

The following is a collection of selected works completed at Columbia GSAPP.

The work as a collective begins an investigation into the movement of land, people and time.

Movement is not only defined by a physical journey, but a temporal one.

Each project reflects on a greater understanding that our built world must respond to ongoing dialogues between community needs and environmental requirements.

Portfolio 2024

Lucy Baird

M.Arch, Columbia University, 2024
Graduate School of Architecture, Planning
and Preservation

H B.Arts, University of Toronto, 2021
John. H Daniels Faculty of Architecture
Landscape and Design

(917) 704- 8420
lucymbaird@gmail.com

BOOK.pdf

Portfolio 2024
Lucy Baird | M.Arch

BOOK.pdf

Contents

Re-Connection..... 04

A School 16

Migrant Housing..... 32

A Boat..... 50

City \ Park..... 62

In Tension: Knots, Ropes, Memories and Practice 82

References..... 114

Re-Connection

Core I Studio

GSAPP - Columbia University

Fall - 2021

Led by Professor Amina Blacksher

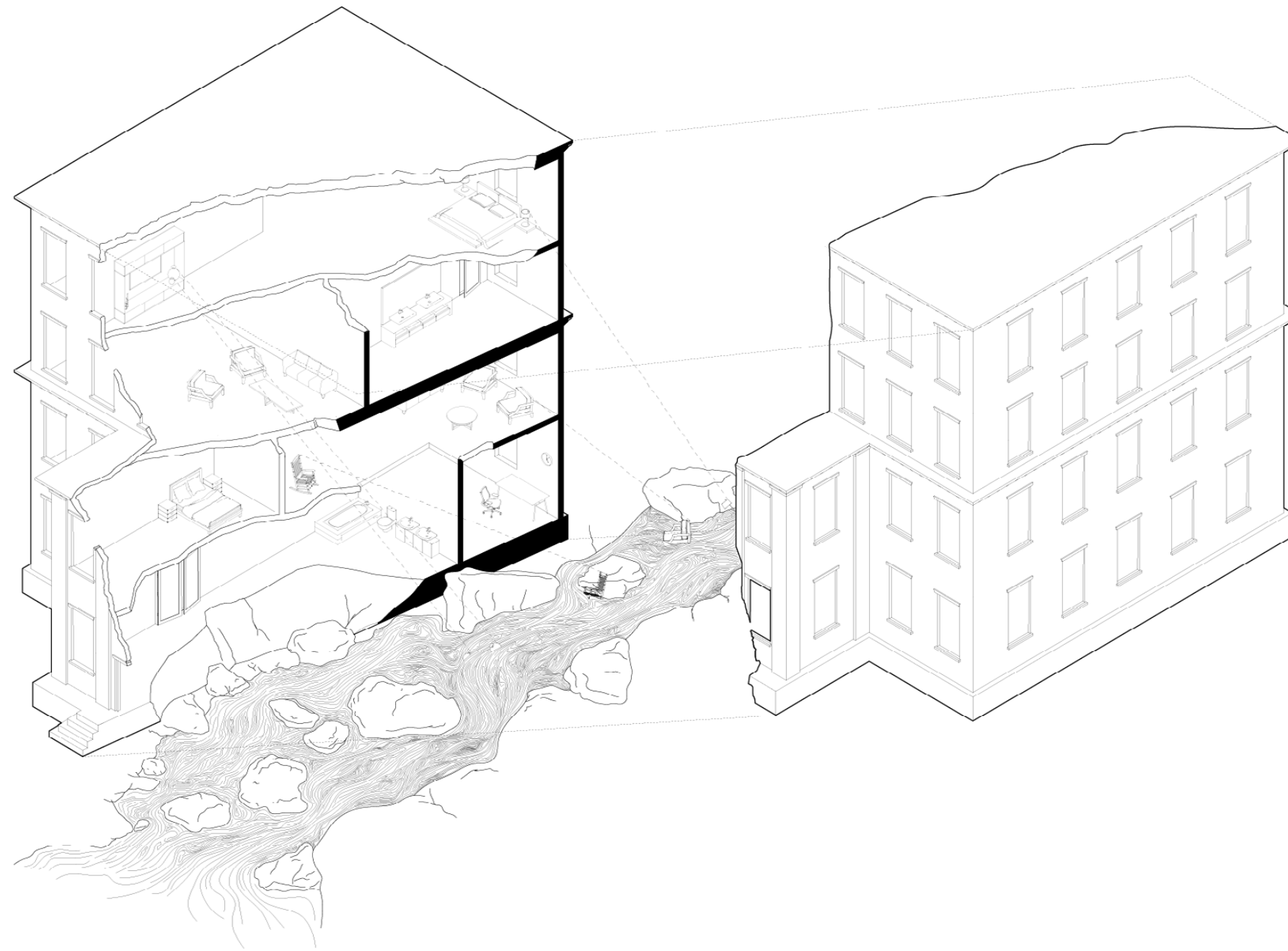
40° 43' 47.28" N 72° 03.78" W

Rooted in the ground, this public space intervention aims at breaking the existing urban typology to reveal the hidden natural resources lying underneath the surface. Re-connecting the existing community to its host.

An underground public space, located at 103 MacDougal Street, unites the ground conditions and connects the past and present axis of MacDougal and Minetta Street.

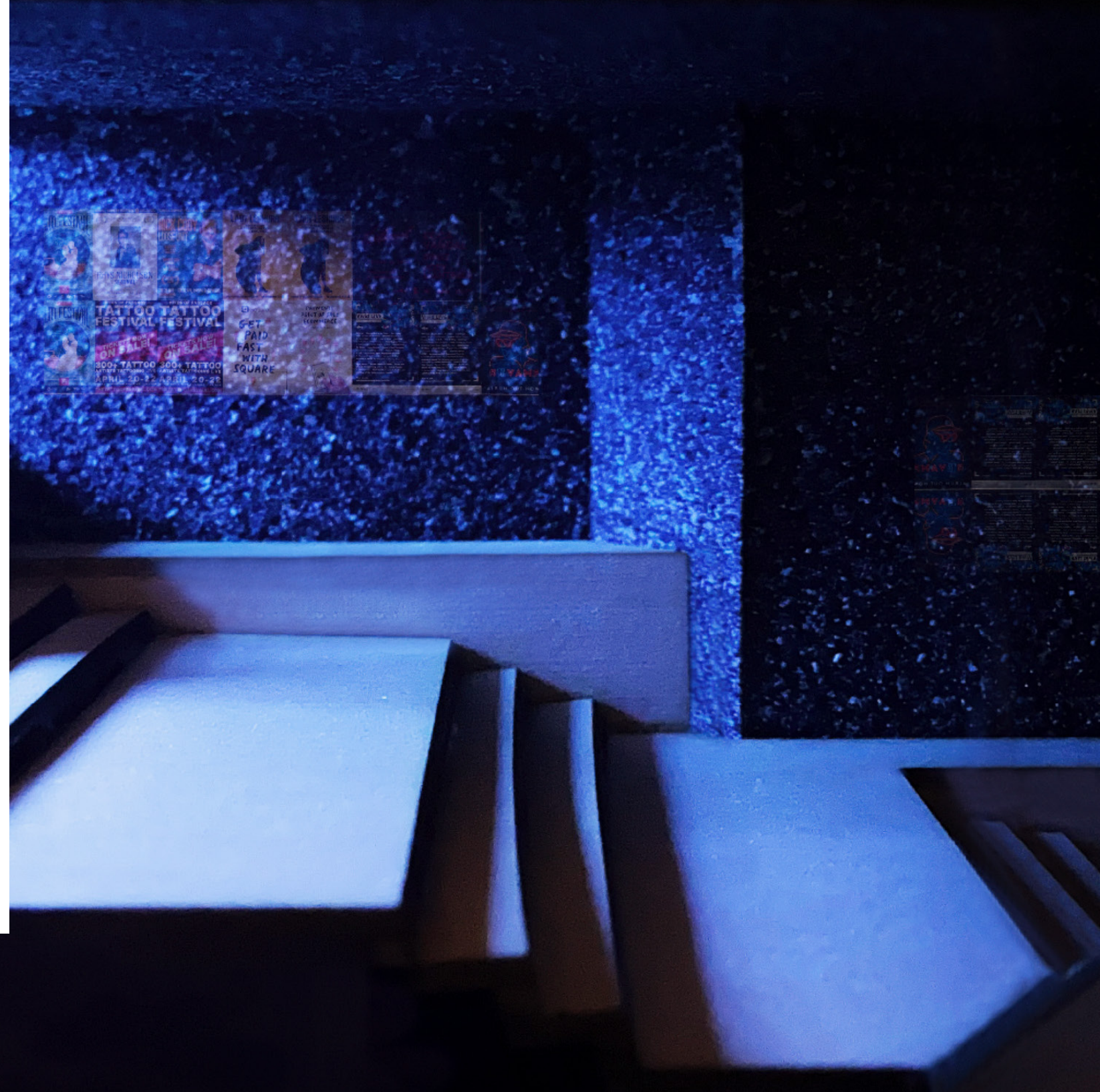
The existing site's underground history is critical to the project. Minetta Street contradicts the grid system of the surrounding streets, hinting at the subterranean creek in which it mimics. Minetta Creek can be seen as the thoroughfare of its time, connecting the Land of the Blacks to New Amsterdam. Since the Land of the Blacks, the ground has been used as a resource for economic capital, with hierarchies of power and community layering upon one another. This project aims at subverting this notion, using the ground as a resource of knowledge, wisdom and reflection.

Going into the ground and engaging with the past, rendering it to the present.





Site Map





MacDougal Street

Street Conditions

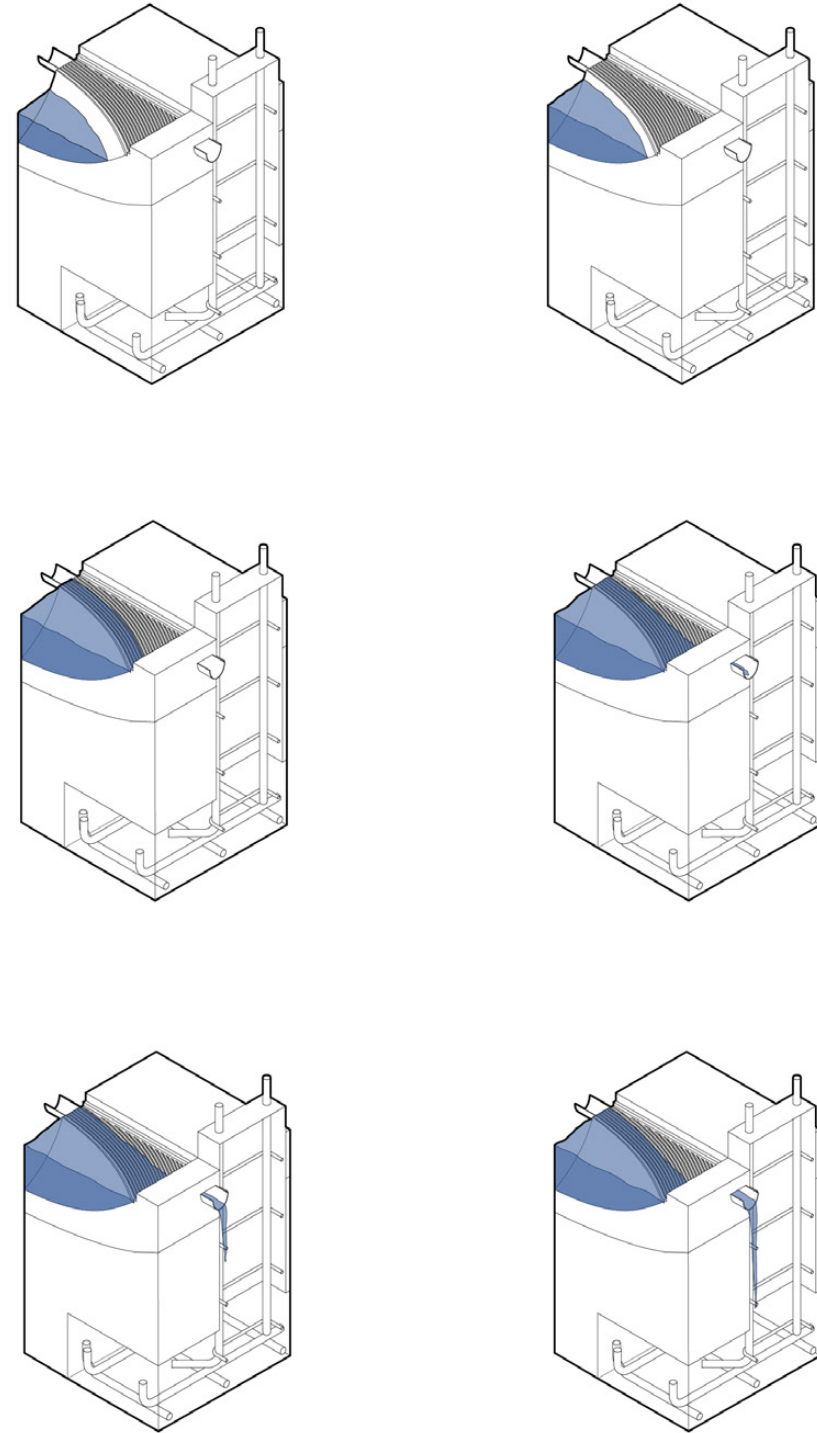
Life that inhabits the two streets framing 103 MacDougal Street vary greatly.

MacDougal Street today is occupied by various groups throughout the day. With restaurants and coffee shops using outdoor seating that spills out activity into the street, as well as many tourists visiting the popular area and students from the nearby college, New York University. At night, the street is a loud and active site for nightlife, including comedy shows and bars.

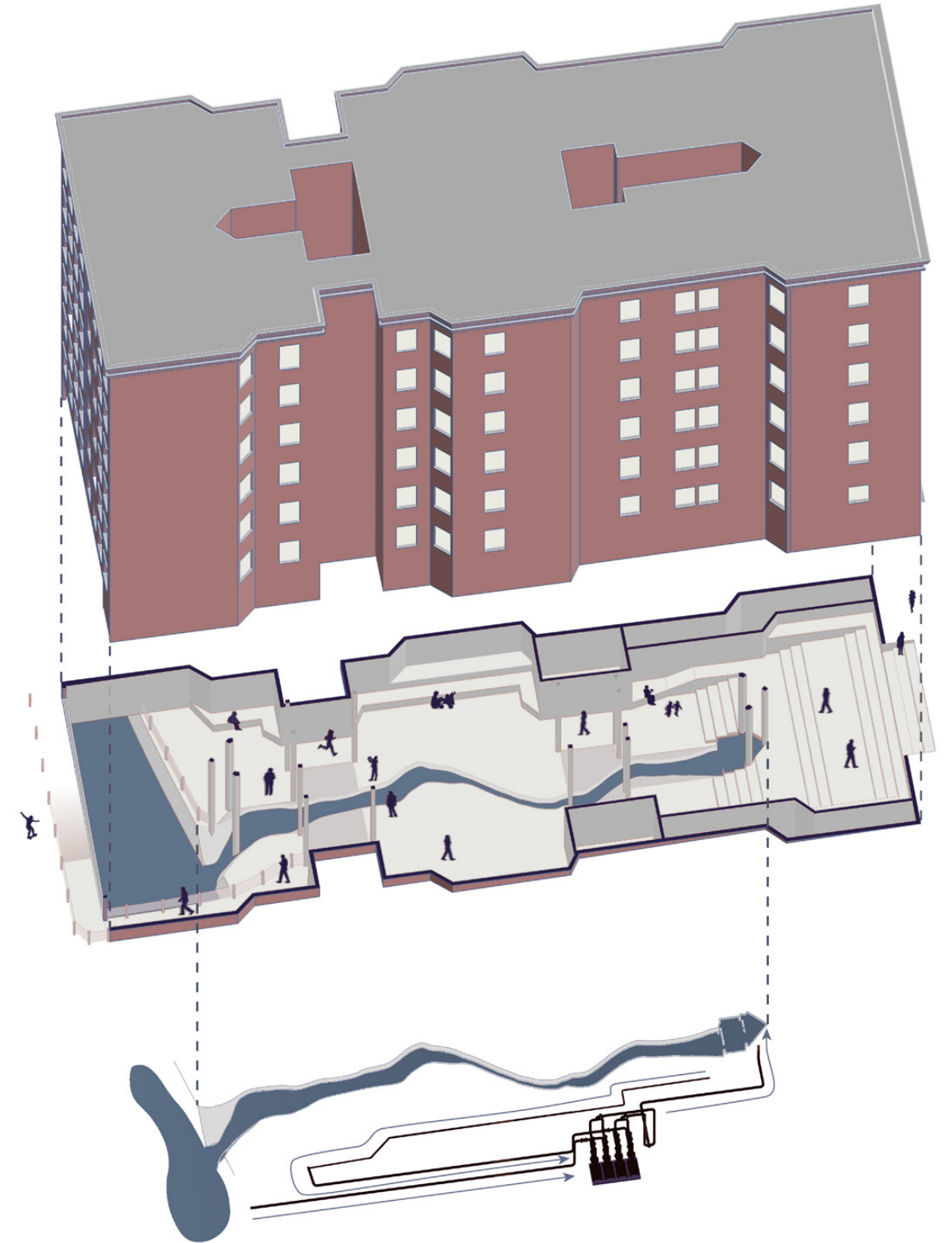
Minetta Street, one of few winding streets that contradicts the grid form of the street planning, following what once was a path along Minetta creek. This waterway served a number of functions throughout history. A place for fishing and navigation used by the Indigenous population. In the 17th century, the creek served as a means of connection between New Amsterdam and Little Africa which consisted of farmland owned by a community of half-free, formerly enslaved African-Americans. It was eventually filled in and paved over in the 19th century. Datums of history layer upon one another into what we see today, a quiet and otherwise unused street.



Minetta Street



Water Circulation



Exploded Axonometric



Section



Lucy Baird



Core II - A School

A School

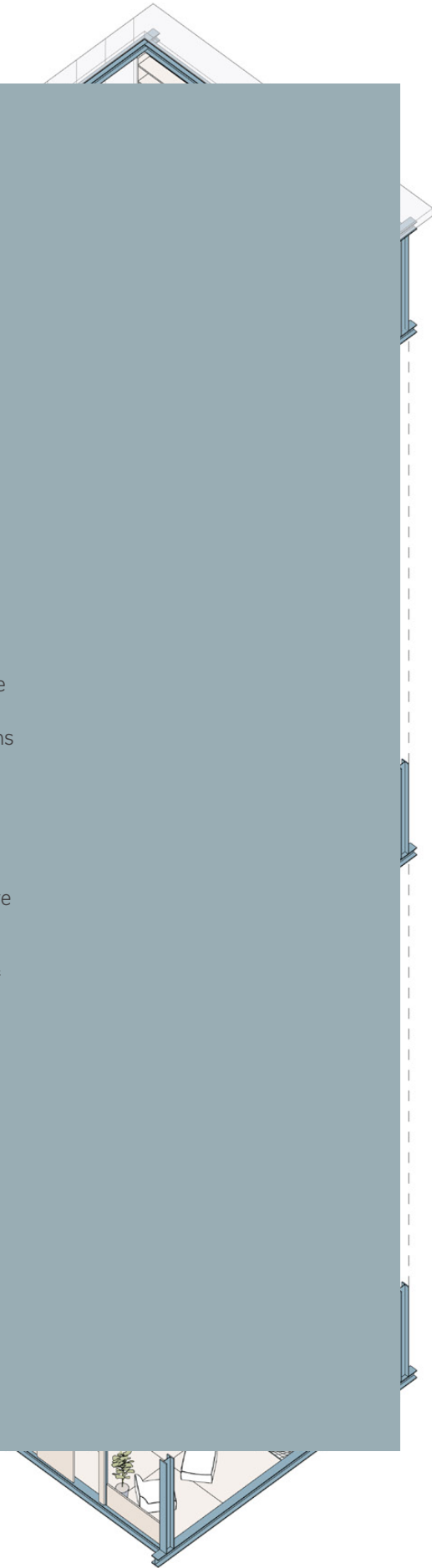
Core II Studio
GSAPP - Columbia University
Spring - 2022
Led by Professor Carlyle Fraser

40° 44' 30.822" N 73° 59' 21.508" W

Childhood education is a process, one that requires the promotion of curiosity, independence, collaboration and agency within the child.

Located in the Lower East Side of Manhattan, this school looks to the surrounding urban fabric and its history of inhabiting and transforming the streetscape to inform the formal occupation of space. The organizing logic behind the school stems from a singular module, once repeated begins to systematically create interstitial spaces and alleyways and is considered across a variety of scales.

Reframing the alley within this new narrative redefines the pedagogical experience to promote agency, collaboration and self-direction, while providing moments of relief and concentrated learning.



The larger site has been occupied, traversed, and transformed by various communities and societies. This process of translation and transformation has shaped the site and its occupants into what we see today.

The Wickquasgeck Trail

The main route used by Indigenous peoples. The path goes south from Chatham square, roughly following what we know today as Park Row to City Hall and north up Bowery.

The Dutch West India Company

Allocated land for a fort and farms along the Wickquasgeck Trail. In 1787, a narrow lane on the farm was widened and became what we know today as Stuyvesant Street.

The Slaughterhouse

Built by the collect pond and used as a dumping site. Disdain towards the area for the scent and prominence of diseases remained, and was thus became home to much of the poorer population.

The "EL"

An elevated train built along Bowery Street. leading to noise and air pollution, prompting property values to fall and shops to move. The 'El' was demolished in 1958.

Sarah Delano Roosevelt Park

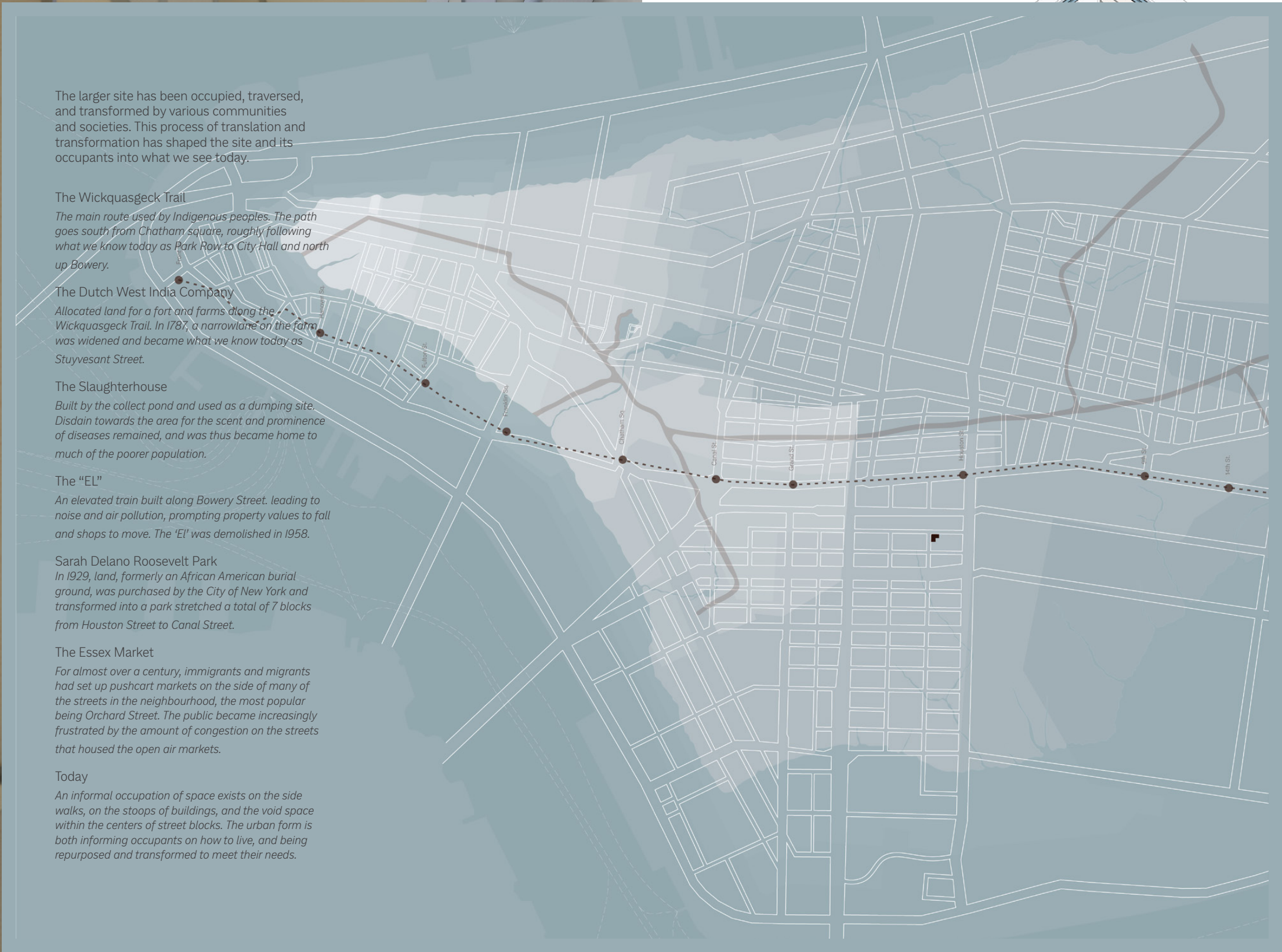
In 1929, land, formerly an African American burial ground, was purchased by the City of New York and transformed into a park stretched a total of 7 blocks from Houston Street to Canal Street.

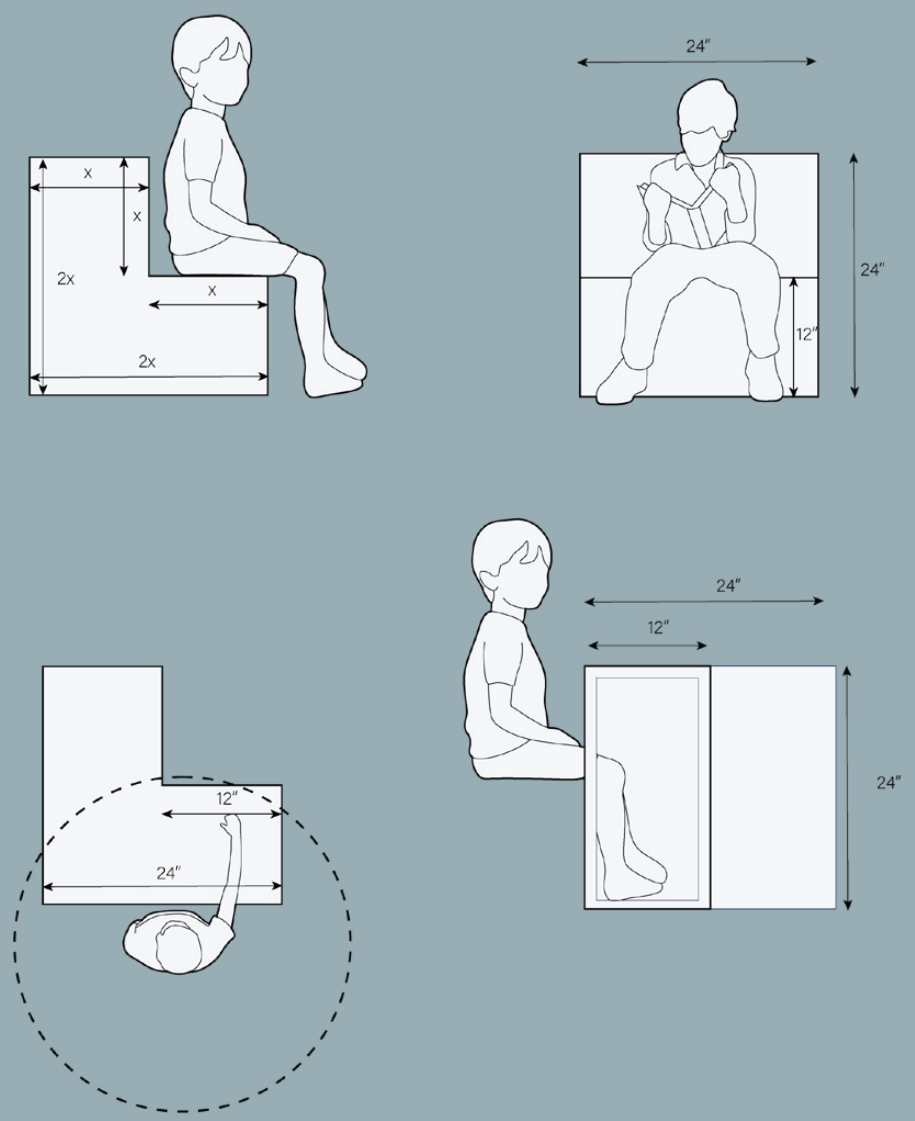
The Essex Market

For almost over a century, immigrants and migrants had set up pushcart markets on the side of many of the streets in the neighbourhood, the most popular being Orchard Street. The public became increasingly frustrated by the amount of congestion on the streets that housed the open air markets.

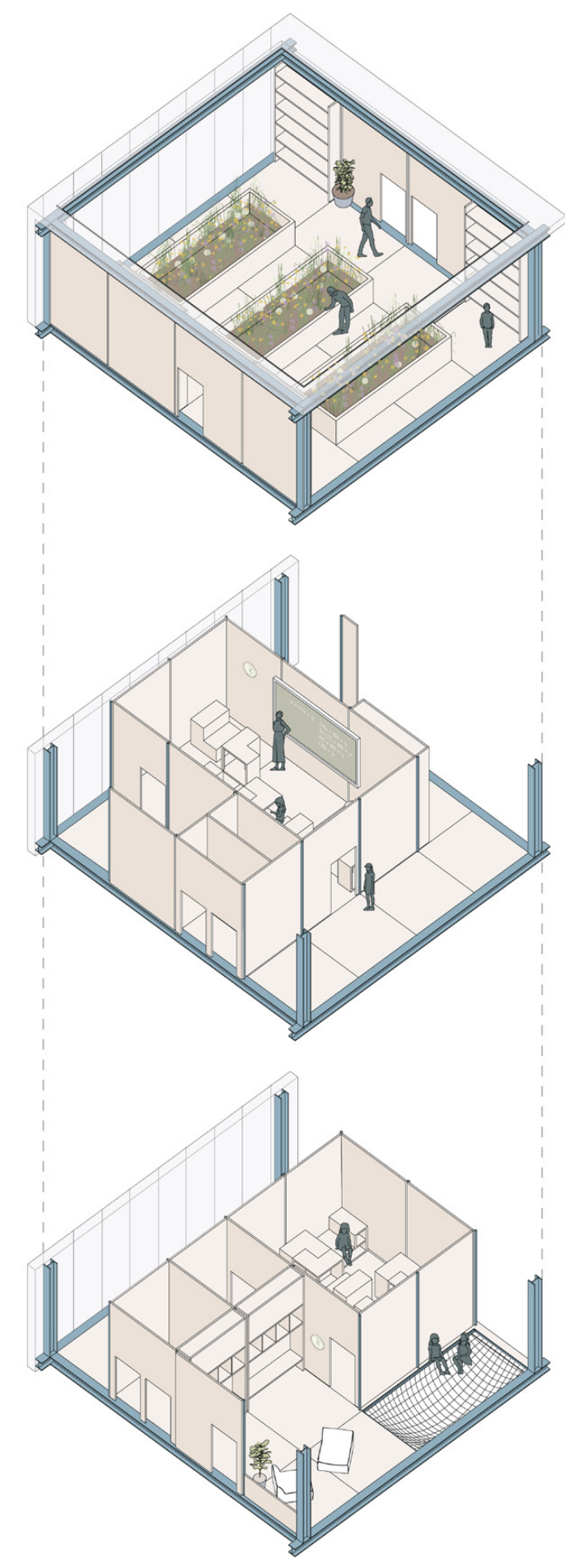
Today

An informal occupation of space exists on the side walks, on the stoops of buildings, and the void space within the centers of street blocks. The urban form is both informing occupants on how to live, and being repurposed and transformed to meet their needs.





The repeated module used to systematically create the interstitial spaces that drive the interior street of the building are considered at a smaller scale, looking to the size of a child to create multi-purpose furniture that can be combined to create new spaces for children to engage with.





Top Left Ground Floor Plan

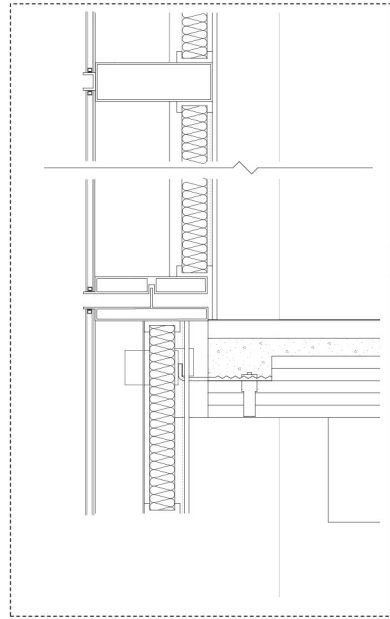
Top Right Floor Plan 2 - 4

Circulation is repurposed as a space for learning. Expanded to allow for new forms of occupation. Classroom are centered within the building, providing known spaces for concentrated learning. Moments of reprieve form around corners and jut out over double height spaces, creating moments of connection and solitude.

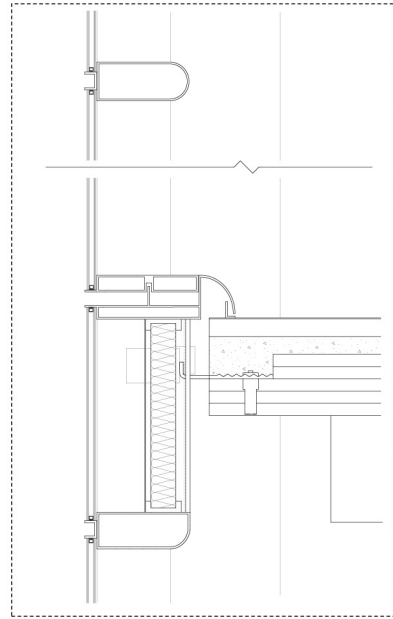


Left Below Grade Floor Plan

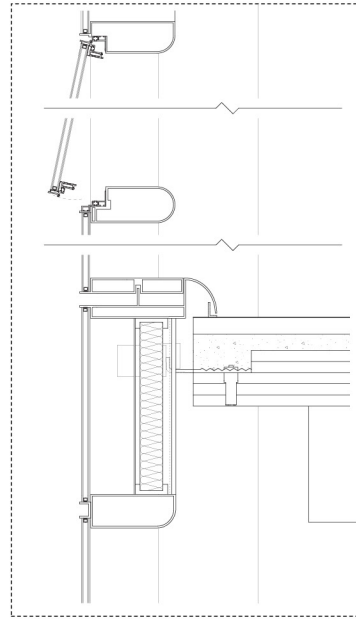
Above Below Grade 2 Floor Plan



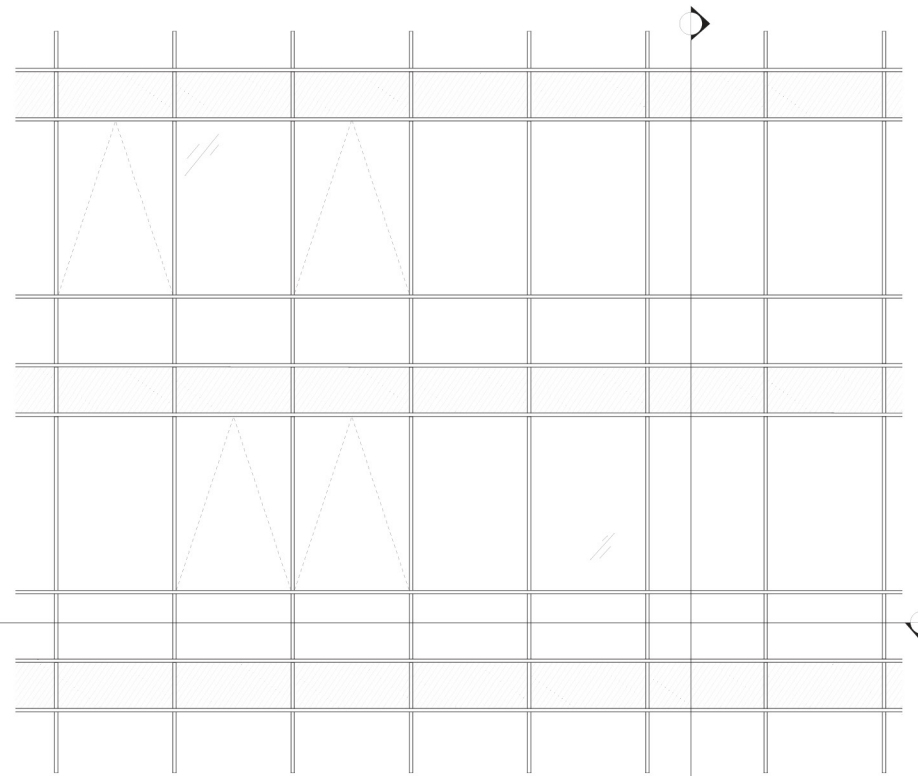
Insulated Opaque Wall Detail Section



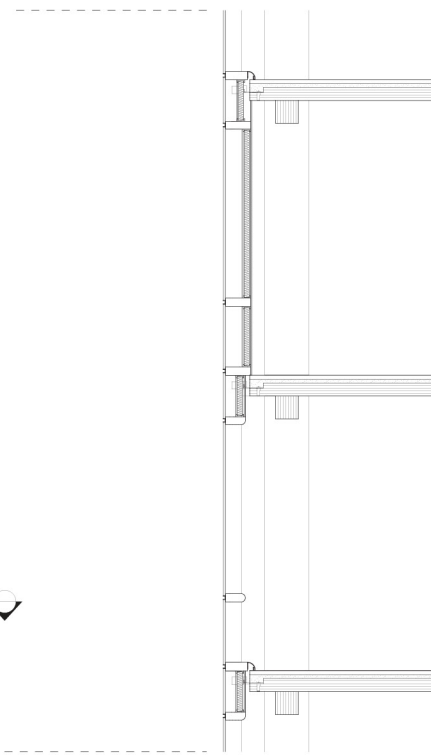
Typical Wall Detail Section



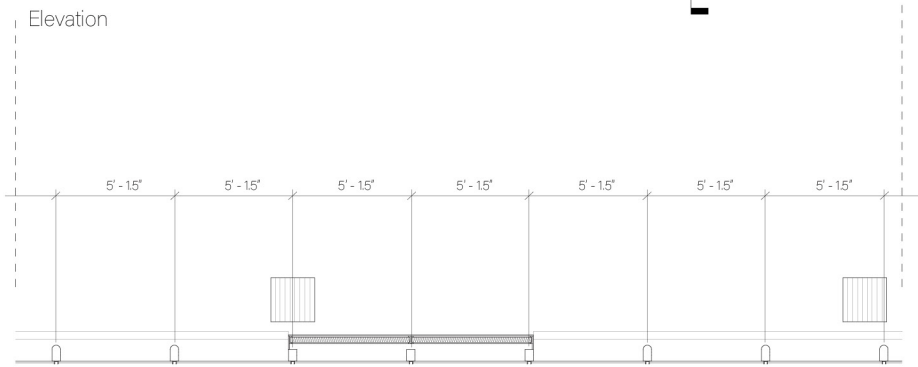
Operable Window Detail Section



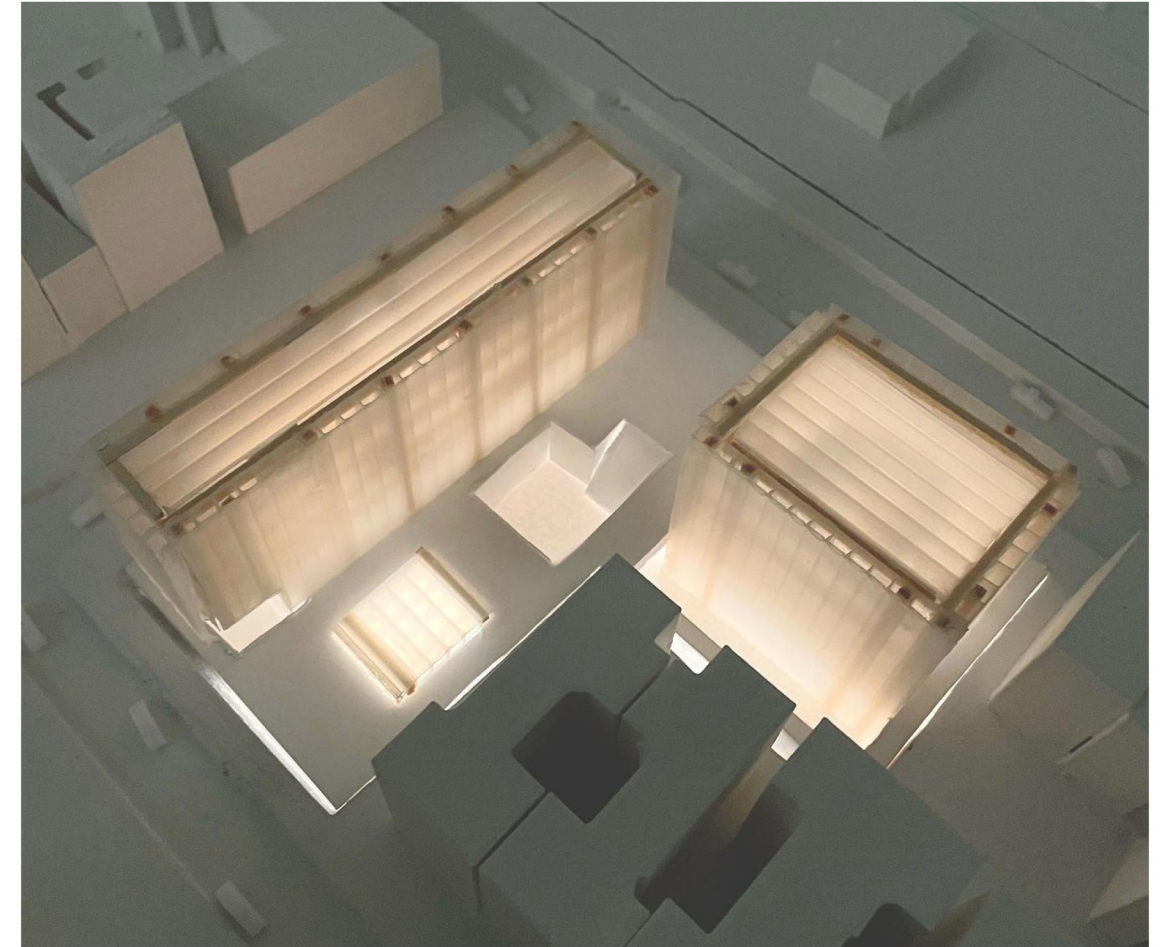
Elevation



Section

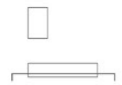
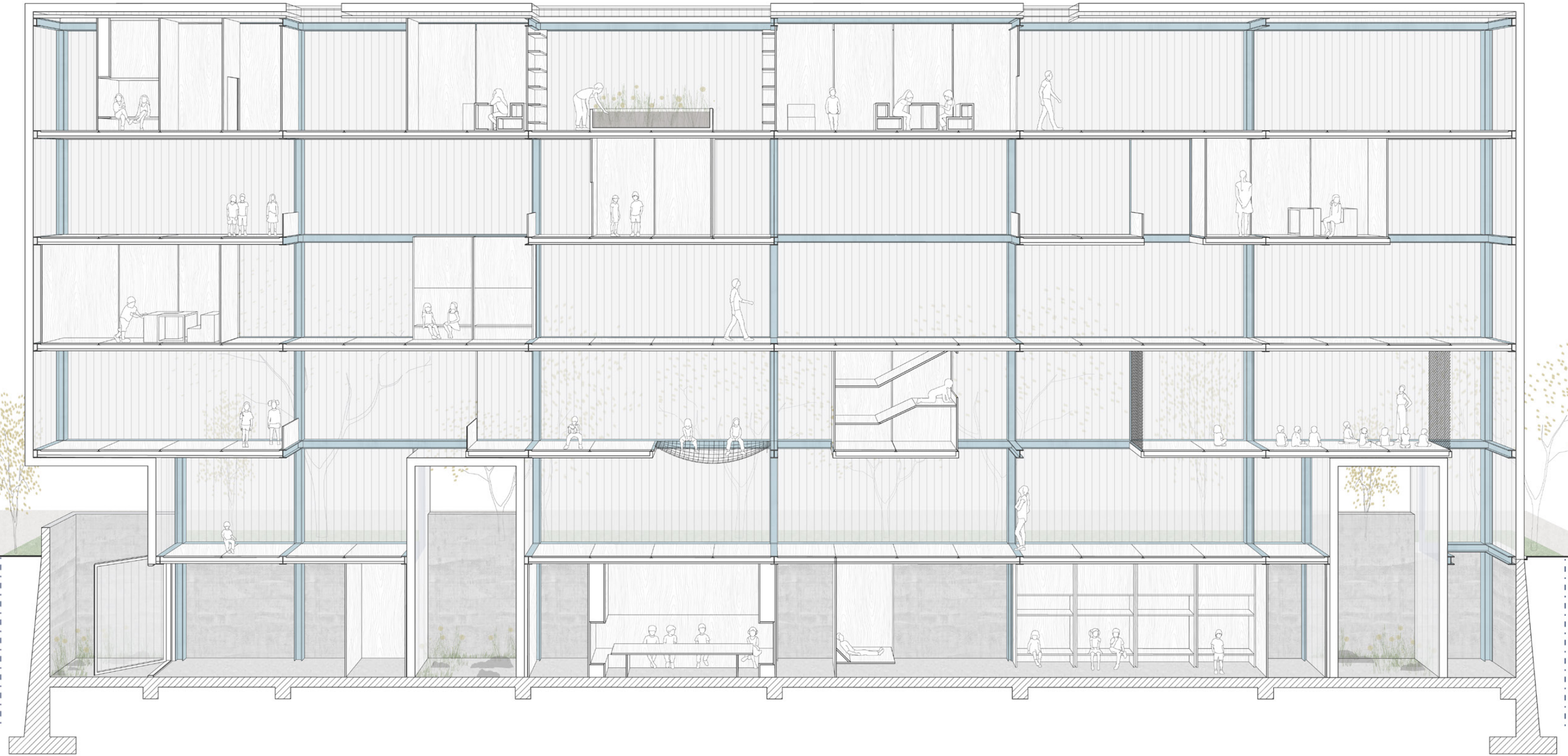


Plan



Left Facade Details
 Above Model Photo







Migrant Housing

*Core III Housing Studio
GSAPP - Columbia University
Fall - 2022*

*Led by Professor Hilary Sample
In partnership with Hanouf AlFehaid*

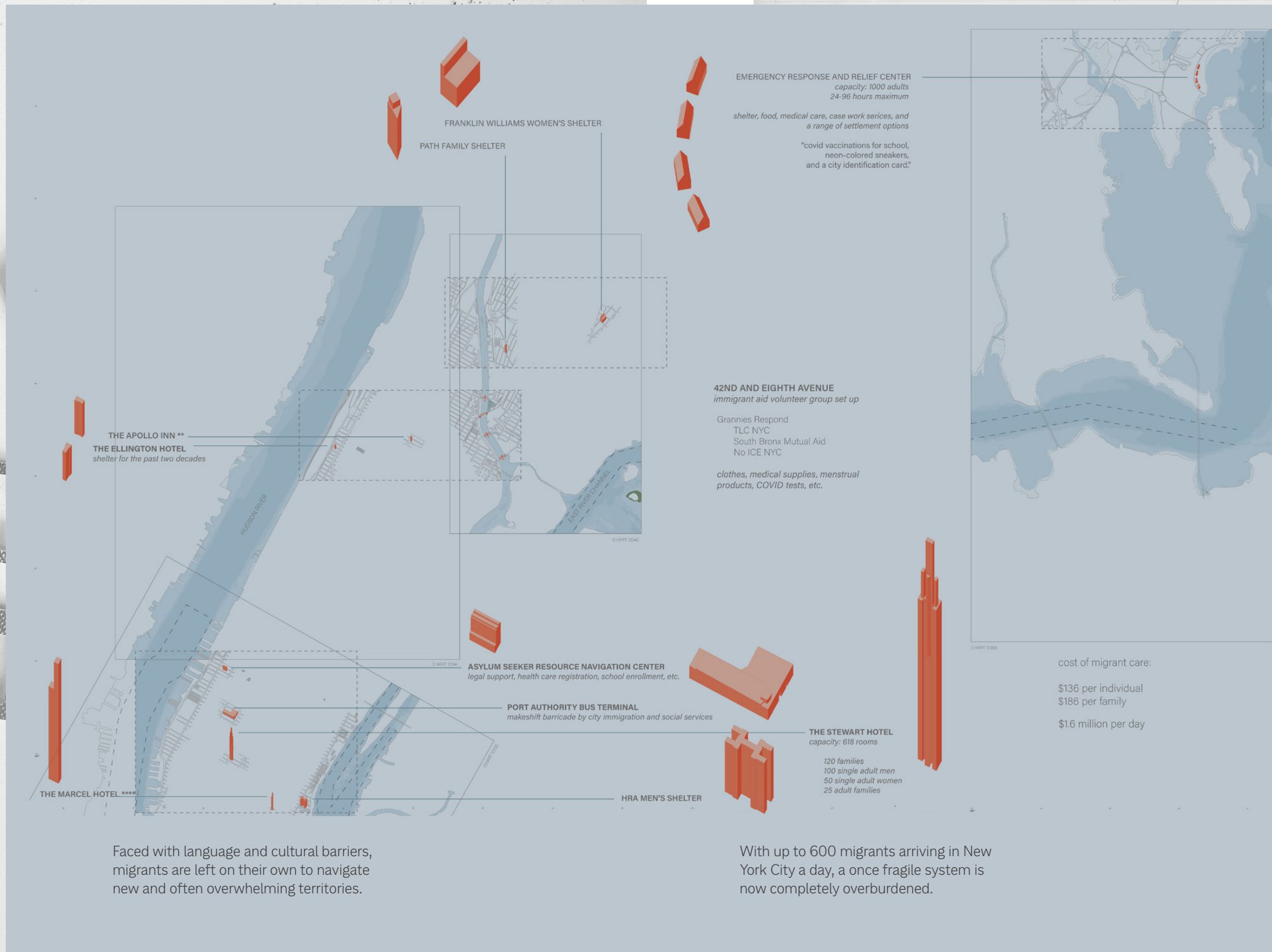
The concept of house as home is tied to both the cultural and social climate of its geographical boundary, and to the embodied dwelling traditions developed within. The process of migration is a complete disruption to this sense of stability.

This project looks to become a node within an existing network of support for migrants in the Bronx and the greater New York City area. Utilizing a boardwalk like condition for circulation that activates public spaces and sunken gardens in its absence. A flexible co-living residential floorplan that allows for the varying forms of arriving groups and families, and in its long-term outlook, the expansion and contraction of these groups over time.

With a view that with an immediacy to social and public services, the isolating journey of a migrant upon arrival will hopefully, at a minimum, become less of an overwhelming process of settlement.

40° 48' 46.26" N 73° 55' 55.452" W

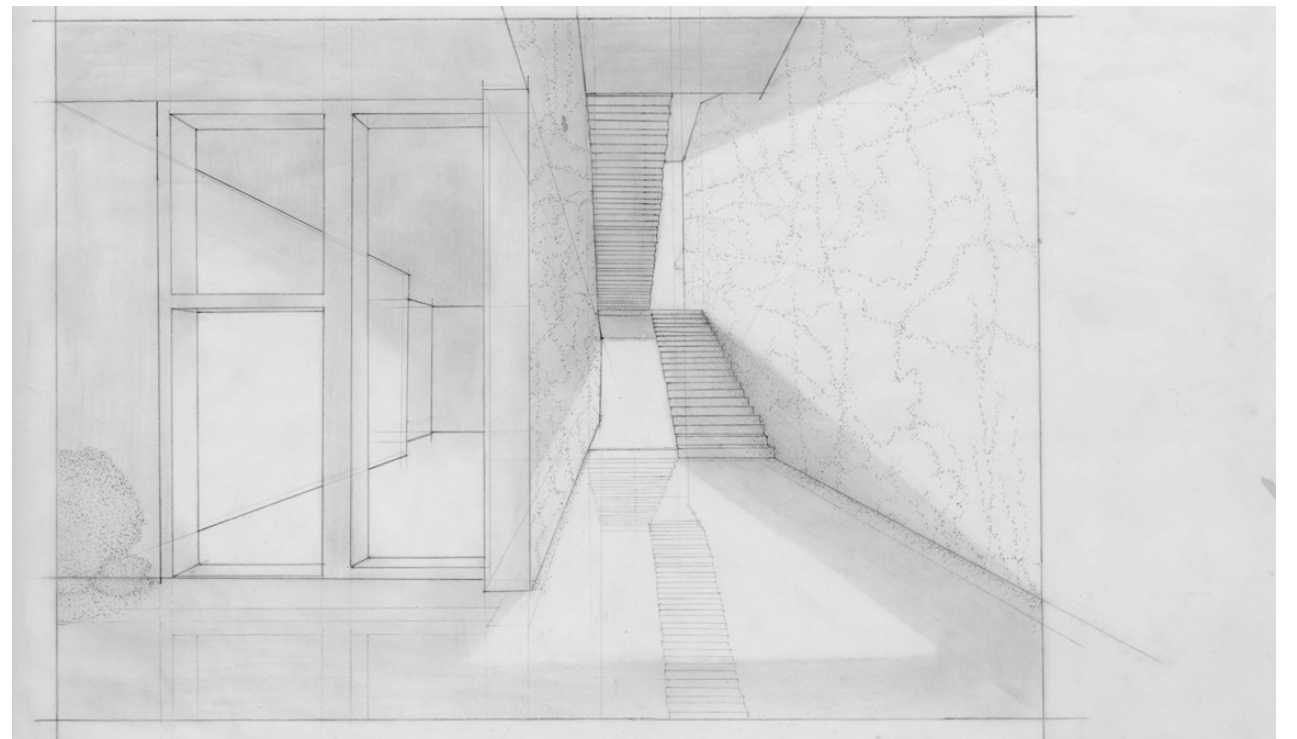
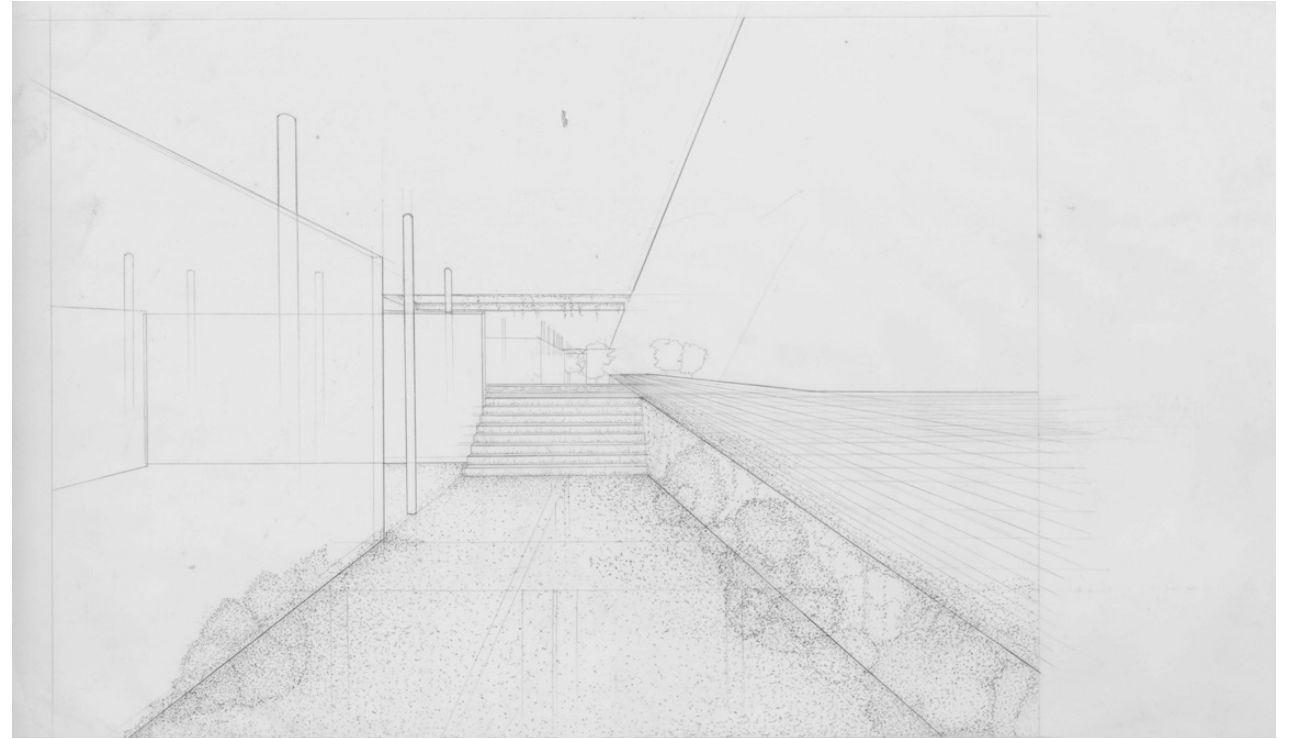
Above sunken garden and boardwalk, pencil on trace paper
Below exterior circulation, pencil on trace paper
Left kit of parts site model, card stock, metal mesh, rockite, soil



Above sunken garden and boardwalk, pencil on trace paper
 Below exterior circulation, pencil on trace paper
 Left kit of parts site model, card stock, metal mesh, rockite, soil

Migrant Housing

- i *mediates with the resident as processes of negotiation and confrontation take place during the process of settlement*
- ii *prioritizes spatial conditions that do not define domesticity to a singular culture or generation*
- iii *embraces the cultural heterogeneity of the residents while also balancing the need for privacy and sociability*



Above sunken garden and boardwalk, pencil on trace paper
 Below exterior circulation, pencil on trace paper
 Left kit of parts site model, card stock, metal mesh, rockite, soil

Lucy Baird

MIGRANT COMMUNITY CENTER

- GF Community
 - + lobby and main reception
 - + cafe
 - + retail store
 - + restrooms
 - + Team TLC and Grannies Respond Headquarters (local migrant aid group)
- L1 Education Center for English Language
 - + reception
 - + library
 - + classroom
 - + co-working space
 - + 1 on 1 tutoring area
 - + restrooms
- L2 City Services and Career Center
 - + (2) reception
 - + waiting area
 - + offices
 - + conference rooms
 - + restrooms
- L3 Medical Clinic, Women's Health Center, + Mental Health Center
 - + main reception
 - + main waiting area
 - + exam rooms
 - + restrooms
 - + offices
 - + nurse's lounge
 - + supply storage
 - + data room
 - + pharmacy

Boardwalk

Core III - Migrant Housing

- LT silver maple (*acer sacharinum*)
- common buckeye (*aesculus octandra*)
- NT almond tree (*prunus amygdalus*)
- FT apple tree (*malus pumila*)

Street Garden

- WF swamp milkweed (*asclepias incarnata*)
- cow parsnip (*heracleum lanatum*)
- TR american elm (*ulmus americana*)
- american linden (*tilla americana*)

COMMUNITY CENTER FOR THE AGING

- GF Community
 - + lobby and reception
 - + cafe
 - + hair salon
 - + restrooms
 - + exercise room
 - + dining room
 - + kitchen
 - + lounge
- L1 Management Office
 - + reception
 - + conference room
 - + offices
 - + nurse's lounge
 - + restroom

CHILDREN'S COMMUNITY CENTER

- GF Community
 - + lobby and reception
 - + play area
 - + galley kitchen
 - + restrooms
 - + nap room
 - + coat room
- L1 Management Office
 - + reception
 - + conference room
 - + offices
 - + teacher's lounge
 - + restroom

Children's Garden

- WF smooth blue aster (*symphyotrichum laeve*)
- northern bush honeysuckle (*diervilla loricera*)
- hyacinth (*hyacinthus*)
- NT chestnut tree (*castanea sativa*)
- LT flowering dogwood (*cornus florida*)

Fruit Garden

- SH winterberry (*ilex verticillata*)
- beach plum (*prunus maritima*)
- FT huntington pear (*pyrus communis*)
- black cherry (*pyrus communis*)
- apple tree (*malus pumila*)

Scented Garden

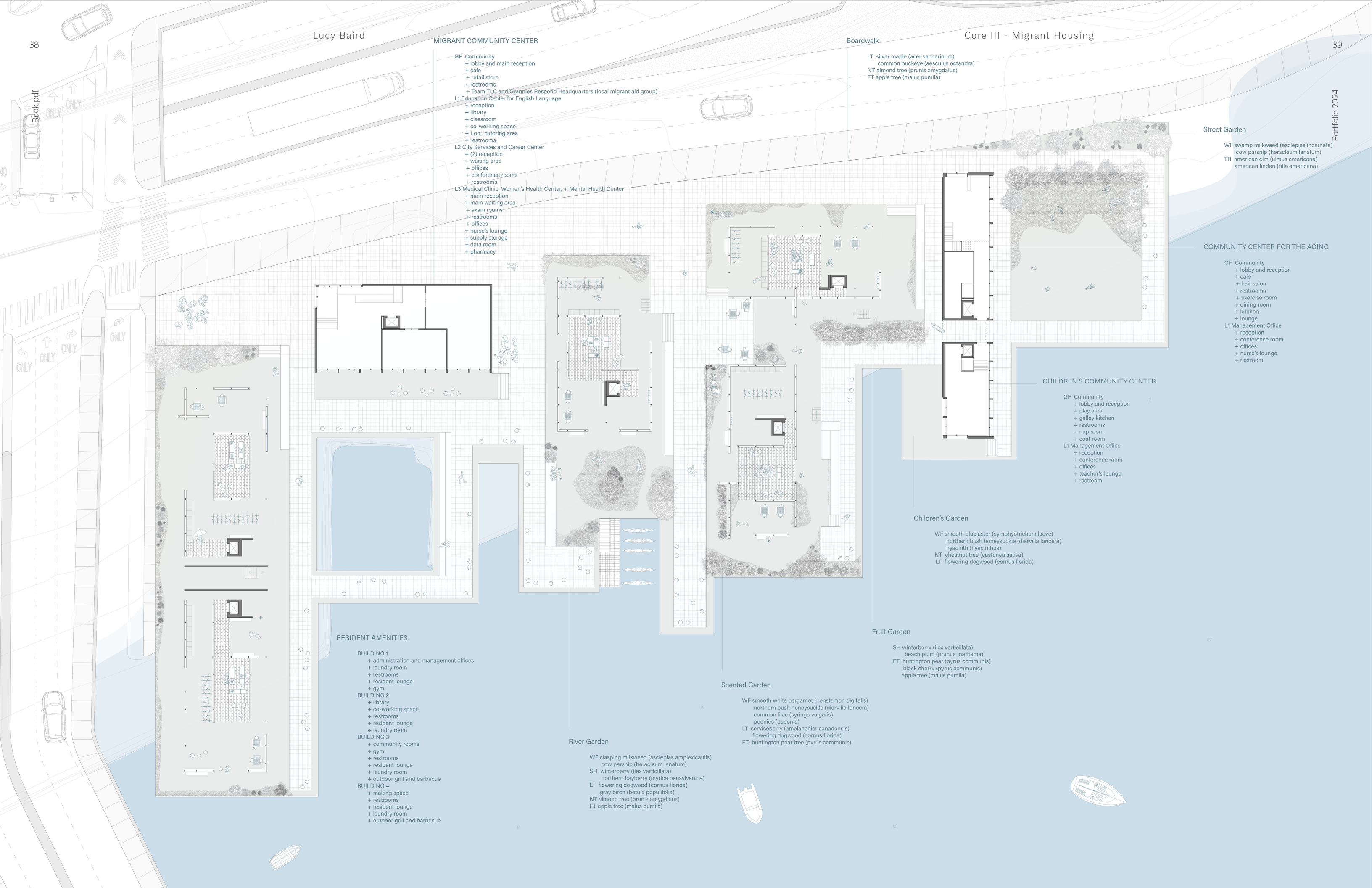
- WF smooth white bergamot (*penstemon digitalis*)
- northern bush honeysuckle (*diervilla loricera*)
- common lilac (*syringa vulgaris*)
- peonies (*paenonia*)
- LT serviceberry (*amelanchier canadensis*)
- flowering dogwood (*cornus florida*)
- FT huntington pear tree (*pyrus communis*)

River Garden

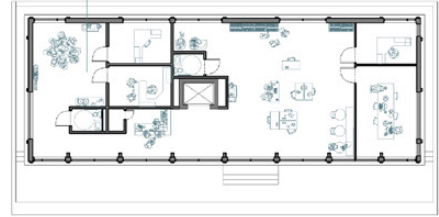
- WF clasping milkweed (*asclepias amplexicaulis*)
- cow parsnip (*heracleum lanatum*)
- SH winterberry (*ilex verticillata*)
- northern bayberry (*myrica pensylvanica*)
- LT flowering dogwood (*cornus florida*)
- gray birch (*betula populifolia*)
- NT almond tree (*prunus amygdalus*)
- FT apple tree (*malus pumila*)

RESIDENT AMENITIES

- BUILDING 1
 - + administration and management offices
 - + laundry room
 - + restrooms
 - + resident lounge
 - + gym
- BUILDING 2
 - + library
 - + co-working space
 - + restrooms
 - + resident lounge
 - + laundry room
- BUILDING 3
 - + community rooms
 - + gym
 - + restrooms
 - + resident lounge
 - + laundry room
 - + outdoor grill and barbecue
- BUILDING 4
 - + making space
 - + restrooms
 - + resident lounge
 - + laundry room
 - + outdoor grill and barbecue



- Team TLC NYC Asylum Seeker and Migrant Organization Headquarters**
- + (2) private w.c.
 - + (3) private offices
 - + (1) front desk
 - + (2) coffee makers
 - + (7) communal desks
 - + (1) conference room
 - + (2) printers
 - + (6) bookshelves
 - + (23) office chairs

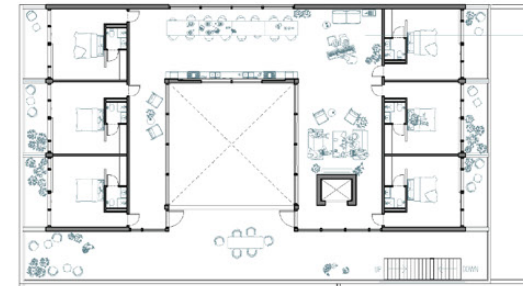


- Micro / Macro Unit**
- non load bearing walls allow for expansion
 - private outdoor terrace
 - private w.c.
 - operable windows for ventilation



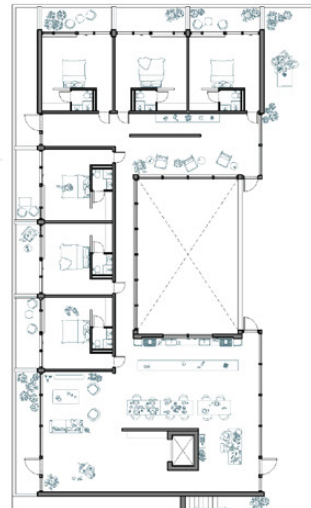
- + (2) ovens
- + (2) sinks
- + (2) refrigerators
- + (4) dining tables
- + (16) dining chairs
- + (3) sofas
- + (6) armchairs
- + (1) television
- + (2) bookshelves
- + (1) music

- Co-Living Spaces**
- + (2) ovens
 - + (2) sinks
 - + (2) refrigerators
 - + (4) dining tables
 - + (16) dining chairs
 - + (3) sofas
 - + (6) armchairs
 - + (1) television
 - + (1) piano
 - + (2) bookshelves



- Co-Living Spaces**
- + (2) ovens
 - + (2) sinks
 - + (2) refrigerators
 - + (4) dining tables
 - + (16) dining chairs
 - + (2) sofas
 - + (6) armchairs
 - + (1) television
 - + (1) cooking class
 - + (1) children fort
 - + (1) bookshelves

- Co-Living Spaces**
- + (2) ovens
 - + (2) sinks
 - + (2) refrigerators
 - + (1) island
 - + (4) dining tables
 - + (16) dining chairs
 - + (2) sofas
 - + (5) armchairs
 - + (1) television
 - + (1) painting station
 - + (2) bookshelves



- Co-Living Spaces**
- + (2) ovens
 - + (2) sinks
 - + (2) refrigerators
 - + (1) island
 - + (4) dining tables
 - + (16) dining chairs
 - + (2) sofas
 - + (5) armchairs
 - + (1) television
 - + (1) pottery station
 - + (4) bookshelves



Kitchen

placed at the core of the co-living space, treated in many cultures as the heart of the home, and the space for gathering

Units

host bed, bath, and outdoor terrace, allowing for moments of privacy and reprieve

Non Load Bearing Walls

can be reconfigured to consolidate units to accommodate the malleability of family dynamics

Residential Floor Plan

Migrants do not come with assumed living traditions, cultural and religious needs, or family configurations. Identity is what they impose, their rituals are what reshape space.

Translating, reconfiguring, and repurposing to meet their needs. From the removing or replacing of dividing walls, to painting the interior of the units, the residents have both the right to shape their surrounding environment, as well as the responsibility to maintain it.



Left 6 single units
 Center 3 single units + 1 two-bedroom unit
 Right 1 three bedroom unit



Above courtyard
 Left section model

Daily Commute

After the traumatic journey of migration, the migrant is expected to navigate new social and cultural realities. This isolating process requires immediacy in its approach to community as it relates to social services and housing.

With this in mind, we approached this project as a site of support. Creating a network of spaces that play critical roles in assisting migrants in navigating new bureaucratic systems and facilitating an inclusive economic freedom. This includes, in part, childcare, health care and administrative services.

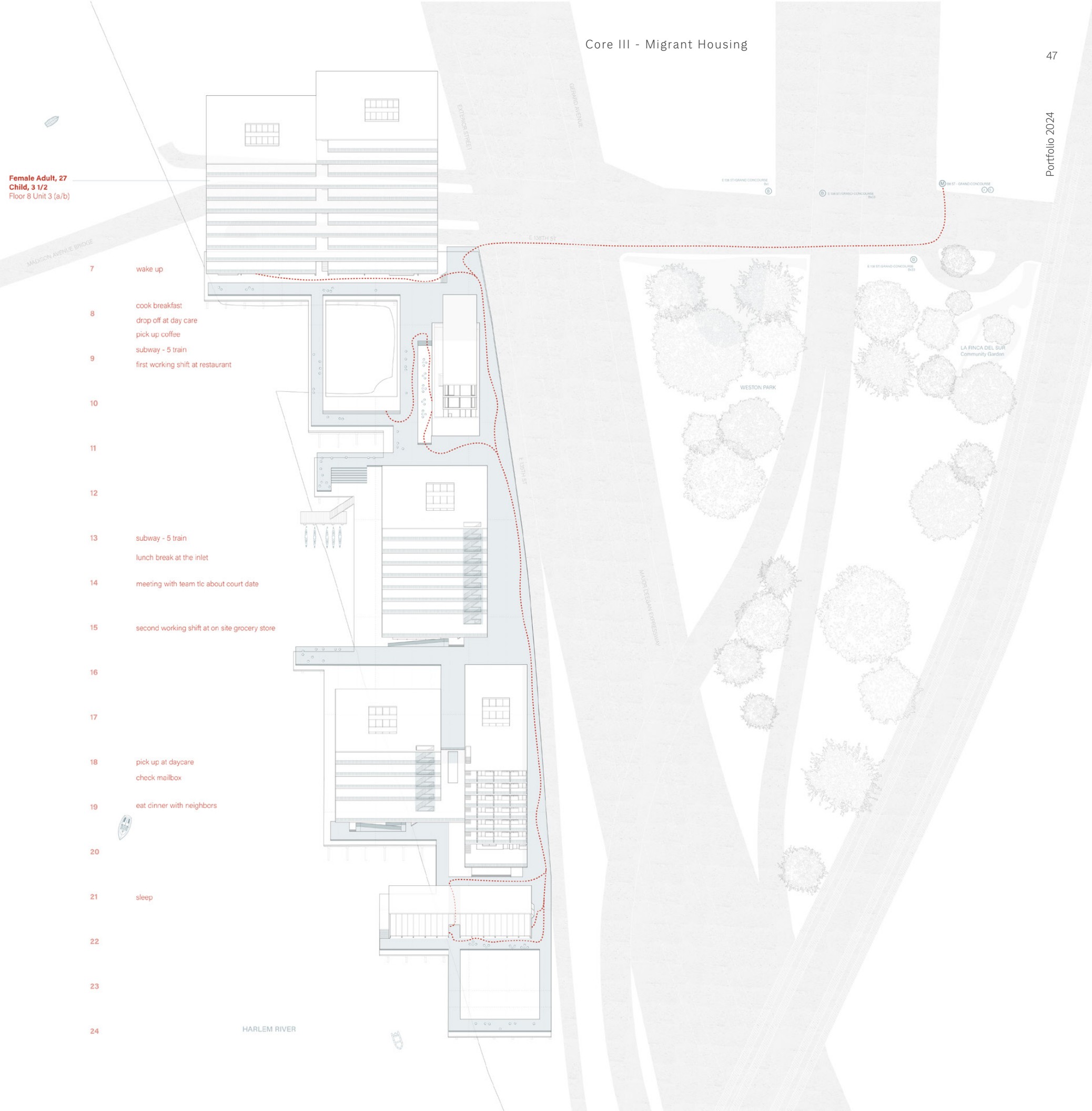
A few blocks from our site in the South Bronx is the main family intake center as well as the women's shelter, thus our site looks outward and extends towards its surrounding community, becoming an additional node within an existing network of support.

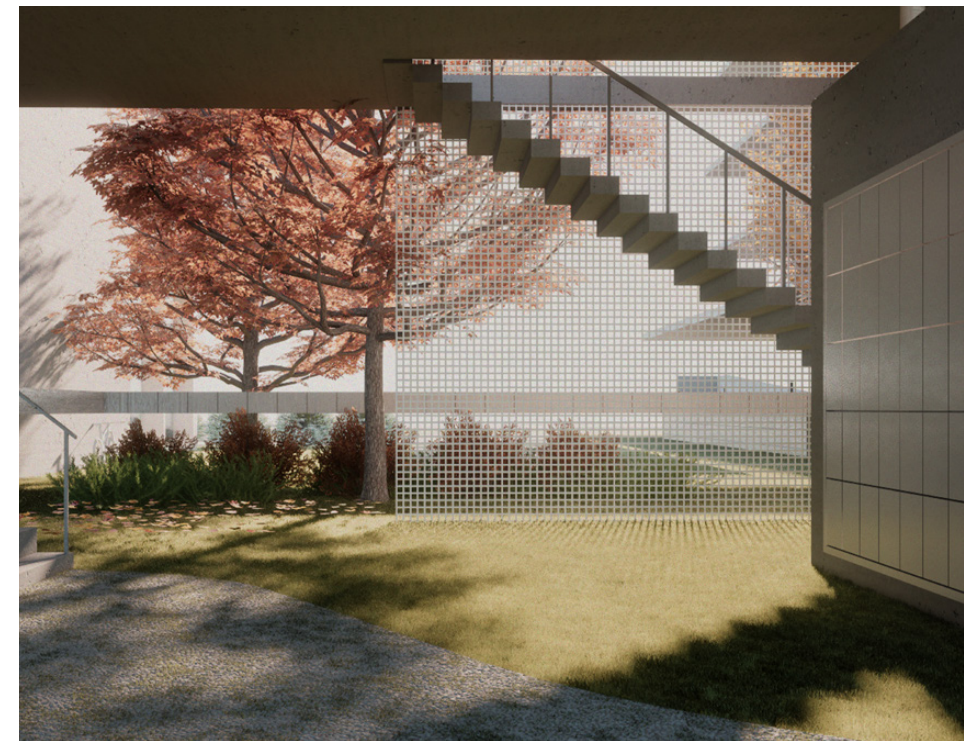
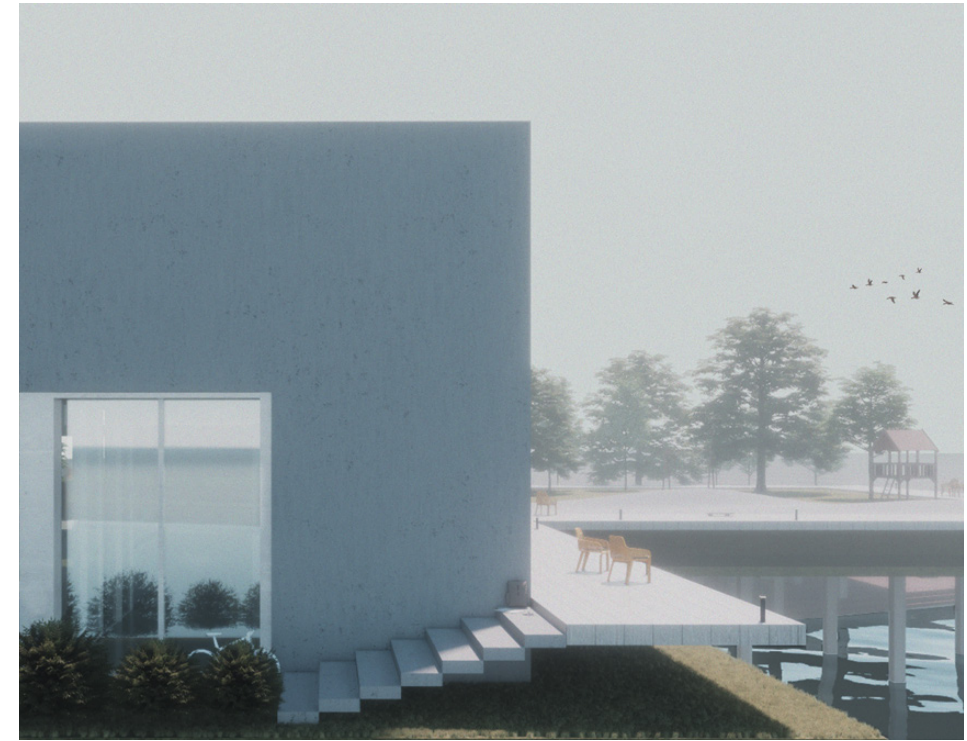
Circulation extends this network. Through a publicly accessible boardwalk, public spaces are shaped between, within and around the housing blocks. Forming sunken gardens in its absence, and creating visual thresholds of privacy and intimacy within individual housing courtyards and gardens.

While the process of settlement is alleviated through the implementation of social services and public spaces, the nurturing of domesticity is crafted through shared gardens and a co-living environment.

Female Adult, 27
Child, 3 1/2
Floor 8 Unit 3 (a/b)

- 7 wake up
- 8 cook breakfast
drop off at day care
pick up coffee
subway - 5 train
- 9 first working shift at restaurant
- 10
- 11
- 12
- 13 subway - 5 train
lunch break at the inlet
- 14 meeting with team tic about court date
- 15 second working shift at on site grocery store
- 16
- 17
- 18 pick up at daycare
check mailbox
- 19 eat dinner with neighbors
- 20
- 21 sleep
- 22
- 23
- 24





Above park
 Below resident mailboxes
 Left courtyard



40° 58' 08.0" N 72° 07' 28.8" W

A Boat

*Advanced IV Studio
GSAPP - Columbia University
Spring - 2023
Led by Professor Robert Marino*

This studio aims to provide life-saving facilities on the border between land and ocean. The central question is how to build within a shifting and dynamic landscape.

With previous knowledge of the subject, the primary research centered around boat construction as the main driver for design, material, and construction techniques.

This project proposes a series of concrete keels that support built structures between, above and within them. Stress skin panels spaced every four or eight feet outline the interior programming, including locker rooms, a mess room, outdoor showers, washrooms, storage, jet ski cradles and garages. As their peaks meet the roof at varied heights, they form to meet a parabolic spine that runs the length of the building. The conoid roof structure rests on top, alluding to an overturned hull.

As means of communication and observation have changed over the years, this Life Saving Facility does not project itself high into the sky but rather plants itself deeply into the sand like capsized hulls in the water. Making space for necessary equipment and facilities for those who run the lifeguarding operations of the East Hamptons.

As time goes on, more of the structure may be revealed to beachgoers as the sand erodes and builds up around the keels. There may even come a time when all that is left are shipwreck-like structures on a sandspit, a relic of past maritime events.



Above section - sail boat
Below section - sail boat
Left 1880, U.S. Life Saving Station Outpost, Amagansett, NY

Keel

- i the longitudinal structure along the centerline of a vessel's hull, on which the rest of the hull is built, extending downwards as a blade or ridge to increase stability

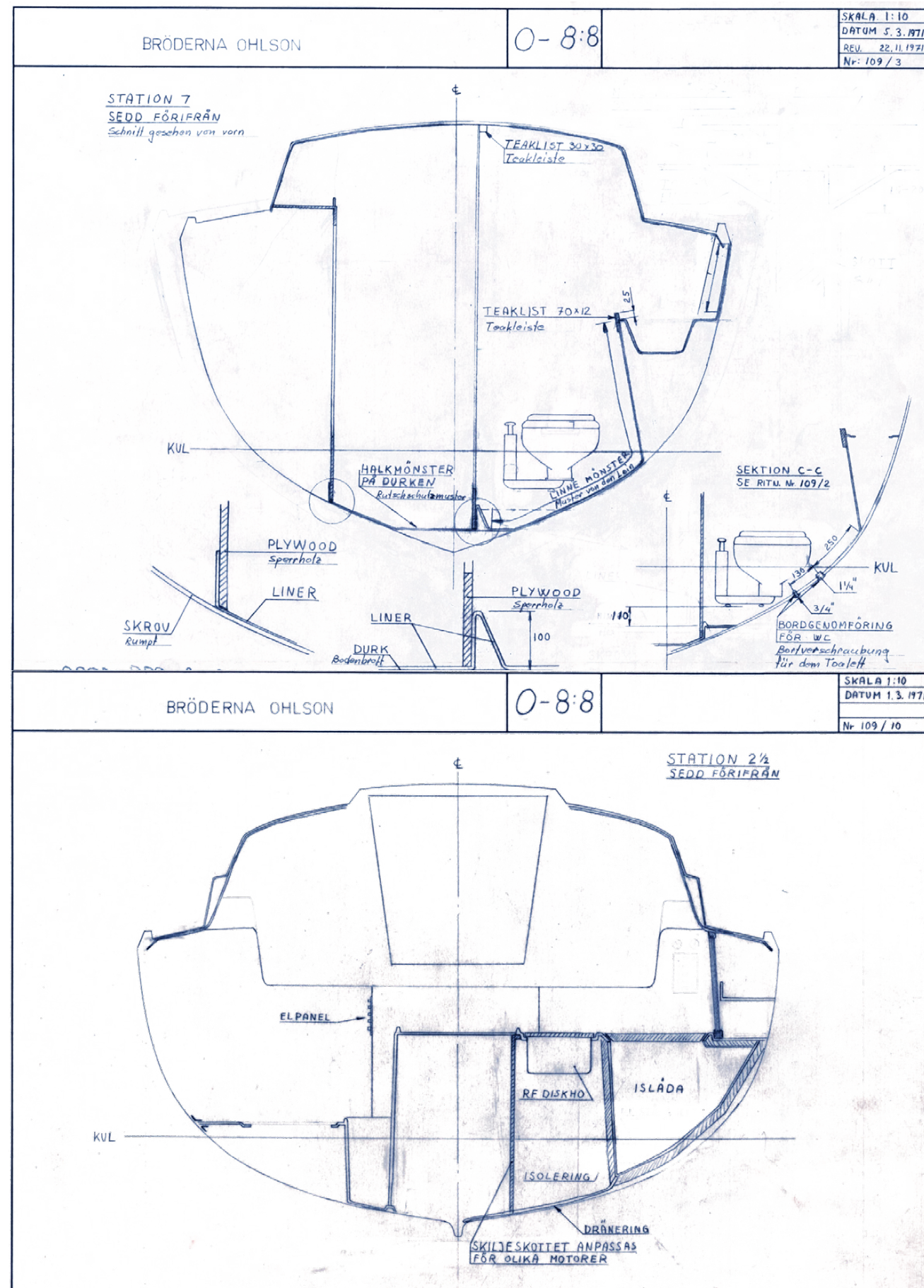
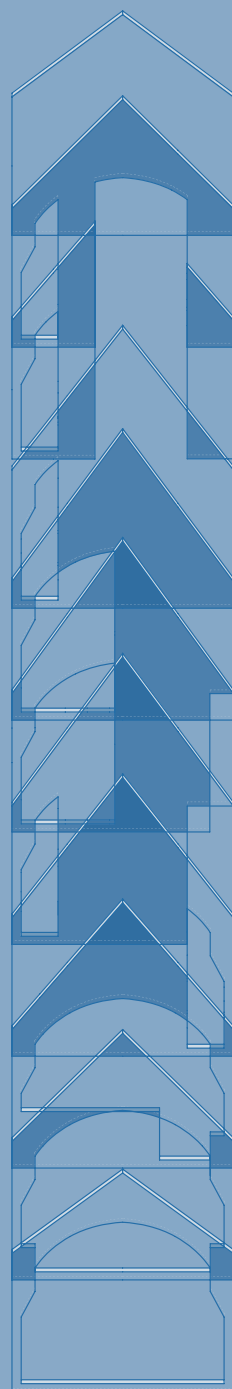
Observation

- i the act of noticing/ perceiving incidents for the gathering of information
- ii methods can include physical observation that results in a direct reaction, or the relaying of information to innact a reaction

Elements of the physics and construction methods for boat building became key drivers of design.

The first is the cross section. Utilized in the drafting process, key ribs along the length of a boat differ from the ordinary outline of the hull to accomodate the programming that occurs below and above deck. The ribs begin to define a bench, the height of a counter, and the deck above. The cross sections plans out sequentially the oranziation of space; program and structure begin to mould into one.

Sailboats require an additional element to help them move in the direction in which they are pointed, rather than just drifting downwind. The keel utilizes the same shape engineered by airplane wings and sails to generate lift as water flows around it, preventing side slipping. The keel is the central member of the boat that provides stability within the dynamic environment of the ocean.

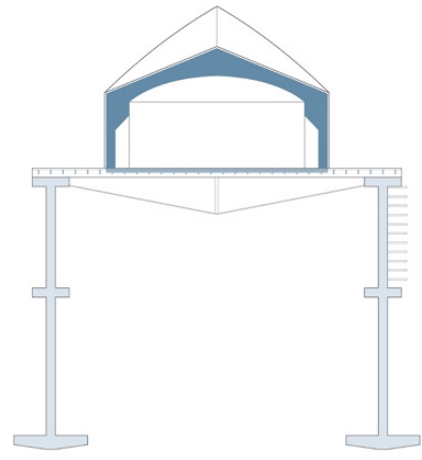


Above section - sail boat
 Below section - sail boat
 Left 1880, U.S. Life Saving Station Outpost, Amagansett, NY

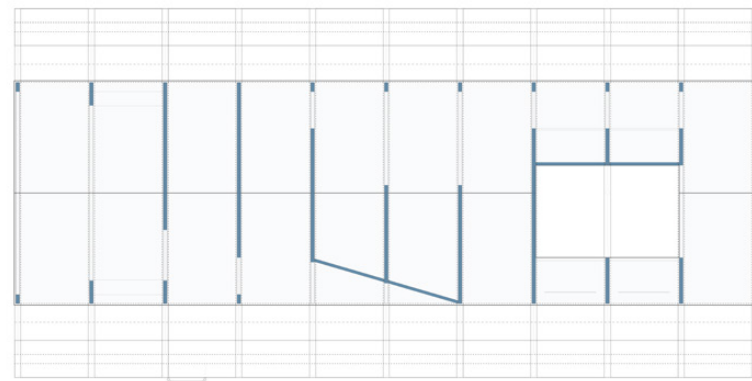
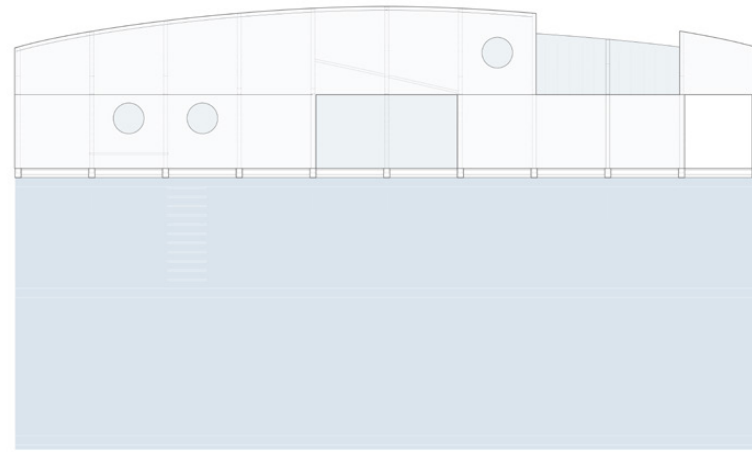
Translation

Long architectural keels are planted deeply into the dunes, creating stability within an eroding and shifting landscape.

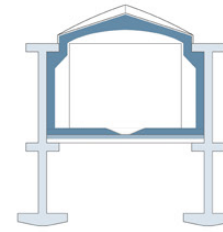
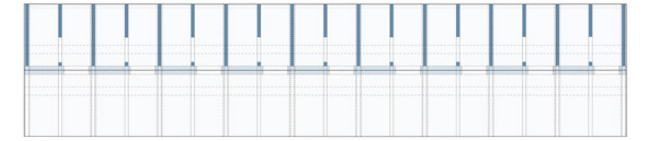
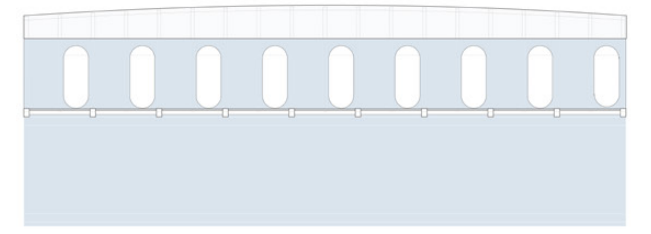
Stress-skin panels are employed sequentially throughout the project as a means of articulating the interior throughout the length of the individual buildings, defining programming and meeting the needs of the users.



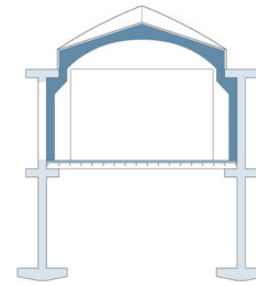
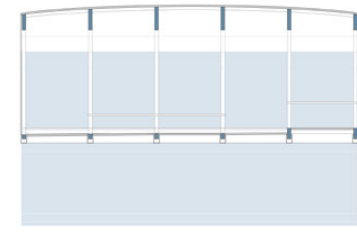
lifeguard station 1



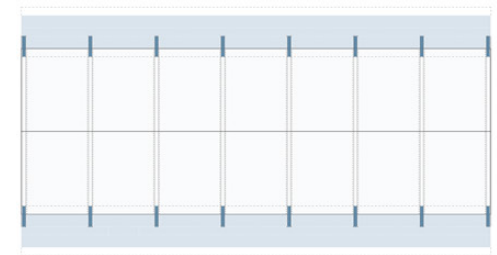
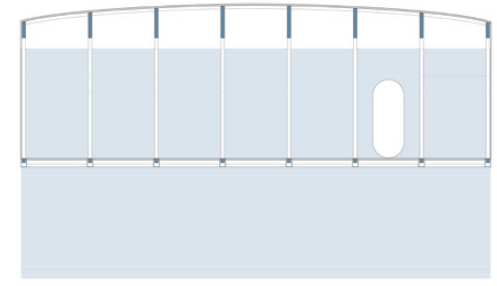
shower, changerooms, bathrooms 2



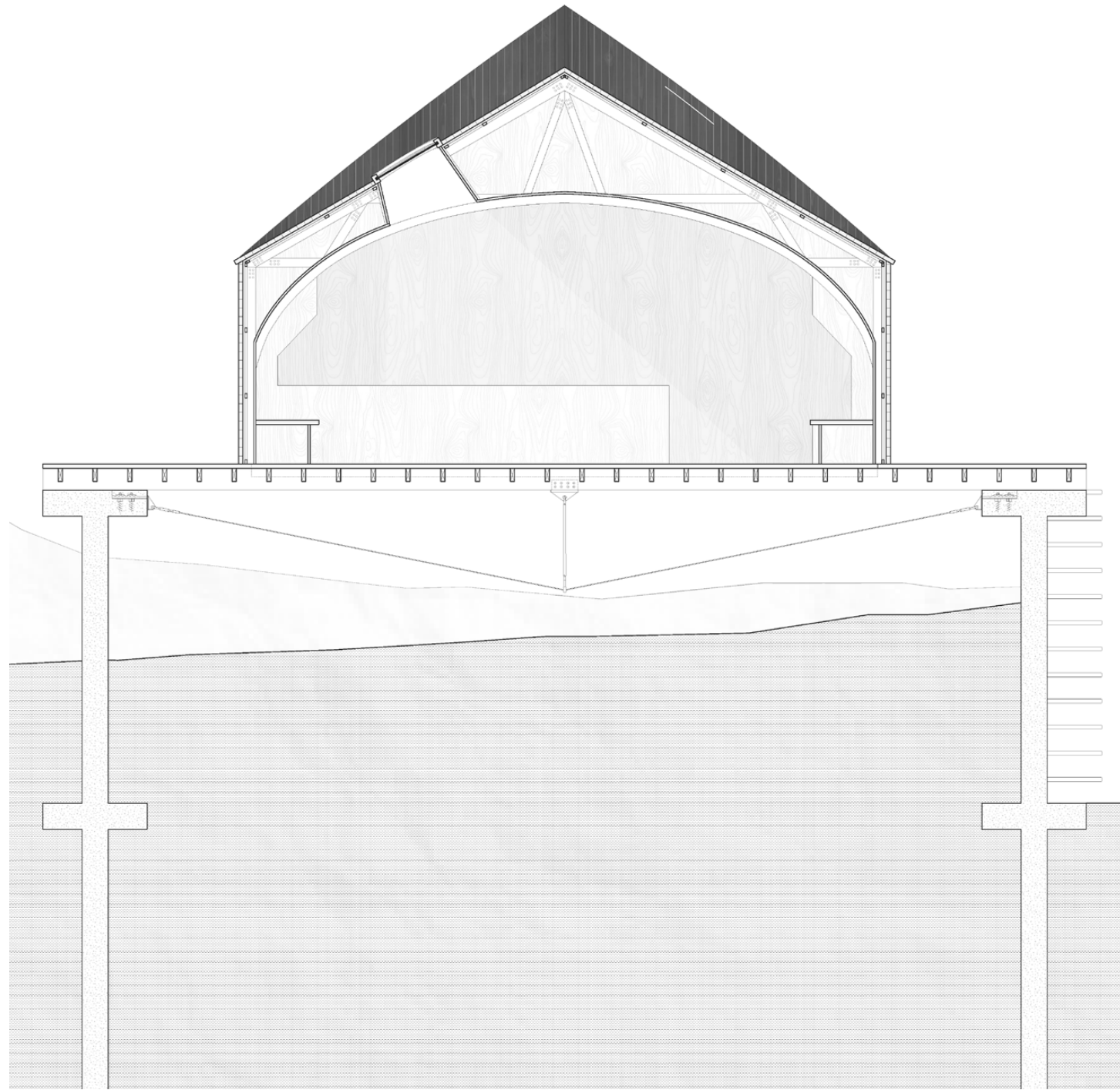
watercraft and equipment storage 3



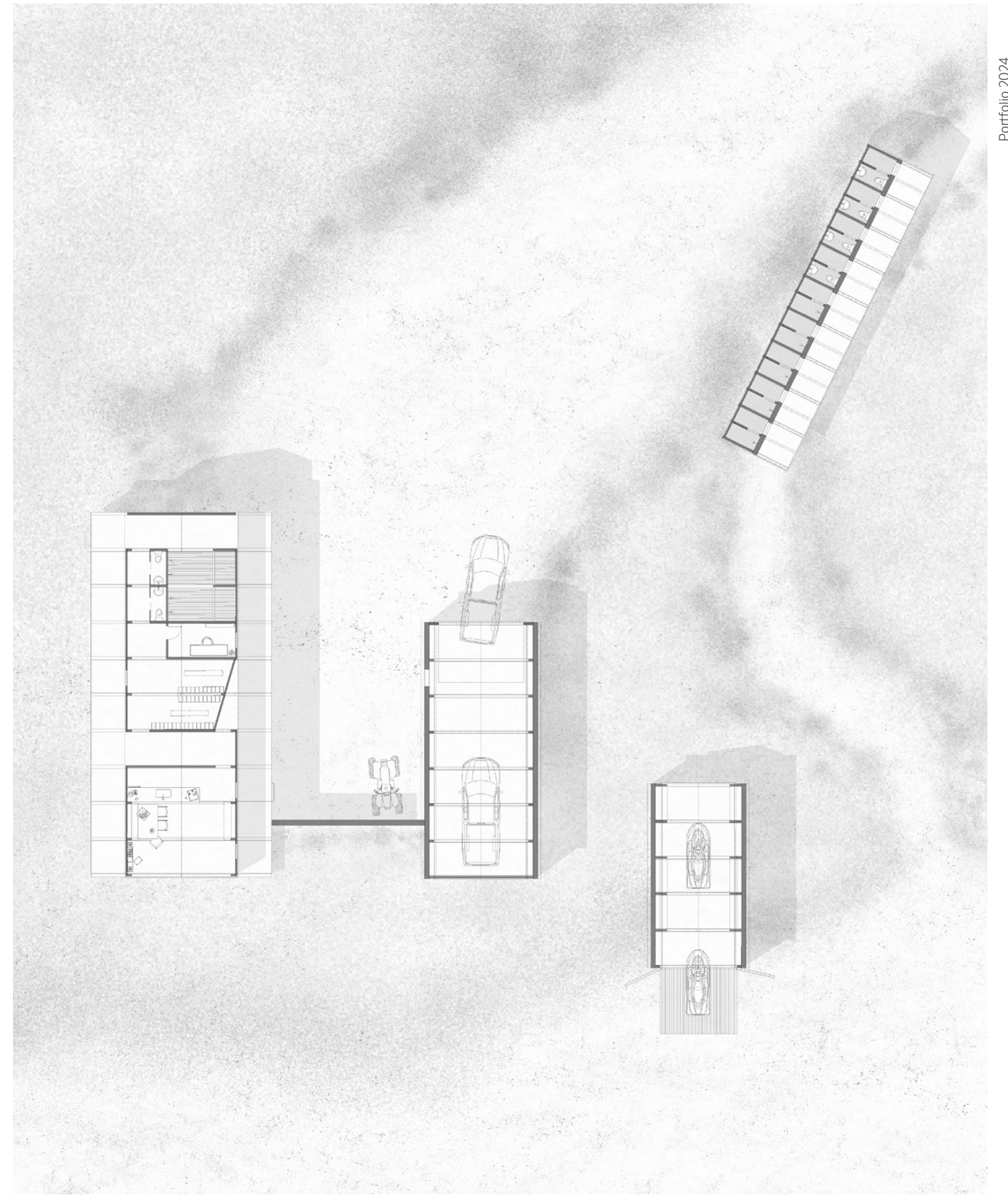
vehicular and equipment storage 4



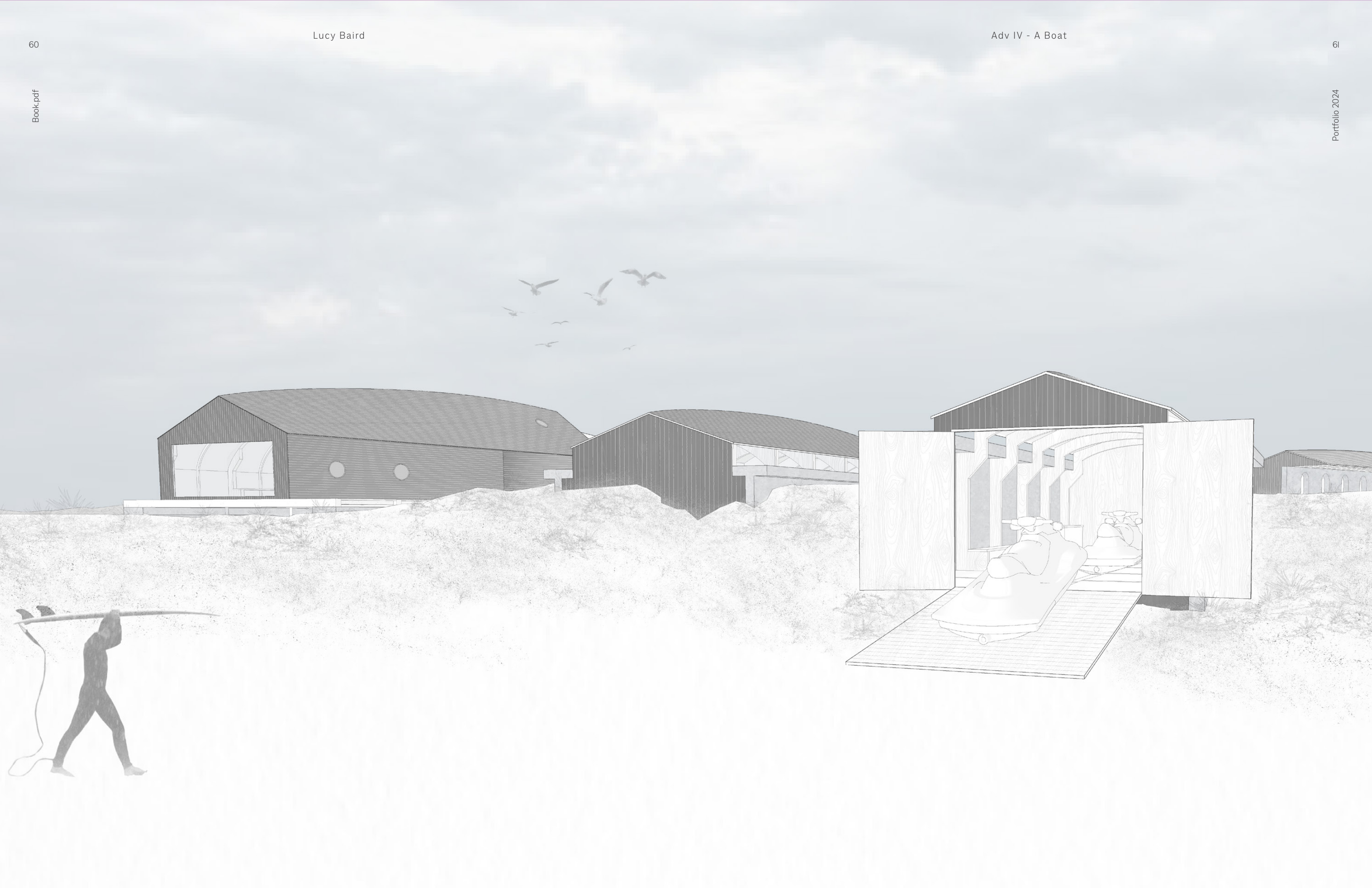




Left section - lifeguard station
 Right site plan



Left section - lifeguard station
 Right site plan





What if the armory was reconfigured around
city
fields
begin to

City \ Park

Advanced V Studio
GSAPP - Columbia University
Fall - 2023
Led by Professor Wonne Ickx
In partnership with Will Wang

40° 52' 5.376" N 73° 53' 56.256" W

The Kingsbridge Armory, built in 1917 and originally intended for military function, has witnessed various attempts at repurposing the vast available space, ranging from film sets to hockey rinks. Sitting within a 245,600 square-foot site, hosting an 180,000 square-foot drill hall with three below grade stories, the armory offers a rare opportunity to provide large scale reinvestment into the existing community.

In response to the City and State of New York's 200 million dollar investment in the redevelopment of the Armory, and a request for proposals issued by the NYC Economic Development Corporation, this project seeks to reconnect the Armory to it's surrounding community.

Our project began through a self imposed prompt. What if the armory was a place where two entities meet, the city and the park? Bisecting the whole, leaving half to be developed, and half to nature.

what occurs at this line.

ted
neant
nd
only
y the
site
ies.
s, a
/
of
rough
ng the
y the
paces.
nds
ne
nes



What if the armory was reconfigured around city fields begin to

ted meant and

only the site ies.

s, a of rough

ng the the spaces. nds ne nes

what occurs at this line.



Kingsbridge Armory

What if the armory was reconfigured around two identities, the old and the new, the city and the park. What occurs when these fields overlap, weave within each other, and begin to interact with one another?

The binary of the city and the park is rooted within the history of the site. In 1906 the Jerome Park Reservoir was excavated, meant to supply water for the whole of Bronx and Manhattan.

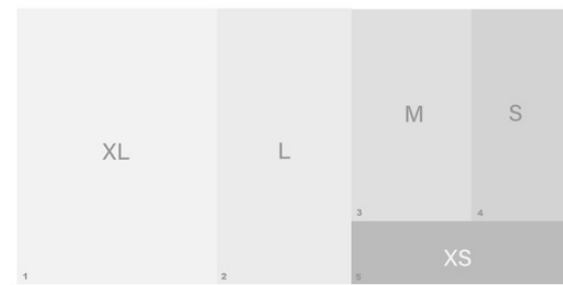
Originally conceived to have two basins, only one would be built, with the other having the encroaching city take over. The existing site now reorganized around two new identities.

City: *a collection of academic institutions, a main commercial avenue and an armory*

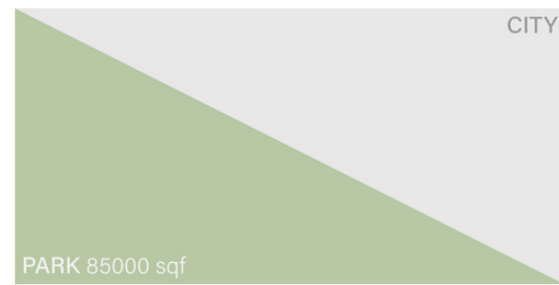
Park: *a public park system delineating the below grade aqueduct that runs through the site*

A line threads between the two, mediating the parallels between them.

This line weaves through the city, tracing the Croton Aqueduct with splintered greenspaces. Pulling this line through the Armory extends this pre-existing condition, reinforcing the binary of the city and park, and reimagines what occurs at this line.



XL 27400 sqf
 L 17750 sqf
 M 12500 sqf
 S 10450 sqf
 XS 6750 sqf

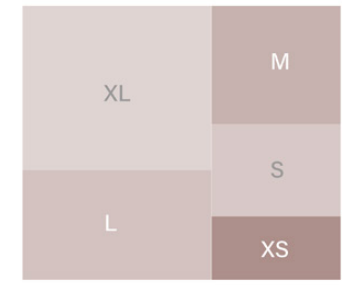


Park: 85000sqf



Park Level

film studio / manufacturing / event venue **XL**
 exhibition space / studio / theatre **L**
 Greenhouse / Daycare Center/ dance studio / art studio **M**
 post office / clothing store / barber **S**
 cafe / baker / florist / bar **XS**



27400 sqf XL
 17750 sqf L
 12500 sqf M
 10450 sqf S
 6750 sqf XS

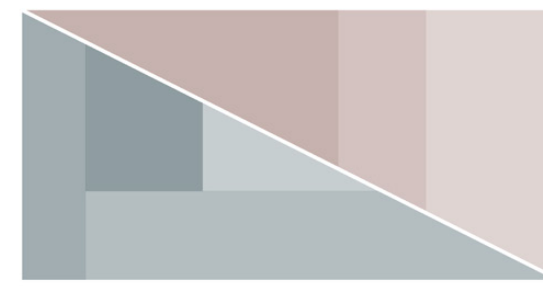
Program Diagram Will Wang



Gatehouse

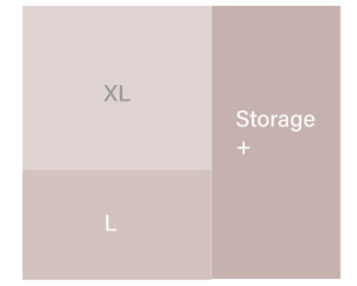


Rainwater 558000 gallons
 Stormwater 426500 gallons
 Greywater 15600 gallons
 Facilities 12937 sqf



Below Grade Level

film studio / manufacturing / event venue **XL**
 exhibition space / studio / theatre **L**



29700 sqf Storage +
 27400 sqf XL
 17750 sqf L

Lucy Baird

Adv V - City \ Park

XS - 500 sqft

- post office
- cafe
- bakery
- clothing store
- barber
- florist
- artist studio
- tailor
- bar

S - 1 000 sqft

- post office
- cafe
- bakery
- clothing store
- barber
- florist
- artist studio
- tailor
- bar

M - 2 250 sqft

- medical center
- greenhouse
- restaurant
- clothing store
- daycare
- dance studio
- art studio
- pharmacy
- bakery
- yoga studio
- beauty services
- bicycle rentals

L - 5 250 sqft

- medical center
- greenhouse
- exhibition space
- offices
- studio
- gym
- theatre

XL - 25 000 sqft

- film studio
- greenhouse
- manufacturing
- museum
- offices
- library
- event venue
- market
- metal / wood shop
- medical center

WEST 195th STREET



PARK - 85 500 sqft

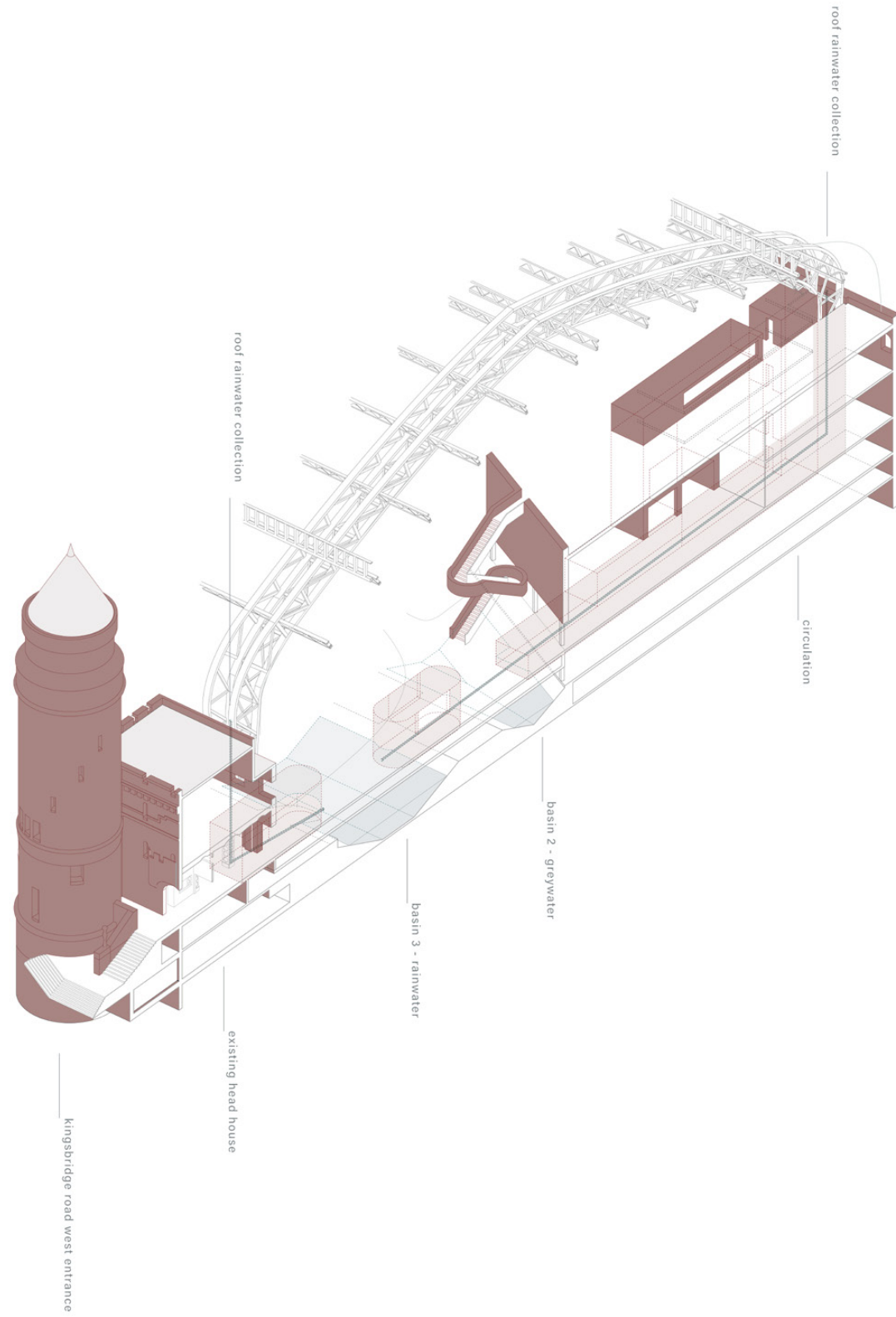
RESERVOIR AVE

JEROME STREET

KINGSBRIDGE ROAD WEST

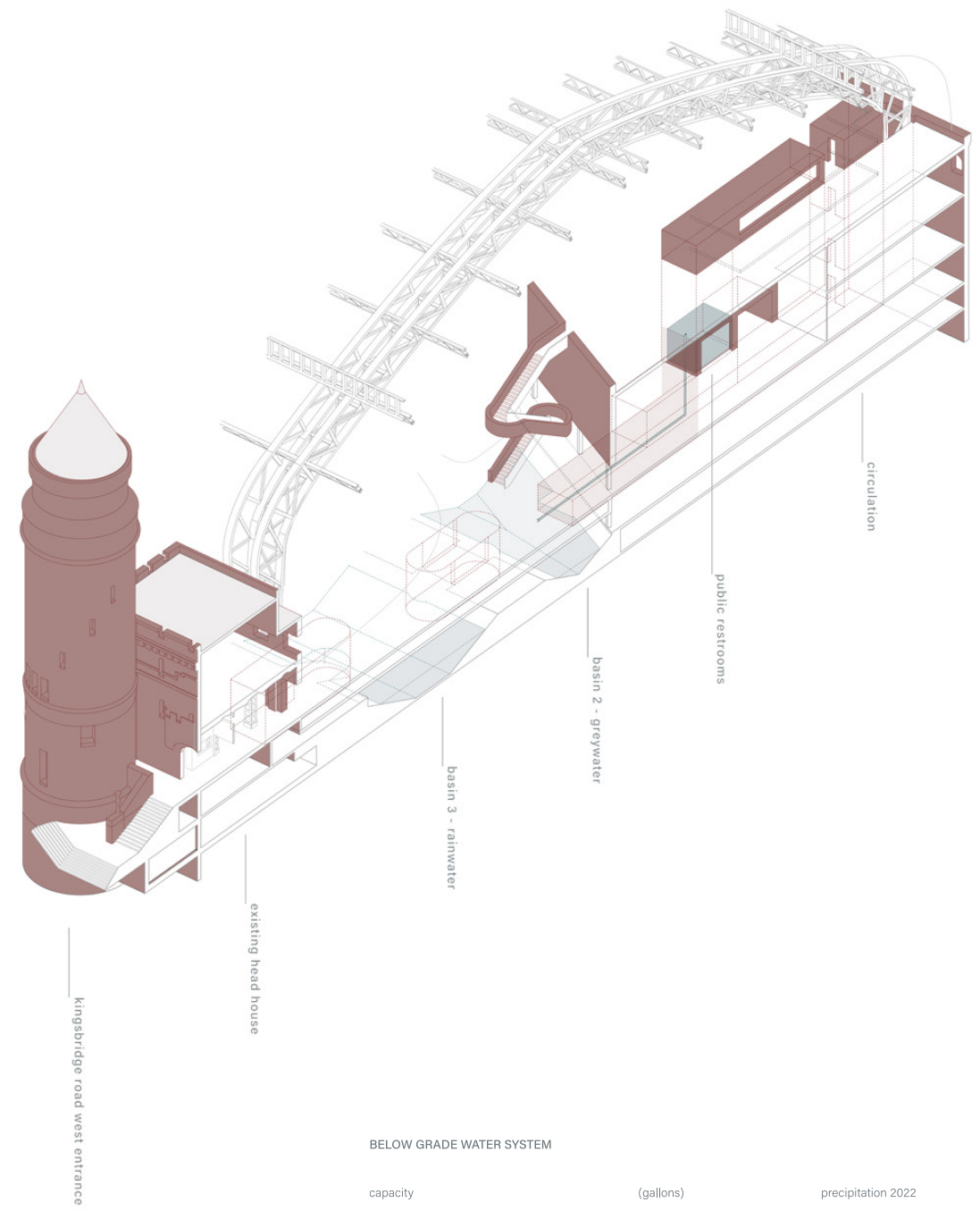
Park Level Plan

Lucy Baird



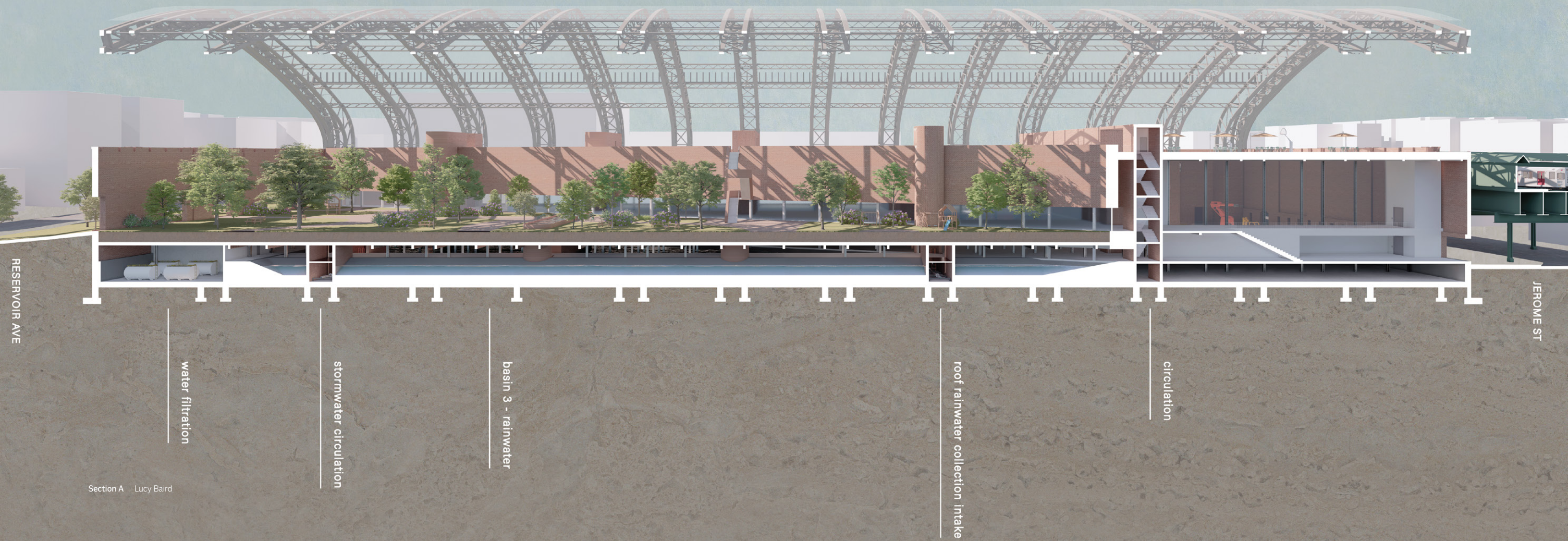
Diagrams Lucy Baird

Left gatehouse - rainwater collection
 Right gatehouse - greywater distribution



BELOW GRADE WATER SYSTEM

capacity	(gallons)	precipitation 2022	(inches / sqft)
basin 1 - stormwater	426 500	january	4.29
basin 2 - greywater	156 000	february	3.23
basin 3 - rainwater	558 000	march	2.39
		april	4.53
		may	4.52
		june	2.92
		july	4.55
		august	1.71
		september	4.10
		october	5.08
		november	3.15
		december	5.83
		total	46.30
total catchment area	211 151 sqft		
total rainwater collected / year	5 528 000 gallons		
required water for vegetation / year	10 000 000 gallons		
required water for vegetation / day	30 000 gallons		



RESERVOIR AVE

JEROME ST

water filtration

stormwater circulation

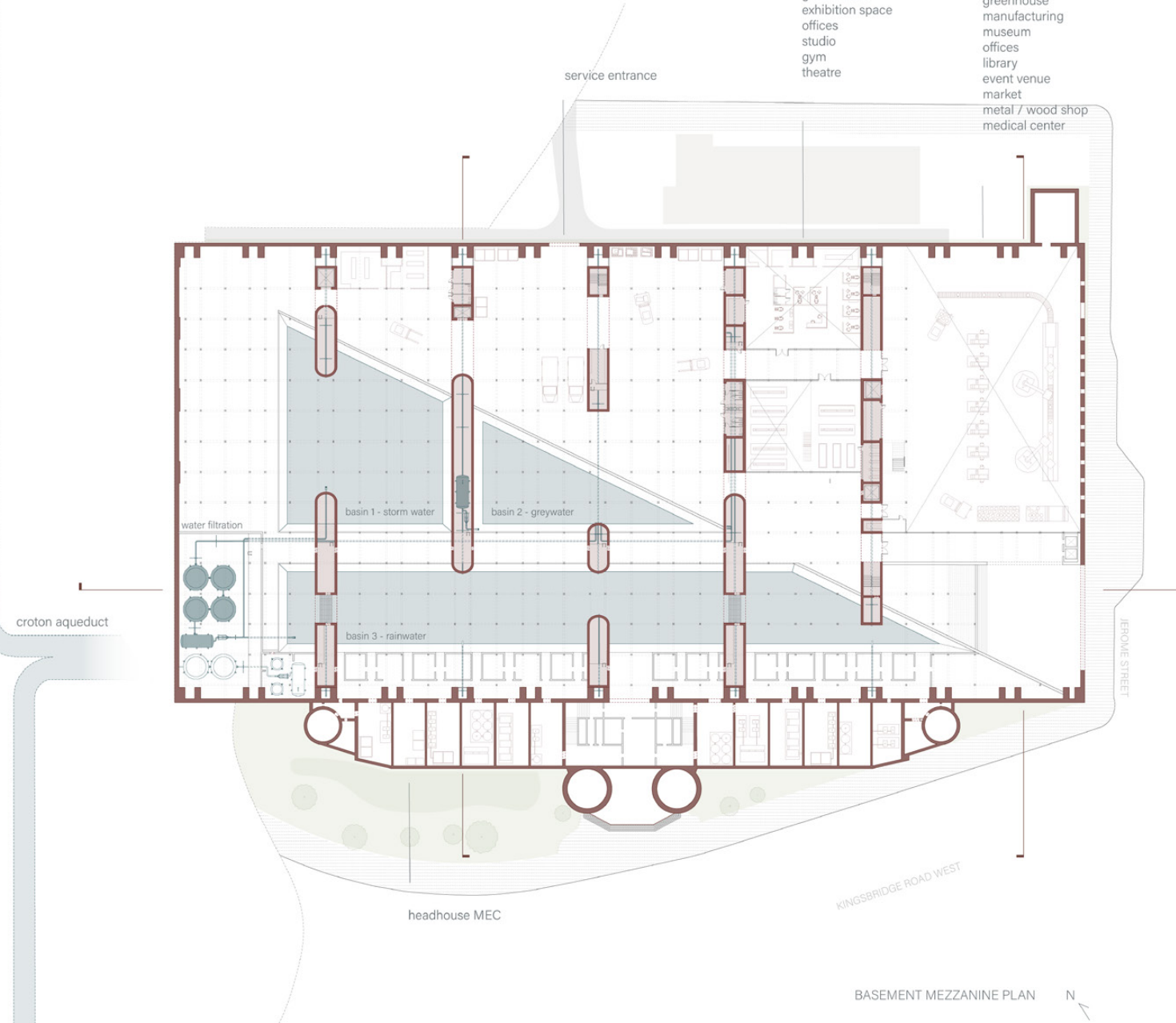
basin 3 - rainwater

roof rainwater collection intake

circulation

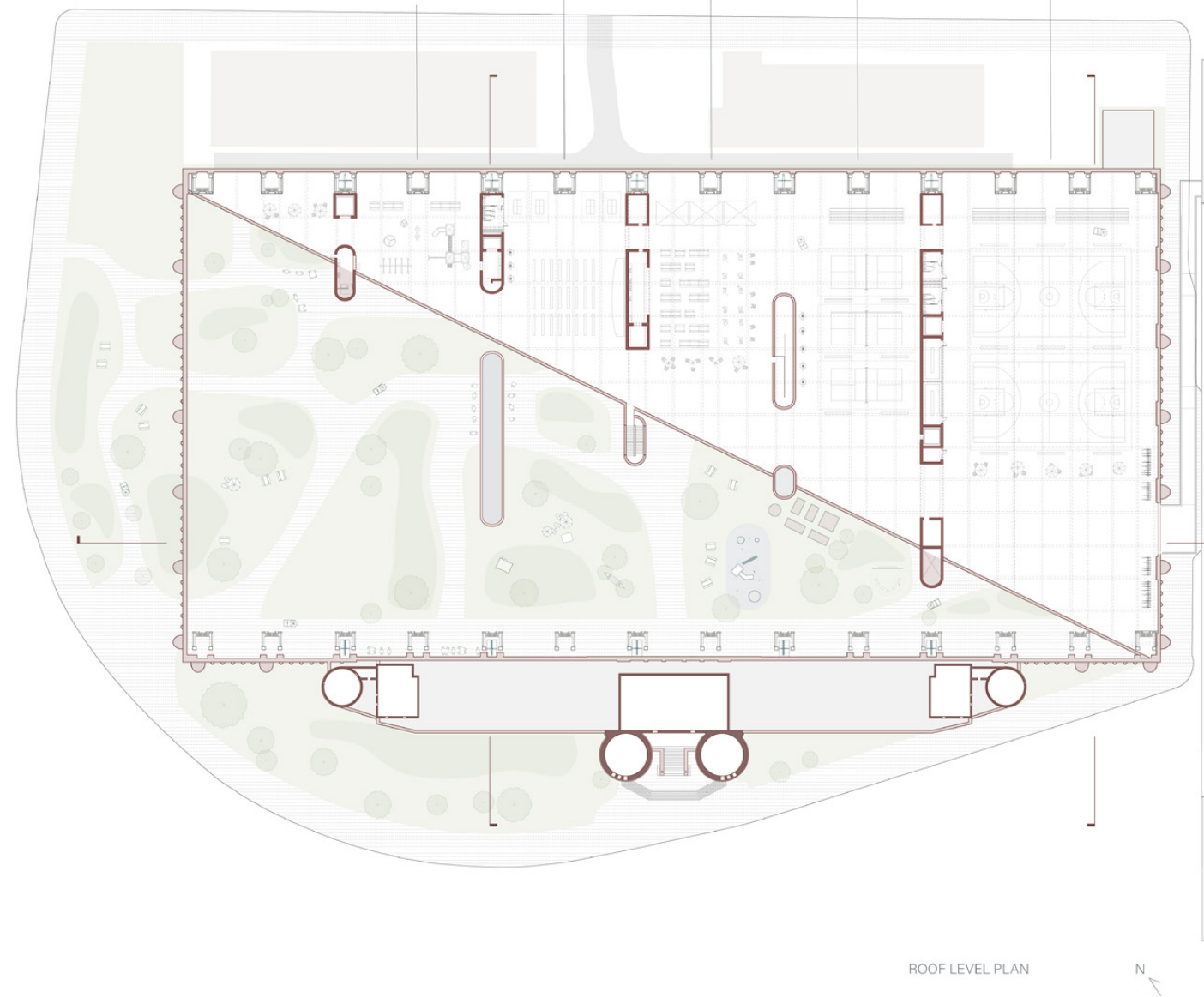
Section A Lucy Baird

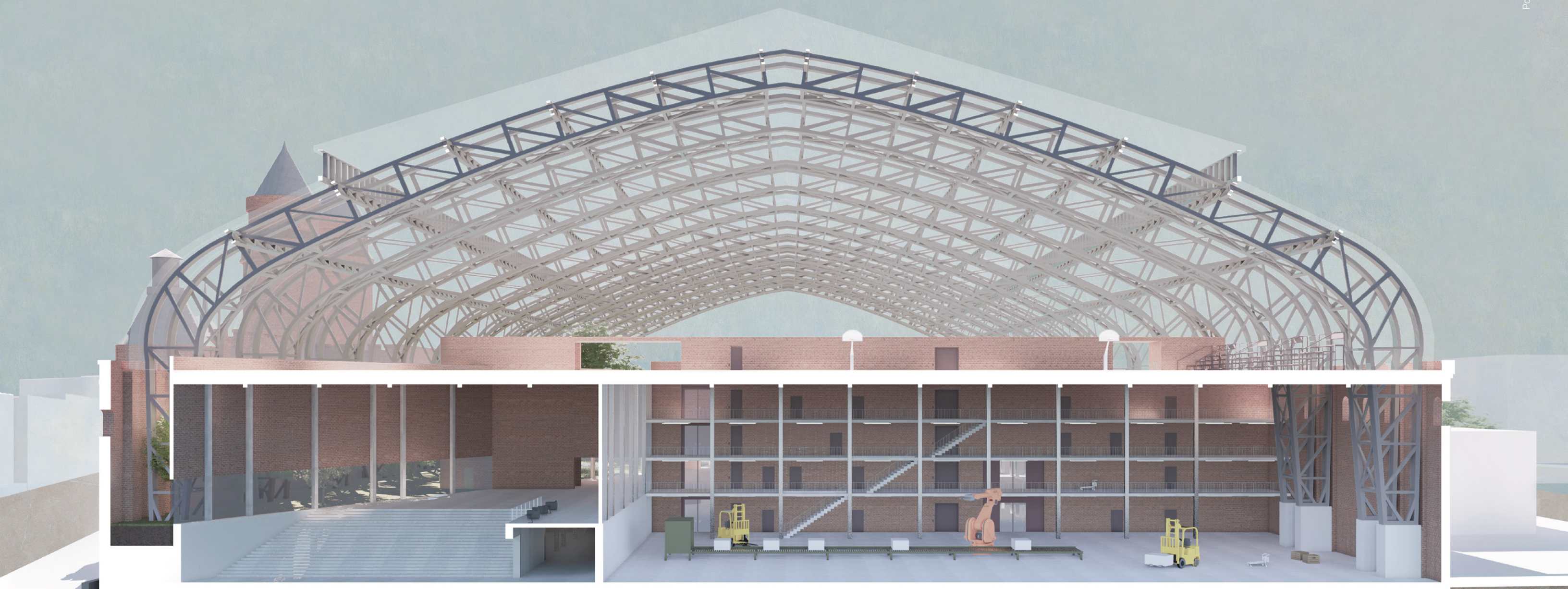
- L - 5 250 sqft**
 - medical center
 - greenhouse
 - exhibition space
 - offices
 - studio
 - gym
 - theatre
- XL - 25 000 sqft**
 - film studio
 - greenhouse
 - manufacturing
 - museum
 - offices
 - library
 - event venue
 - market
 - metal / wood shop
 - medical center



Plans Lucy Baird

- PLAY - 6 250 sqft**
 - swing
 - slide
 - monkey bars
 - see saw
 - meery go round
 - hopscotch
 - seat
 - table
- PLAY - 9 450 sqft**
 - chess
 - table tennis
 - theatre
 - seat
 - table
- EAT - 10 250 sqft**
 - market
 - restaurant
 - seat
 - table
- SPORT - 12 500 sqft**
 - pickleball
- SPORT - 24 000 sqft**
 - basketball





KINGSBRIDGE ROAD WEST

jerome st entrance

basement mazzanine access

- film studio
- greenhouse
- manufacturing
- museum
- offices
- library
- event venue
- market
- metal / wood shop
- medical center

XL - 25 000 sqft

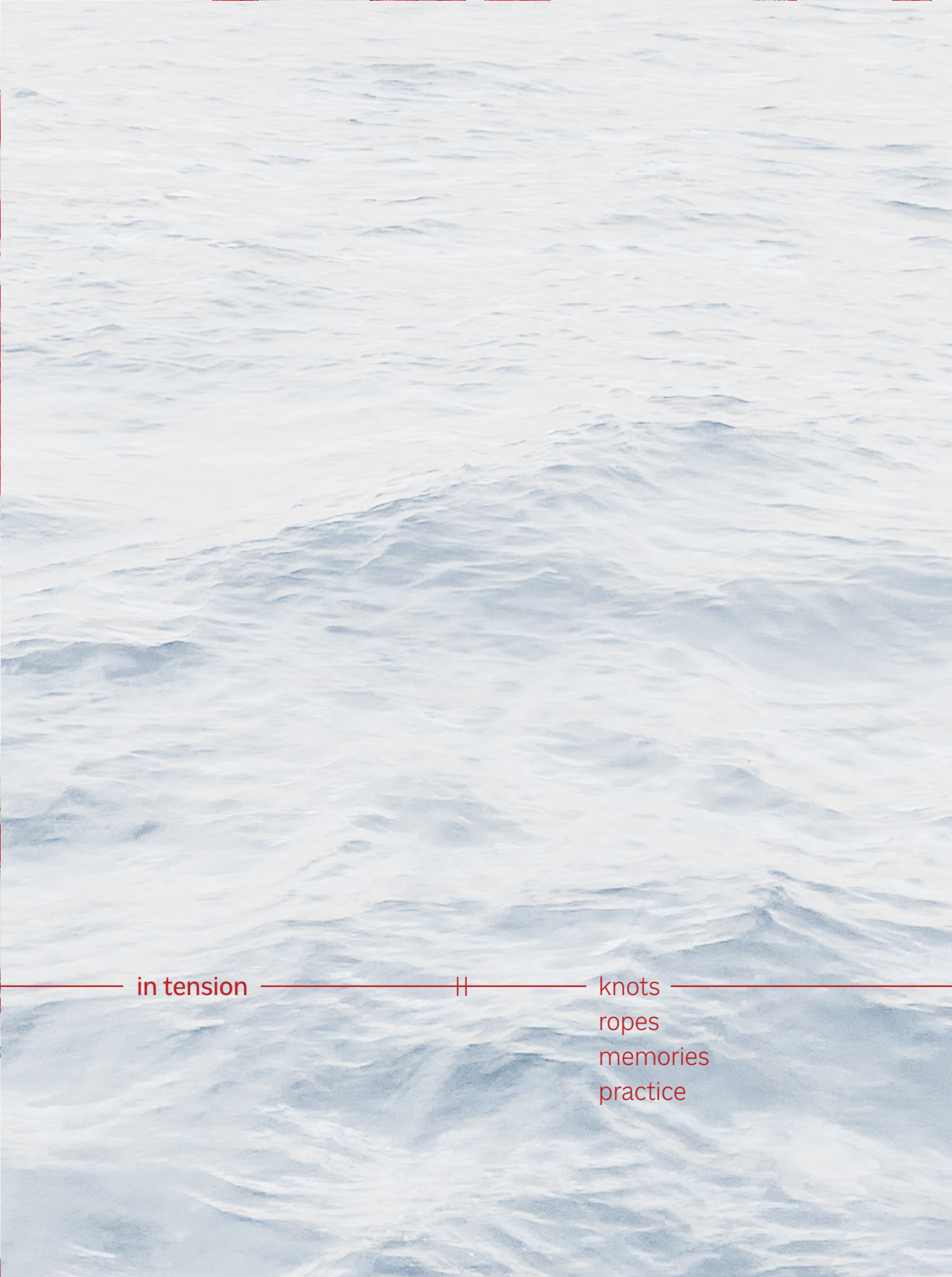
WEST 196th ST

Section B Lucy Baird



Renders Lucy Baird

Left existing armory wall, park entrance
 Center park fountain, seating
 Right gatehouse greywater park access



in tension



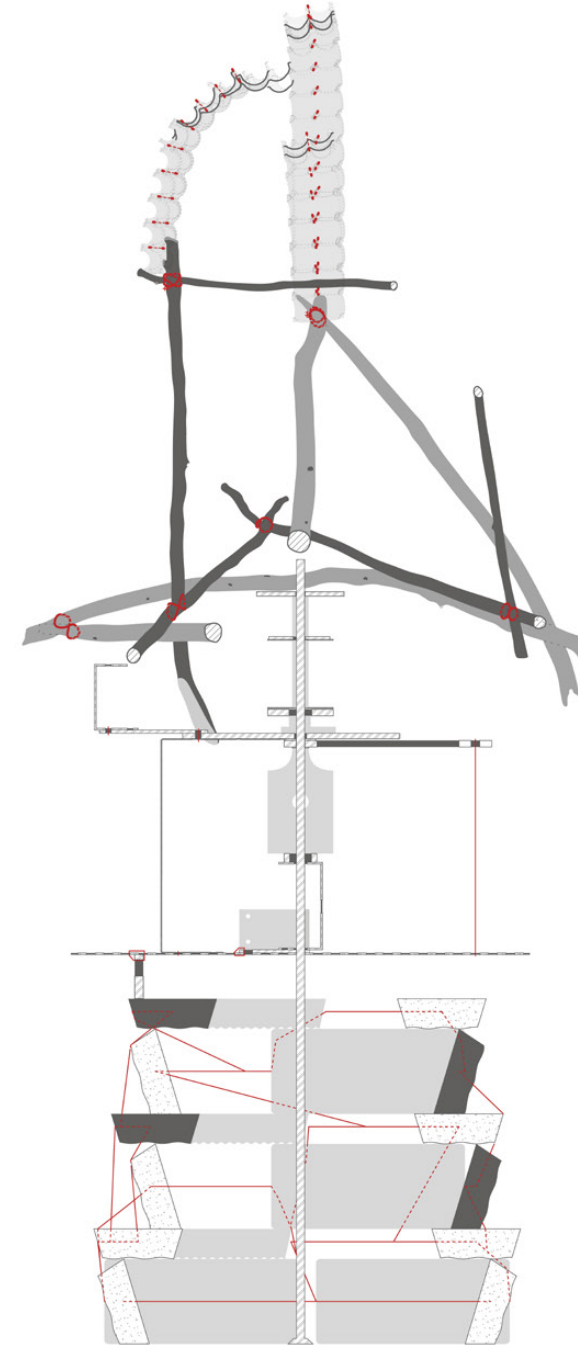
knots
ropes
memories
practice

This book

serves as a personal archive, a collection of photographs, maps, historical images, textures and forms of practice inherited through shared memories and lived experiences. From this, new images begin to form memories, somewhat hazy, overlapping, and perhaps impossible. These memories are my own, but they are also my father's, my grandmother's and my brother's. They have been relayed to me, passed down to me, and live within me. These memories come with embedded knowledge that have developed into a form of practice explored in the following work.

I have built

a collection of forms in tension. Through tension these forms are able to stand, albeit somewhat unstable. Tied together with rope and and fastened with knots, earth, metal, wood, and plastic, settle to form new spaces.



16

earth



17

makergraph

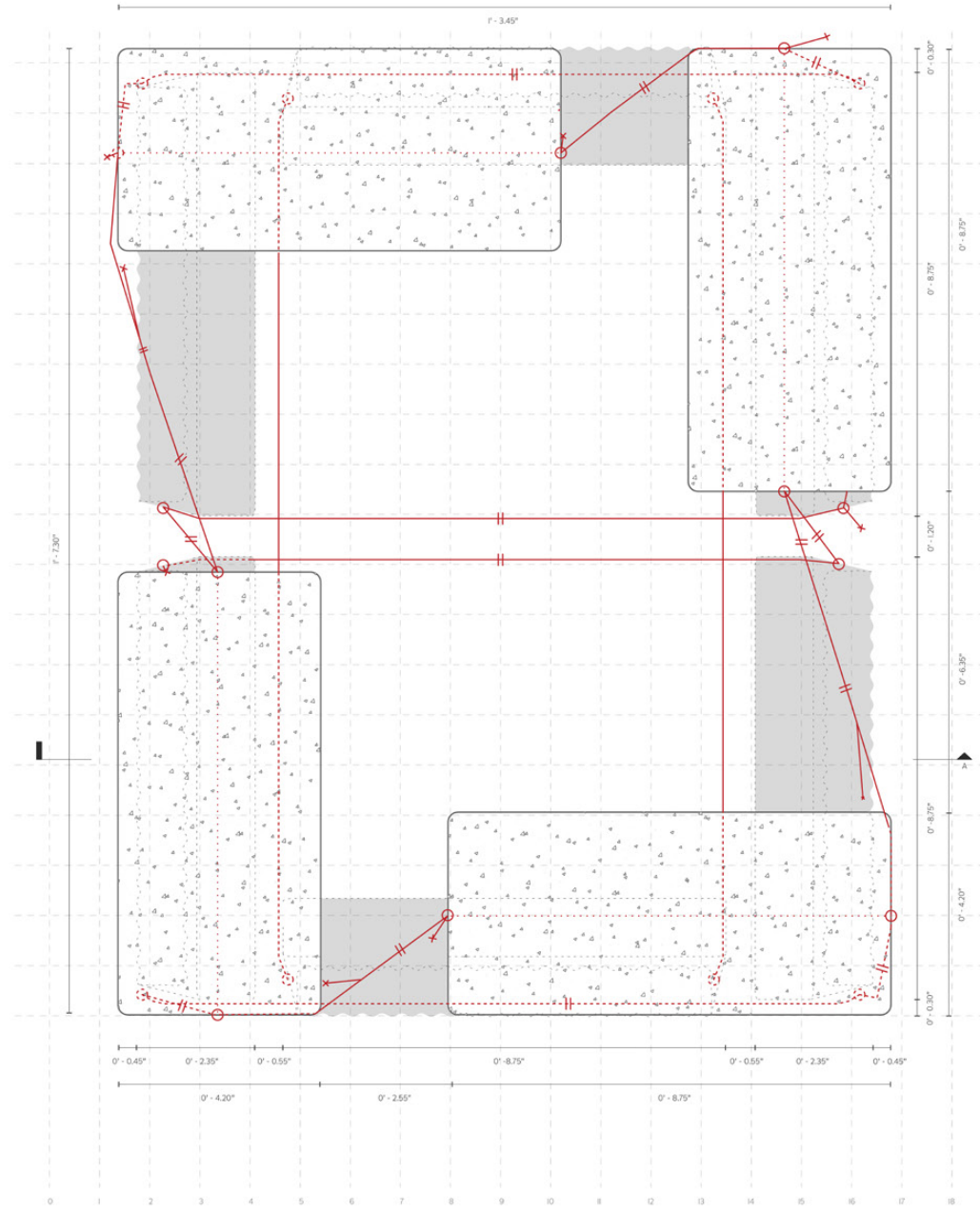
rockite [4 cups]
 water [1 cup]
 plaster [1 cup]
 sand [2 cup]
 string [2 feet]



rockite [4 cups]
 water [1 cup]
 sand [1 cup]
 asphalt [1 cup]
 nylon rope [2 feet]

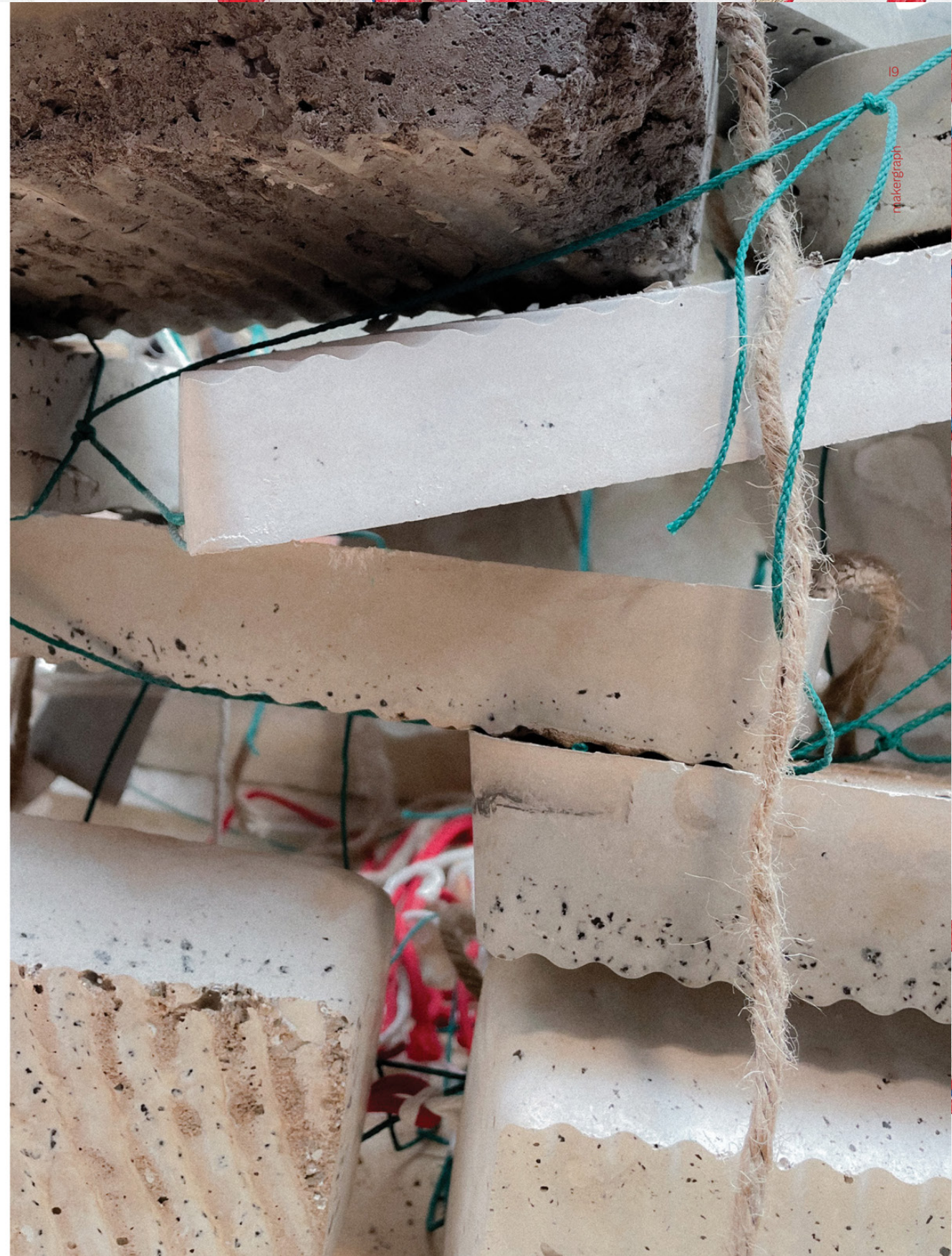
18

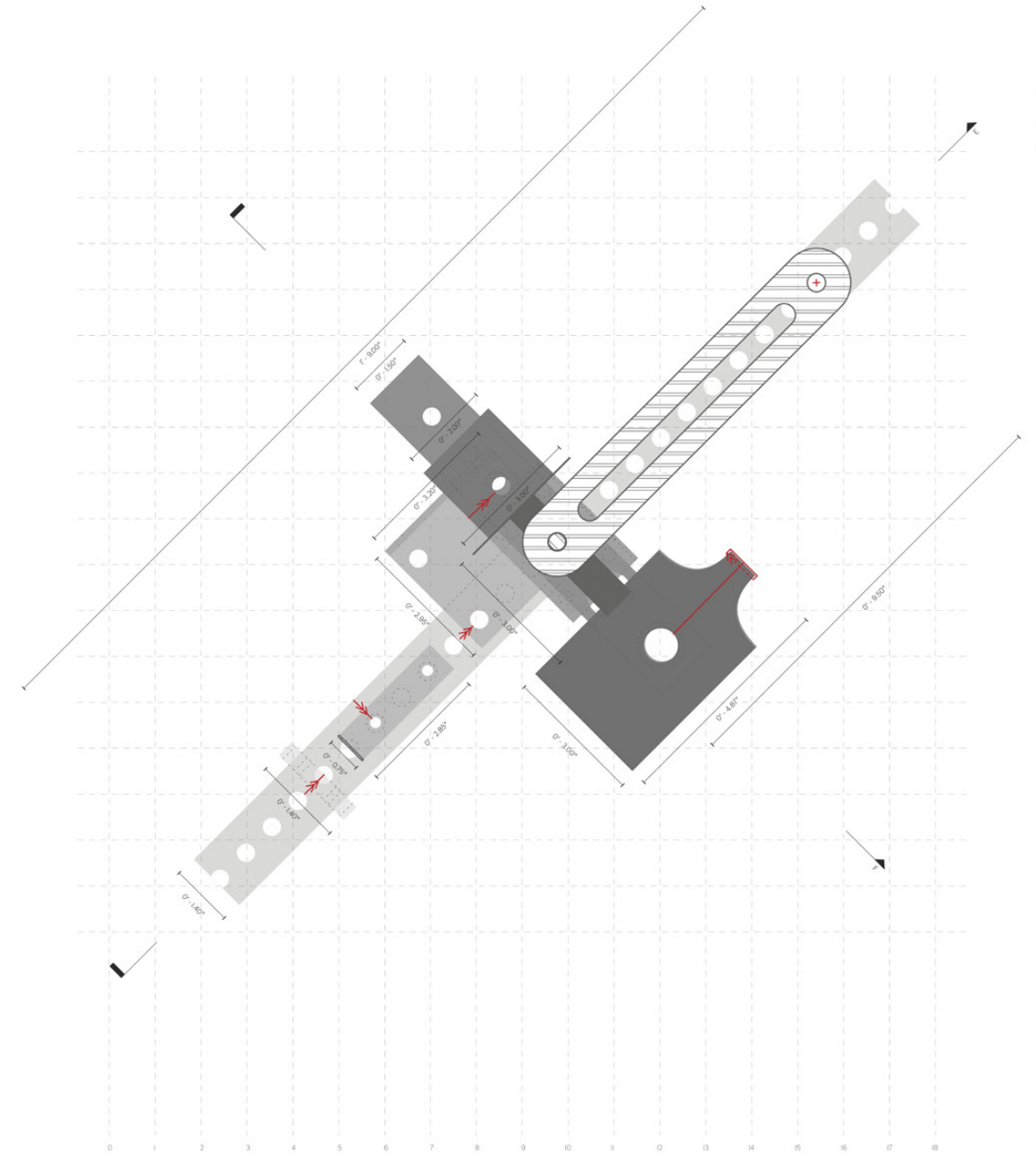
earth

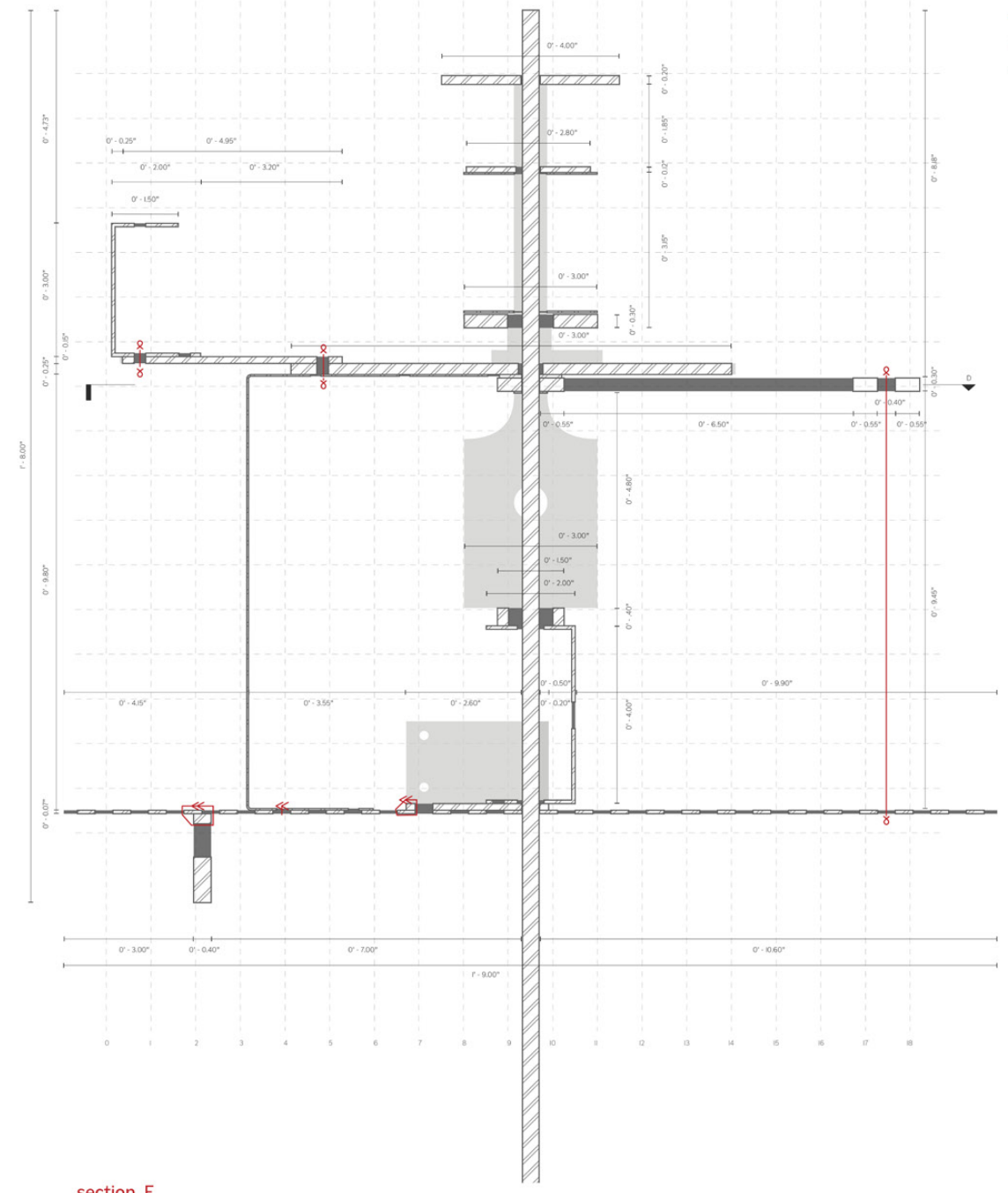


section B

connection
end
slip knot







section E

- overhand knot 
- reef knot 



52

memories

BYZIN

УЕЯЮУУУУУУУ

63

mapkgraph

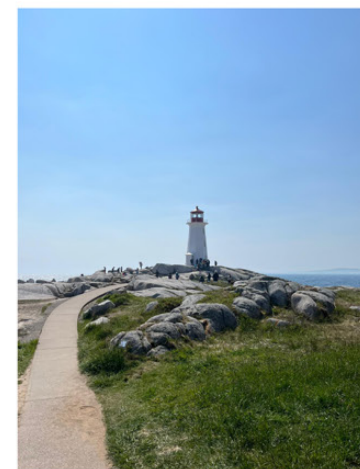
my own memories are formed through texture maps photographs drawings

layering upon each other creating places i may never go again, or have never been

left

Killocks - home made anchors made of large stones bound by whittled wood, held in place with larger crossing wood pieces at the base and rope.

Photographed by Robert Norwood, 195-, Portugese Bay, Nova Scotia.



top left

Crew member coiling rope on the deck of S/V Maraval, 1938.

top right

Lighthouse, Peggy's Cove, Nova Scotia.

bottom left

Hare Bay, Newfoundland.

bottom right

Sand after the tide has gone out, Bras D'Or Lakes, Nova Scotia.



72

memories

but if a story is retold so many times, does my mind fill in the blanks with color and texture to render it reality?

do i trust my own memories?

or do they belong to others and passed down to me through forms of practice

73

makergraph



right
Slip Knot - ||

Can be used in two different scenarios. The first is using one rope to form a loop, allowing for the not to enclose and tighten onto an object and can be easily released by pulling on the loose end of the rope. The other is to attach one rope to another, allowing for the knot to be slid along the length of the second rope, and can be tightened as needed.

The slip knot is commonly used when attaching buoys to the life line of a vessel, allowing for the buoys to be slid along for ease of placement, and rapidly removed when necessary.



right
Reef Knot - ^

Used to secure two lines or the ends of one line together. The name originates from it's common use for the reefing line on a sailboat. A reefing line is used to drop, most commonly, the mainsail in order to reduce sail area and gain control over the vessel.



112

memories

113

makergraph

Portfolio 2024



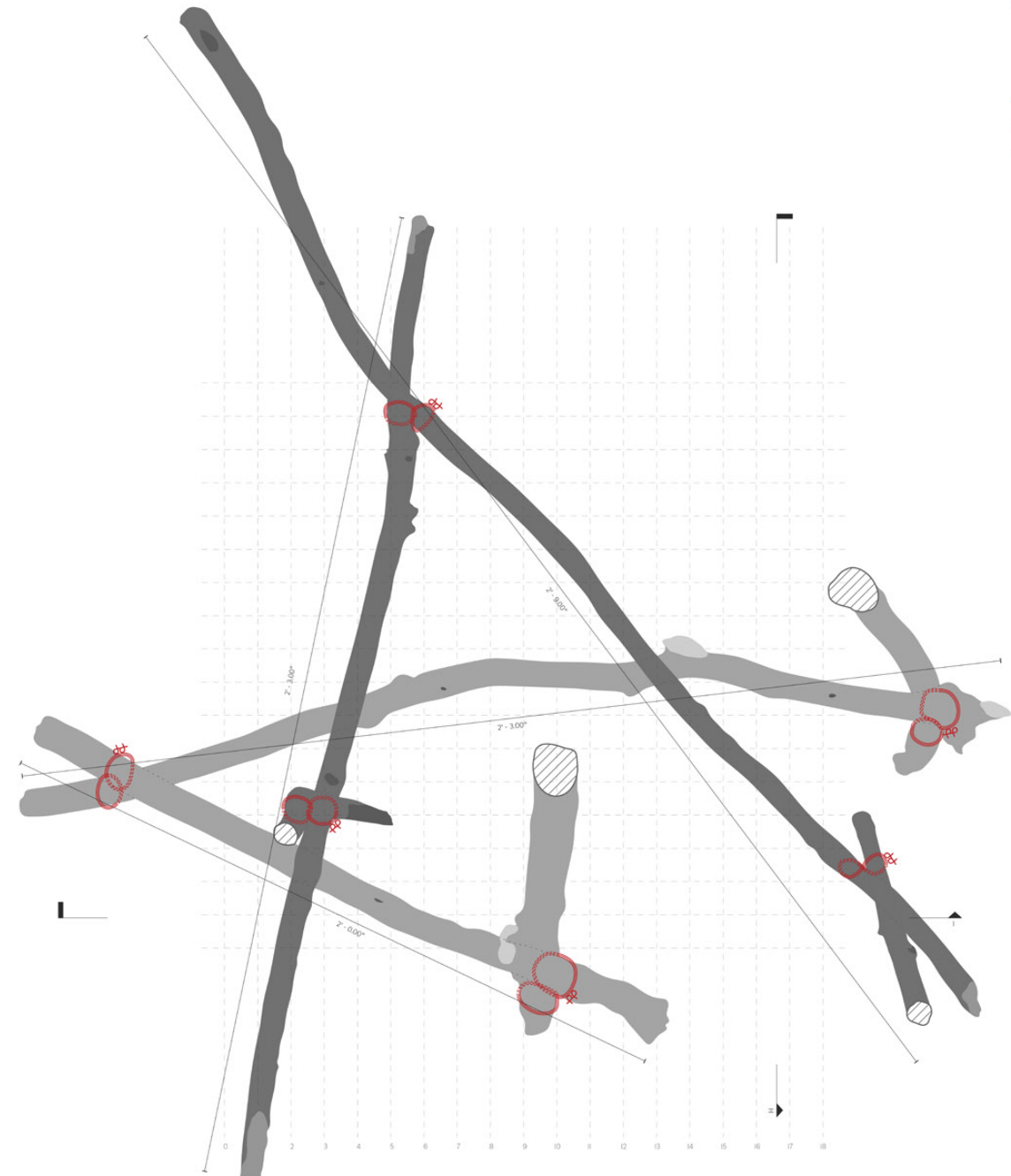
124

wood



125

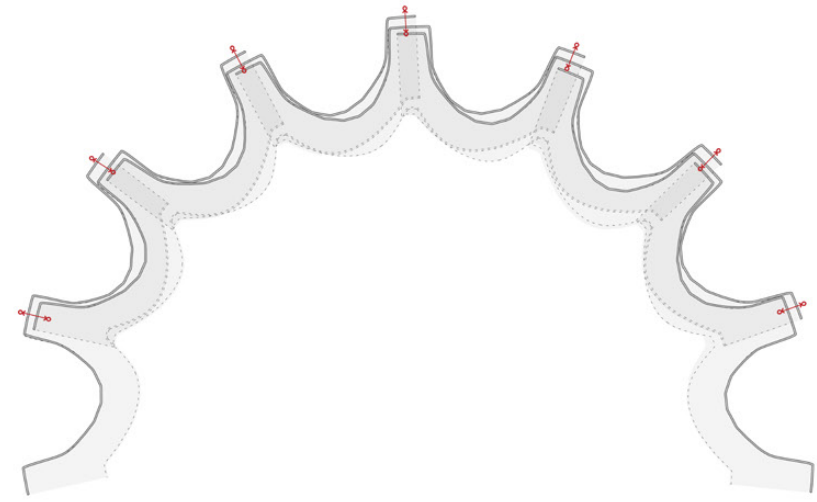
makergraph



section G
 half-hitch knot 

146

plastic



typical construction
overhand knot 

147

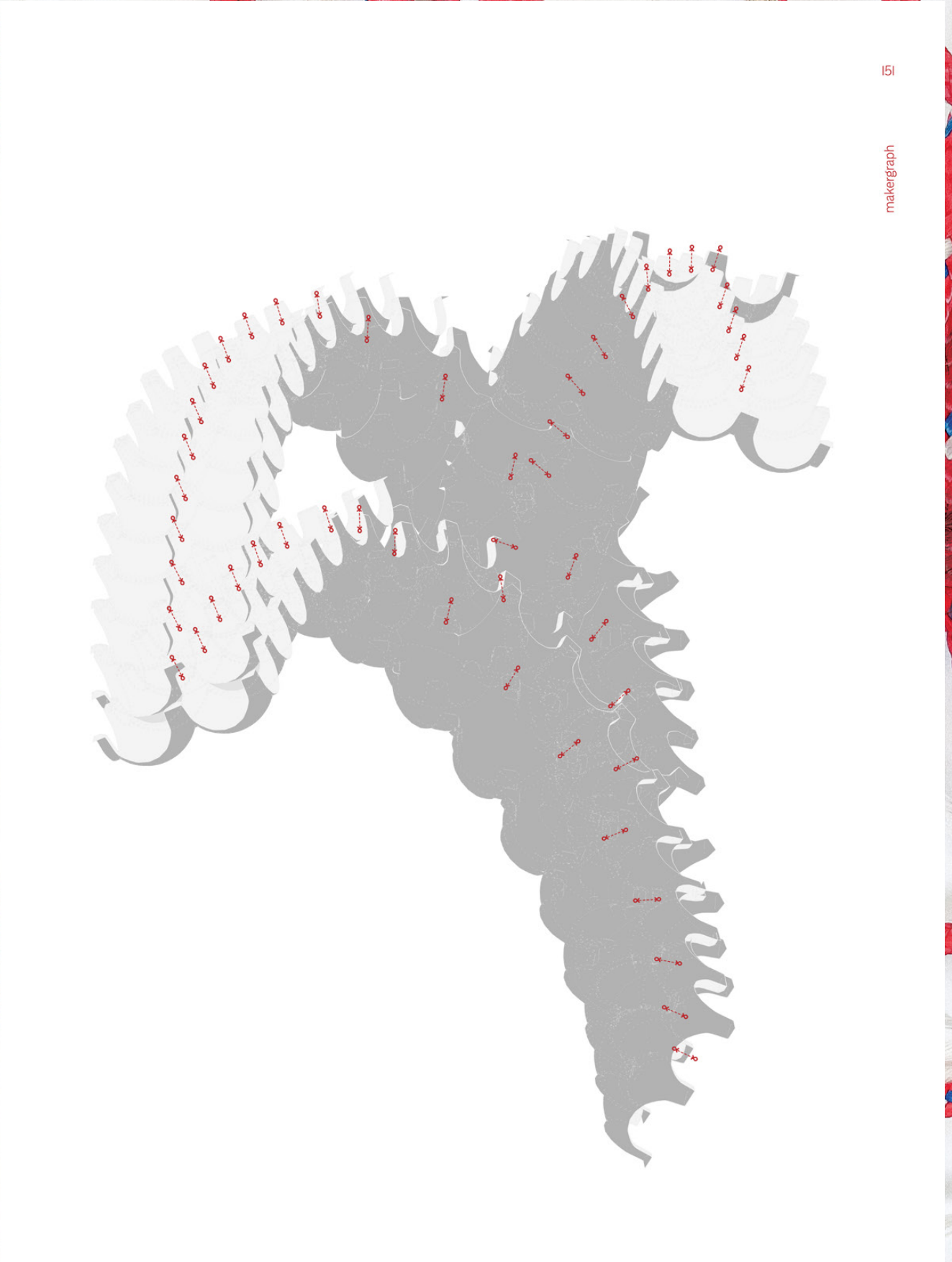
makergraph





50

plastic



151

makergraph

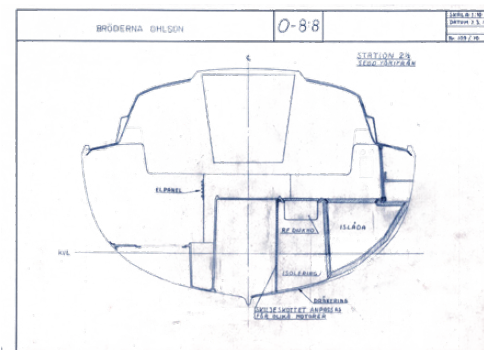


GSAPP	Columbia University
Makergraph	Spring - 2024
Lucy Baird	Drawings Photographs Knots Editing
Critics	Ada Tolla Giuseppe Lignano
References	The Rooms Provincial Archives Memorial University





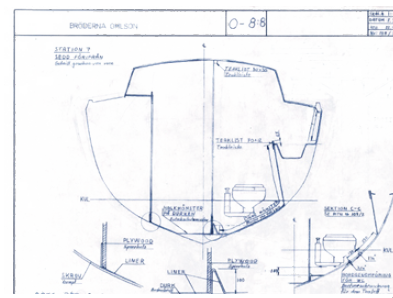
1



2



3



4



5



6



7

References

- 1 Amagansett Life-Saving & Coast Guard Station Museum. n.d. 1880 Amagansett Life-Saving Station. Photograph. <https://www.amagansettlss.org/history/>.
- 2 Ohlson Yachts. 0-8:8, Station #2.5. March 1, 1971. Drawing. http://register.veteranbatsarkivet.se/IMG/Uploaded-Files/20200922145234MSF_20_2_088-0039.jpg.
- 3 Kadinsky, Sergey. Jerome Park Reservoir. n.d. Photograph. <https://hiddenwatersblog.wordpress.com/2017/01/05/jeromepl/>.
- 4 Ohlson Yachts. 0-8:8, Station #7. March 1, 1971. Drawing. http://register.veteranbatsarkivet.se/IMG/Uploaded-Files/20200922115154MSF_20_2_088-0028.jpg.
- 5 Nova Scotia Archives, Robert Norwood, 1987-480 no. 421 Archibald, Stephen. "Killicks." Noticed in Nova Scotia, February 26, 2015. <https://halifaxbloggers.ca/noticedinnovascotia/2015/02/killicks/>.
- 6 Coleman, Fred. Hoyt Pease climbing the rope ladder on board Strathcona II. n.d. The Rooms. http://gencat.eloquent-systems.com/therooms_permalink.html?key=69608.
- 7 Coleman, Fred. Crew member coiling rope on deck of Maraval. n.d. The Rooms. http://gencat.eloquent-systems.com/therooms_permalink.html?key=56481.

BOOK.pdf

BOOK.pdf

Portfolio 2024
Lucy Baird | M.Arch

Thank you to my professors, without their dedicated time and guidance this portfolio would not be possible.

To my friends and collaborators, thank you for the laughs, the coffees and the helpful nudges along the way.

To my parents, none of this would be a reality without your love and support, thank you.

Portfolio 2024

Lucy Baird

M.Arch, Columbia University, 2024
Graduate School of Architecture, Planning
and Preservation

H B.Arts, University of Toronto, 2021
John. H Daniels Faculty of Architecture
Landscape and Design

(917) 704- 8420
lucymbaird@gmail.com