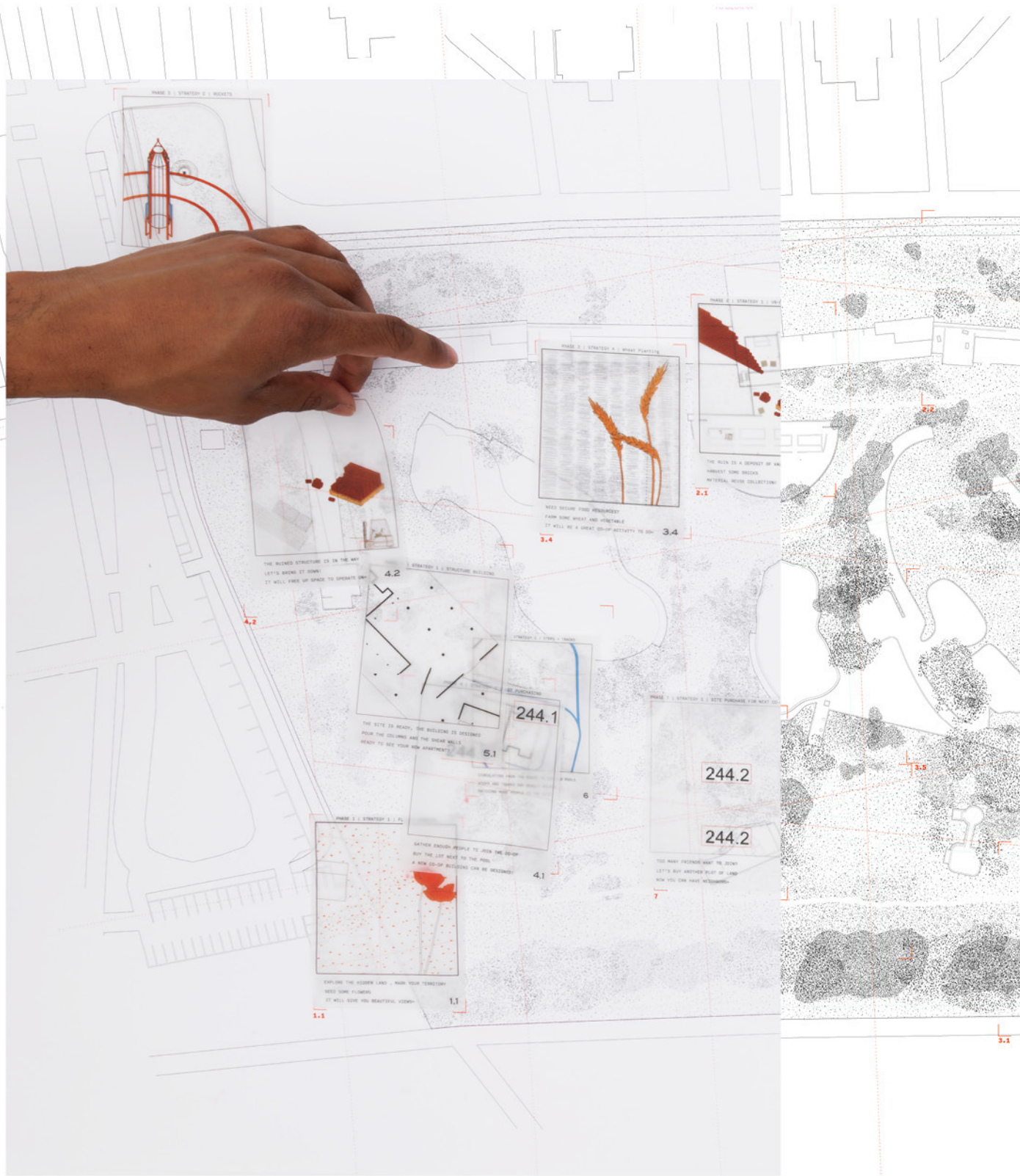
sharing shelf at basketball court



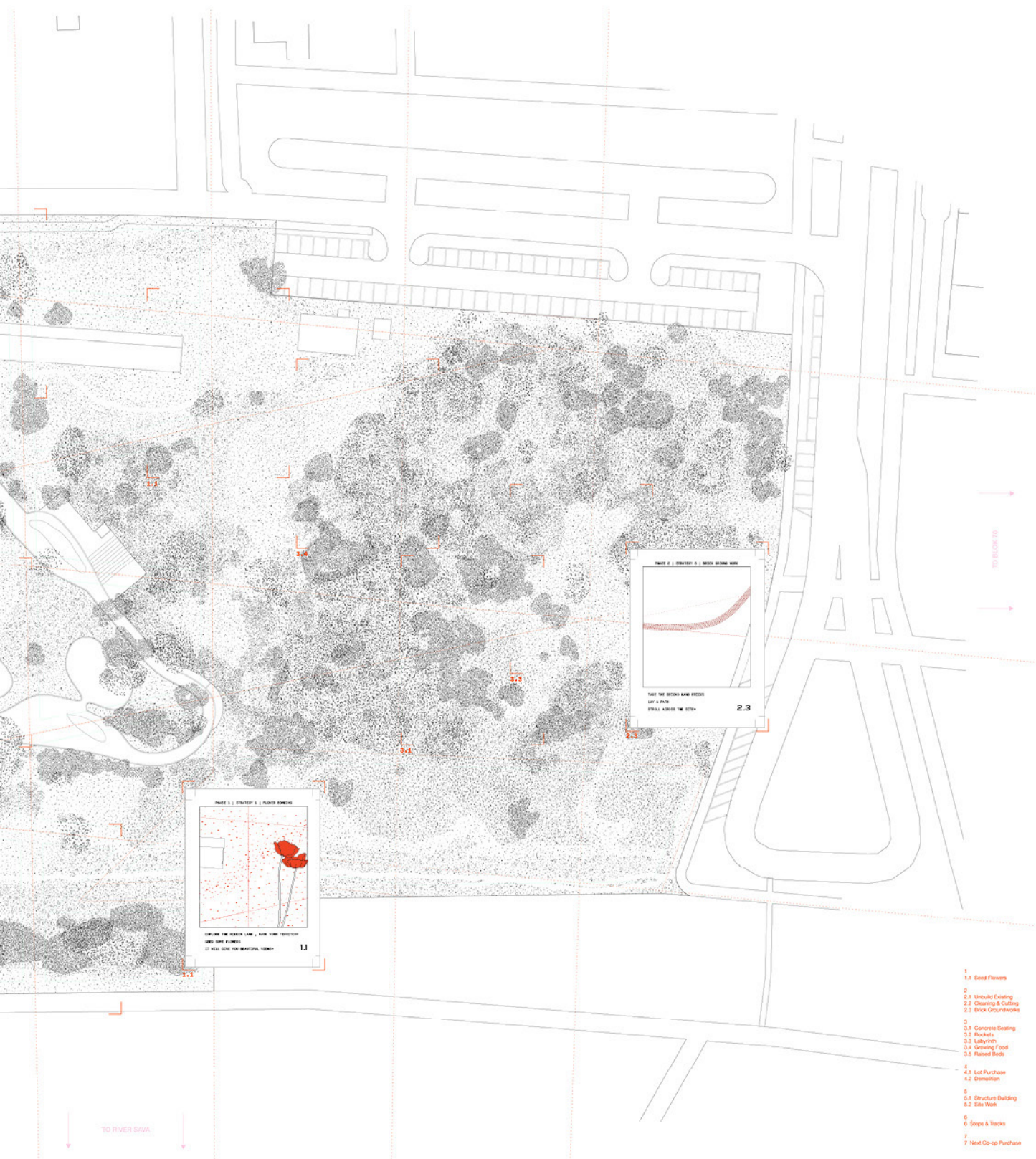


ground floor basketball court and sharing shelf, with upper level terracing





the cooperative model warrants a gradual occupation of the site; the most cost-effective, yet gesturally powerful moves, including flower bombing, the tending of vegetation and overgrowth as signs of care



PHASE 1 | STRATEGY 1 | PLANT SEEDING

BRING THE HEAVEN DOWN - HAVE YOUR FRIENDS  
AND FAMILY PLANT  
SEEDS EVERYWHERE

1.1

PHASE 2 | STRATEGY 4 | ROCKY GRASSWAY

TAKE THE ROCKS AWAY FROM  
LIFE & PAUSE  
PERMANENTLY REMOVE THE ROCKS

2.3

- 1 Seed Flowers
- 1.1 Seed Flowers
- 2
- 2.1 Unbuild Existing
- 2.2 Clearing & Cutting
- 2.3 Brick Groundworks
- 3
- 3.1 Concrete Seating
- 3.2 Rockets
- 3.3 Labyrinth
- 3.4 Growing Food
- 3.5 Raised Beds
- 4
- 4.1 Lot Purchase
- 4.2 Demolition
- 5
- 5.1 Structure Building
- 5.2 Site Work
- 6
- 6 Steps & Tracks
- 7
- 7 Next Coop Purchase

PHASE 3 | STRATEGY 2 | ROCKETS

THE PAST IS MISSING  
LET'S BRING BACK THE PLAY ROCKETS  
KIDS CAN PLAY THE SAME WAY YOU DID BEFORE

3.2

PHASE 3 | STRATEGY 5 | RAISED BEDS

THE POOLS ARE KIND OF EMPTY  
GATHER YOUR FRIENDS AND PLANT!  
A NEW LIFE FOR THE ABANDONED AQUAPARK

3.5

PHASE 3 | STRATEGY 2 | SITE WORK

REUSE THE CONCRETE FORMWORK FROM THE BLOKS  
THE VOLCANO PLANTER IS AN UNIQUE OPTION  
A DISTINCT FEATURE FOR THE NEIGHBORHOOD

5.2







neighborhood 1

neighborhood 2

Djuro

A widower of many years, Djuro has been living with his daughter and her family. They are moving out of the country for a period, but don't want to leave him alone. He likes being around people, particularly children as he misses his family. He remembers the best parts of life in Yugoslavia and is interested in this experiment.



Jelica

Jelica is an architect and academic with a particular focus on the preservation of New Belgrade buildings. She is well connected both within Belgrade and in the cultural circles. She is very busy and rarely home. She wants a simple apartment, low responsibilities, but with access to nice spaces for working and occasional gathering.



Miroslav

Miroslav and his wife are both very handy and looking for an opportunity to start a small business that takes advantage of their skills. They recently sold a company and have some extra capital that they would be looking to invest in a community. They have an adult child who visits frequently that they need to be able to host.



- 01 bedroom
- 02 living room
- 03 kitchen
- 04 bathroom
- 05 balcony
- 06 common laundry
- 07 common living room
- 08 shared study
- 09 common kitchen
- 10 shared balcony
- 11 shared bicycle parking

neighborhood 3

neighborhood 4





kitchen "thick wall:" interface for sharing resources



outdoor lounge area



view across interior: private study to shared living room



shared living room to terrace



## 07 COMMONING DEVICES

location: belgrade, serbia

instructor: ana miljacki

project type: collective studio

collaborators:

christopher allen

jenna schnitzler

lauren gideonse

sloan aulgur

susan williams

ina wu

Our "Commoning Devices" made in conversation with Yugoslav New Art Practices and their ways of addressing self-management were first introduced to the public at Kolektiv Gallery in Belgrade, Serbia. They are meant as devices that instigate relationships, conversations, and may render joyful some forms of codependency.



balance board



seesaw to bench transformation



as exhibited at kolektiv gallery, belgrade, serbia



wobble-spinner



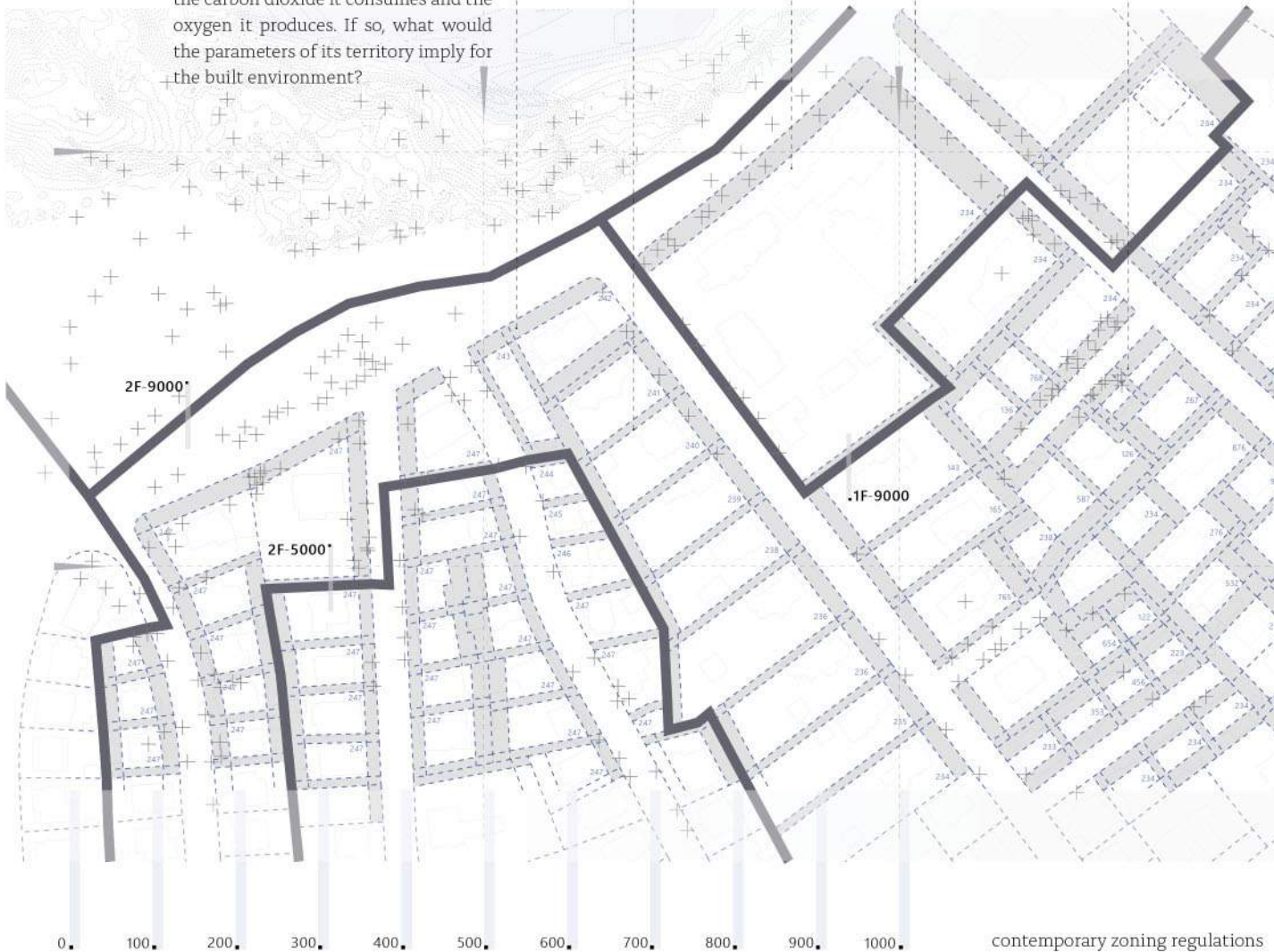
see-saw

location: boston, ma  
 instructor: brandon clifford  
 mohamad nahle  
 project type: mit core  
 year 01

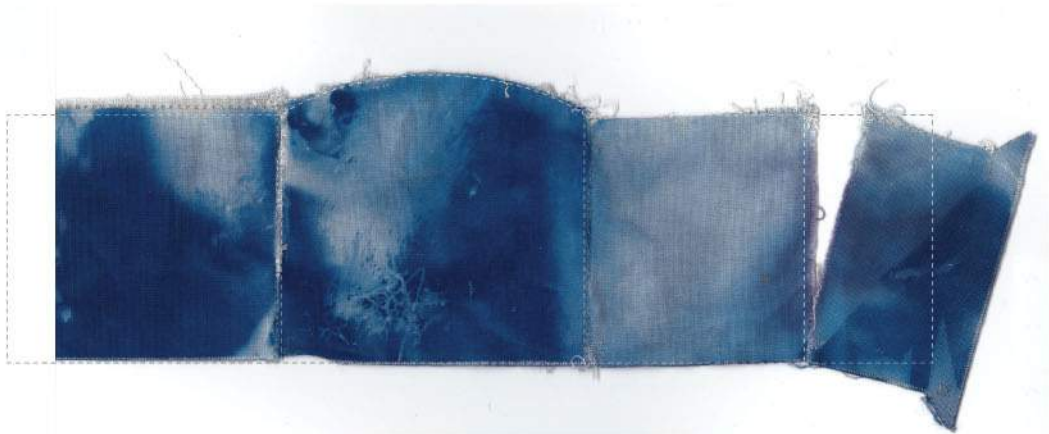
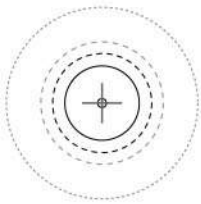
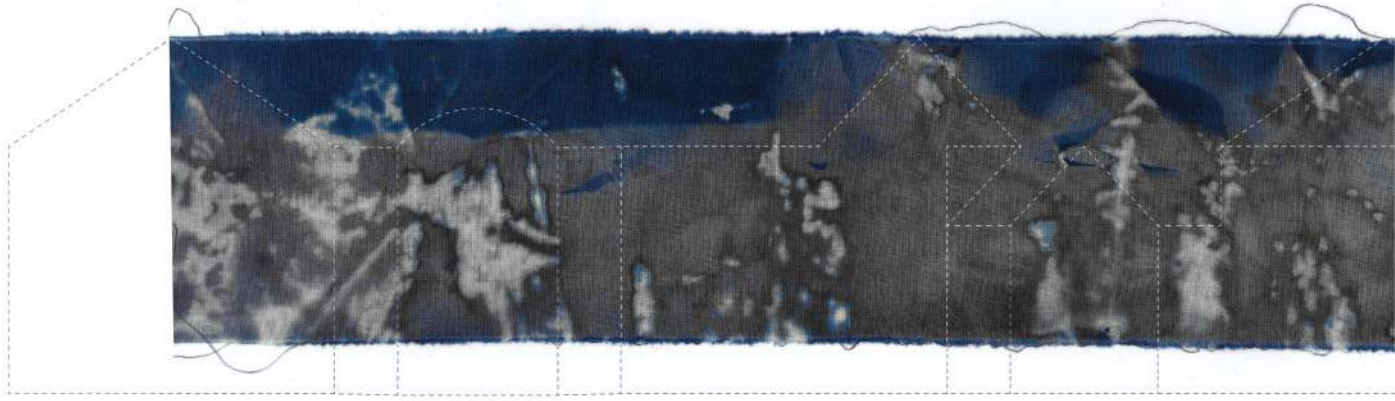
The built environment is peppered with devices, which filter the world so as to make it appear whole or uninterrupted. Spanning from the picturesque to Ultra Clear Glass to Green Machine eco-fantasies, humankind continuously invents mens through which to own landscape. If modernism was about the "solarization" of space – at an architectural and urban scale – and through it, the daylighting of industrialization's stranded assets, the contemporary is about vegetation. Vegetation elevated as the alleviation of urban toxicity. Yet, what if one considers a different relationship to the non-human?

"The Three That Owns Itself" – an oak tree in Athens, Georgia was given "personal" and territorial legal ownership of the land it sits on. What if one extended legal ownership to all trees? If a tree owned not only the land on which it sits, but the land ascribed to all the ways it occupies space – its root system, height, canopy and shadow; the carbon dioxide it consumes and the oxygen it produces. If so, what would the parameters of its territory imply for the built environment?

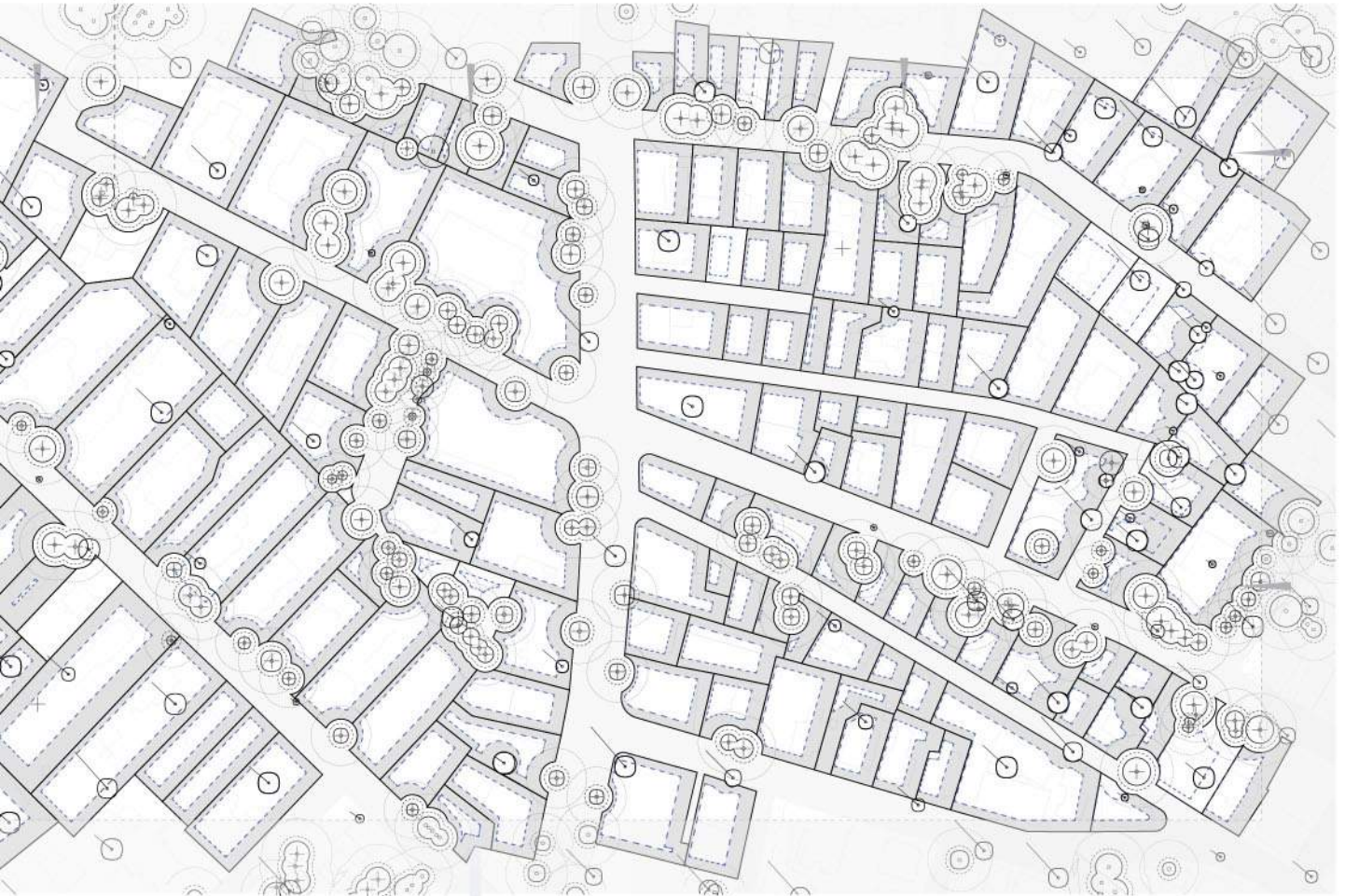
yard setback building footprint buildable area zoning district boundary tree, as data point





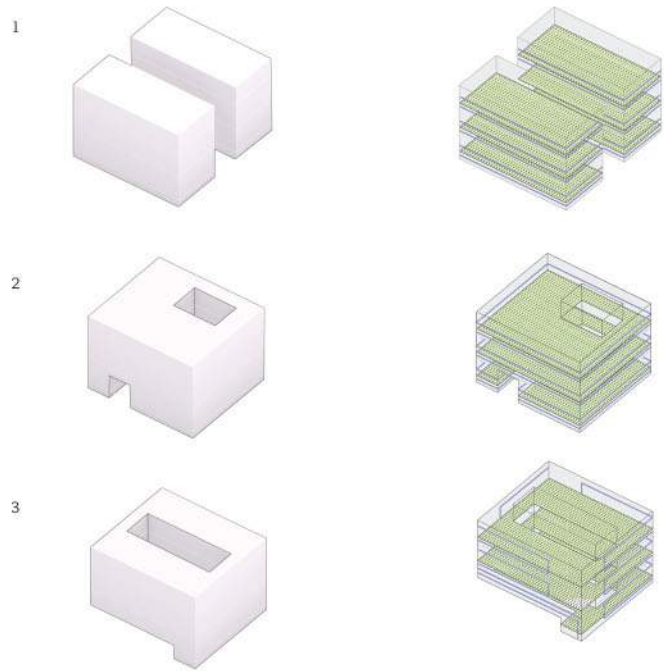


tree, as territorial entity "blueprints" for unbuilding | cyanotype on fabric; sun exposure over neighborhood home with tree shadows reflected in white



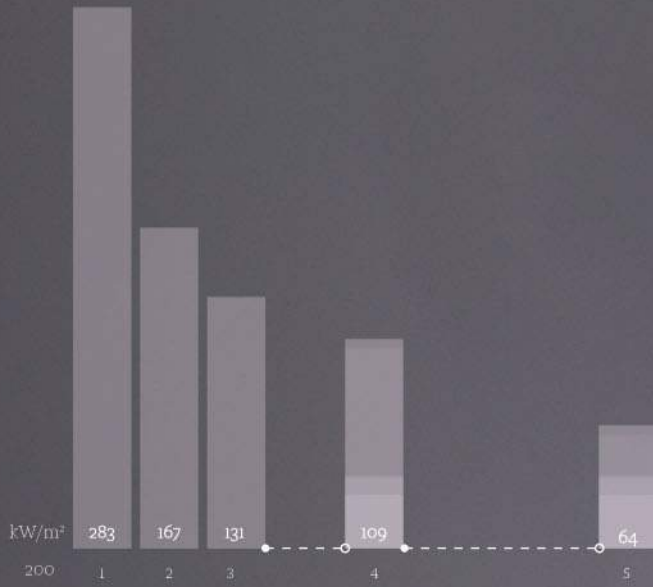
location: boston, ma  
 instructor: christoph reinhart  
 project type: mit building tech.  
 year 01  
 collaborators: tj bayowa

An experimental school in Boston, this building imagines the circulation as a continuously ramping surface along the perimeter of the building. Conceptually wrapping the building, the circulation serves both to center play, and to devise an alternative trombe wall. A space where heat is generated through movement is pushed to the exterior as a way to reduce internal energy loads.



sDA, ASE, and Average Lux per floor plate





#### EUI OPTIMIZATION :

We proceeded to isolate each of the available modifications, in order to determine which carried the biggest weight towards reducing the EUI, and what combination might prove to be most optimal. The most significant reductions from the baseline EUI occurred when we added an ERV with an economizer and a limited flow rate. The near half reduction in heating occurred when the ERV was paired with a heat pump.

1 BASELINE EUI

2 OFFICE EUI

3 K-12 EUI

4 ERV, COP 0.97 EUI

5 ERV, COP 3 EUI





location: boston, ma  
instructor: cristina parreno  
project type: mit core 02,  
m.arch year 01  
collaborators: charles janson,  
sloan aulgur

The processional paradigm of The Strand Theater takes on that of a proscenium-style theater. A compact, yet rich facade, feeds the public through an elongated and compressed entry sequence.

This model studies this relationship by rendering the entry sequence in light-gauge metal. The otherwise thick, dense and convoluted space is rendered planar, and easily removable in service of an alternative proposition.

A routed bah-relief of the stage beyond became the backdrop to the swapping "processional paradigmes."





*representational model, 1:100 | using a split wood with fungal overgrowth to CNC existing theater*

location: boston, ma  
instructor: j. jih  
project type: mit geometric  
disciplines  
year 01

The following hyperbolic paraboloid – an infinitely double ruled surface in three dimensions – defines the basis for the development of a series of construction maquettes in pursuit of a novel form of casting at an architectural scale. I was interested in producing an indexical form of casting, one which simultaneously inscribes an underlying geometry and a method of production. Taking on concrete's malleability, I transformed the formwork classically deployed to imprint surface texture. The object seeks to reveal material qualities, which could be misread for those of other materials. Perhaps the most compelling qualities of these iterations was the dichotomy between the resolution present in the process – the result of precise parts, orchestrated and sequenced with care – and that of the outcome; the dichotomy between definition and translation. Each component and its method of production embed an 'offset' from the qualities of the digital model, allowing the final object to disassociate from its digital form, yet apprehend tectonic qualities through its coming into being.







casting bed



charred surface



square discretization | cast in woodchip, burnt surface



shingled surface

intersecting square discretization, cast, surface b



tiled surface

square discretization, cast, surface a

01	<b>FROM STAGE TO STRUCTURE</b>	2022
02	<b>DEGREES OF NEGOTIABILITY</b>	2018
03	<b>DESIGNING FOR NEGOTIABILITY</b>	2018
04	<b>ATLAS OF EROSIVE POTENTIALITIES</b>	2019
05	<b>ONE EVEN KEEL</b>	2013
06	<b>COLLECTIVE REPLAY</b>	2023
07	<b>COMMONING DEVICES</b>	2023
08	<b>UNBUILDING TERRITORY</b>	2021
09	<b>ENVIRONMENTAL TECHNOLOGY</b>	2021
10	<b>PROFESSIONAL PARADIGMES</b>	2022
11	<b>TECTONIC MEMORY</b>	2021

**MARA V DIAVOLOVA**

WORK SAMPLE 2023 MIT SA+P