some work

Nayef Alsabhan

M.ARCH 2022

GSAPP

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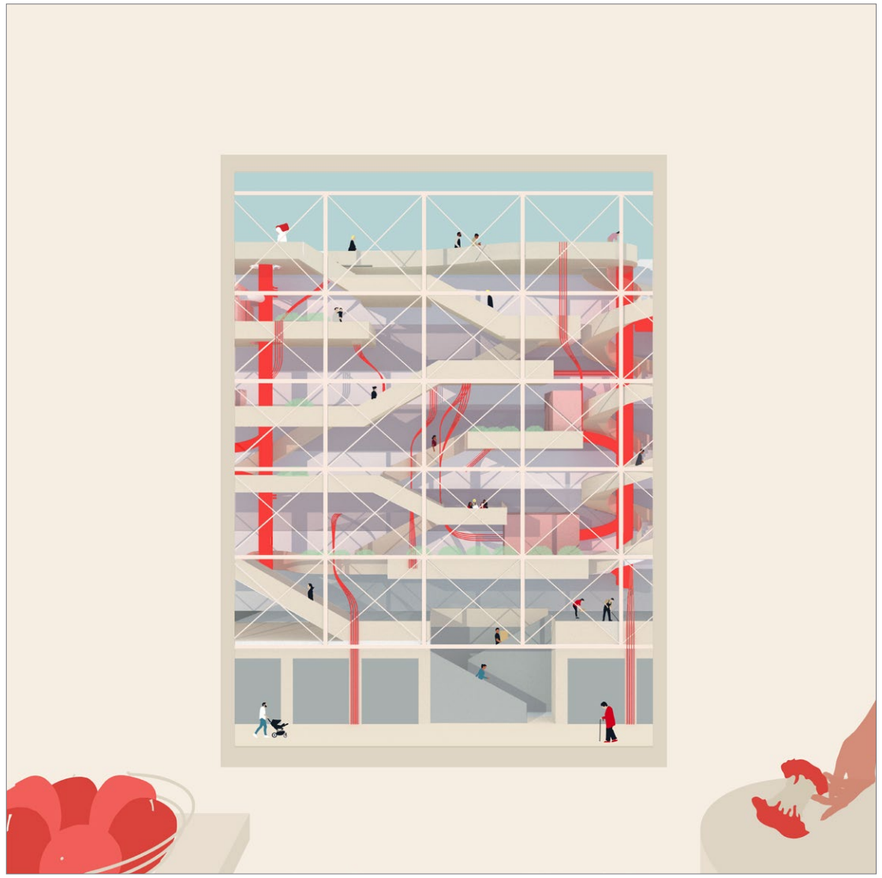
*Project was done during virtual semester

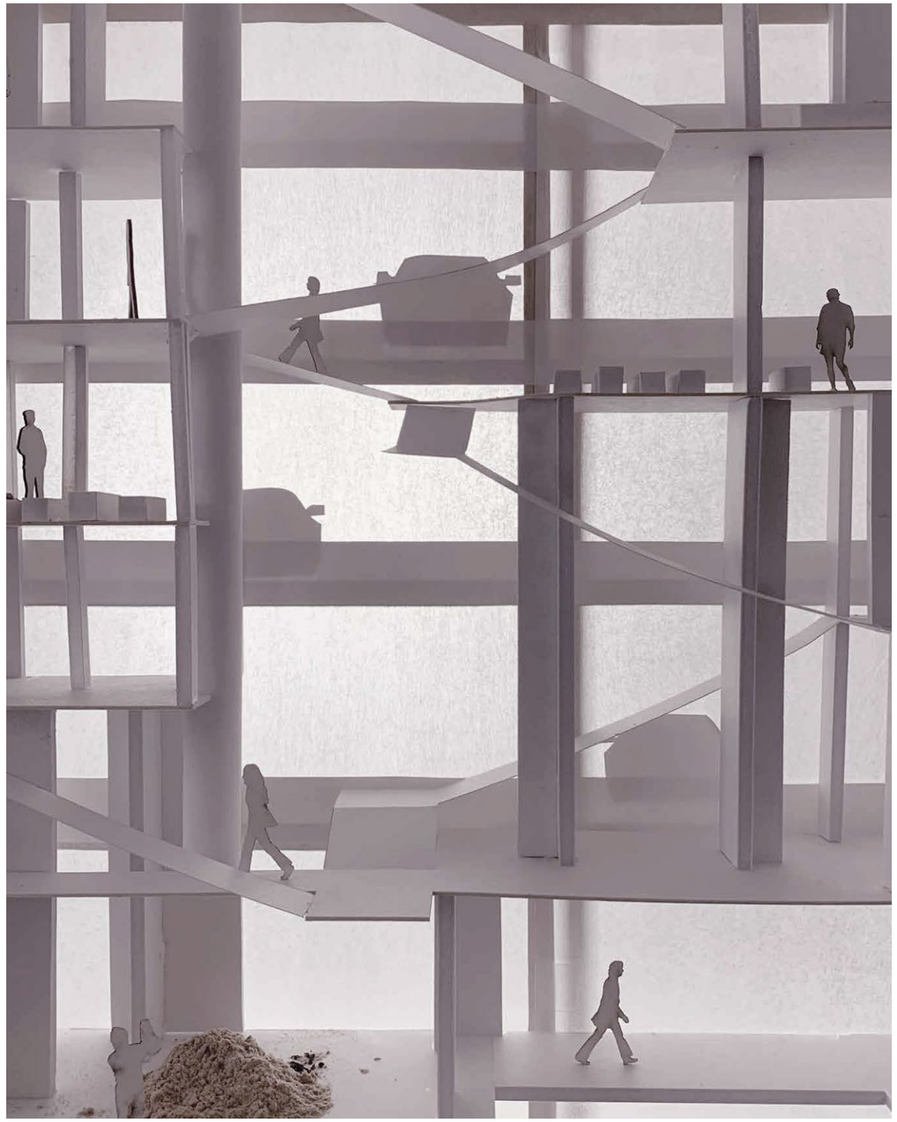
SUPRASTRUCTURE

Core I Studio Framework / Agency-Space Instructor: Jaffer Kolb 2019

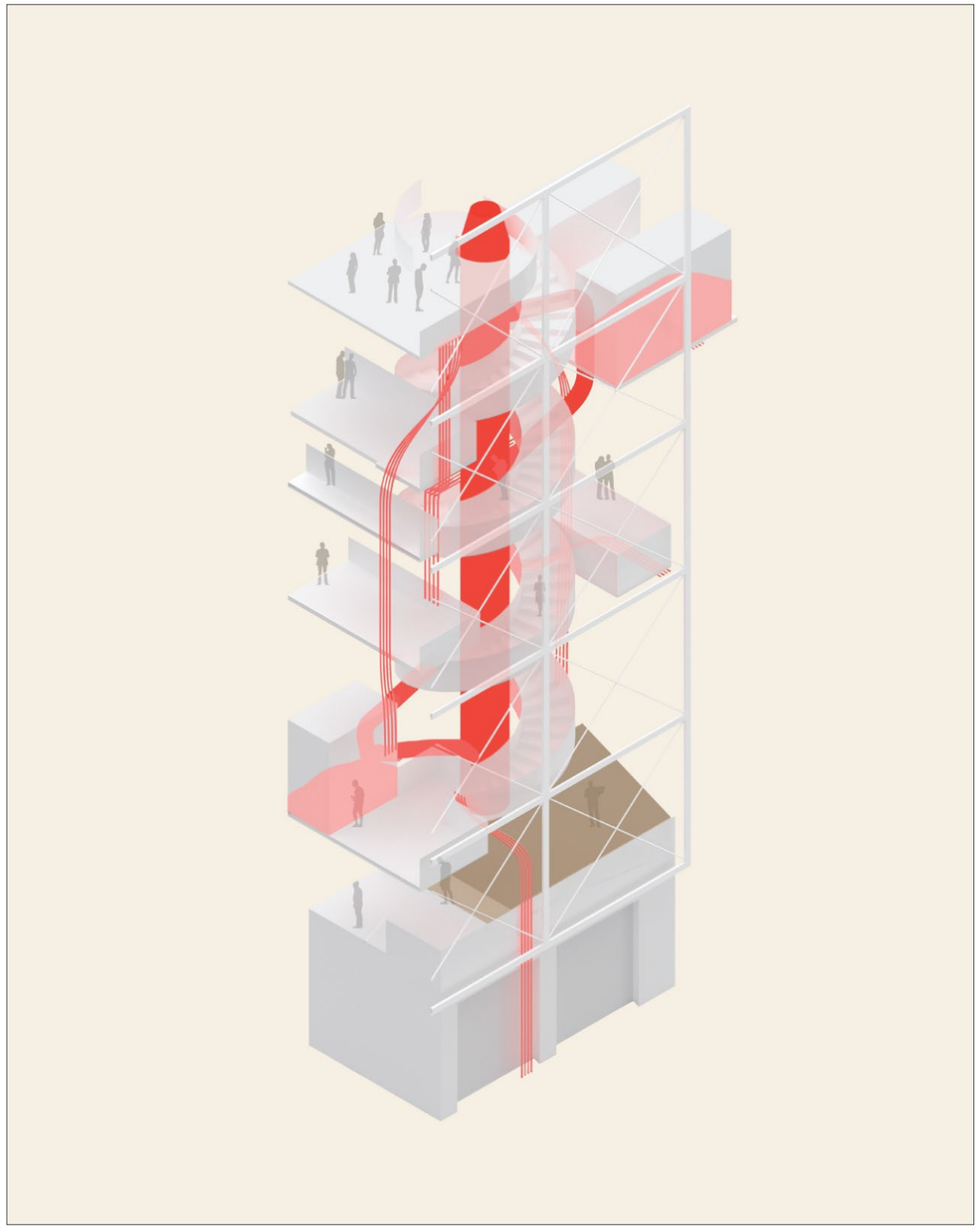


By examining potential overlaps between different city departments in New York, new spaces emerge.

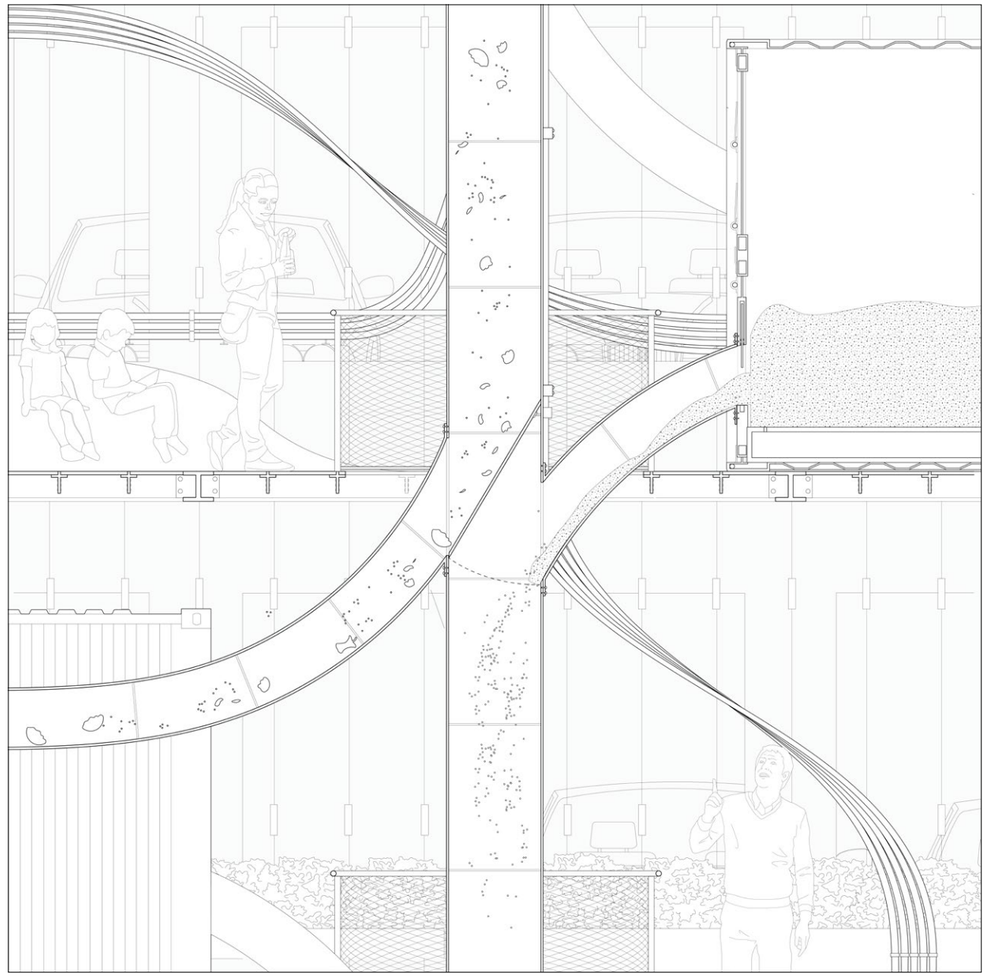
Many NYC Department of Transportation parking garages have articulated facades. But their needlessness for thermal comfort systems allows for a Department of Sanitation community composting system



The intervention occupies a thin (12') stip facing Broadway where neighbors can deposit compost at the top and collect soil at the bottom



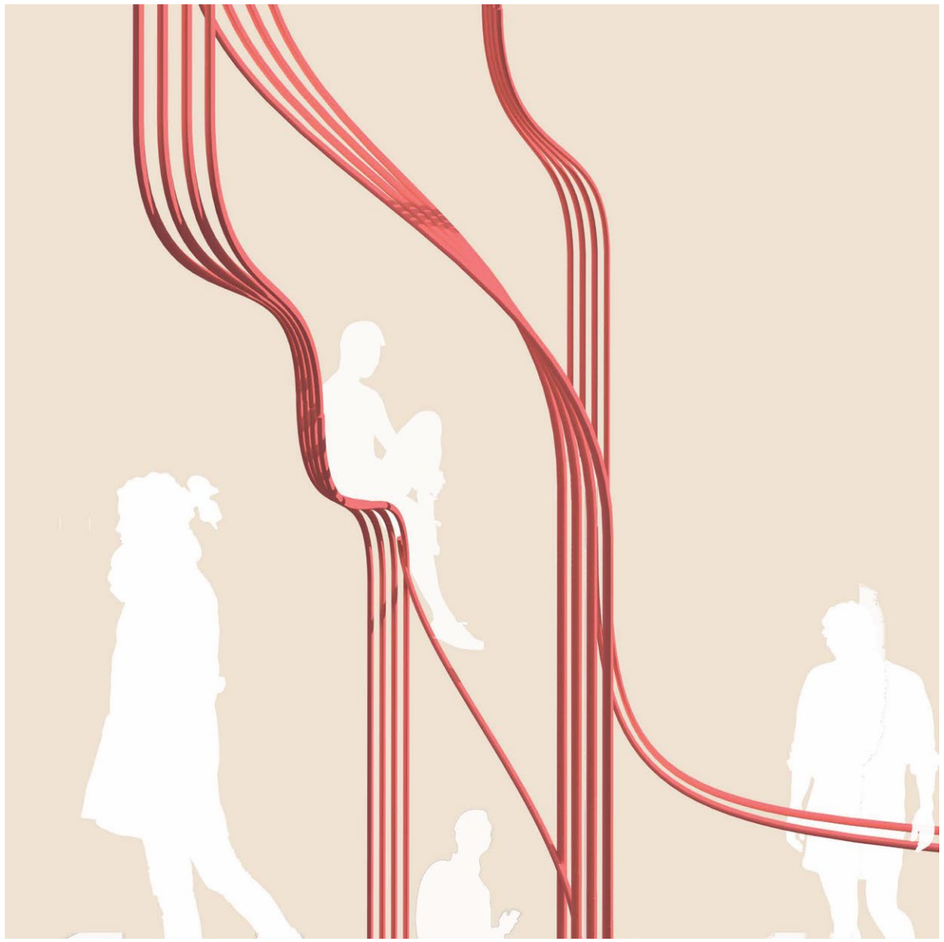
SUPRASTRUCTURE



Public spaces are scattered throughout the structure along side aerobic containers which breakdown waste

SUPRASTRUCTURE

Muriel Eukeles's work framed the actions of sanitation as artistic performance. The language of the infrastructure operates the same way. Rather than being hidden, it is used to define space and takes on an ornamental quality.



SUPRASTRUCTURE

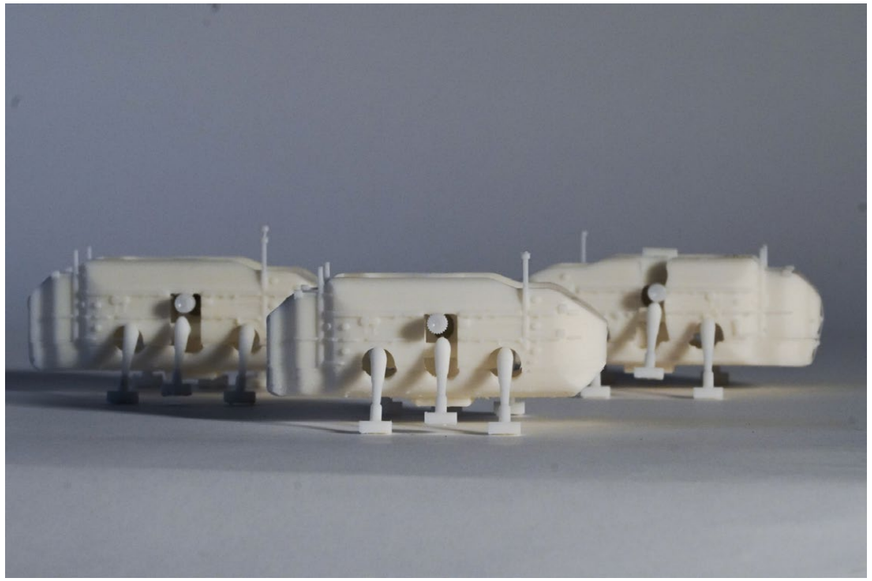
SUPRASTRUCTURE

SUPRASTRUCTURE

SUPRASTRUCTURE

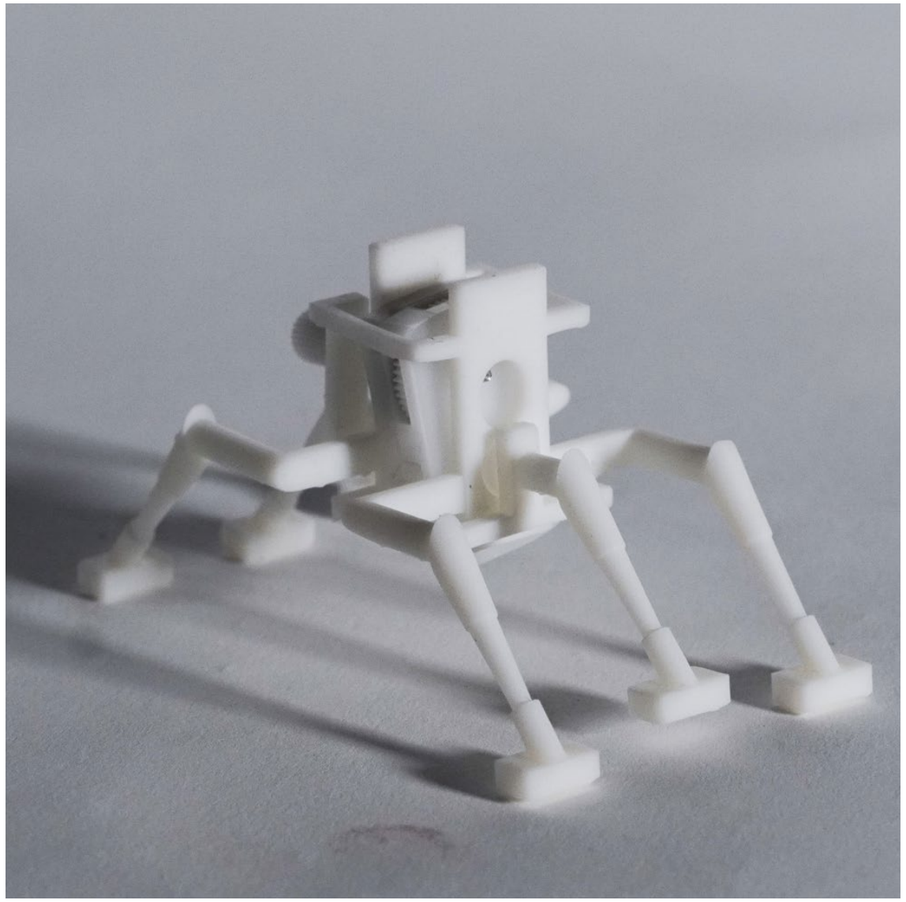
Itty Bitty Walking City

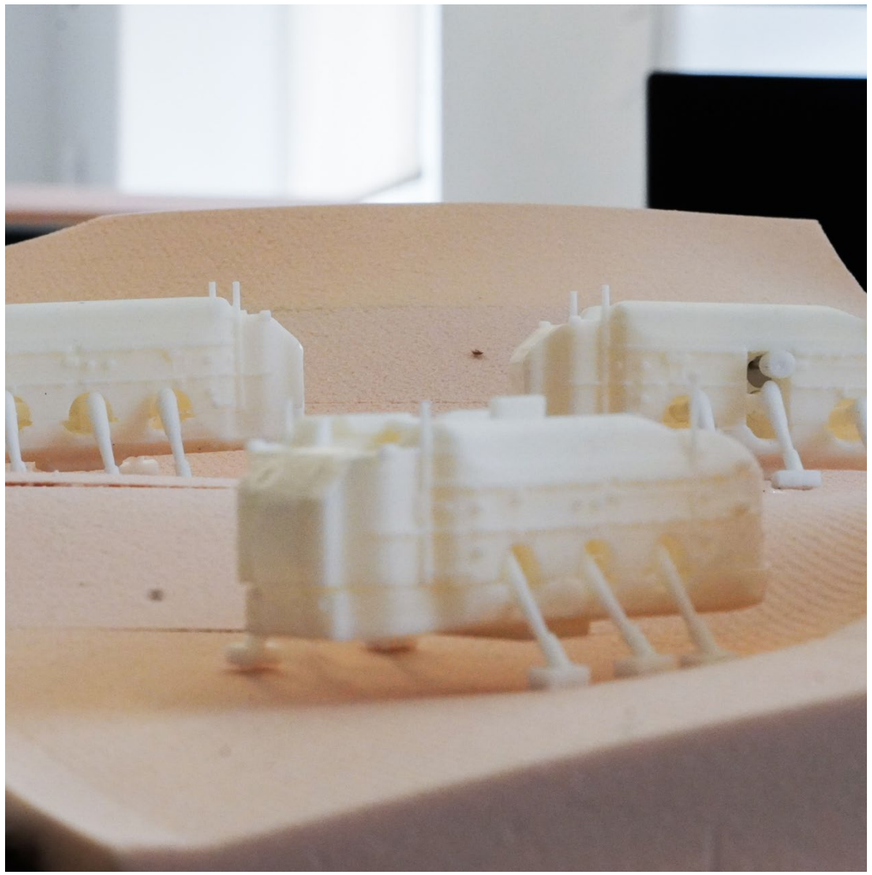
Architectural Drawing & Representation TA: Sarah Zamler 2019



The scale of speculative architectural solutions has shifted to microscopic levels. These images attempt to re-explore Archigram's Walking City at smaller scales.

3D printed legs are attached to wind-up motors extracted from children's toys. The contraption allows the models to move



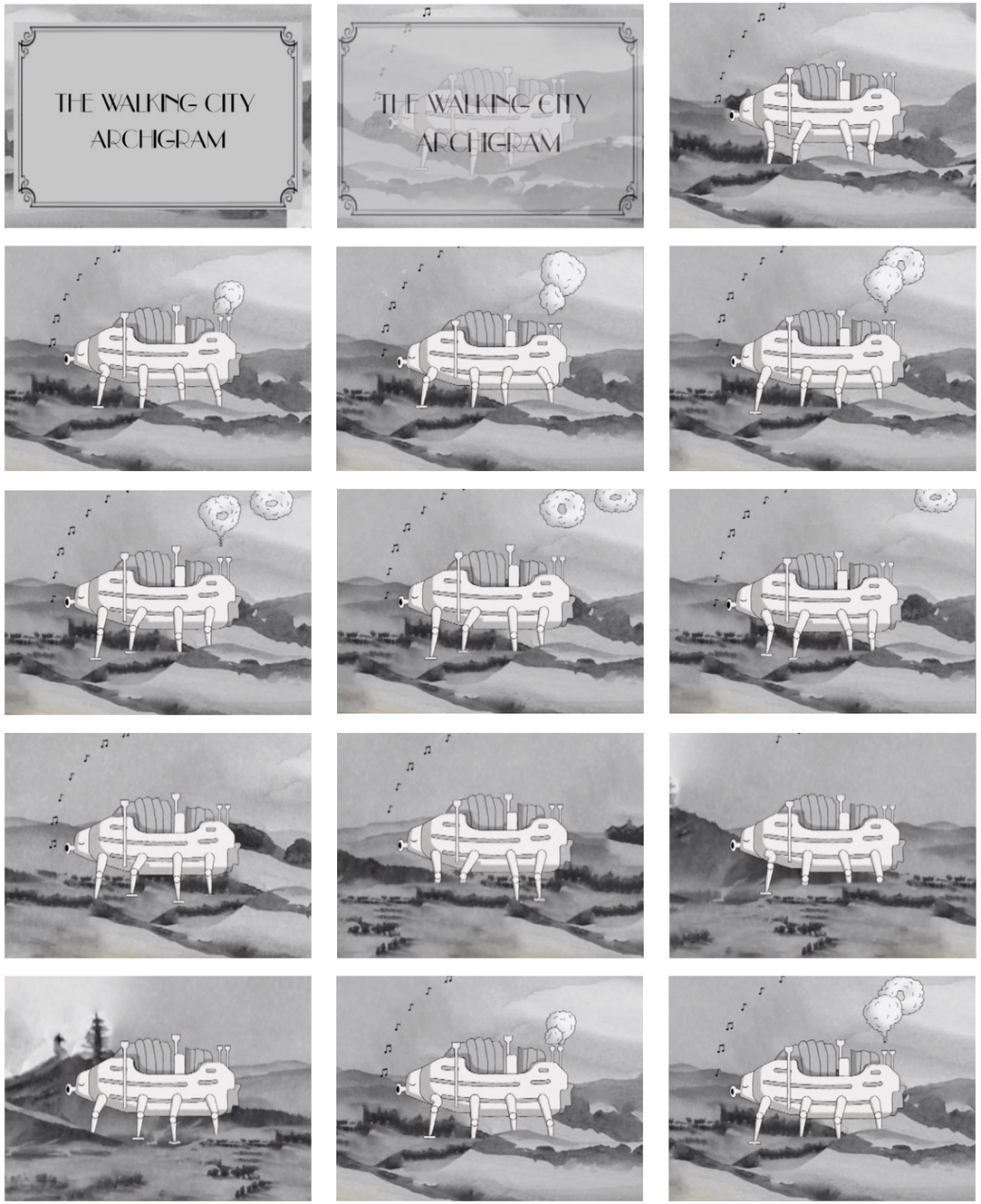


Itty Bitty Walking City

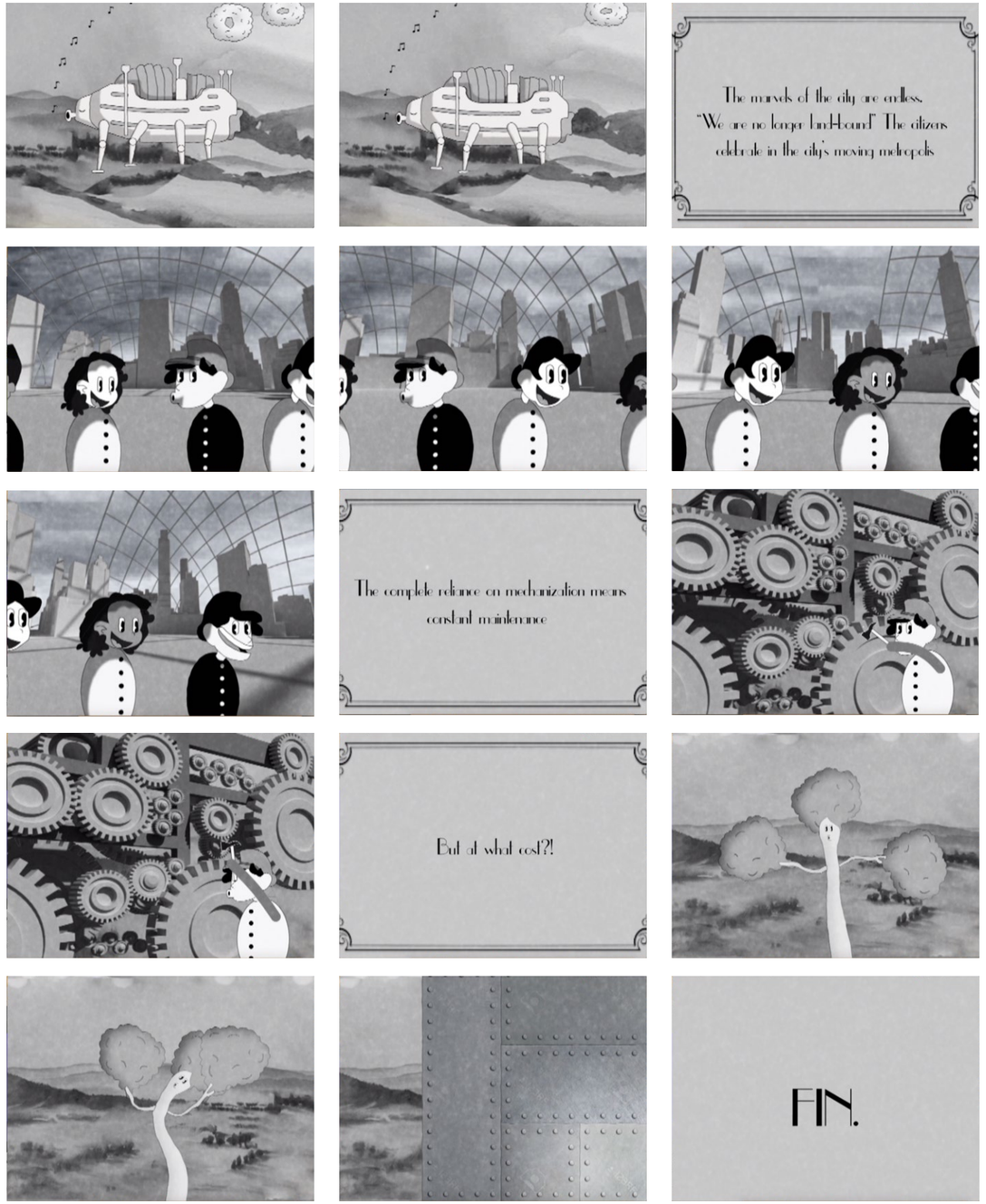
Walking Cities Invade Avery!

The cities moved across all terrains

Itty Bitty Walking City



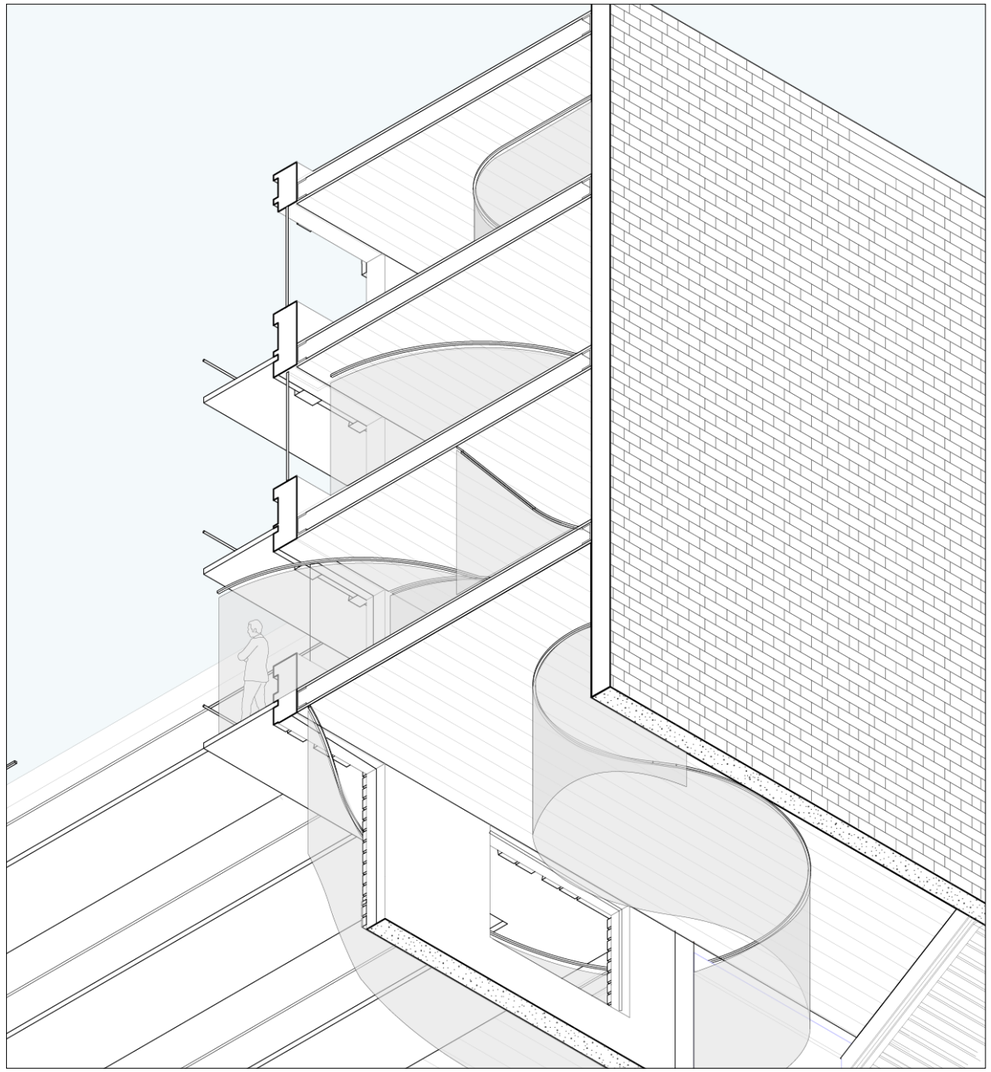
Frames from animation



Old School

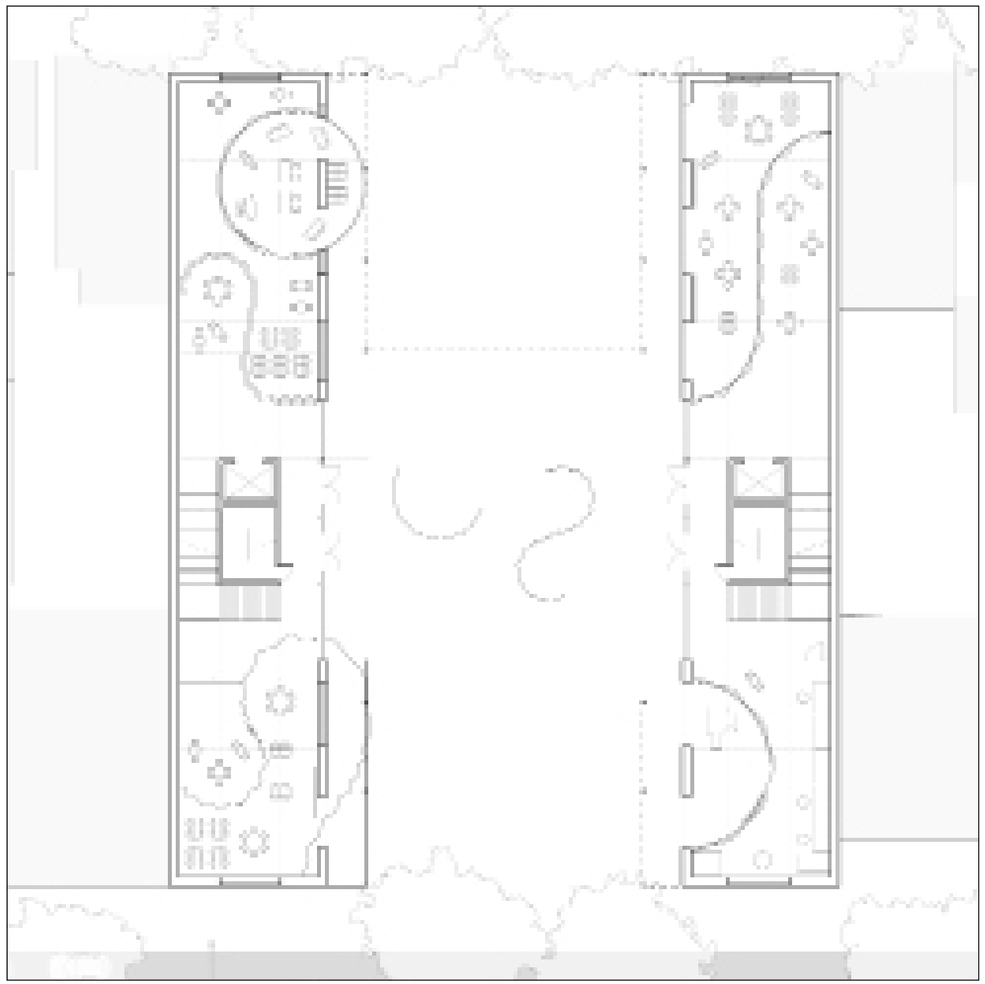
Core II Adaptation Instructor: Daisy Ames 2020

Continually evolving pedagogies often come into conflict with the architecture of schools. The kind of learning and teaching taking place in this school is oriented around performing arts.

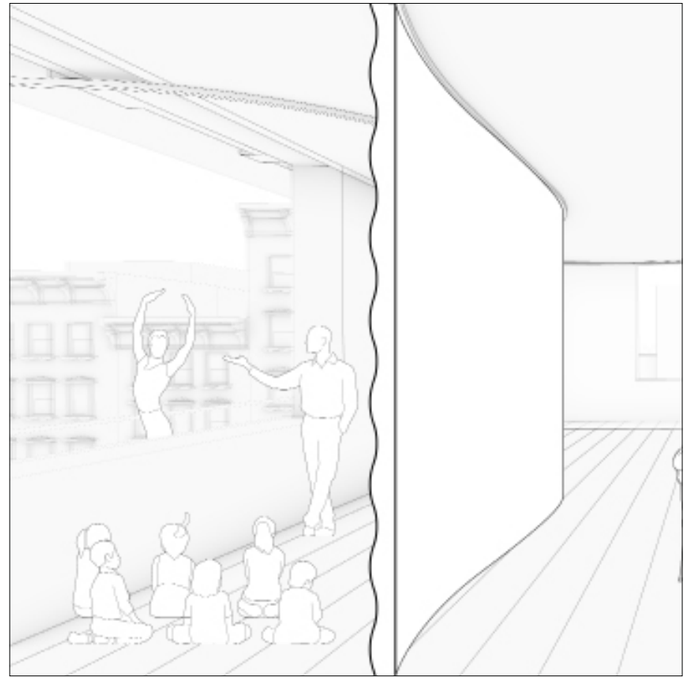


The school is oriented around performing arts. A ceiling scape of curtains is deployed to allow for flexibility in program

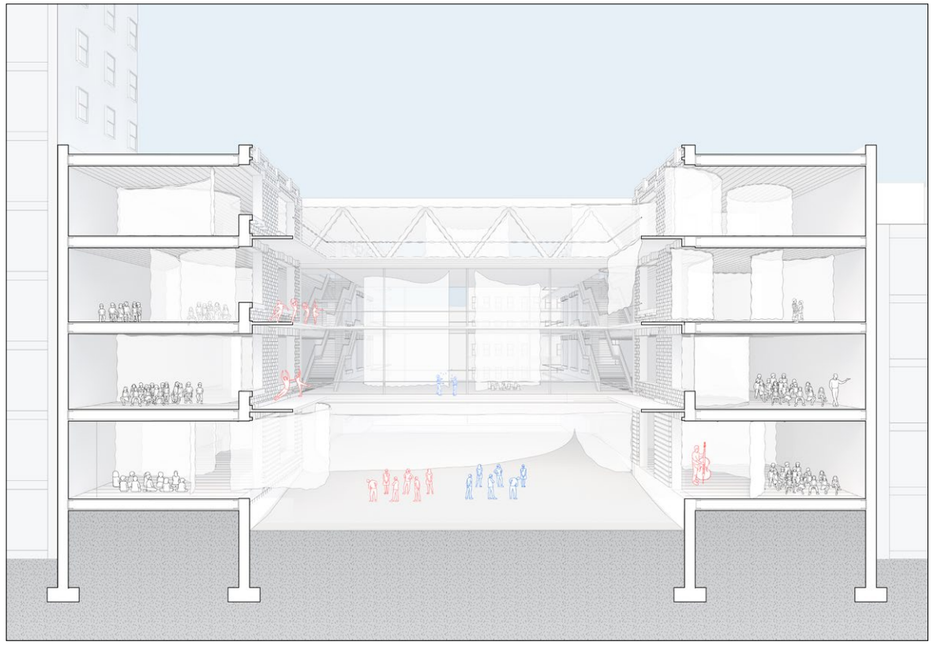
The school takes on the definition of "building" in the way that rooms can change opacity, sizes, and characteristics



Old School

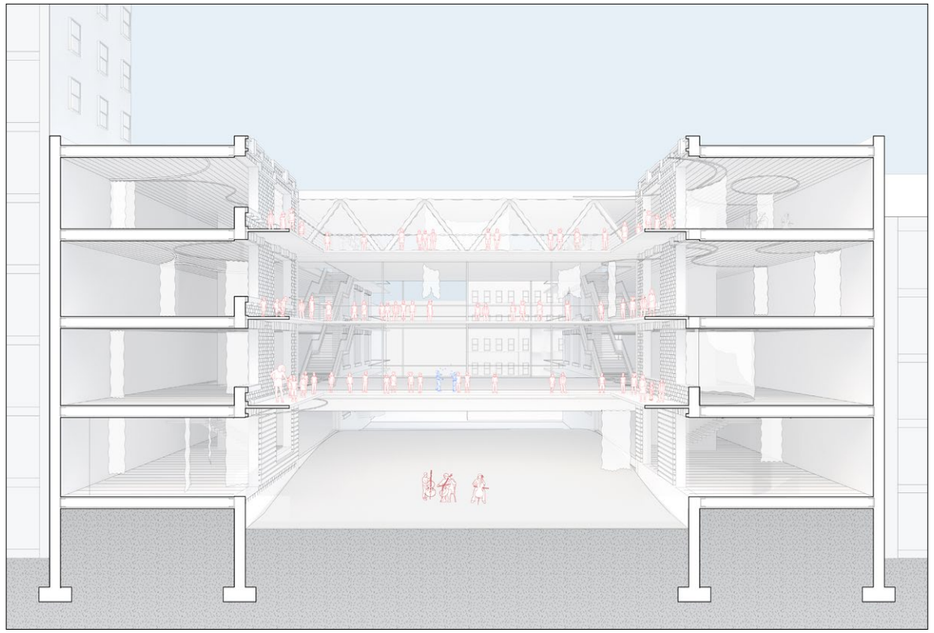


Old School

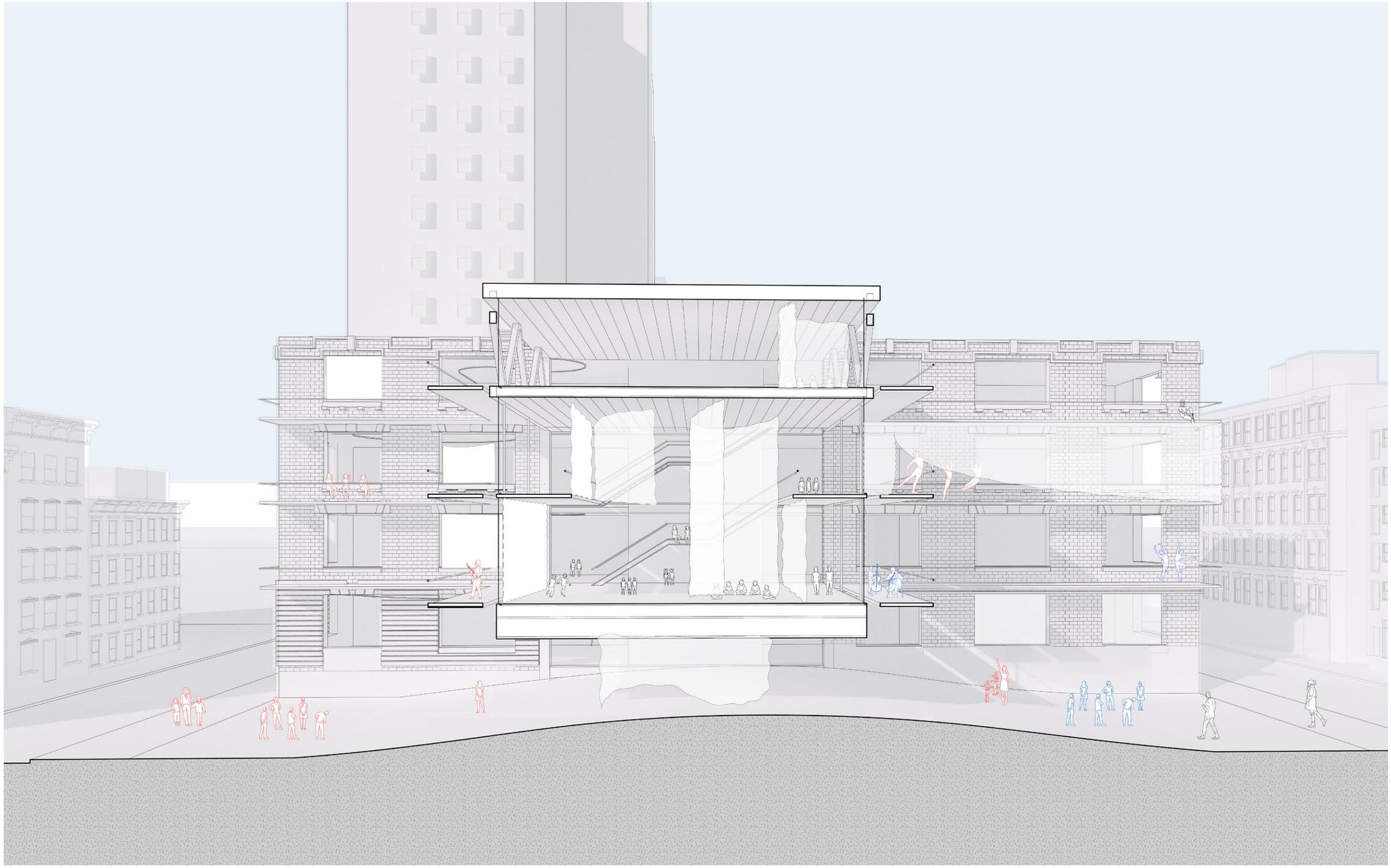


All made possible through the design of various curtains with a range of acoustic, transparent, translucent qualities.

These curtains can create and dismantle new interactions throughout the interior spaces of the building,



Old School



Old School

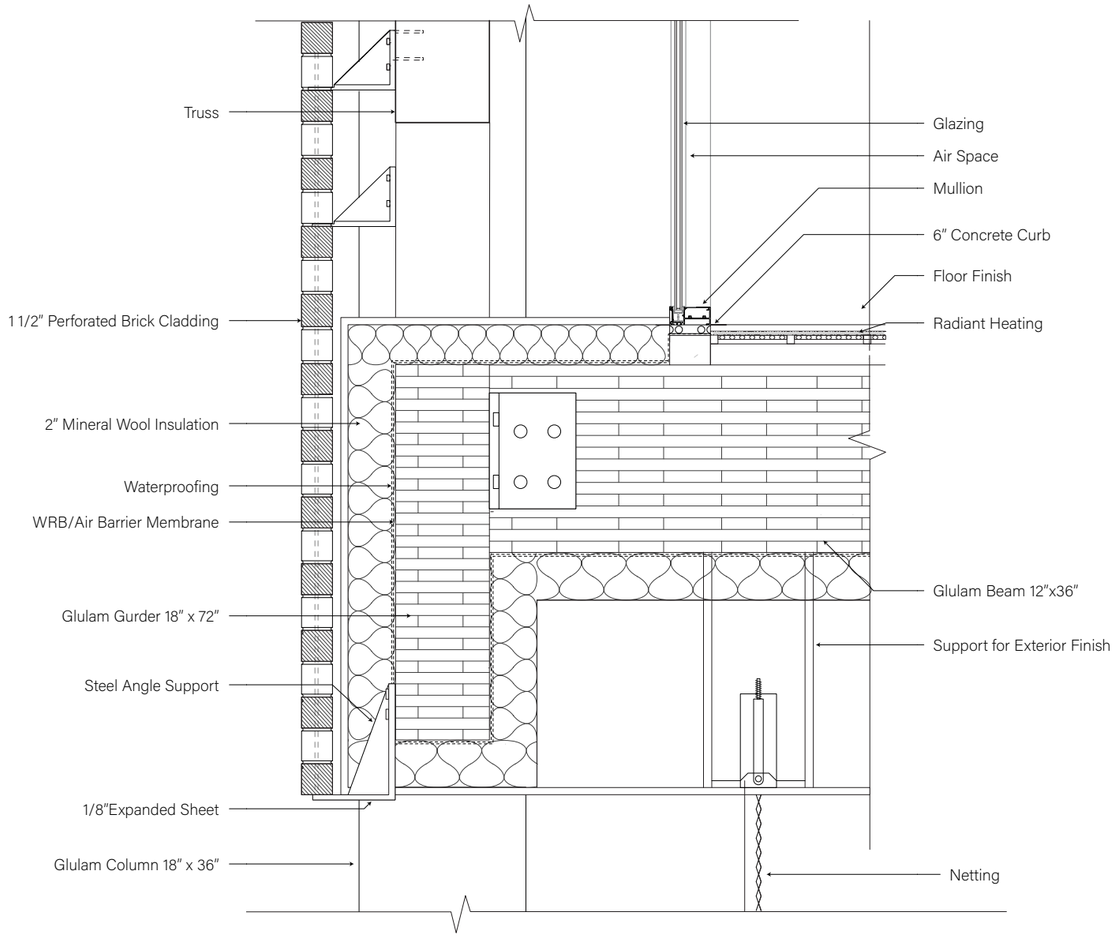
Old School

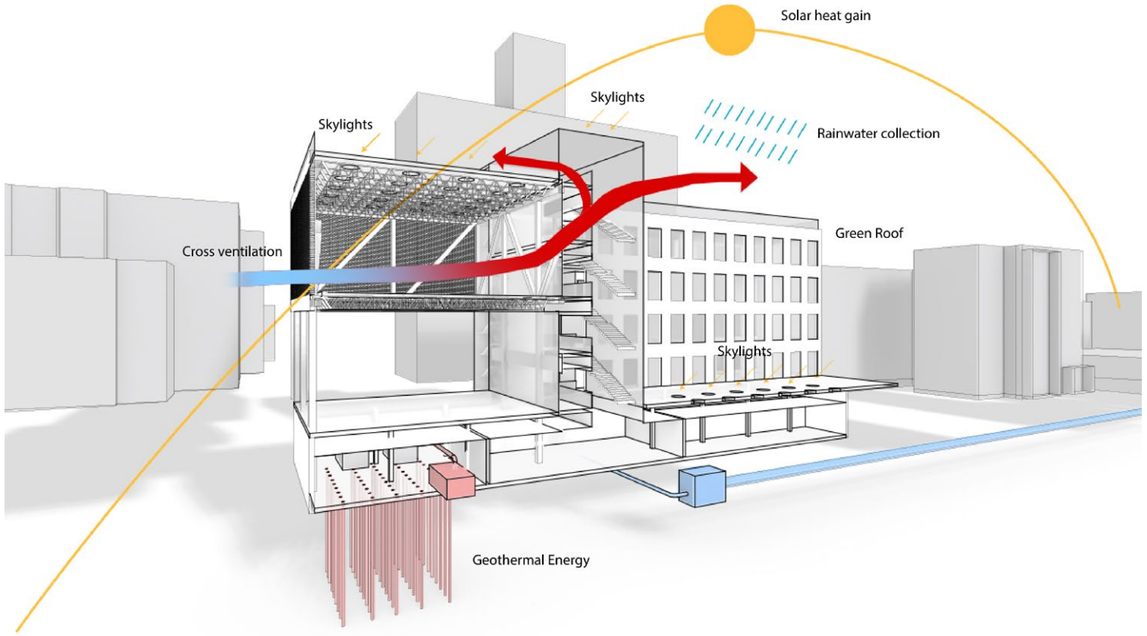
18

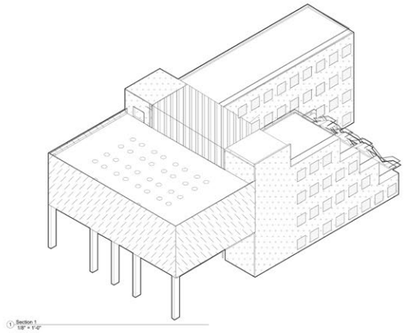
Open Bronx Center

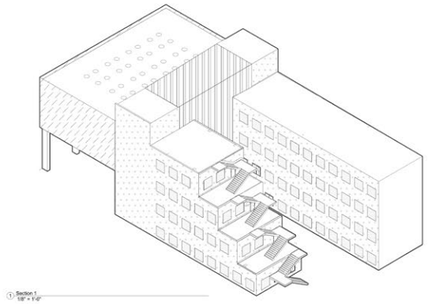
TECH IV Instructors: Stephan Potts, Teel Riggs Berardo Matalucci Partners: Aya Abdallah, Bisher Tabbaa, Yong Kim 2020

Developed as part of an intense introduction to the application of techinical systems through design, Open Bronx is a community center which includes an athletic center,a cafeteria, a black box theater, and community outdoor spaces









WT - 01
Brick Cladding

WT - 02
Perforated Brick Screen

WT - 03
Aluminium curtain wall IGU System. Vertical and Horizontal mullions attached to WT-01

WT - 04
Punched Windows

MATERIAL SCHEDULE

MATERIAL	DESCRIPTION	LOCATION
MT - 01	Peterson Kolumba K21	WT - 01
MT - 02	Peterson Kolumba K21	WT - 02 Int. Basketball Court
MT - 03	Aluminium	WT - 03 Curtain Wall Atrium

GLAZING SCHEDULE

MATERIAL	DESCRIPTION	LOCATION
GL - 01	IGU	WT - 01 Punched Window on Brick Cladding Facade
GL - 02	IGU	WT - 03 Central Atrium Space

No.	Description	Date
	PRELIMINARY SD SET	09/25/2020
	SD SUBMISSION	10/12/2020
	DD SUBMISSION	12/01/2020

SEAL

KEY PLAN

ABNY

Team
GSAPP
Aya Abdallah
Bisher Tabbaa
Yong Kim

Architect
STANEY POTTS
Stephen Potts

Enclosure
HEINTGES
Teel Riggs

Structural
GATTNER
Aaron Campbell

Mechanical, Electrical & Plumbing
SHOP
Berardo Matalucci

PROJECT TITLE
OPEN BRONX

363-381 East 151 Street
Bronx, NY
~~363~~381 East 151st
Bronx, NY
10455

PROJECT No Third Floor Plan

DRAWING TITLE
Facade System
Description & Diagram

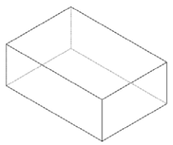
SCALE

F110

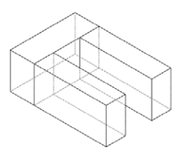
Project Status

Issue Date

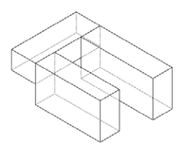
ENTIRE LOT



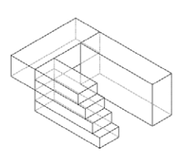
CENTRAL COURTYARD

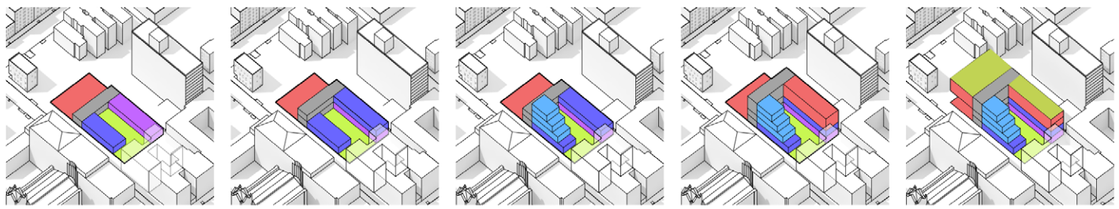


CANTILEVERING BASKETBALL COURT

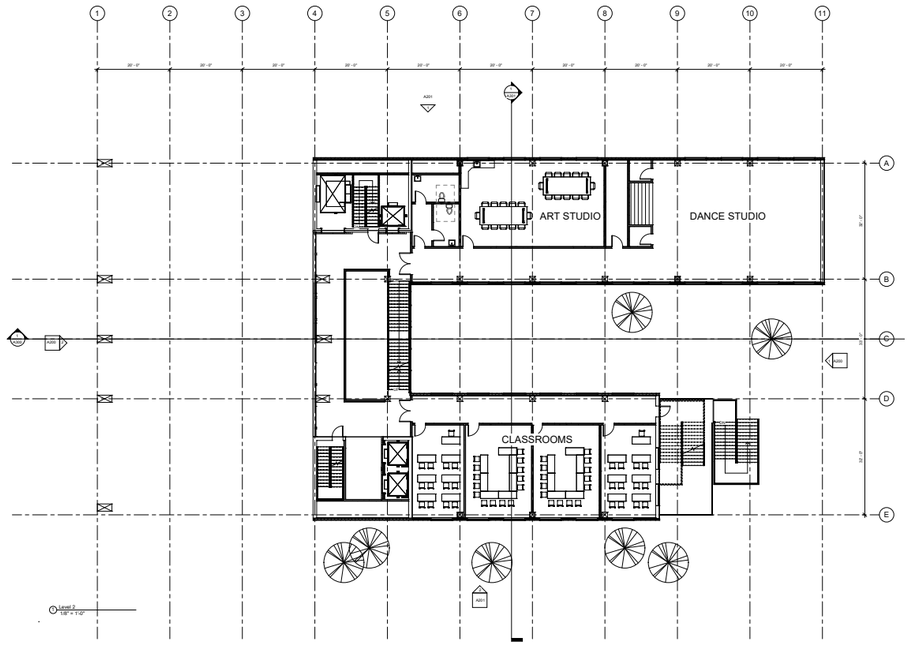


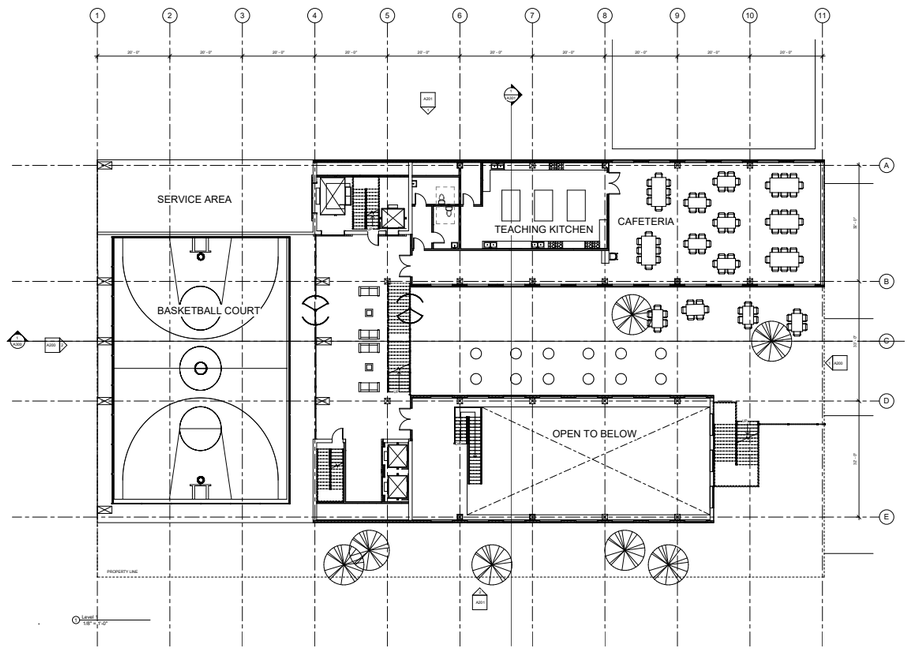
STEPPED TERRACES





ATHLETICS CENTER
CAFETERIA
THEATER
COMMUNITY PROGRAM
LANDSCAPE DESIGN


ART STUDIO
DANCE STUDIO
CLASSROOMS


SERVICE AREA
TEACHING KITCHEN
CAFETERIA
BASKETBALL COURT
OPEN TO BELOW

OPEN BRONX

1 Section 1
1/8" = 1'-0"

No.	Description	Date
	PRELIMINARY SD SET	09/25/2020
	SD SUBMISSION	10/13/2020
	DD SUBMISSION	12/01/2020

SEAL

KEY PLAN

ABNY

Team:
GSAPP
Aya Abdallah
Bisher Tabbaa
Yong Hack Kim

Architect:
STANEV POTTS
Stephen Potts

Enclosure:
HENTGES
Teel Riggs

Structural:
GATTNER
Aaron Campbell

Mechanical, Electrical & Plumbing:
SHOP
Berardo Matalucci

PROJECT TITLE:
OPEN BRONX

363-381 East 151 Street
Bronx, NY
10455381 East 151st
Bronx, NY
10455

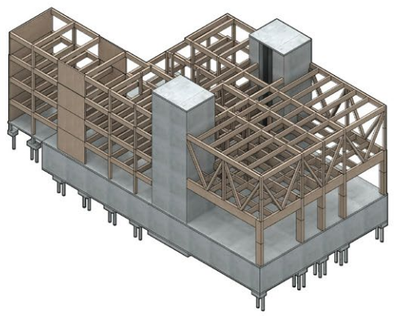
PROJECT No: Third Floor Plan

DRAWING TITLE:
North/South Section

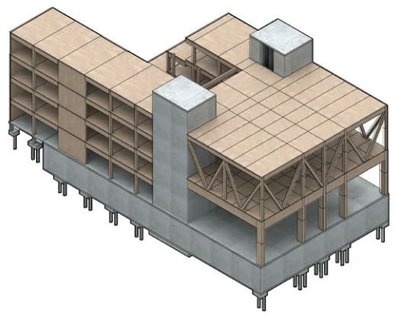
SCALE:
A301

Project Status

Issue Date



1 STRUCTURAL AXON WITHOUT CLT SLAB
NONE



2 STRUCTURAL AXON WITH CLT SLAB
NONE

No.	Description	Date
	PRELIMINARY SD SET	09/25/2020
	SD SUBMISSION	10/13/2020
	DD SUBMISSION	12/01/2020

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Structural:
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Aaron Campbell

Mechanical, Electrical & Plumbing:
SHOP
Berardo Matalucci

PROJECT TITLE:
OPEN BRONX

363-381 East 151 Street
Bronx, NY
10455381 East 151st
Bronx, NY
10455

PROJECT No: Third Floor Plan

DRAWING TITLE:
Structural Axon

SCALE:
S110

Project Status

Issue Date

Rooftop

Fourth Floor

Third Floor

Second Floor

First Floor

Basement

Program	Area (sf)	Conditioned?	cfm/sf	cfm	cfm*0.3	AHU Room area	SF
FOH / Lobby	960	Yes	.2	1,920	576		
Athletics Space	12,000	Yes	.2	24,000	7200	10,000 cfm	
Arts Space / Theater	7,000	Yes	1.5	10,500	3150		
Community Space / Classrooms	5,500	Yes	1	5,500	3050		
BOH	2,000	Yes	0.5	1000	300	10,000 cfm	
Total					14726	(10,000)x2	1,950

Note: The Yellow highlighted spaces will be served by AHU 2, the Blue highlighted spaces will be served by AHU 1

Gymnasium

Fitness Studio

Community Room

Locker Rooms

Art / Dance Studios

Classrooms

Lobby

Kitchen / Cafeteria

Theatre

Intake

Exhaust

Intake

Exhaust

Auxuliary Air Heat Pump

Geothermal H.P

AHU 1

AHU 2

No.	Description	Date
	PRELIMINARY SD SET	09/25/2020
	SD SUBMISSION	10/13/2020
	DD SUBMISSION	12/01/2020

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Aaron Campbell

Mechanical, Electrical & Plumbing:
SHOP
Berardo Matalucci

PROJECT TITLE:
OPEN BRONX

363-381 East 151 Street
Bronx, NY
10455381 East 151st
Bronx, NY
10455

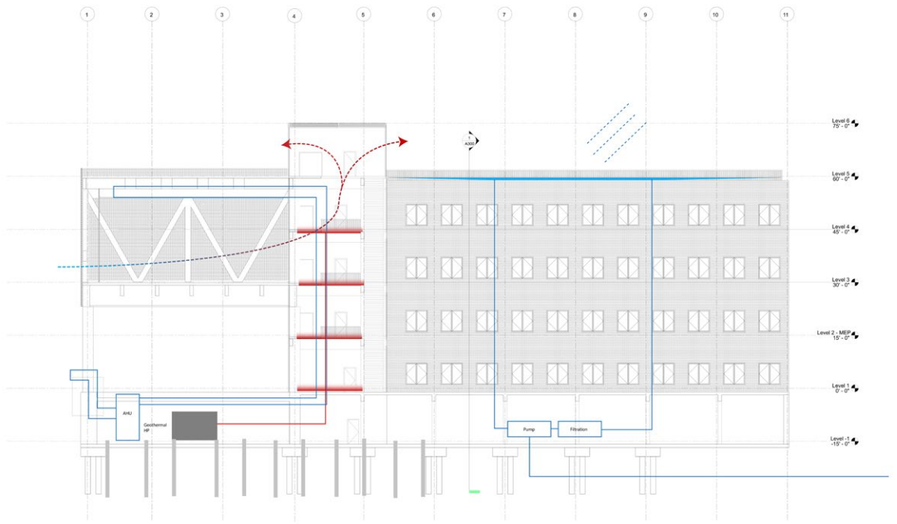
PROJECT No: Third Floor Plan

DRAWING TITLE:
Air Riser Diagram

SCALE:
M004

Project Status

Issue Date



1 Section 1
1/8" = 1'-0"

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	SD SUBMISSION	10/13/2020
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Stephen Potts

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Teel Riggs

Structural:
GATTNER
Aaron Campbell

Mechanical, Electrical & Plumbing:
SHOP
Berardo Matalucci

PROJECT TITLE:
OPEN BRONX

363-381 East 151 Street
Bronx, NY
10455381 East 151st
Bronx, NY
10455

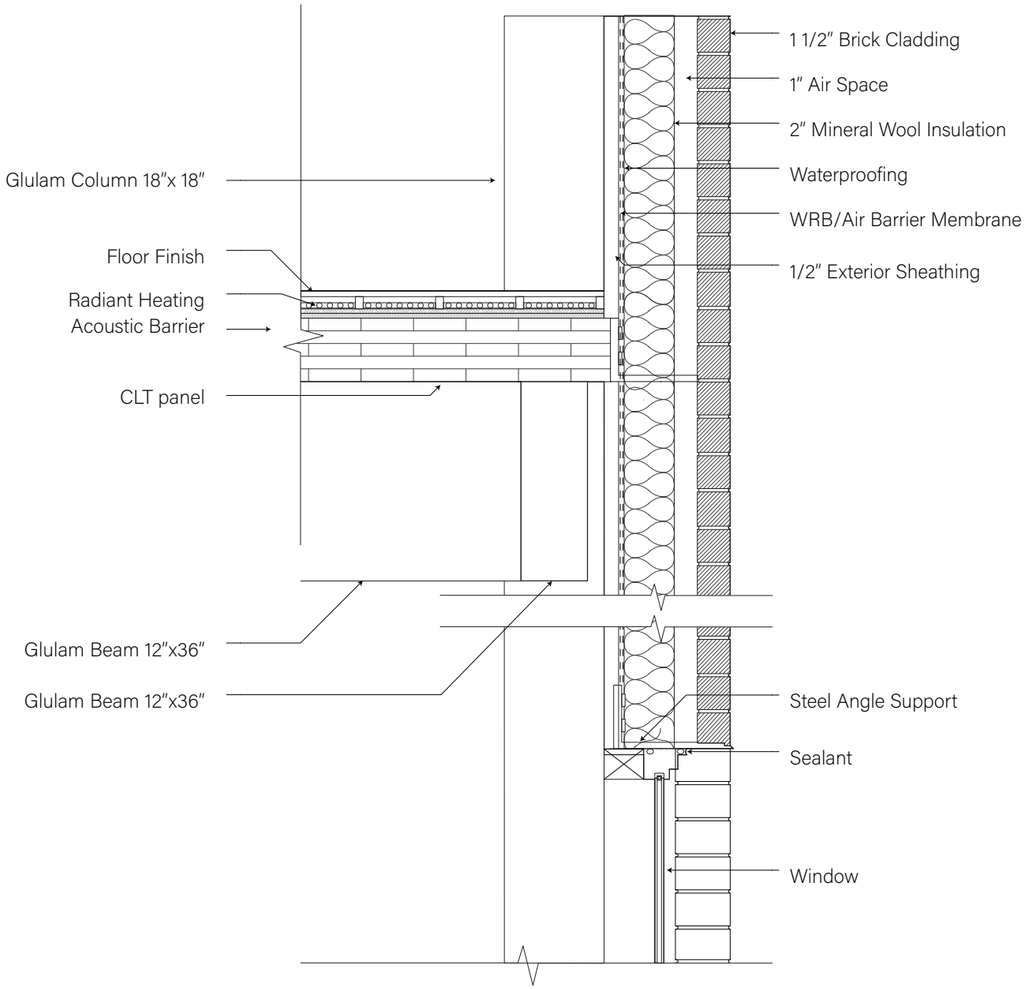
PROJECT No: Third Floor Plan

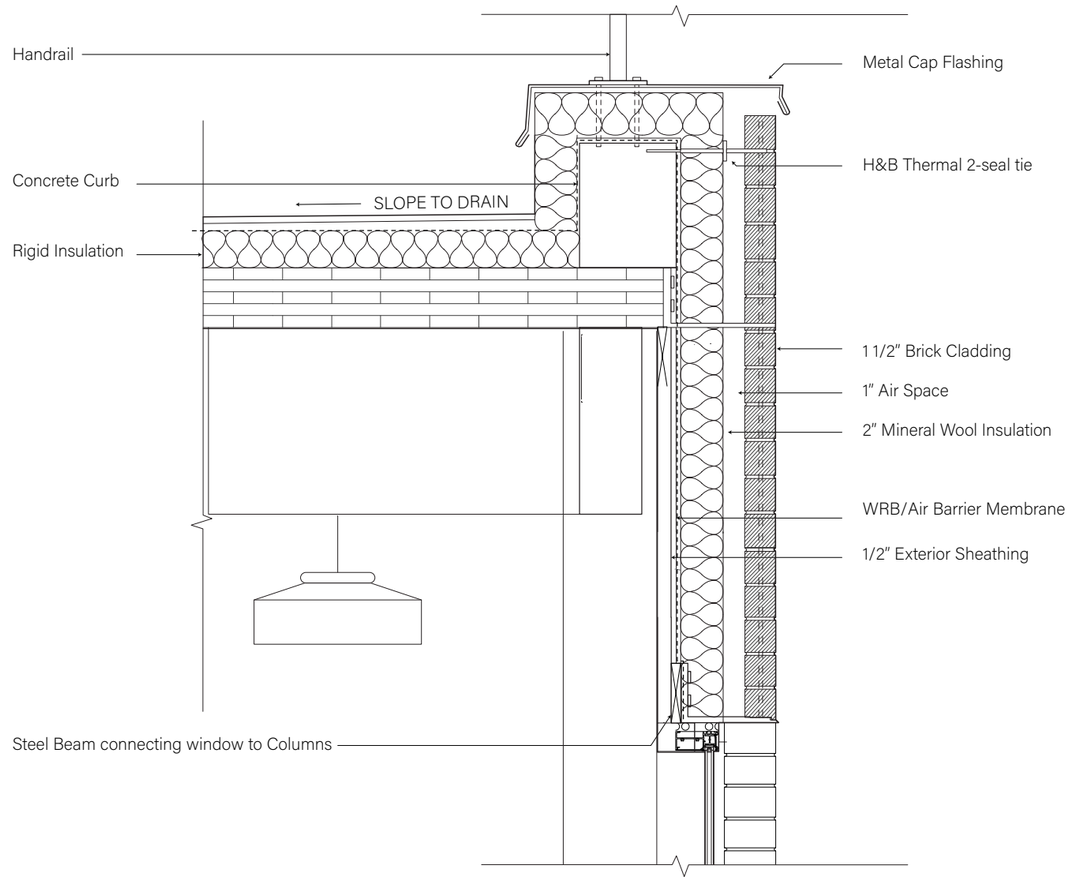
DRAWING TITLE:
Primary Generation & Secondary Distribution Strategy

SCALE:
M002

Project Status

Issue Date

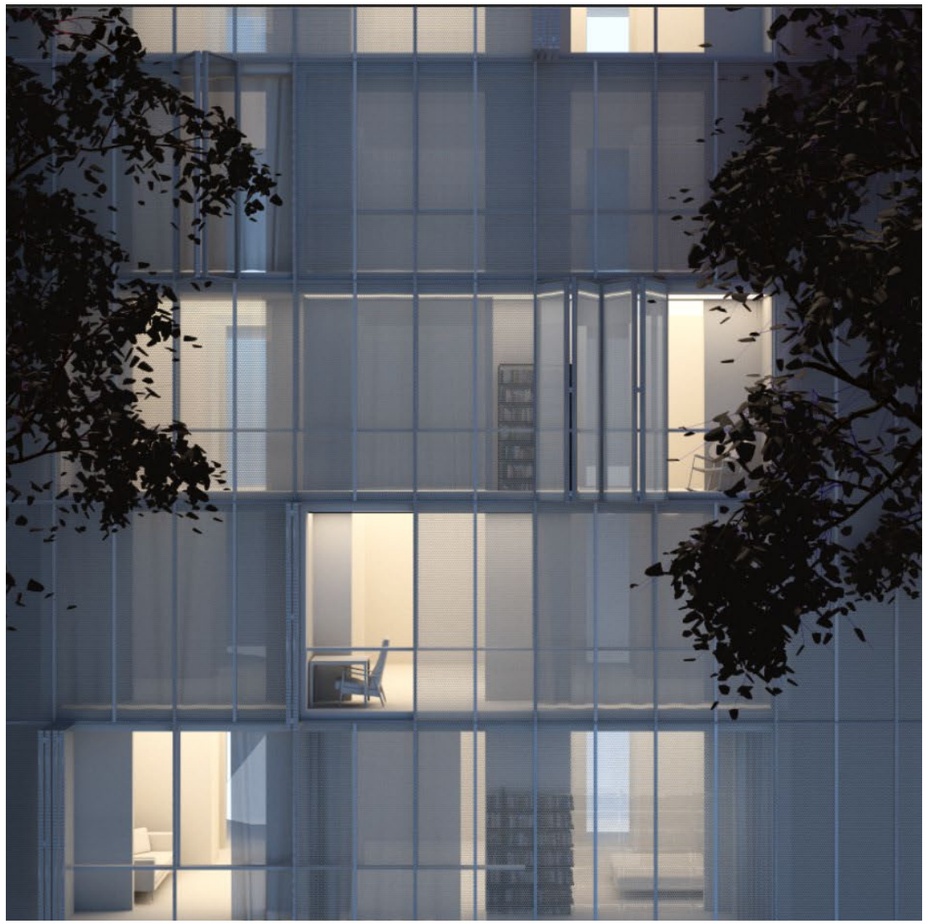

1 1/2″ Brick Cladding
1″ Air Space
2″ Mineral Wool Insulation
Waterproofing
WRB/Air Barrier Membrane
1/2″ Exterior Sheathing
Glulam Column 18″x 18″
Floor Finish
Radiant Heating
Acoustic Barrier
CLT panel
Glulam Beam 12″x36″
Glulam Beam 12″x36″
Steel Angle Support
Sealant
Window


Handrail
Metal Cap Flashing
H&B Thermal 2-seal tie
Concrete Curb
SLOPE TO DRAIN
Rigid Insulation
1 1/2″ Brick Cladding
1″ Air Space
2″ Mineral Wool Insulation
WRB/Air Barrier Membrane
1/2″ Exterior Sheathing
Steel Beam connecting window to Columns

OPEN BRONX

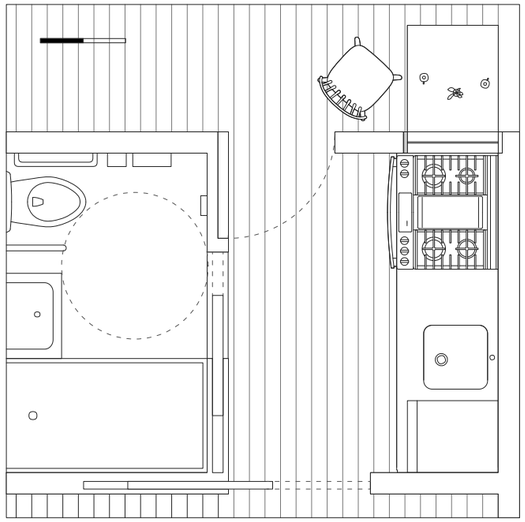
A hallway of one's own

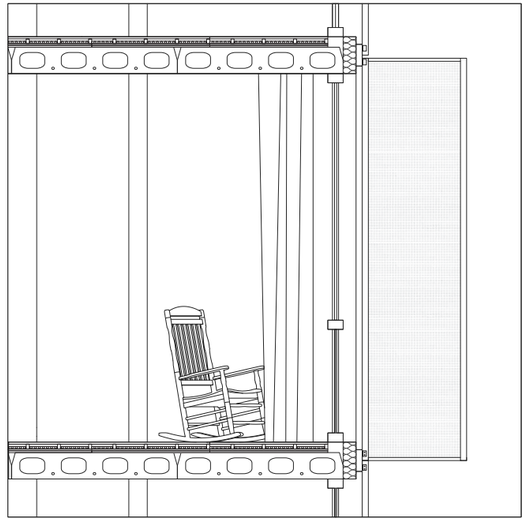
Core III Complete & Incomplete Critic: Adam Frampton Partner: **Yumeng Liu** 2020

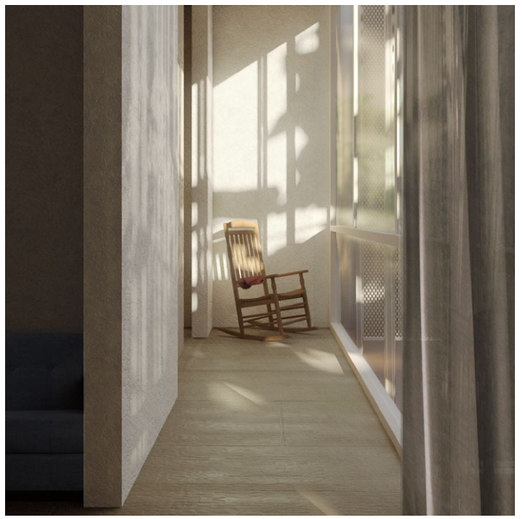


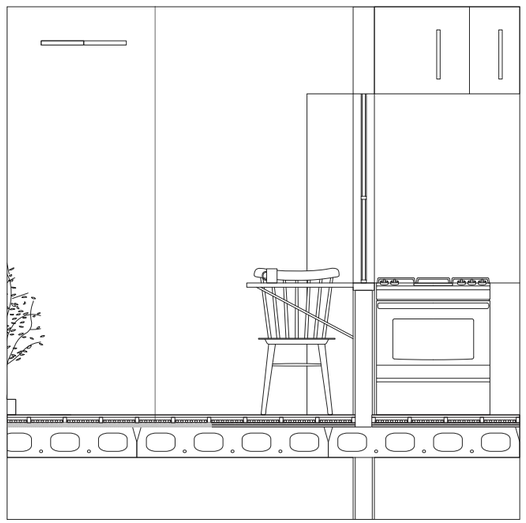
This project explores the potential of the hallway, often a space determined by efficiency, to house communal activity.

The project also redefines the boundaries between the domestic and the communal through a series of thresholds that allow occupants to determine their relationship with the communal hallway.

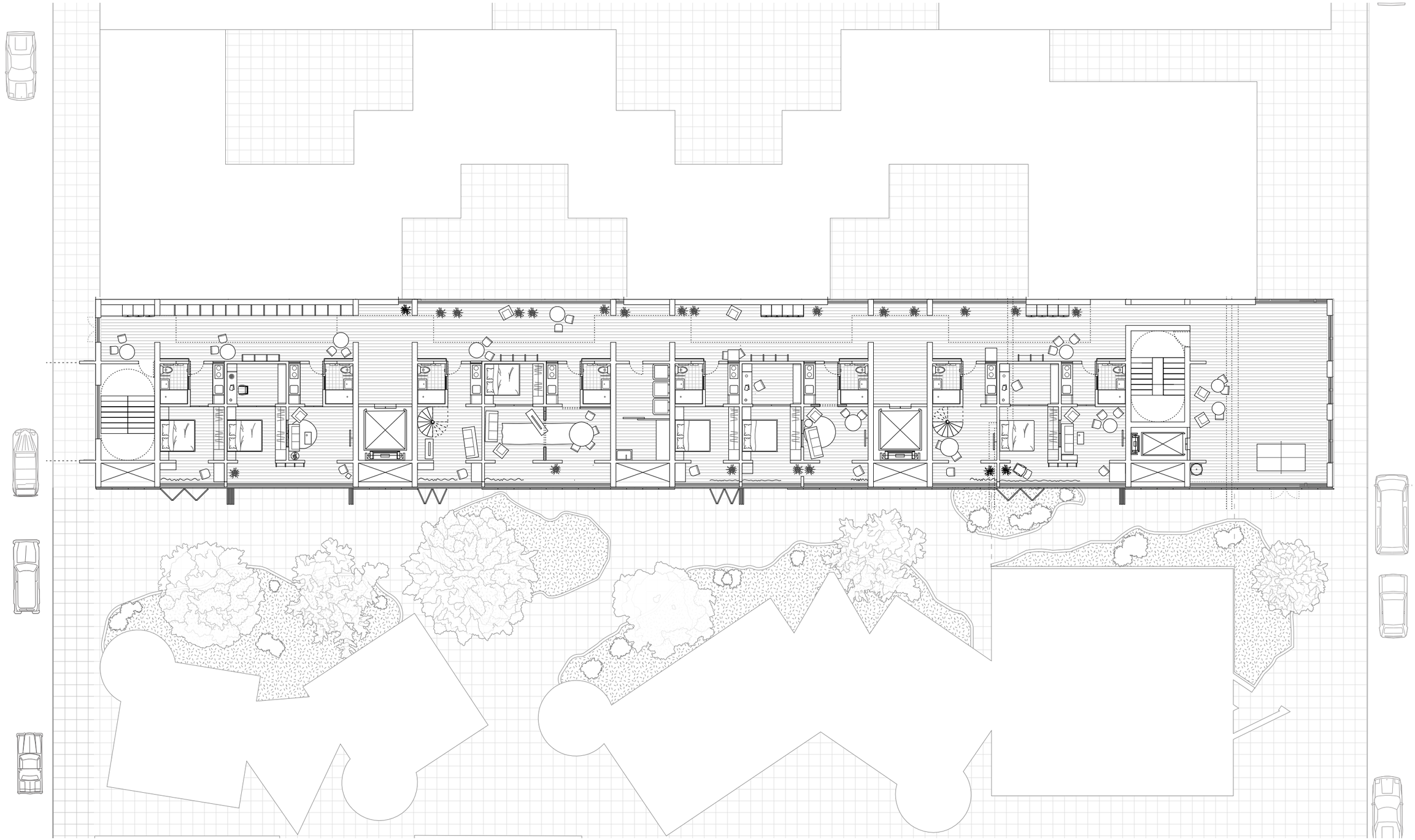








A hallway of our own

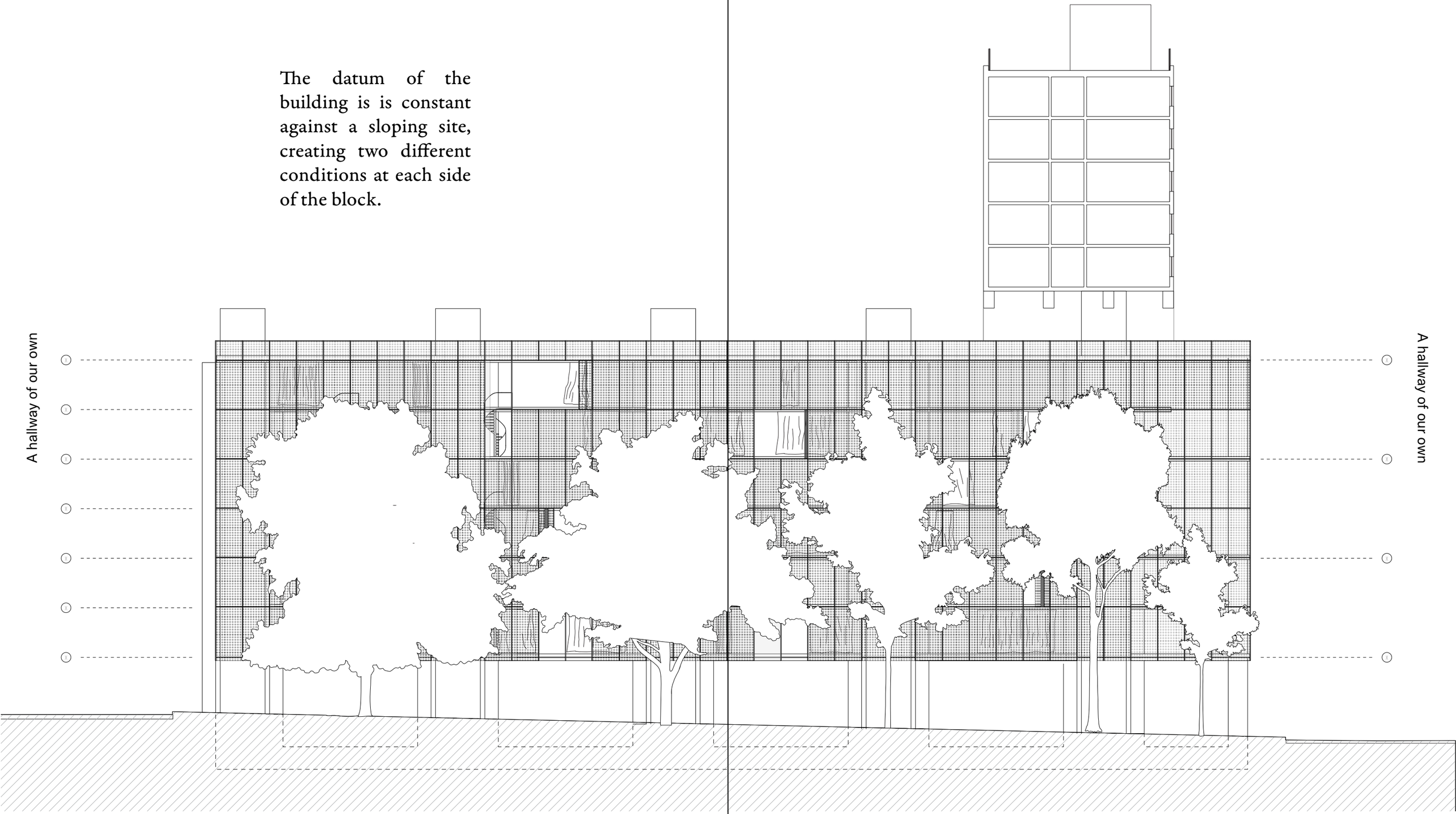


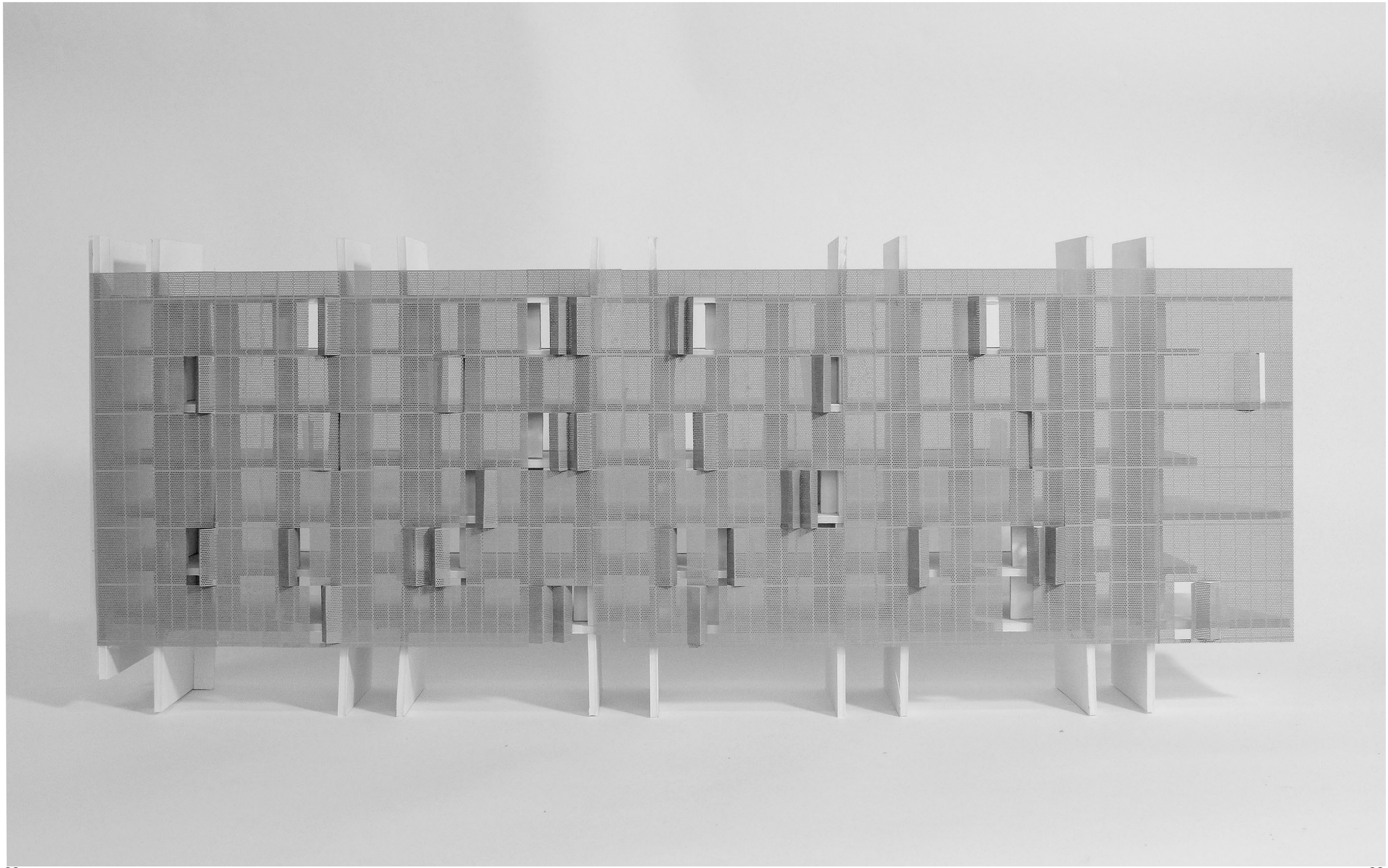
A hallway of our own

A hallway of our own

26

The datum of the building is is constant against a sloping site, creating two different conditions at each side of the block.





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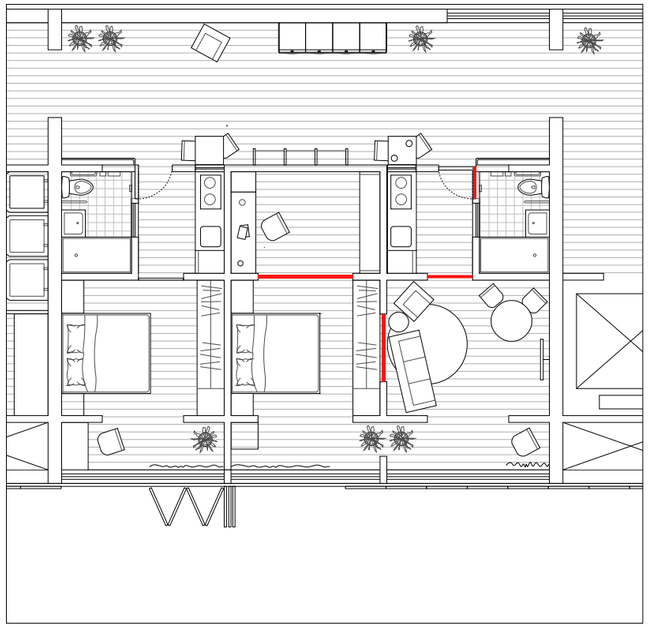

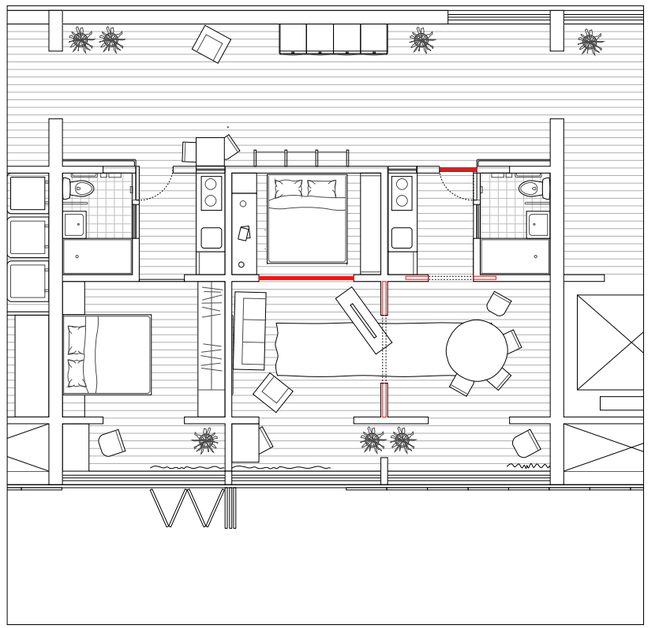

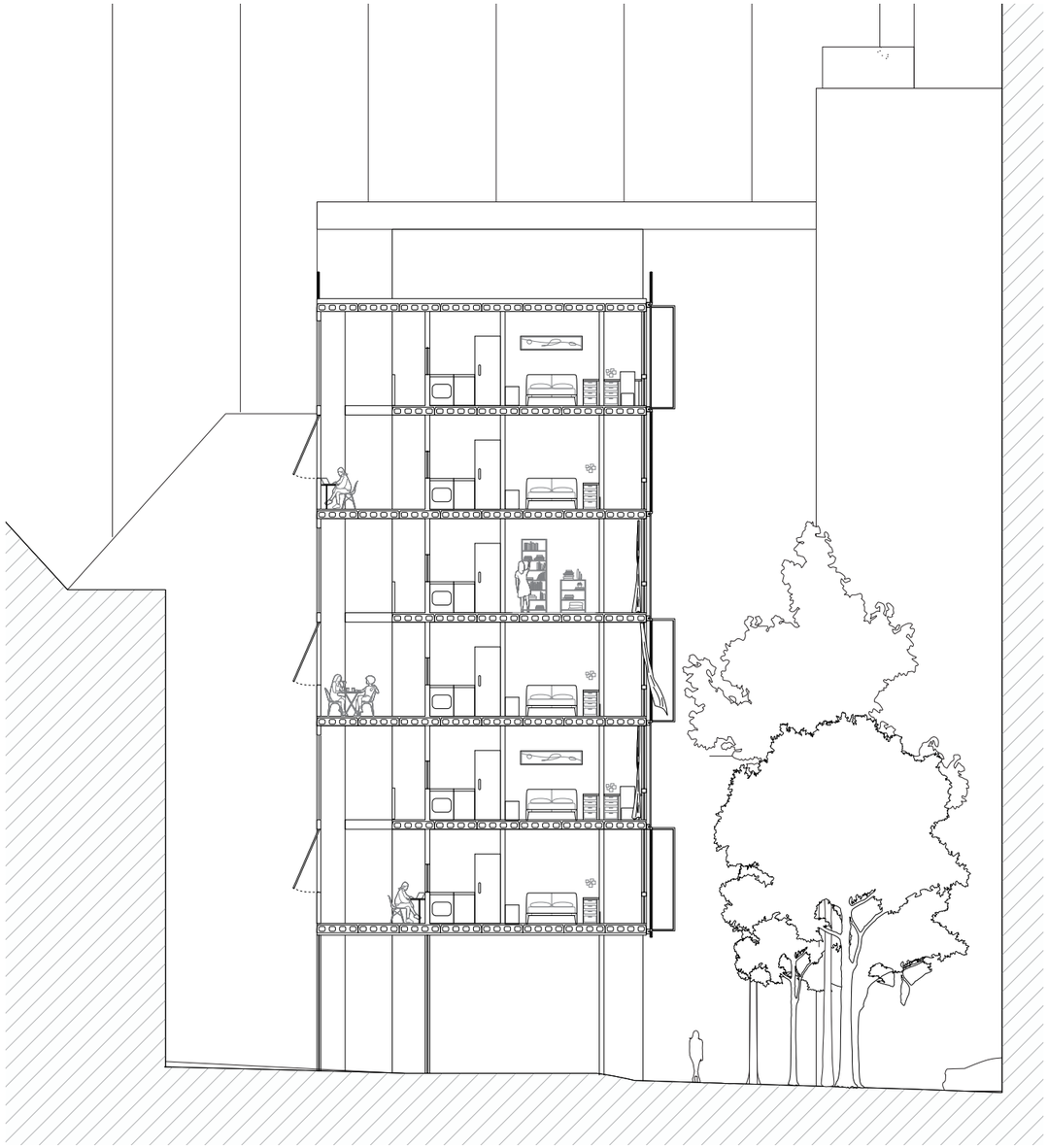

A hallway of our own

A hallway of our own

A hallway of our own

A hallway of our own

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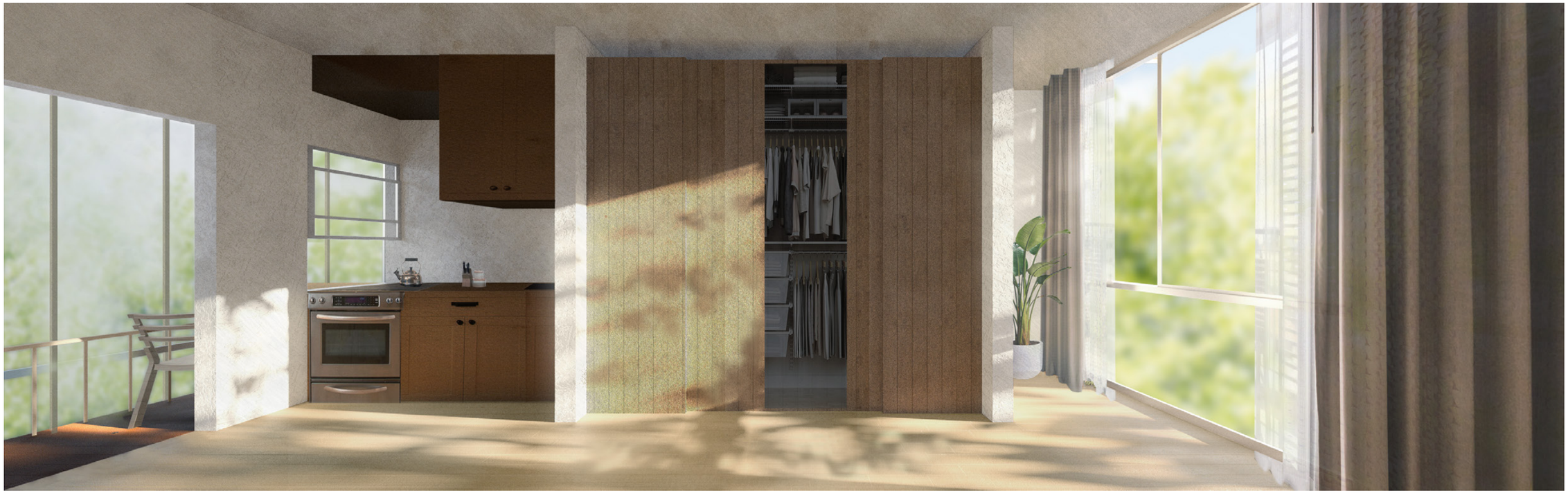

A hallway of our own

A hallway of our own

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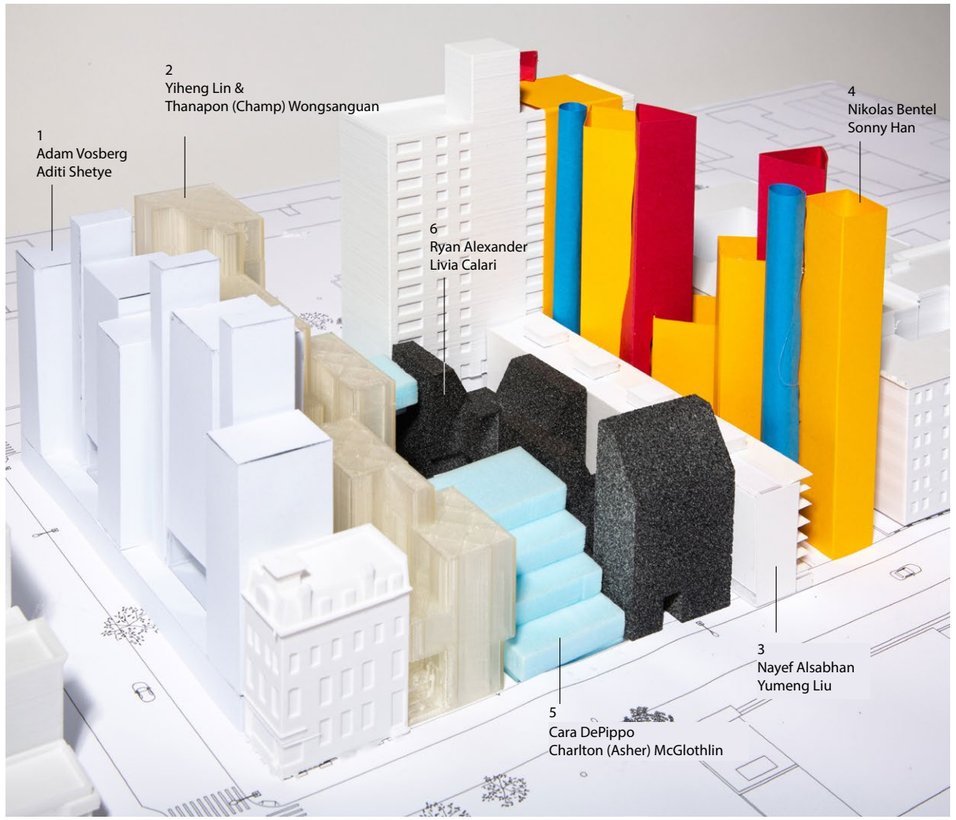
A hallway of our own

A hallway of our own

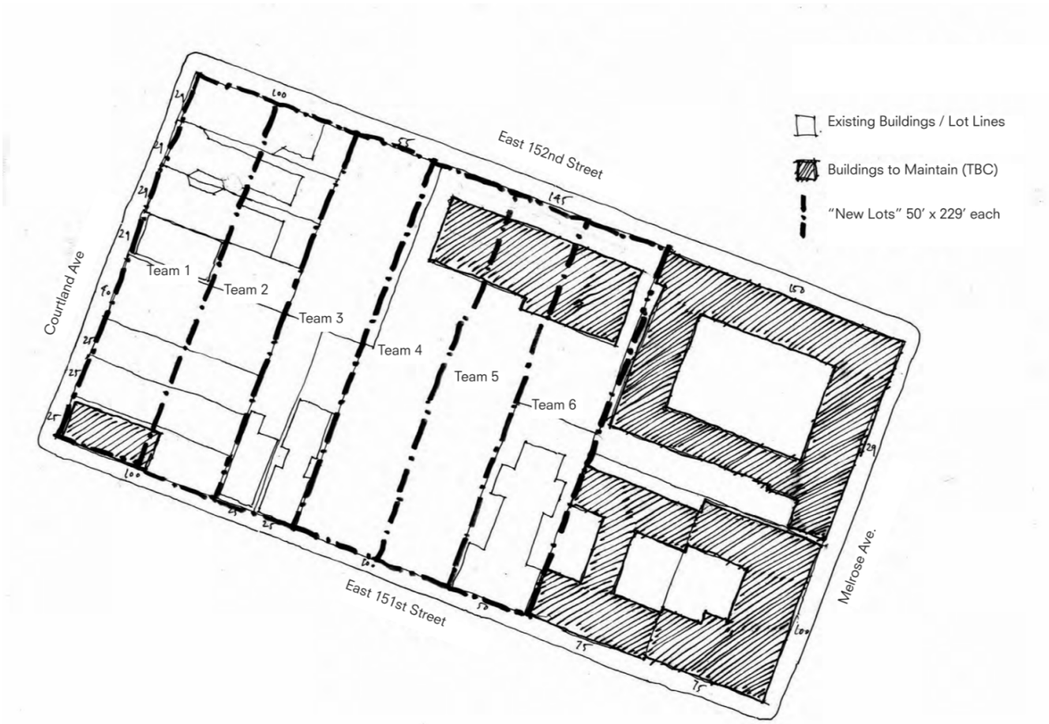
A hallway of our own

A hallway of our own



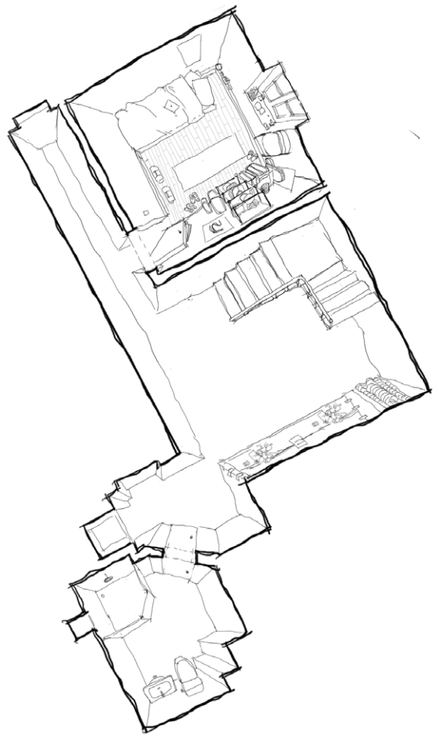
Based on insights from PREVI and other contemporary models, our studio designed housing in Bronx that that speculates on what constitutes the complete.

Similar to the approach of PREVI, each team of 2 students were allocated a separate parcel within the block, such that designs are smaller in scale and more precise, and the entire output of the studio is a collage of parallel proposals.

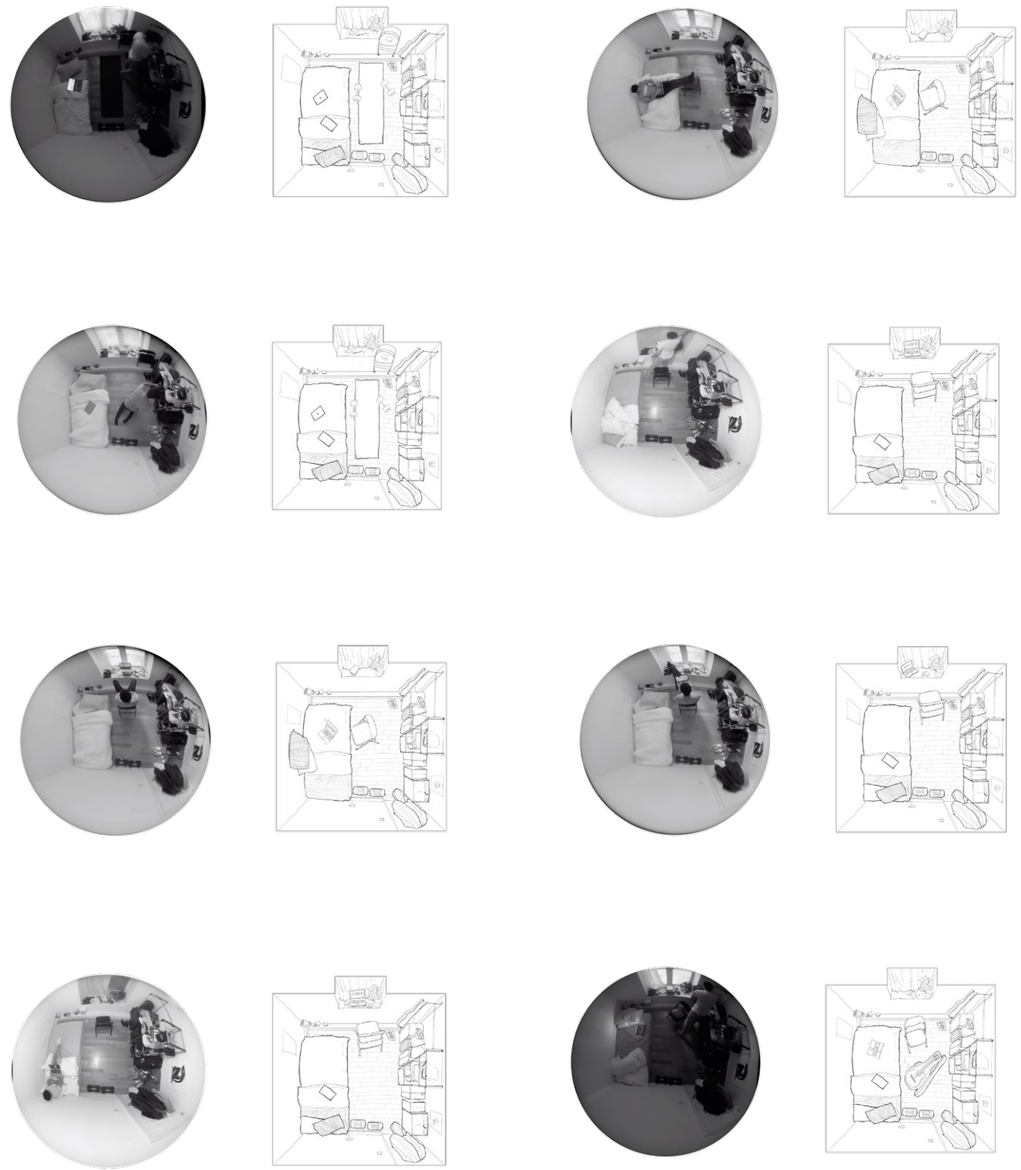


24 Hours

Core III Complete & Incomplete Instructor: Adam Frampton Partner: **Yumeng Liu** 2020



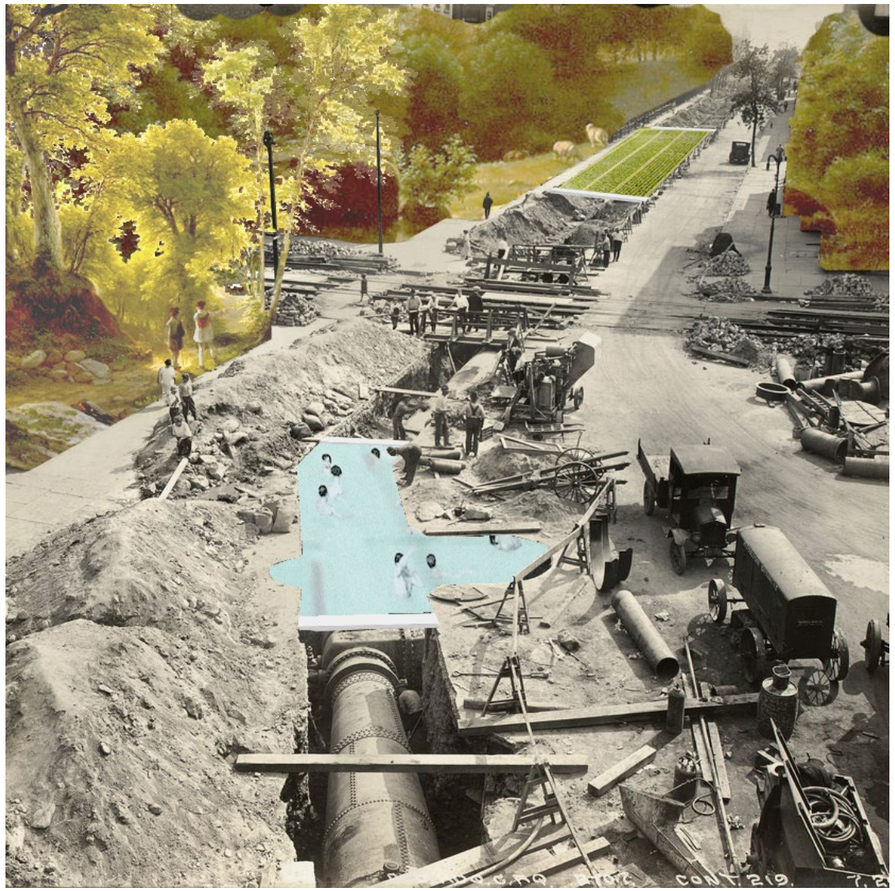
As an examination of how incomplete spaces functioned in our own dwellings, we produced a series of sketches in juxtaposed with a video of how my 4 foot deep window sill, changed throughout the day.



So far, the window sill has served as a gym bench, a work station, a dining table, and a model building area.

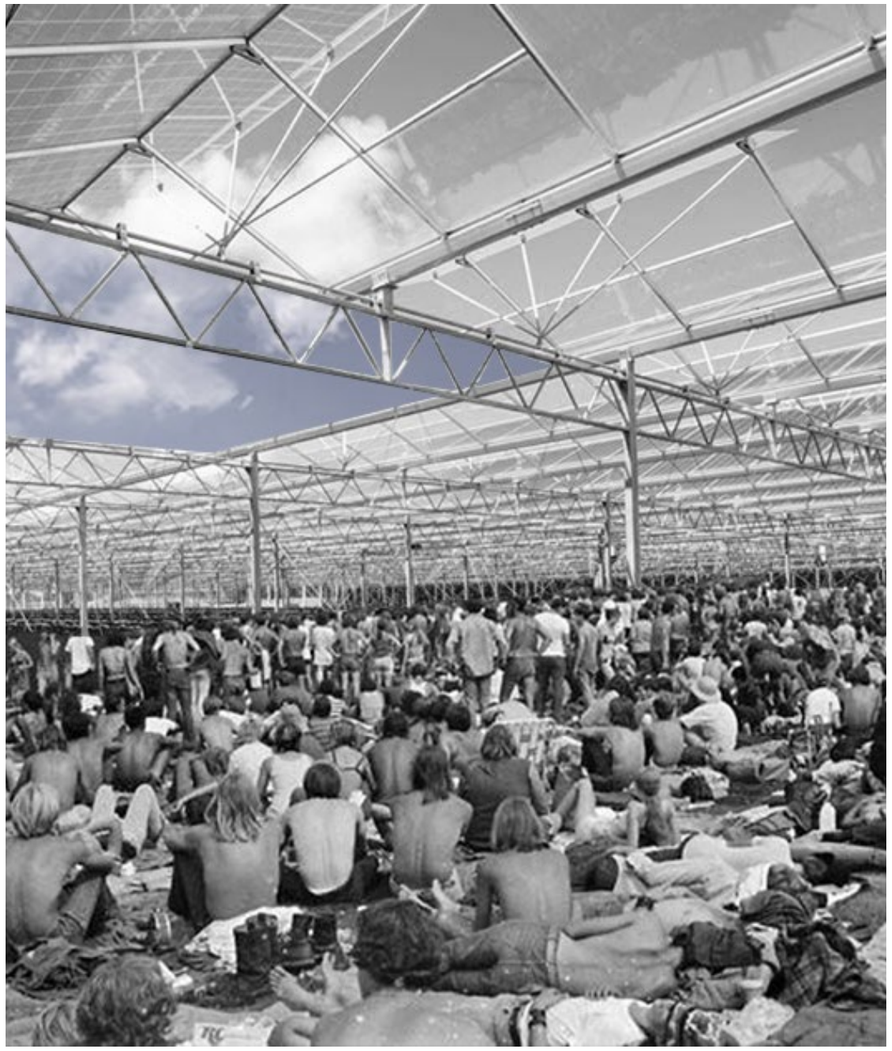
Flint Mine Solar

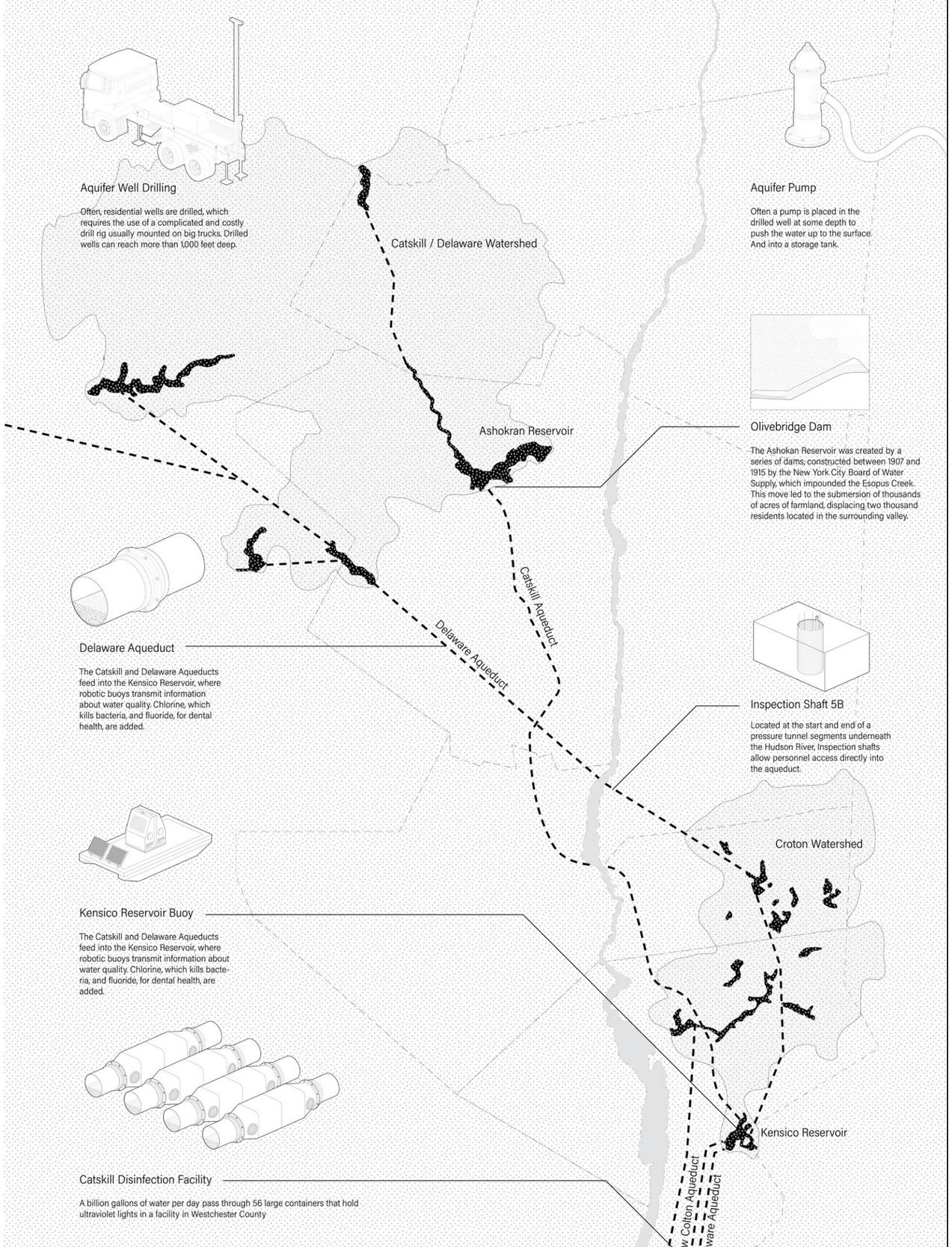
ADV IV Sanctuaries Instructor: Nahyun Hwang Partner: John Trujillo 2021



This project positions massive urban infrastructure as a form of nature, a scaffold that becomes an opportunity for making

industrial scale technology visible and accessible. It scales it to the level of the individual.

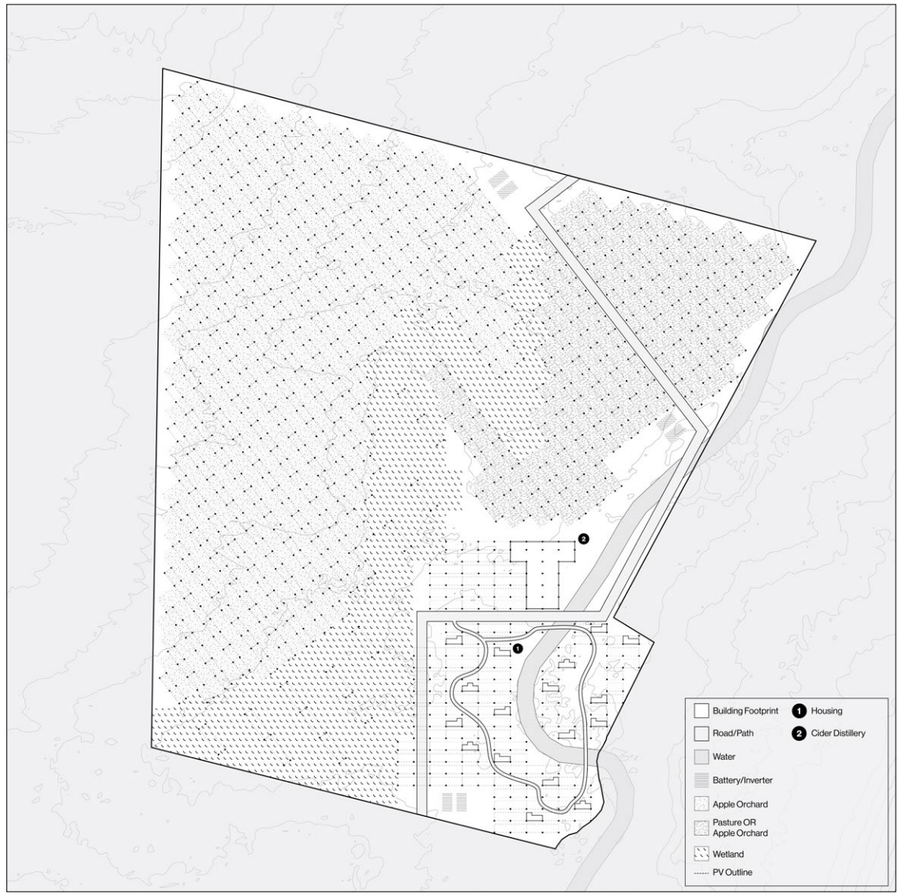


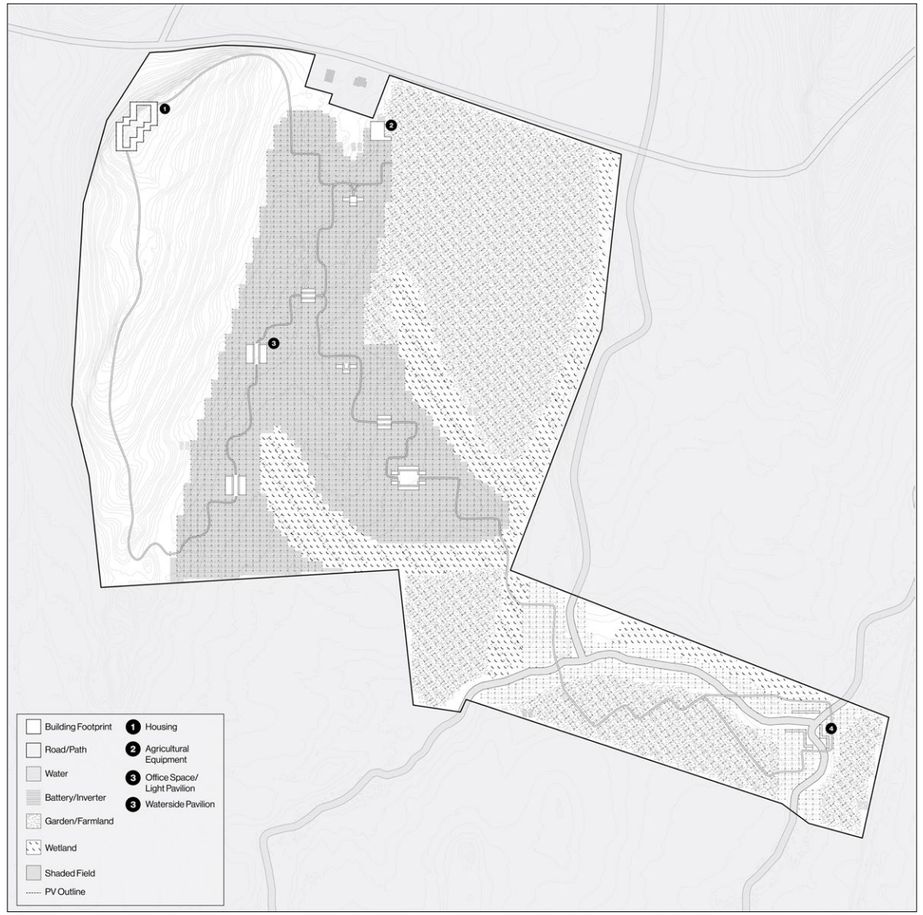


Infrastructures serving New York City are entangled with smaller communities in the Hudson Valley and often come into conflict with the scale of smaller communities.

The Flint Mine Solar Power Plant, in the Hudson Valley, is the largest solar power plant in the East United States. Much of the controversy surrounding the construction of the plant has focused on its disturbance of the bucolic scenery that Greene county residents envision for their community.

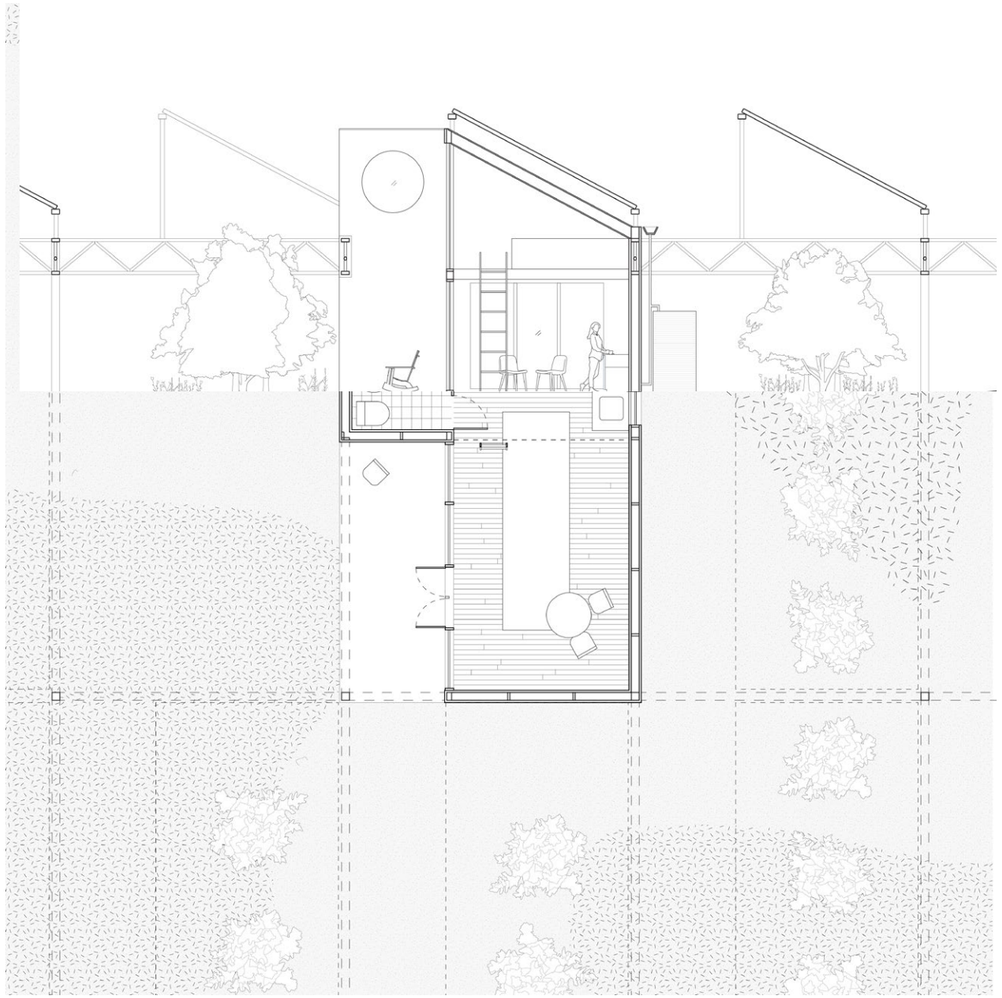
We imagine a series of cabins that can host both on the first lot. Per the soil analysis, the apple orchards were placed to the west and north east. These areas are divided by wetland or road from manufacturing or residential areas. By manufacture we mean a cider distillery that we imagine will extend the life of this community past the season of harvesting the apples and attract visitors and income year round.



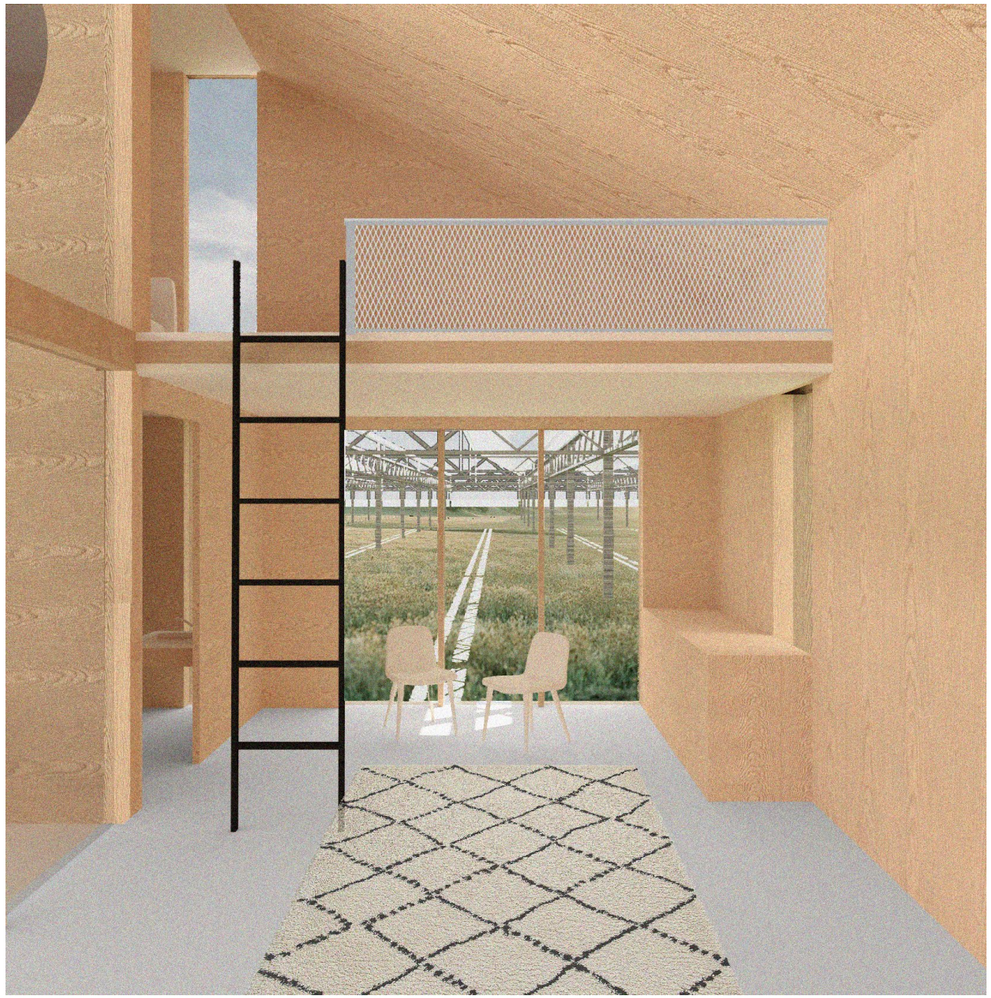


The next lot sites two communities: First, it reverses the typology of the woodstock and maverick artist sanctuaries in the 1920s shown in this catalog entry, where originally production was communal and housing individual. We plan for the opposite part of our site.

How considerations of the slope of the solar panel result in a loft space at the second level, and how some solar panels can be curated to allow for exterior light wells.

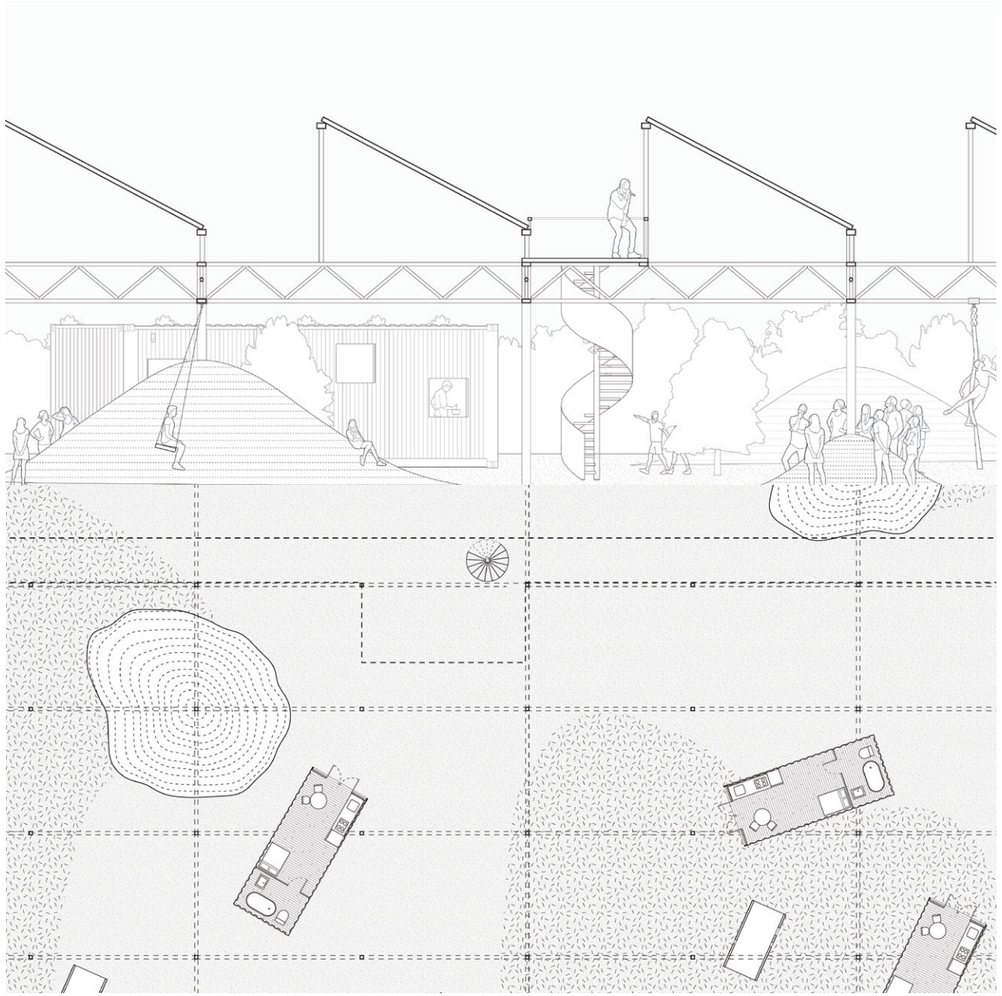


Project Title



A hallway of our own

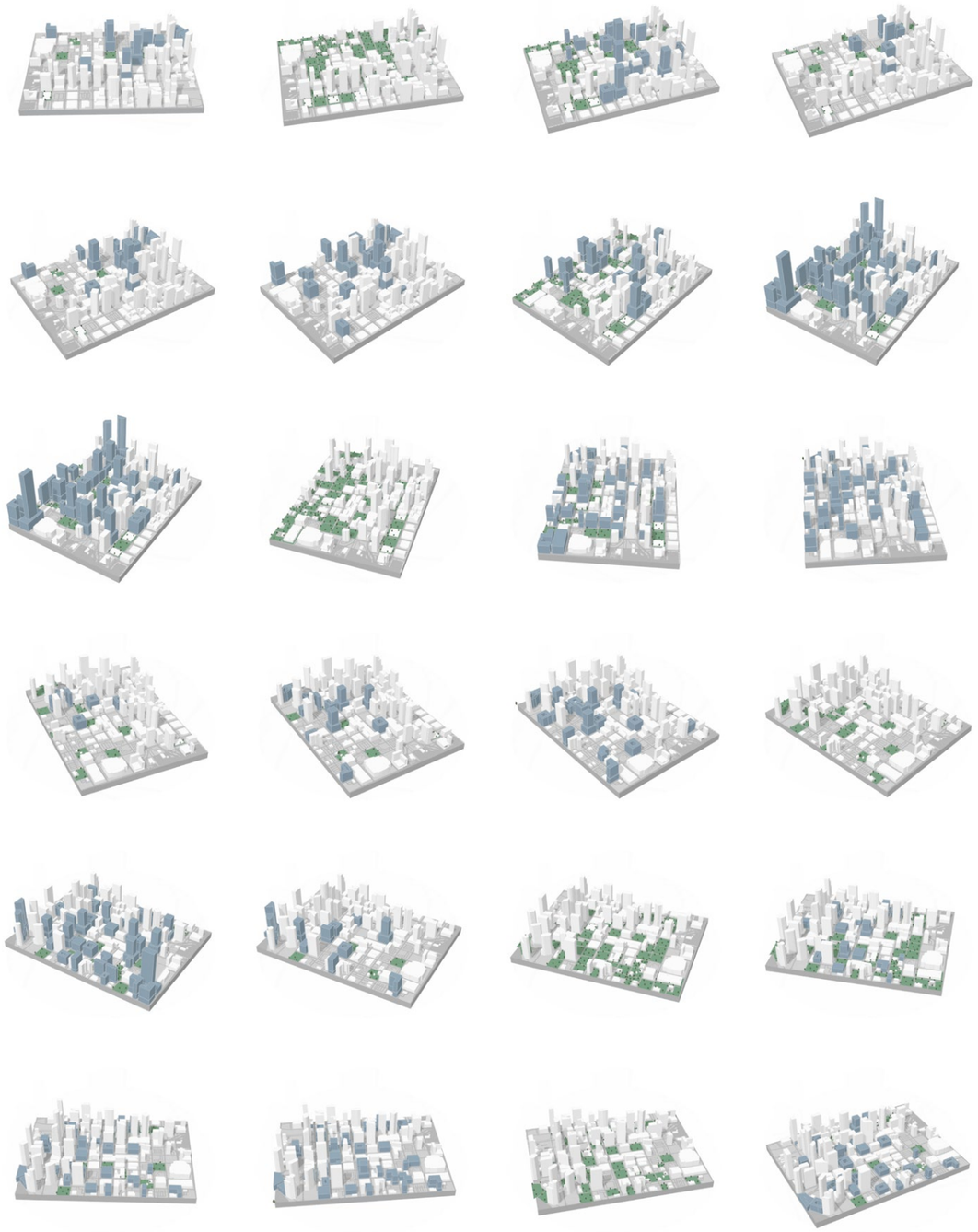
A community that is informal and preformative, attracting an audience akin to that of the woodstock concert in the late 60s, but less temporary. Referencing the Halprin workshops, one that can incorporate the land and topography into their art.



Houston’s Problem

X-Info Modeling Instructor: Snoweria Zhang Team: ShFR 2021

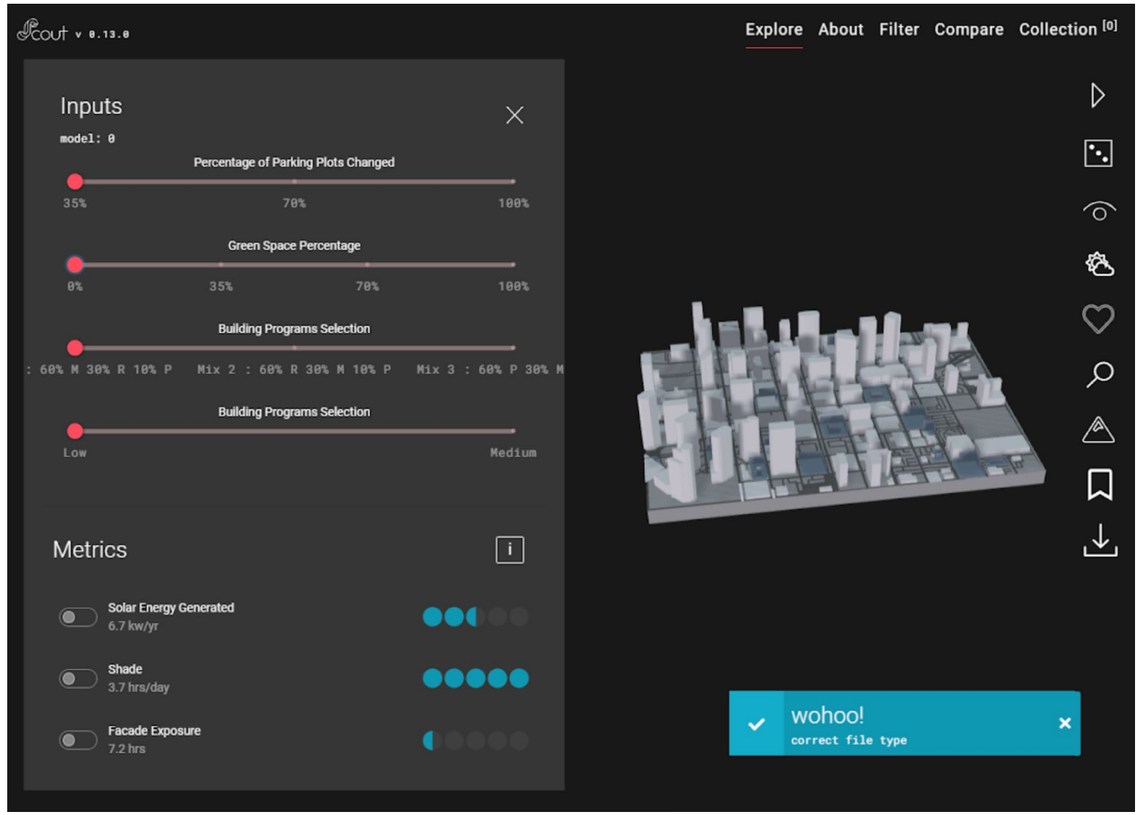
An iterative grasshopper script developed to implement imaginary zoning configurations in downtown Houston.



X-Information Modeling Partners: Bisher Tabbaa, Farah Ahmed, Vinay Agrawal

Instructor: Snoweria Zhang 2021

A scout website was set up to enable people to navigate the model without any knowledge of how to use grasshopper



Ecosystems of Dissent

ADV V un-Detailing Andrés Jaque Partners: Aya Abdallah & Osvaldo Delbrey

With the development of corporate telecommunication buildings around the world, infrastructural systems have been concealed for the sake of progress, limiting them to the realm of experts.

By eliminating entire material narratives, these corporations became active participants in the production and centralization of secrecy and power.

NETWORK TRILOGIES
Ecosystems of Dissent
WIRES

Ecosystems of Dissent

With the development of corporate telecommunication buildings around the world, infrastructural systems have been concealed for the sake of progress, limiting it to the realm of experts. By eliminating entire material narratives, these corporations became active participants in the production and centralization of secrecy and power.

However, cracks within the system exist, and historically, opportunities of dissent were able to find their way through.

Today, tracing these now obsolete spaces, elements, or systems that were removed, the current independent forms of dissent can be examined at different scales as we reintegrate inefficiency as a tool to undermine the system of centralization and power in an ecosystem of dissent.

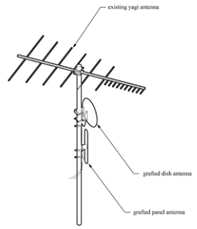
A series of interventions is proposed around the city and beyond in order to empower local communities to have more control over their own data and infrastructure. Through these independent scenarios, an attempt of un-blackboxing occurs, rendering visible all the successes and failures of the system.

This documentation of technical elements catalogs specific gizmos of infrastructural grafting that allow for moments of dissent.

This pamphlet is meant to be read simultaneously alongside the printed map of NYC and the modeled scenarios.

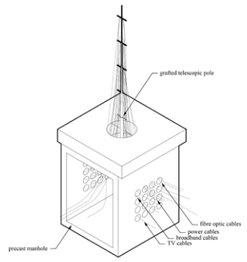
ADV Studio V - Fall 2021 - Aya Abdallah, Nayef Al Sabban, Osvaldo Delbrey Ortiz

Guerrilla Wi-Fi
Antennas



1

Uncearthing the Underground
Manhole



2

School Technical Workshop
School Program

School Board District #13
Community Service Program

Article 364005
In accordance with the community's decision to reshape its relationship with the local internet infrastructure, School Board District #13 presents the following amendments to the community service programs:

Subdivision 1. **New Course Offering**. Each school board shall provide training to the student body in the form of a course for internet equipment repair and allocate space in the woodshops for these courses.

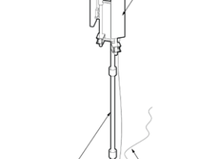
Subd. 2. **Community Service Hours.** Students are to dedicate 5 of their total 20 hours of supervised community service during non-school hours to volunteer repairing local internet infrastructure.

Subd. 14. **Community education; annual report.** Each school offering a community education program under this section must annually report to the New York City Department of Education.

School Board District #13
New York City Department of Education

3

Window Sill Antenna
Antenna



4

Kitchenless Servers
Contract

COMMUNAL-SERVERS STORAGE AGREEMENT
BETWEEN
130TH ST. NEIGHBORS ASSOCIATION
AND
GRETTA STAV

The 130th Street Neighbors Association ensures the collective well-being of the neighborhood and aims to provide equitable services for all its residents through localized support systems.

With this agreement, Gretta Stav agrees to lend space in her kitchen at **48 W 130th St.** to the community for the storing of communal servers. In exchange, the community agrees to collectively keep her kitchen well stocked, and to ensure it has the proper maintenance for the communal kitchen project. The agreement stipulates the following terms:

1. Maintenance access: Wednesday–Saturday, 9 AM–6 PM.
2. Meal provision for volunteers.
3. Supply and grocery delivery, Sunday mornings.
4. Communal food drive; Fridays and Sundays 8 PM.

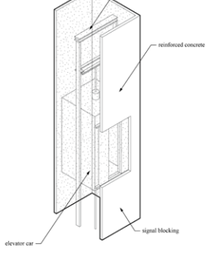
130th Neighbors Organization
Central Harlem, New York City

5

Maintenance Icecream Cart
Service cart

6

Library Server Archive
Rolling stack shelving



7

Garden Cabling
Cables

8

Building Data Mailbox
Datubes

9

Story Recording Junction Box
Junction box

10

Chimney Servers Conveyor
Server shaft

11

Public Radio Antenna
Antennas

12

Senior Living Lack Rack
Data server

13

Neighbors' Agreement
Building notice

Dear tenants of 212 W 81st Street,

We're so glad you've all opted into the building family data sharing plan!

In this situation, please be mindful of your over-streaming capabilities as you are now sharing a collective pool with all your neighbors. It is important that each tenant keeps track of their usage and does not exceed it.

If you wish to use more internet in a particular month, please alert the building committee and we will try to negotiate leftover data from another apartment.

For any complaints, reach out to us or to your neighbor directly. This new system allows for new connections between building tenants, hopefully fostering a culture of communication and respect.

Thank you,
212 W 81st Street Building Committee

212 W 81st Street Building Committee
Upper West Side, New York City

14

Concrete Retreat
Elevator

15

Ecosystems of Dissent

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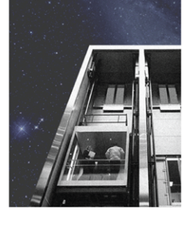

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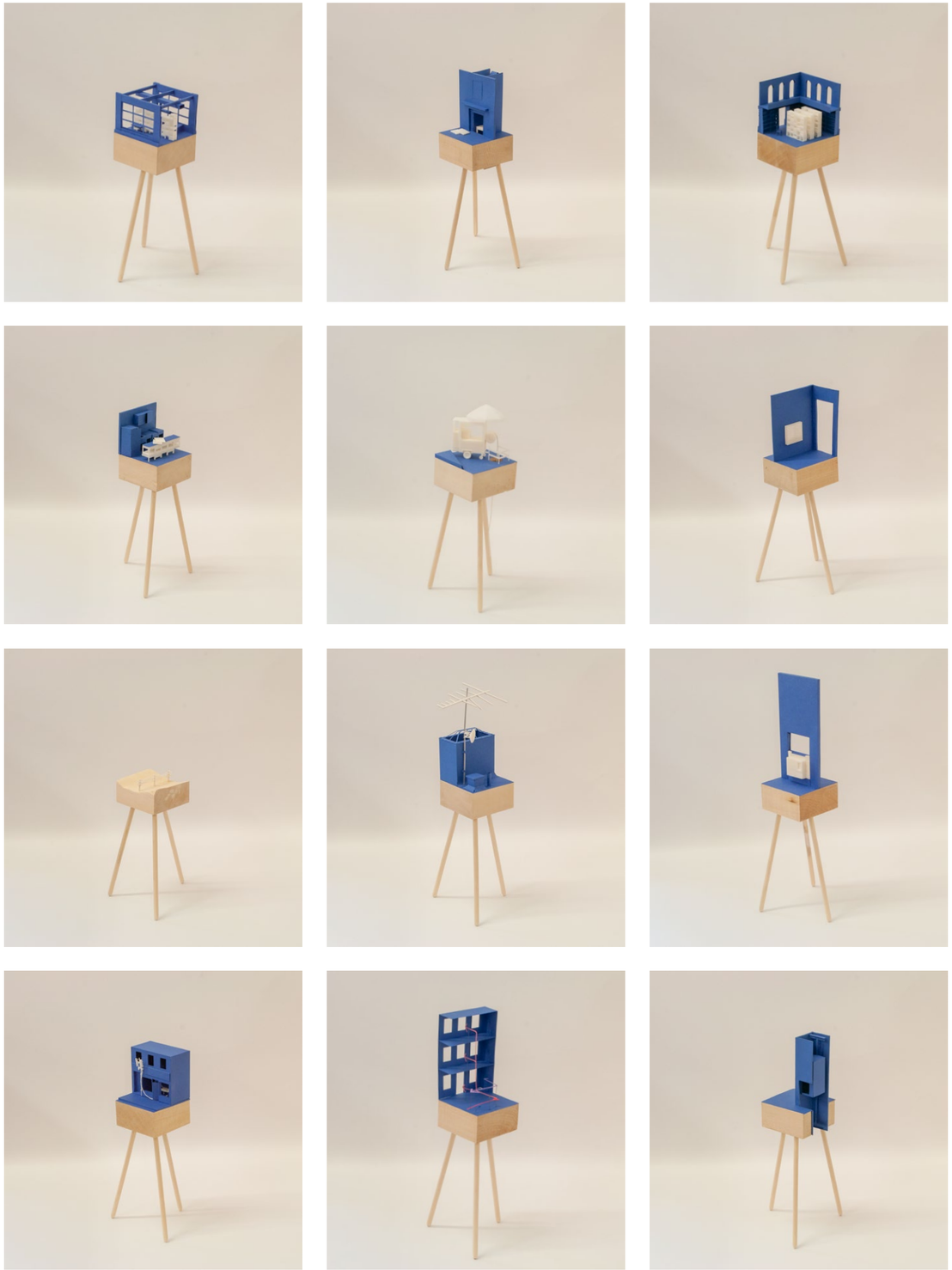
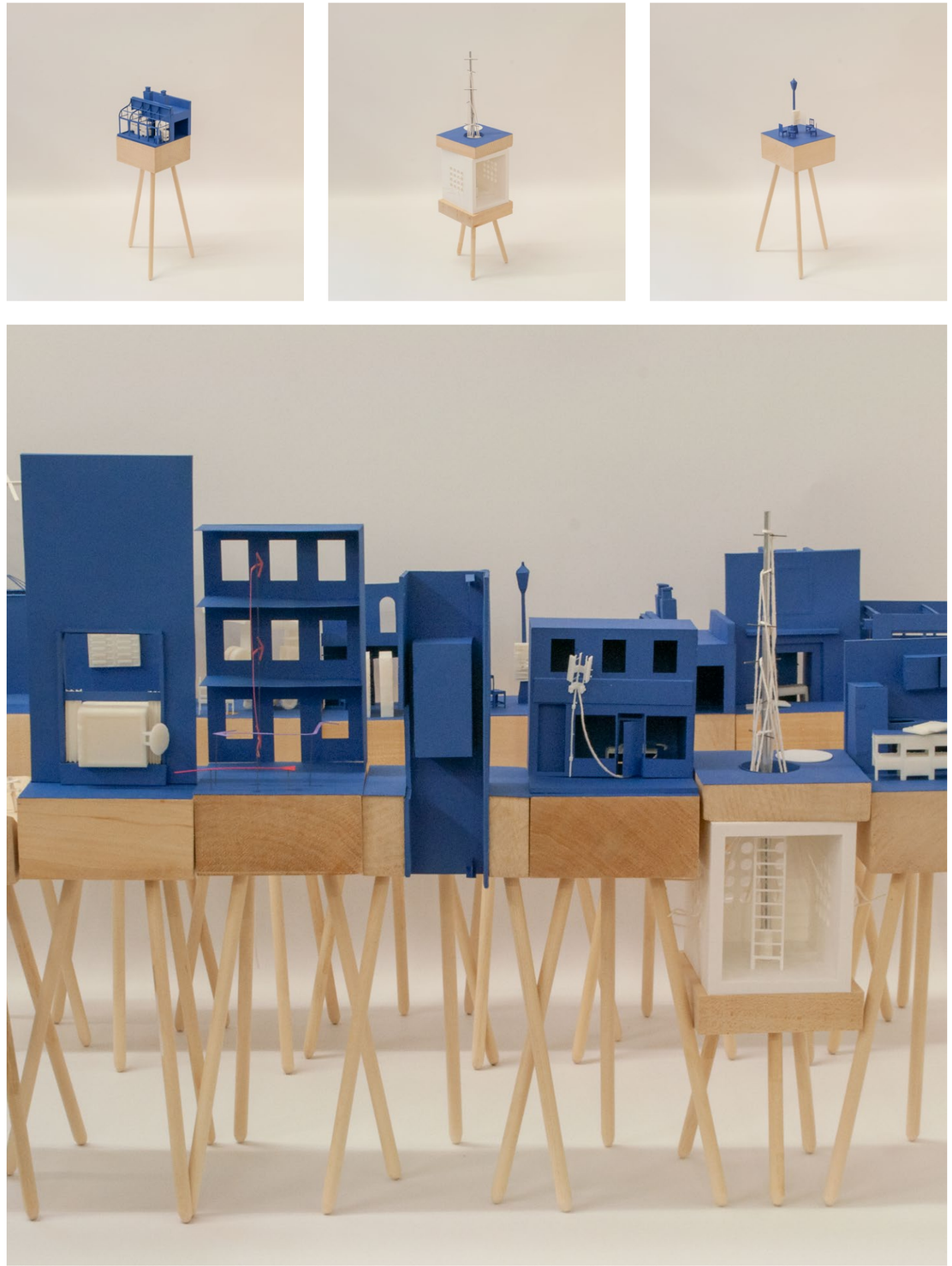




A Second Cyborg

Kitchenless Stories Instructor: Anna Puigjaner 2021

This essay interrogates Donna Haraway's *Cyborg Manifesto*, and re-examins the 'cyborg' through the innocuous ways in which technological infrastructure operates.

(Excerpt)

In September of 1960, two NASA engineers, Manfred Clynes and Nathan Kline, defined the neologism *cyborg* in their essay "Cyborg and Space" as a synthesis of organism and machine.[1] Even before the word was coined, popular culture had already been saturated with fictional images and stories of the cyborg as a figure; novels and movies imagined a new form of fantastical being which, by its very existence, stood in opposition to the traditional boundaries defined by the human subject.[2]

In September of 1960, at NASA's Langley Research Center, Katherine Johnson performed computing runs for the country's first manned space program: Project Mercury.[3] Johnson and her colleagues at Langley constituted a black female workforce called computers. They were tasked with completing the mathematical calculations and technological management necessary for the system to operate.[4] Despite how essential the work of the computers was to the success of NASA's space aspirations, their contributions have largely been overlooked. Their labor, despite its necessity, was viewed as mechanical and was undervalued. This view of the

computers as “machines” was reflected in their working conditions and the spaces in which they operated. They reflected a more significant national social moment where female computers and switchers (terms which are now exclusively used to describe technological equipment) worked to maintain the technological infrastructure of the United States.

When Donna Haraway wrote The Cyborg Manifesto in 1984, she imagined the possibilities of socialist feminism to engage with science and technology in the context of late 20th-century capitalism through a feminist recontextualization of the term cyborg. Central to this engagement was the evolving relationship between organisms and artificiality, between humans and machines. Haraway framed the identity of cyborgs as a tool that undermined gender constructs and as having the potential to create new emancipatory social conditions. The manifesto is a socialist feminist critique on biological essentialism; she writes that the edge where the organic ends and the inorganic machine begins is constantly shifting. As lines blur, old binaries begin to fade away.

“The cyborg is a creature in a post-gender world; it has no truck with bisexuality, pre-oedipal symbiosis, unalienated labour, or other seductions to organic wholeness through a final appropriation of all the powers of the parts into a higher unity.”[5]

However, the promise of emancipation through technology assumes that it operates in an ungendered and uniform manner. A closer analysis sees that the very details of technological infrastructure, its spaces, and the innocuous ways in which it operates produce a second form of cyborg, which rather than being emancipated by technology into occupying a post-gender world, is used for a form of underpaid, unacknowledged labor whose workforce are drawn from the lines of pre-existing socio-economic conditions. In places that are gradually becoming more hidden and harder to see, a second cyborg is drafted into invisible labor to enable the first.

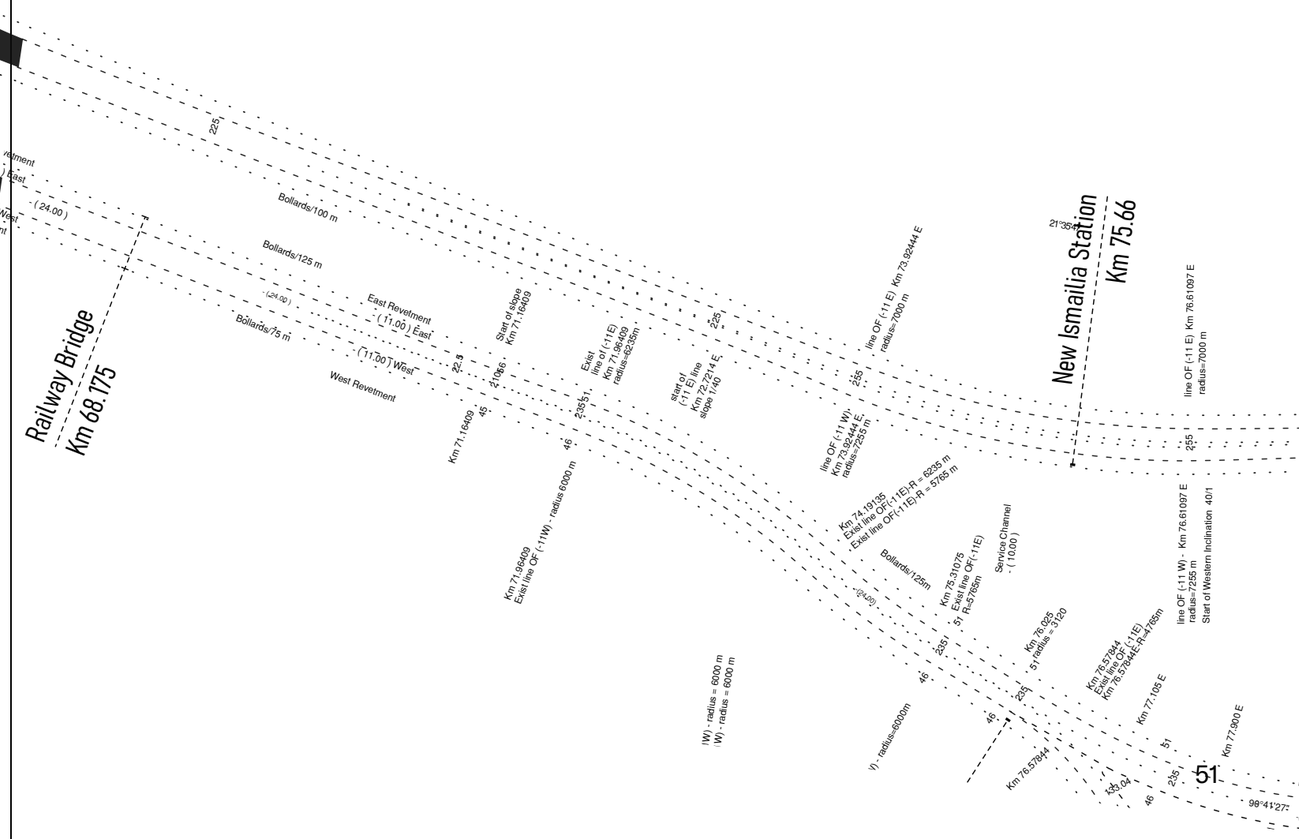
[1] Gunkle, We Are Borg: Cyborgs and the Subject of Communication, 334.
[2] Ibid., 332.
[3] Shetterly. Hidden Figures. 191.
[4] Ibid., 214.
[5] Haraway, Simians, Cyborgs, and Women. 150.

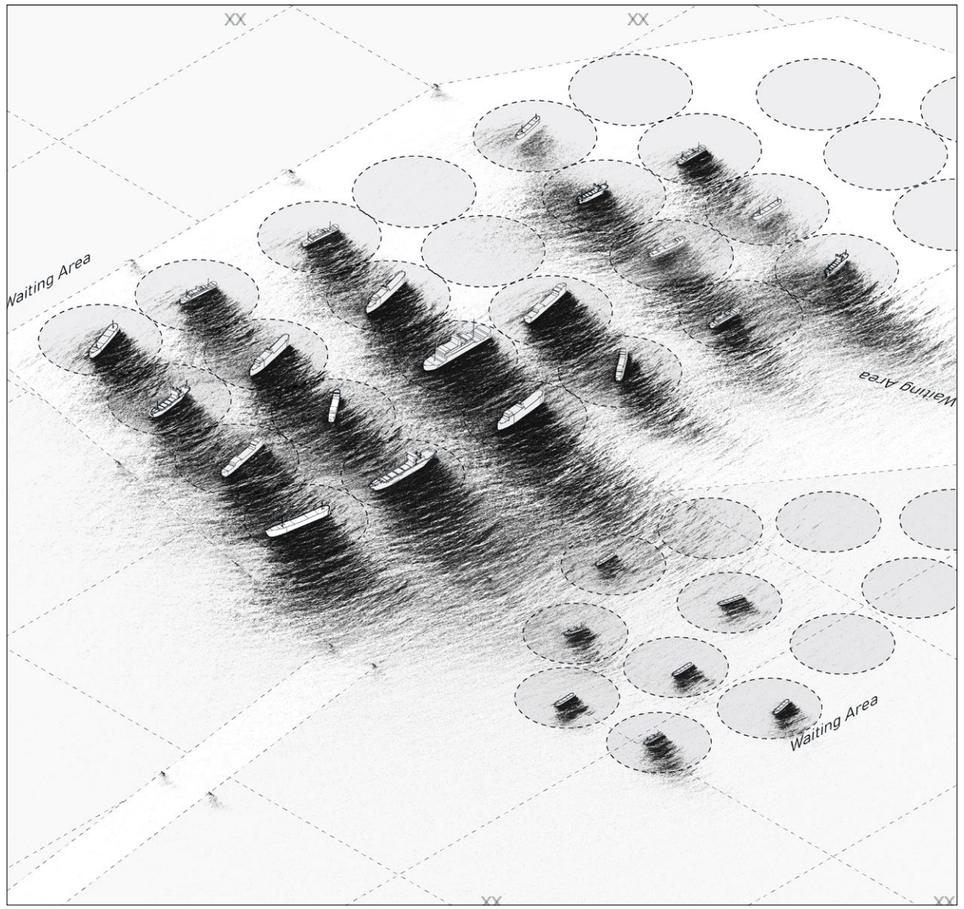
Slow Canal

ADV VI Detox USA Critic: Mark Wasiuta 2022

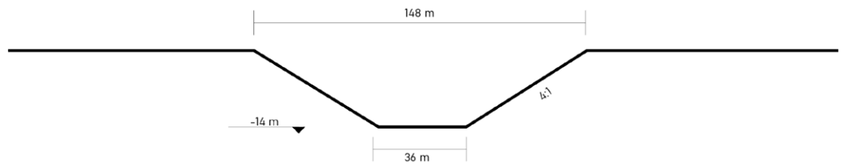
Cutting across Suez is a 120-mile long 700-foot wide waterway connecting the Red Sea to the Mediterranean.

The ostensibly simple act of moving petrochemicals and products from one body of water to the next ends up requiring a dense system of objects, spaces, and geopolitical negotiations





Through examining the mundane details of its logistical process, and the Historic moments where that process has been interrupted and sabotaged, we can identify a typology of circulation and interruption, and locate the objects and spaces in which that valving of power occurs.



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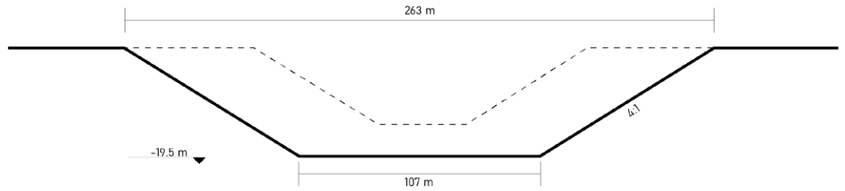

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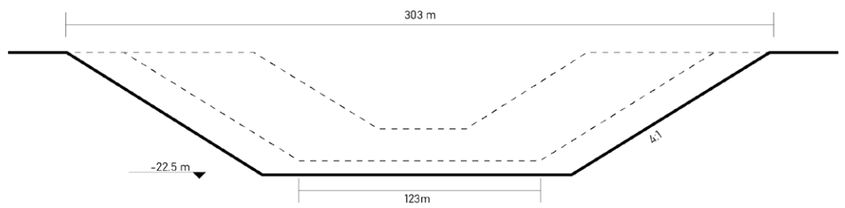
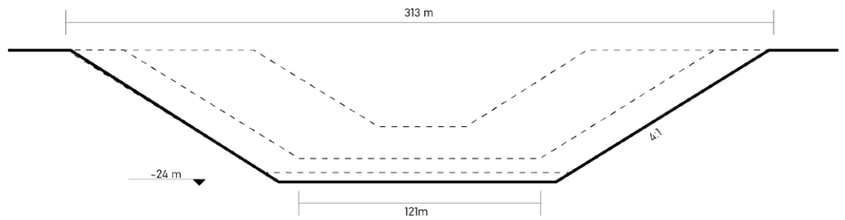
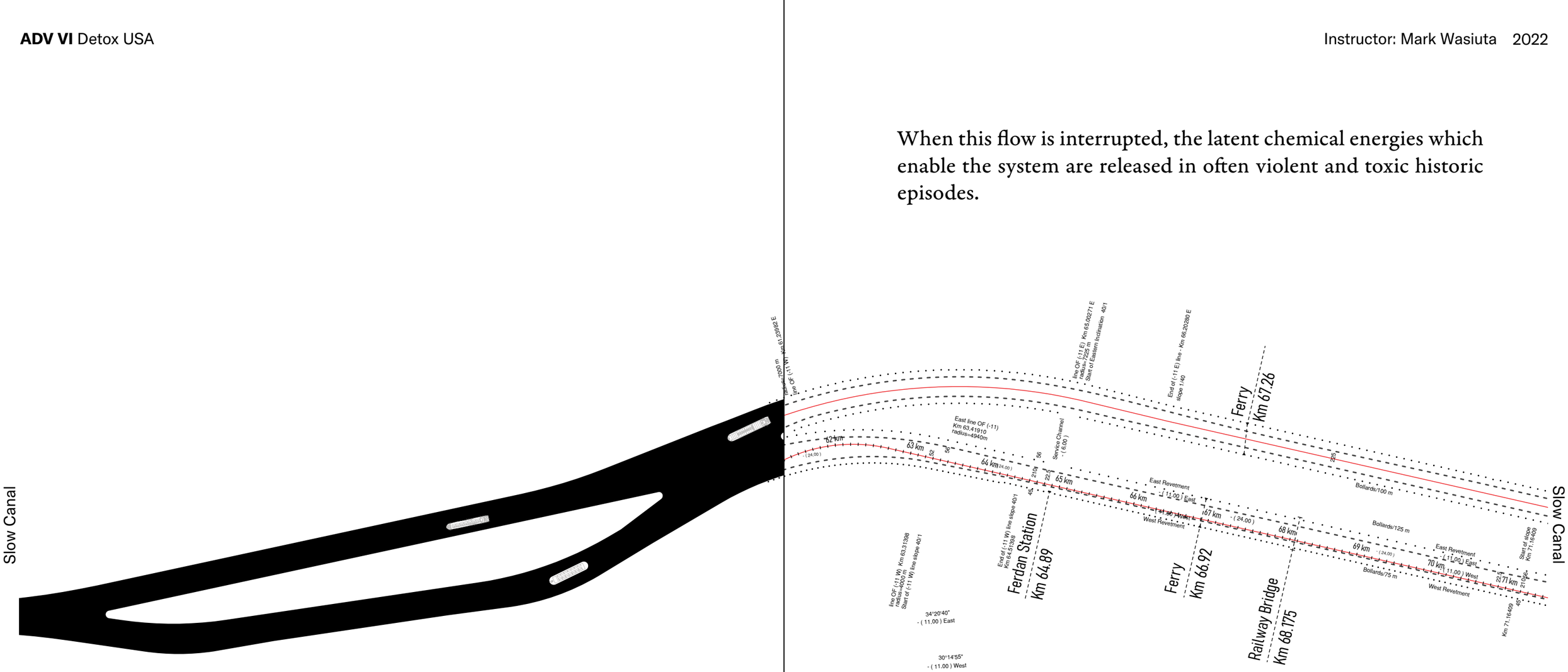


2001

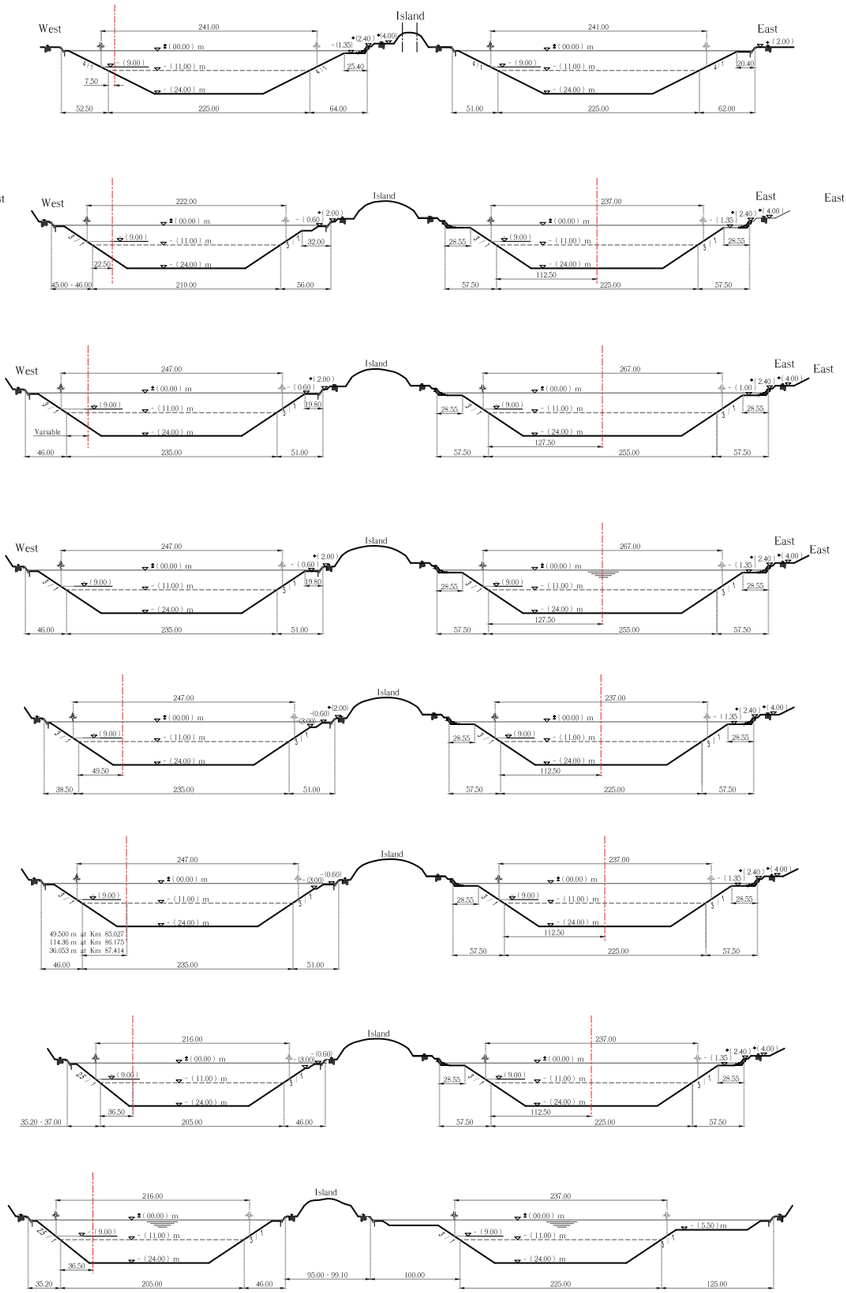


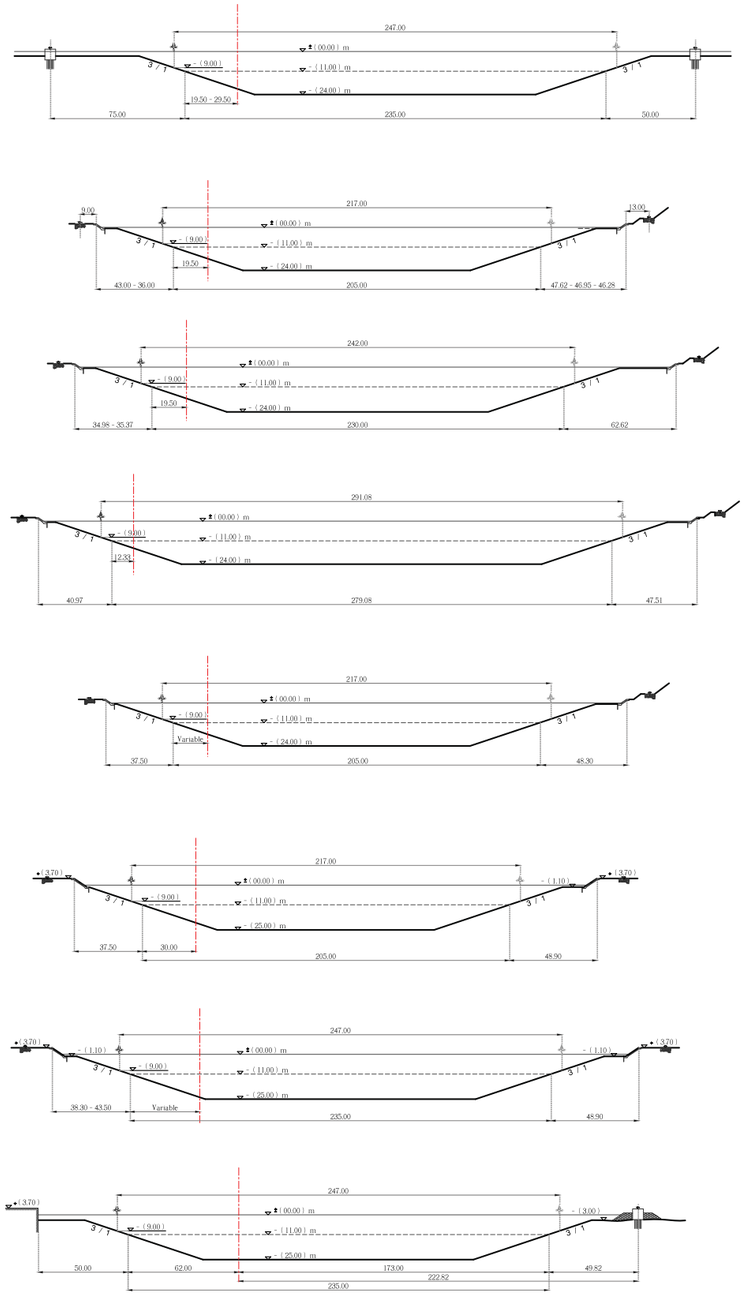
2010

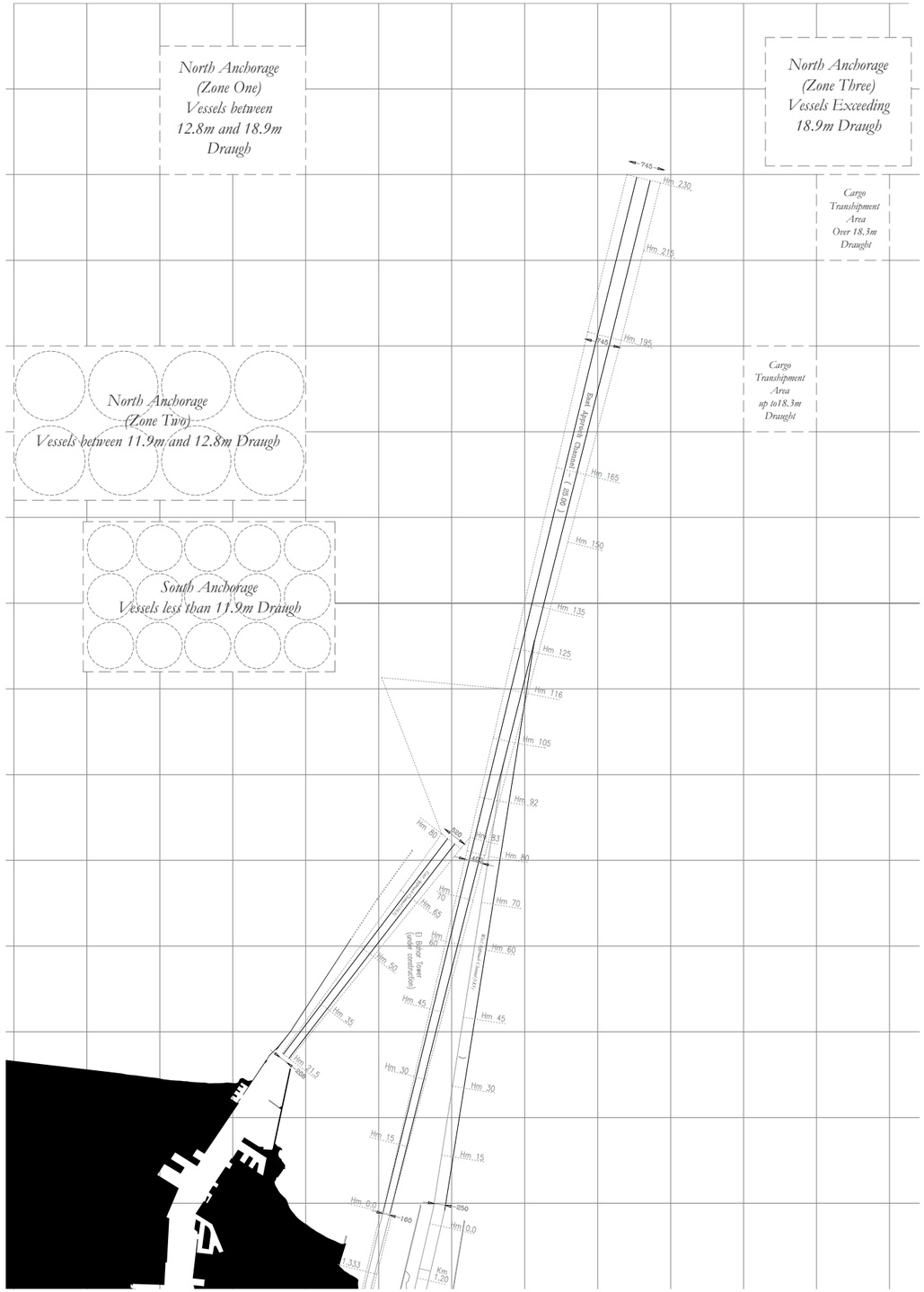


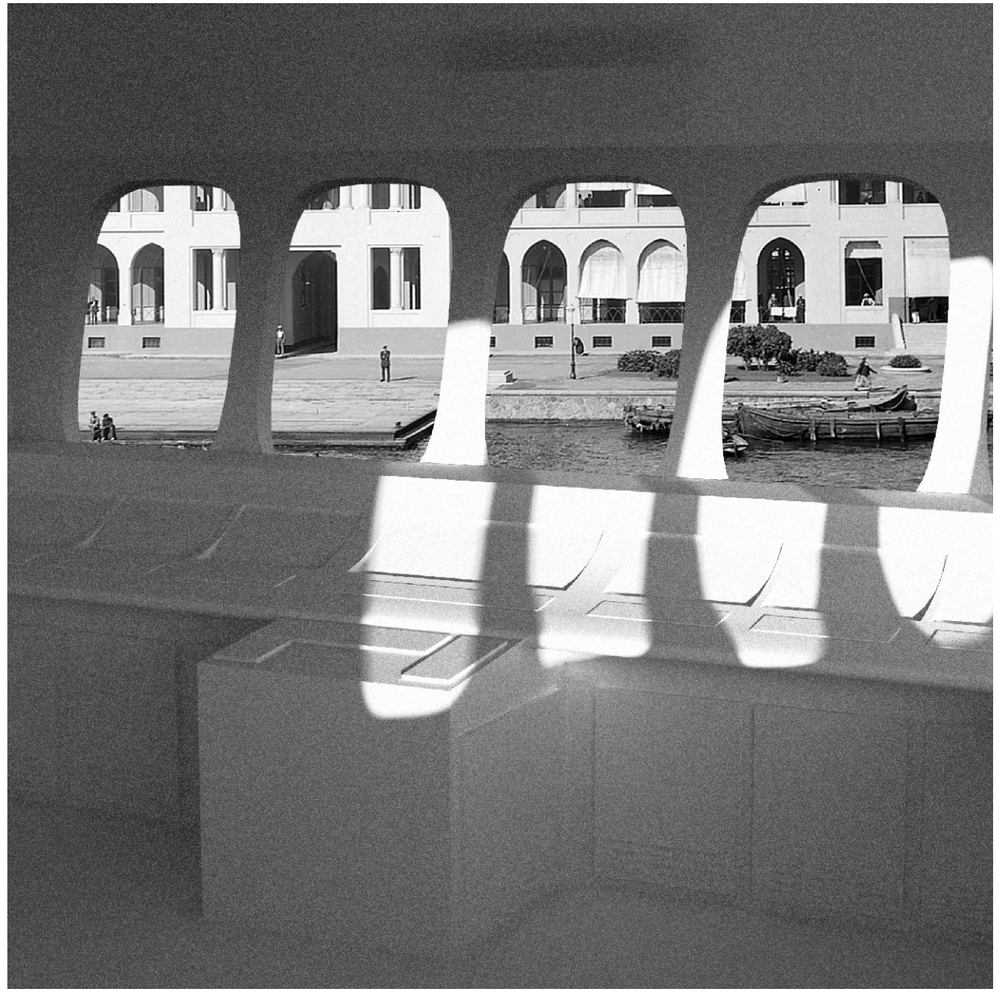
When this flow is interrupted, the latent chemical energies which enable the system are released in often violent and toxic historic episodes.

The Suez Canal not only transports petrochemicals and products; it is also charged and enabled by an abundance of chemical energy and objects. Channeled properly, this allows and facilitates global trade, and the movement of commodities.


West
Island
East
241.00
241.00
(00.00) m
(9.00)
- (11.00) m
- (24.00) m
7.50
52.50
225.00
64.00
51.00
225.00
62.00
(2.40)
(4.00)
- (1.35)
(2.00)
25.40
20.40
West
West
222.00
237.00
East
East
- (0.60)
32.00
28.55
22.50
112.50
45.00 - 46.00
210.00
56.00
57.50
225.00
57.50
247.00
267.00
Variable
46.00
235.00
51.00
127.50
255.00
19.50
247.00
267.00
49.50
38.50
235.00
51.00
127.50
255.00
247.00
237.00
49.500 m at Km 83.027
114.36 m at Km 86.175
36.053 m at Km 87.414
216.00
237.00
36.50
35.20 - 37.00
205.00
46.00
216.00
237.00
95.00 - 99.10
100.00
125.00
- (3.50) m


247.00
(00.00) m
(9.00)
- (11.00) m
- (24.00) m
19.50 - 29.50
75.00
235.00
50.00
217.00
0.00
13.00
19.50
43.00 - 36.00
205.00
47.62 - 46.95 - 46.28
242.00
19.50
34.98 - 35.37
230.00
62.62
291.08
12.50
40.97
279.08
47.51
217.00
Variable
37.50
205.00
48.30
(3.70)
- (1.10)
(25.00) m
30.00
48.90
247.00
38.30 - 43.50
Variable
235.00
48.90
(3.00)
50.00
62.00
173.00
222.82
49.82



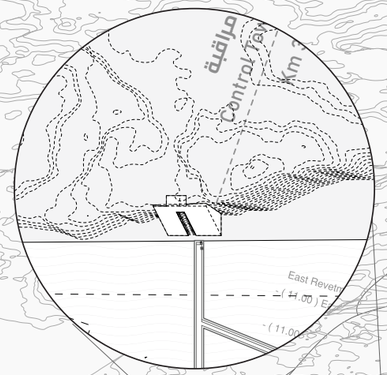


The administration of waiting,, stasis, occurs on both ends of the canal through anchorage points, By moving the administrative complexity to the center of the canal.

Slow Canal

The canal is viewed as a simple line that is unimpeded & unquestioned. When in reality it's a fragile colonial construction, the contingency of global trade is how interruptible it is.

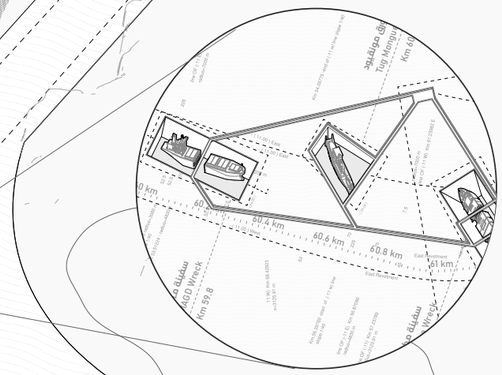
By re-choreographing the dimensions of circulation and redeploying the moments and tools of interruption the act of procession through the canal can commemorate moments of nationalization, violence, and sabotage.



Accumulating Sediment on the East Bank of the canal

Observation/ Control Tower

Sediment banks held back by retaining structure embeded with control centers



Pontoon Walkway

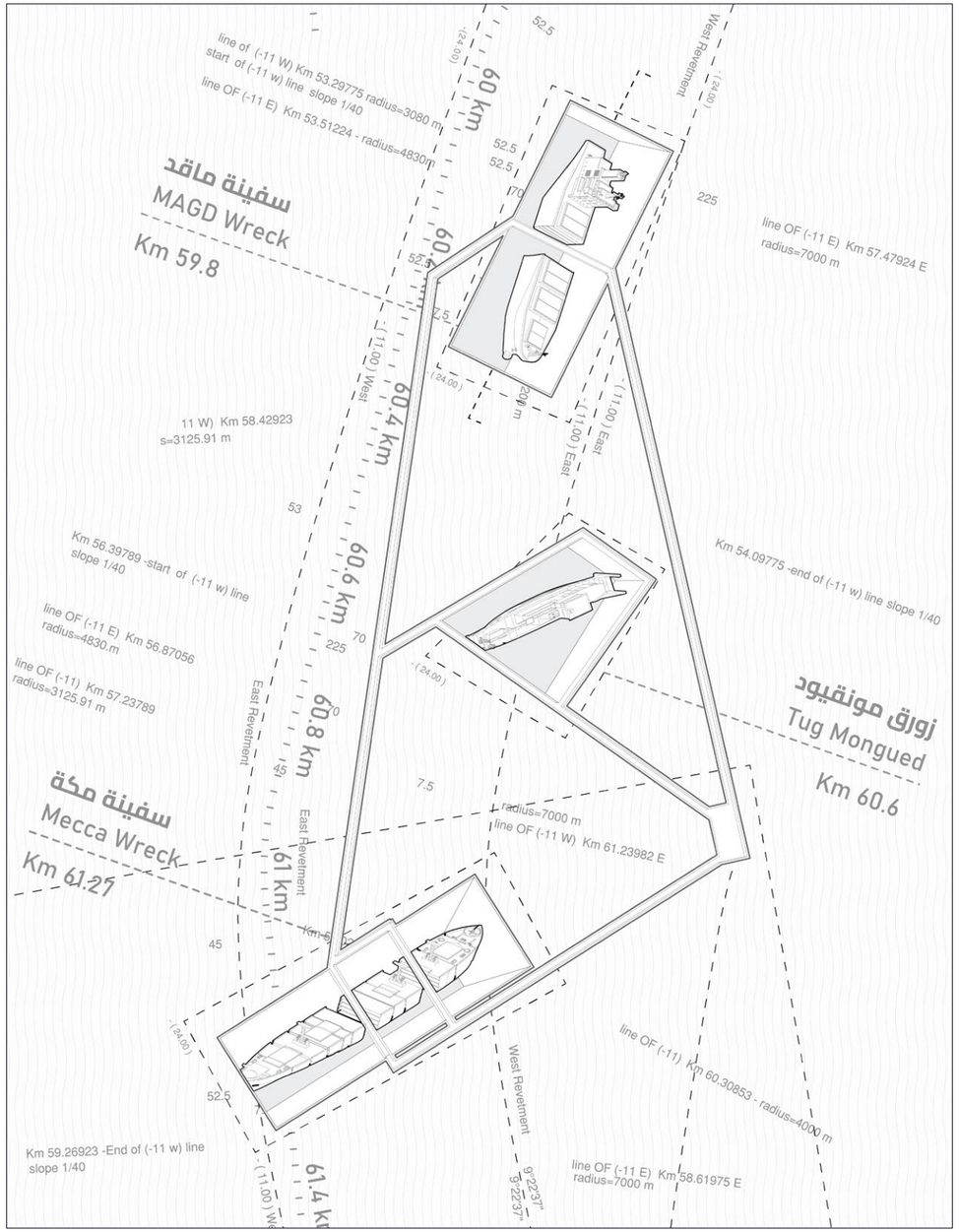
Walkways to access wrecked ship sites. Engages with water level

Wrecked Ships

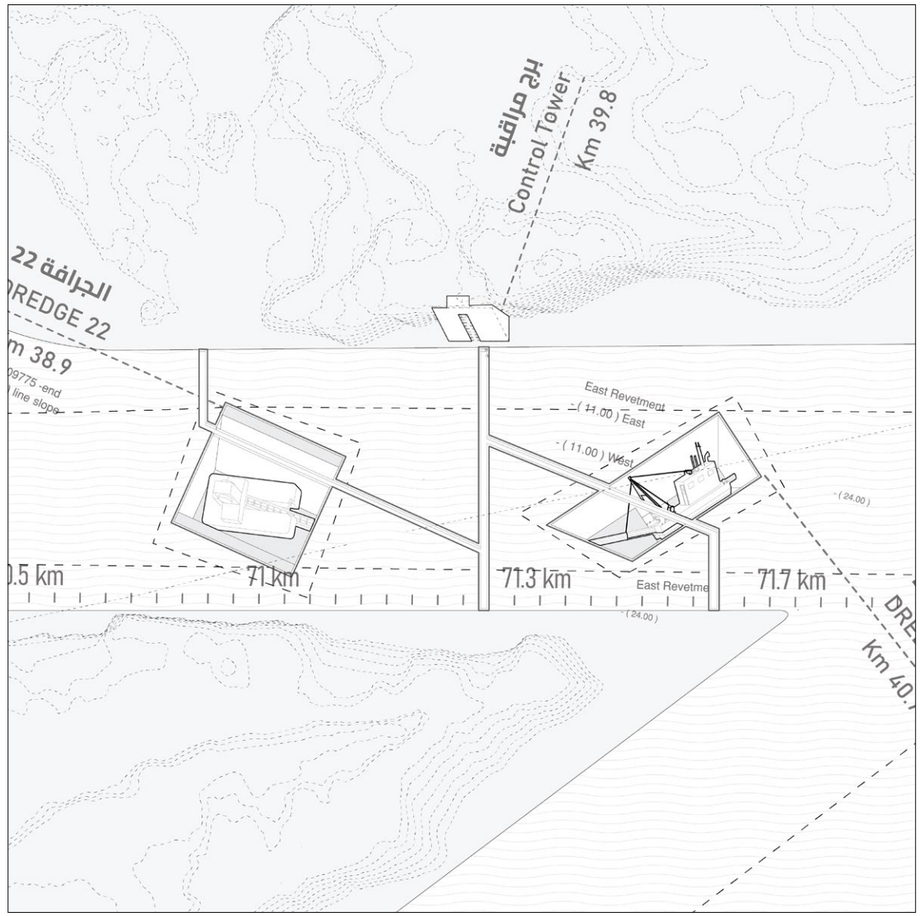
Held in Cassions at water level. Restored above the waterline

Anchored Ships

Forced to anchor for an additional 15 hours, ships go through stasis as an act of commemoration

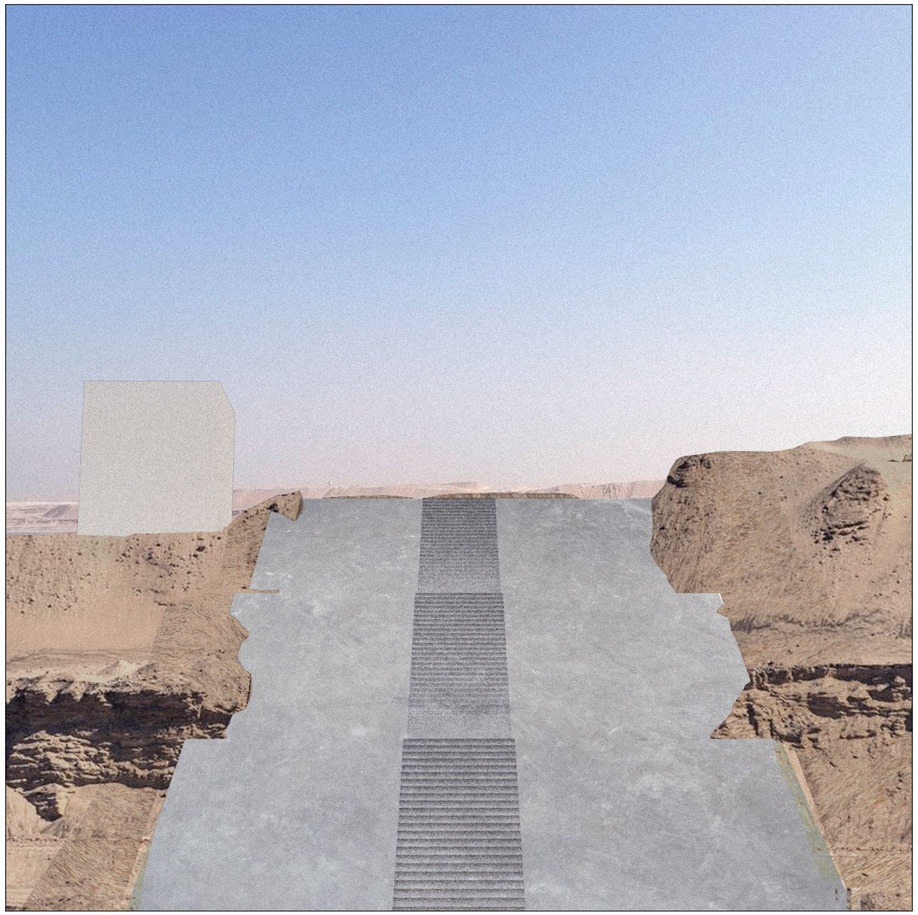


The act of procession through the canal can commemorate moments of nationalization, violence, and sabotage.

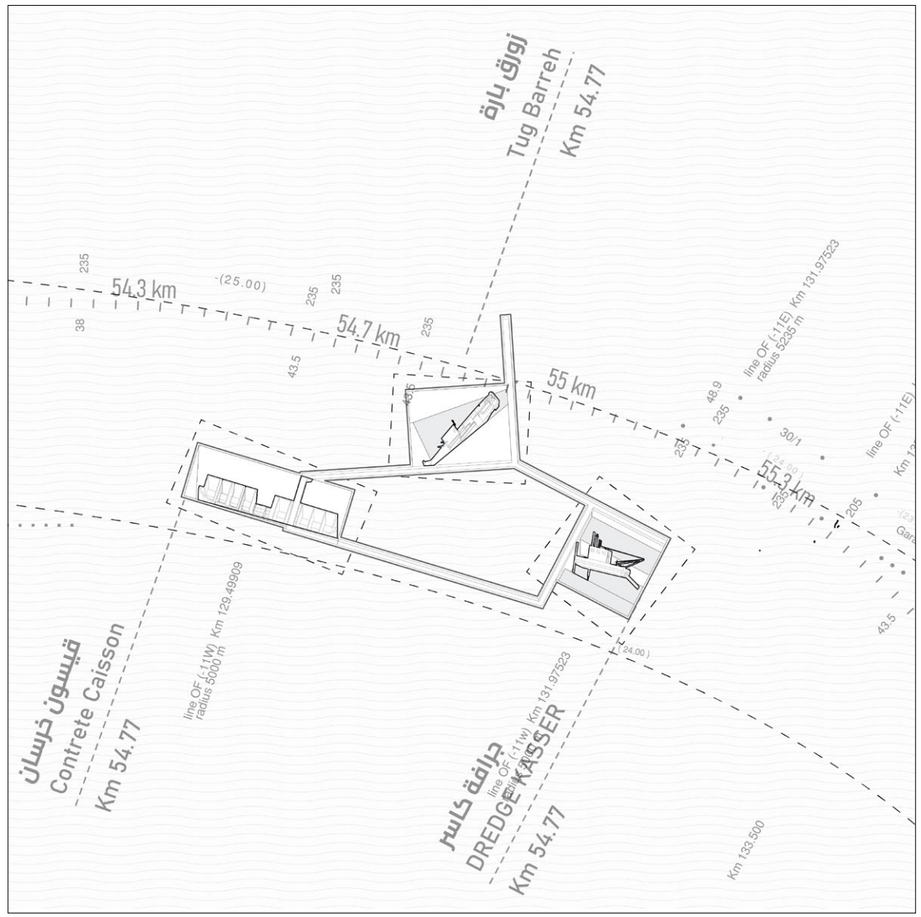


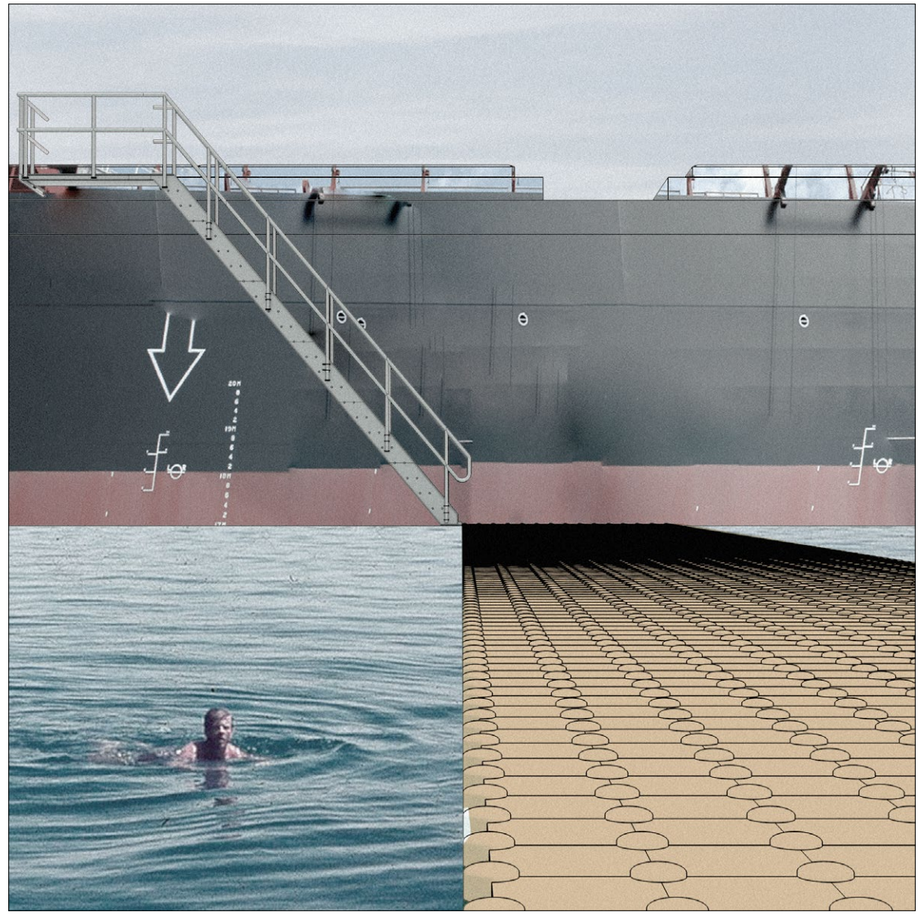
The ostensibly simple act of moving petrochemicals and products from one body of water to the next ends up requiring a dense system of objects, spaces, and geopolitical negotiations

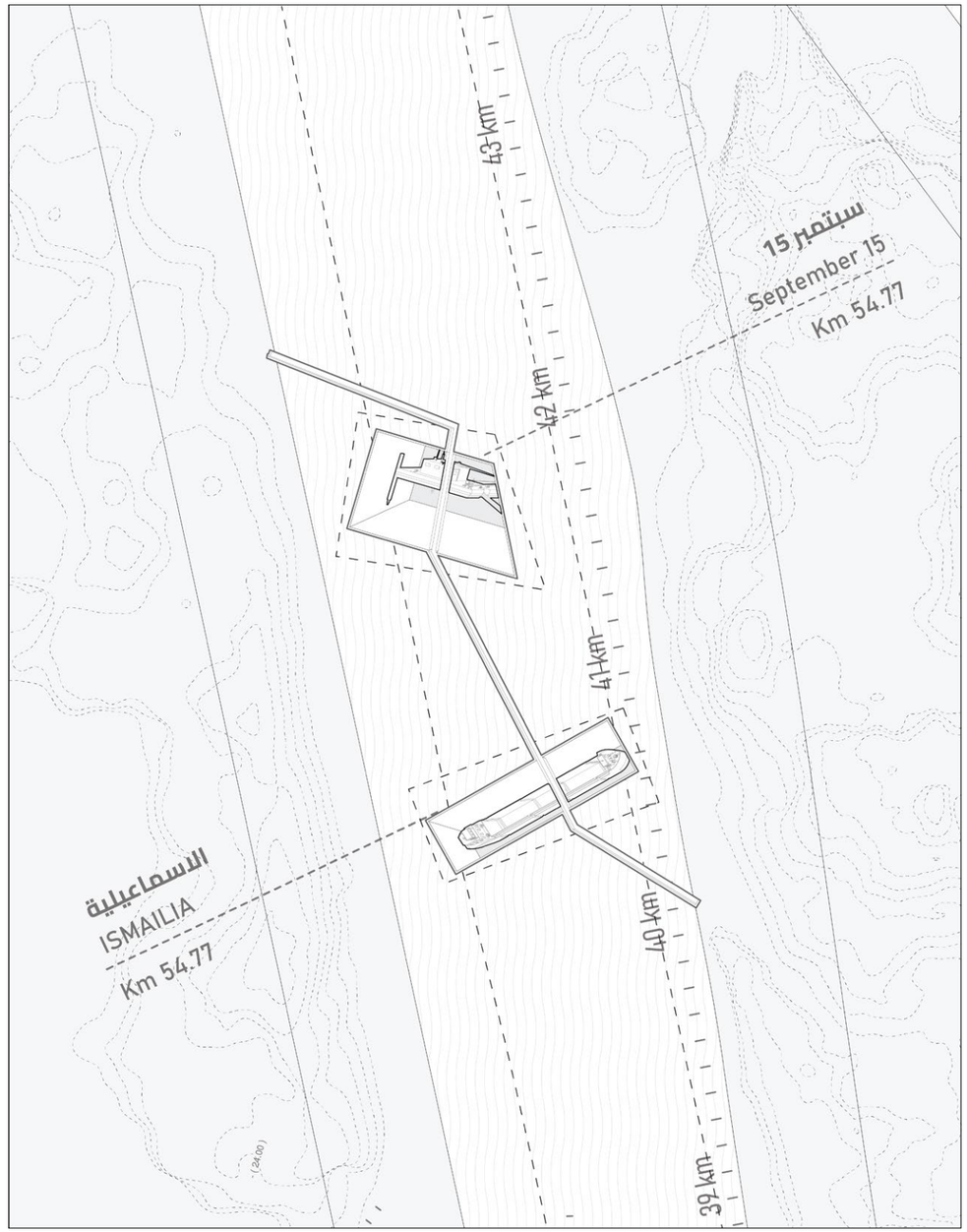
On the periphery, control and observation towers are placed in gaps between the accumulating displaced sediment.



The ostensibly simple act of moving petrochemicals and products from one body of water to the next ends up requiring a dense system of objects, spaces, and geopolitical negotiations





The ladders on the side of anchored vessels are required to be permanently deployed to allow local economies to co-opt the moment of stasis.

A condition is created where both the petrochemical activities and cultural moments occur simultaneously by co-opting the logic of the canal.