# 1:1

A collection of ideas conceived at GSAPP that distinguish design relative to scale, use and a sustained vision.

**Anoushae Eirabie** 

ADV - VI STUDIO

#### **BREATHE AGAIN**

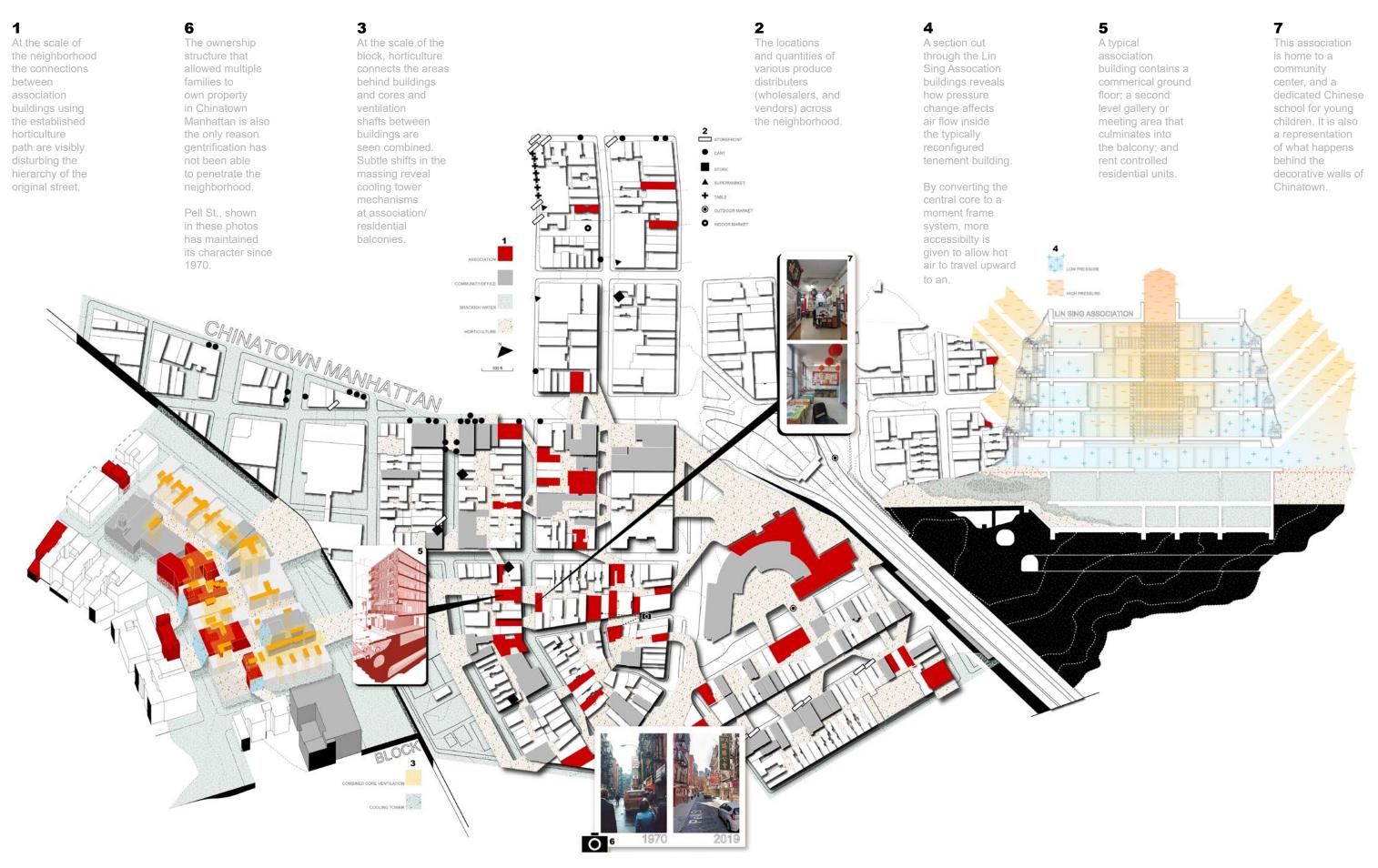
Donna Haraway in her lecture Staying with the Trouble: Making Kin in the Chthulucene states that "we require each other in unexpected collaborations and combinations, in hot compost piles. We become with each other, or not at all."

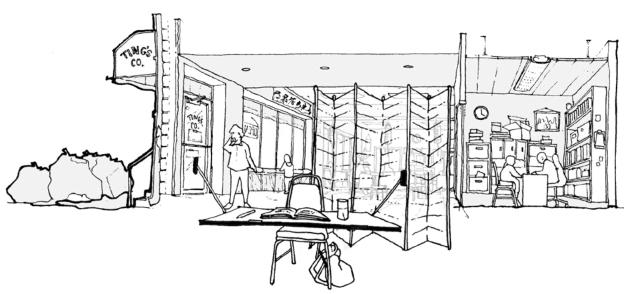
Breathe Again envisions a future in Manhattan if we grew with one another across different species, and how diverse and complex narratives may evolve in accordance with our inevitably changing climate. The project, based in Chinatown's Manhattan, investigates systems that render a physically built environment and mines these realities for unique conditions of care and kinship: A system of collective ownership represented in the association building typology when interrogated reveals complex familial and intergenerational dynamics; a robust produce market is built on relationships requiring deep trust between farmers, wholesalers and vendors; a model for ventilation in a humid tropical climate fundamentally changes the programmatic profile of spaces that exist in a typical tenement building.

Breathe Again is presented over a timeline of 75 years designed to represent care as a collective assemblage.

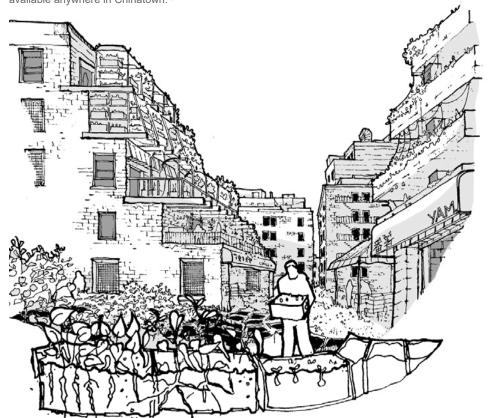
Critic: Anna Puigjaner Collaborator: Ava Sierra Heckman Semester: Spring 2022





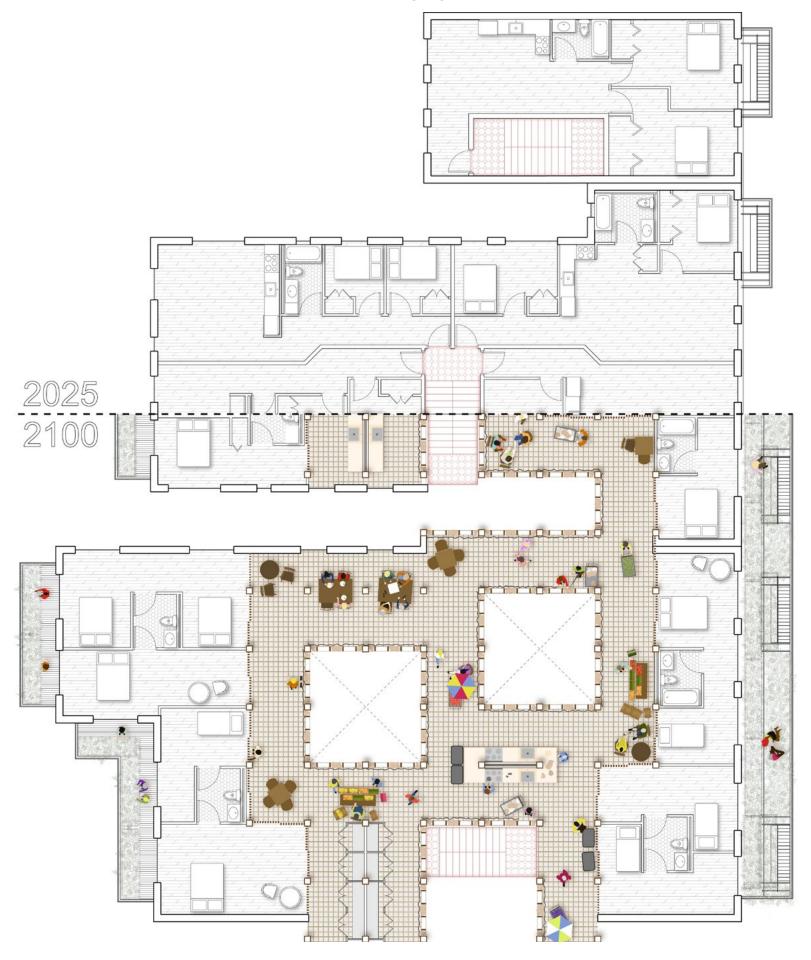


My mother never yells in front of the customers, so the day she did is stuck in my memory. It was a February evening and I was supposed to be reading behind the check-in counter at the small desk mom installed for me to do my homework, but instead I was distracted by the snow, it was one of the last days I remember the snow falling in the city, it was so pretty when we walked to the restaurant after school. My sister and I always came to the restaurant to help mom, and to take Chinese lessons with grandpa on the weekdays. It was where all the best things happened...birthdays, my grandma's famous dumplings, playing with cousins... But the day my mom was yelling wasn't a good day...she was angry because we had to take our best-selling chicken dish off the menu. It was a spicy recipe but no chill peppers were available anywhere in Chinatown.~



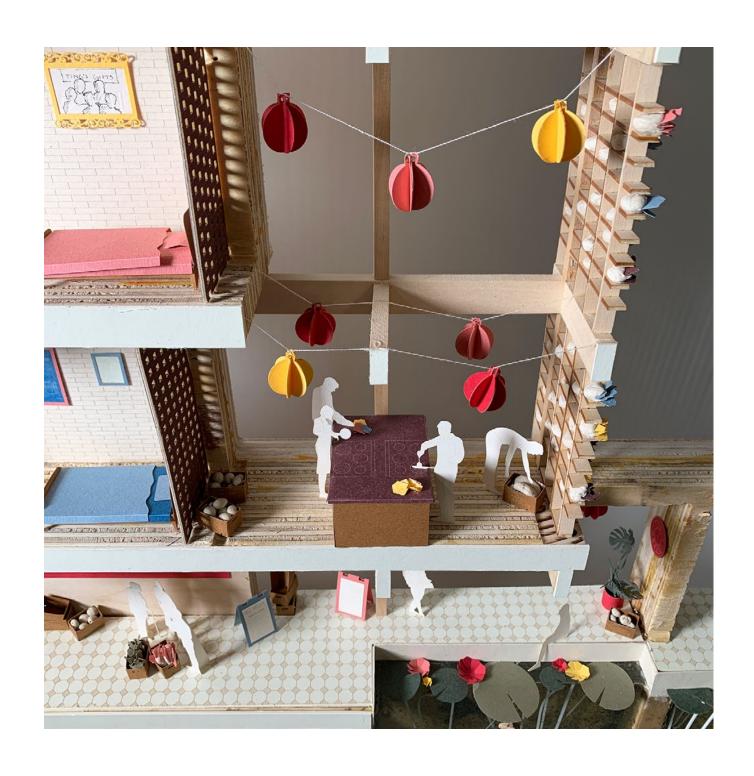
#### 2075

David Ting was particularly happy the fennel was gone. He leaned over to place the marjoram he had traded just a moment ago into the empty slot in the family garden and took a deep breath, the smell of the neighbors' yuzu trees leaving him feeling refreshed. His grandmother was hoping marjoram would keep aphids away from the chili plants the family was known for cultivating and maybe then they could bounce back from a very difficult year of agitated crop. It was definitely a bad tip, trusting farmers was a difficult business, many of them were upset that associations had taken it upon themselves to start growing and trading their own crop, but it was becoming difficult to wait for supplies, the water level alone was enough justification to take matters into their own hands. Next time David would try companion planting on a balcony before planting in the garden.











ADV - V STUDIO

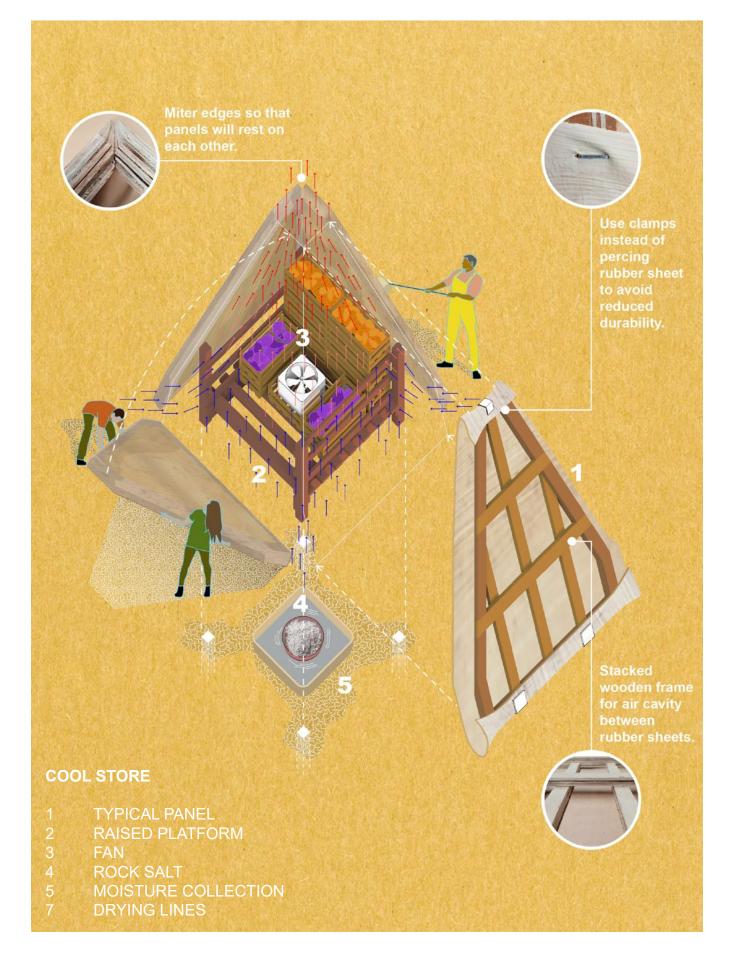
#### **RESET: RUBBER**

RESET: RUBBER recognizes the compounding negative impact monoculture farming has on the environment, and the robust carbon sequestration potential of natural rubber and its byproducts. The project argues for a wider methodological redefinition of sustainability through the design of products and processes that encourage continuous exchange and maintenance while deploying localized methods of cultivation and production.

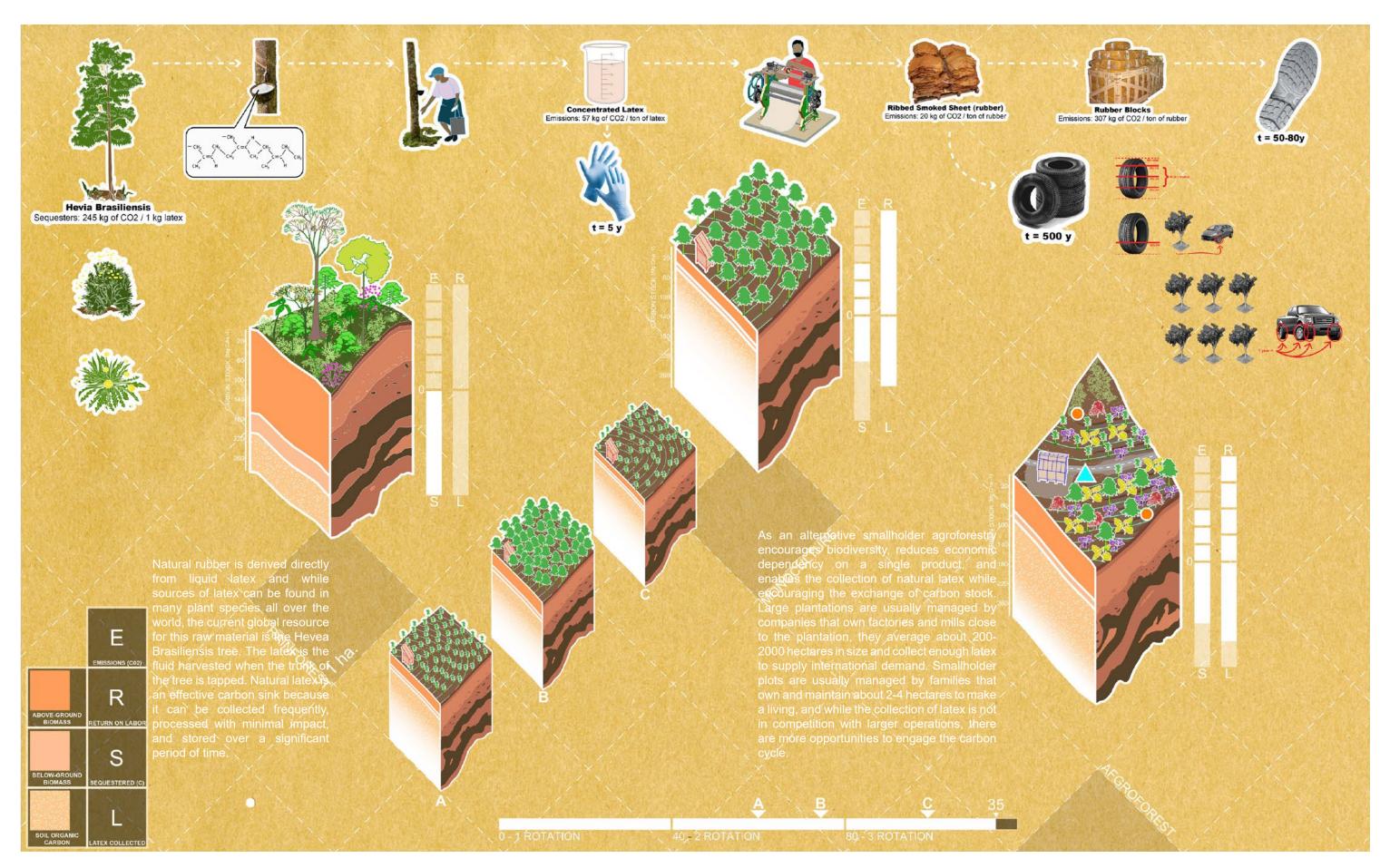
The imbalance between short-term human needs and the maintenance of long-term ecosystems compromises a monoculture's ability to supplement systems like biodiversity and soil fertility. The solution isn't just about sequestering as much carbon as possible, but retaining an active carbon cycle.

One such way to achieve this is to focus on a scale of use that is continuous, or necessary. The sustainable alternative to a monoculture farm is an agroforest, though crop spoilage is a major challenge for the average farmer. Rubber is an excellent insulator, so RESET: RUBBER proposes the design of a cool store that uses a rubber skin to control the container's environmental properties. A conical shape forces warm air out the open top encouraging cooler air to come in through the base. Using rubber reduces the amount of power needed to operate a fan to assist air flow when necessary.

Critic: David Benjamin Semester: Fall 2021



ADV - V STUDIO



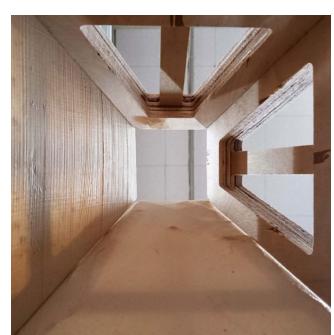


ADV - V STUDIO



A farmer will prefer a size that doesn't compromise too much space because it needs to be used in the agroforest. If it can be assembled with a minimum number of people it maximizes return on labor, and should be designed to be deployed over a variety of terrain, small design changes, like mitering the edges, and using clamps instead of staples, helps create a more durable product.







Maintenance of the product is routine, the sheets require constant re-application of liquid latex to retain durability. As long as the processing is minimal, the sheets are constantly subject to erosion meaning the product is still an active member of the upcycling of carbon, bacteria are still feeding off the latex because it is exposed to the environment. If the rubber sheet lasts longer than 40 years in use, it has successfully outlived a rubber tree, and all the latex used to maintain it is considered sequestered carbon.





Who Cares?

Motivations and Intentions Driving Healthcare Developed in Early Modern Europe

An excrept from an essay written for the Military Urbanism class as part of the History and Theory sequence.

Professor: Victoria Sanger Semester: Fall 2021

A guick Google search of 'healthcare' is all it takes to gain an understanding of the complexities that surround the topic. The third link down: hhs.gov (U.S. Department of Health and Human Services) proudly proclaims "Everyone deserves access to affordable, quality health care coverage and services." But try going any further and one immediately needs to confront a competitive assortment of insurance plans and services all concealing specific caveats, that will no doubt save providers a few thousand dollars each time someone needs to rely on their services. This phenomenon highlighting mixed messaging surrounding healthcare is not unique to the United States of America, but it might be unique to a capitalist economy, where every service needs to maintain a profitable purpose in order to foster competition in the system. The difficulties society faces in acknowledging 'health' and human 'care' as a humane right free from a profit-bearing identity, has its origins in how the concept of care was reimagined through multiple historical challenges. It is intriguing then, to study these intentions surrounding healthcare as they evolved alongside a period of extraordinary military

The use of gunpowder and the innovation of artillery weaponry was responsible for the reconfiguration of fortification towns and cities in the Early Modern era. The purpose of the research is to uncover or discover the complexities that motivated logistical mechanisms of care as they were organized/built into infrastructure in use between the fifteenth and nineteenth centuries. The methodology involves using a critical health issue to agitate the original infrastructure's purpose so that it might be read in relation to wider theoretical questions about intentions surrounding human care.

tactical and technical advancement.

The first set of analyses is driven by the implications of contagious infection, referencing the rapid circulation of widespread disease. It is important to note that this argument does not link injury sustained in warfare directly to the cause of infection, but rather correlates the formal arrangements and siege tactics characteristic of the physical fortress with the propagation of infection. Where the spread of pathogen was concerned, parameters such as: proximity, capacity and circulation would have been used to quantify the success or failure of containment.

#### **CONTAGIOUS INFECTION: THE FORTRESS**

On the one hand the sense of security a fortress provided was a necessary response to the incominoffensive, but on the other it worked to confine, constrain and "direct the movement of people around and between cities." An unfortunate recurring circumstance of siege warfare was the increase in the population of non-combatants seeking refuge within the walls of the fortress. Ironically, though they would have perished had they stayed outside the walls, the risk of infection increased as capacity inside the fortress increased, reducing proximity between bodies. An example that demonstrates this struggle succinctly occurred at the Great Siege of Malta in the year 1565: "A great number of corpses and mangled human remains buried under the rubble attracted huge swarms of flies; an epidemic of high fever that occurred within the Birgu fortifications was attributed to the presence of these flies." This scenario reveals that not only was their a risk in an overpopulated and overconstrained fortress in terms of immediate mass casualty, there was also the logistical issue of leaving large amounts of corpses to rot until the siege was over (which did take several months) culminating in conditions that put besieged towns in danger from the inside out. Those who had the power to shape the fortress town and its contents had to contend with a blurring of social order and military discipline resulting in frequent overlapping and friction between civilian and military intentions surrounding care. The spread of infection paints the fortress wall in two different lights, one as a protection against an oncoming siege, and the other as a container for disease.

To conclude, clear intentions as they pertain to mechanisms of care in the service of society have a tendency to be incredibly subjective depending on who funds them, who needs them and who they are benefitting. But as these motivations and intentions are challenged by unexpected, unbiased unilateral occurrences such as infection, or mass injury they begin to unravel and reveal priorities or opportunities that can be criticized and built upon.

In her text, Cities at War in Early Modern Europe, Martha Pollack eloquently states, "Military urbanism involves a monumentality of composition no longer proportioned to the size of the individual...This non-anthropomorphic scale system then abandons the human body as a standard of measurement." But what is most captivating about the research conducted to uncover complexities that motivated mechanisms of care is the emphasis on the human body as a catalyst for disruption. It is the body that carries infection, and it is the body that requires care and as such demands its right to be the standard of measurement.

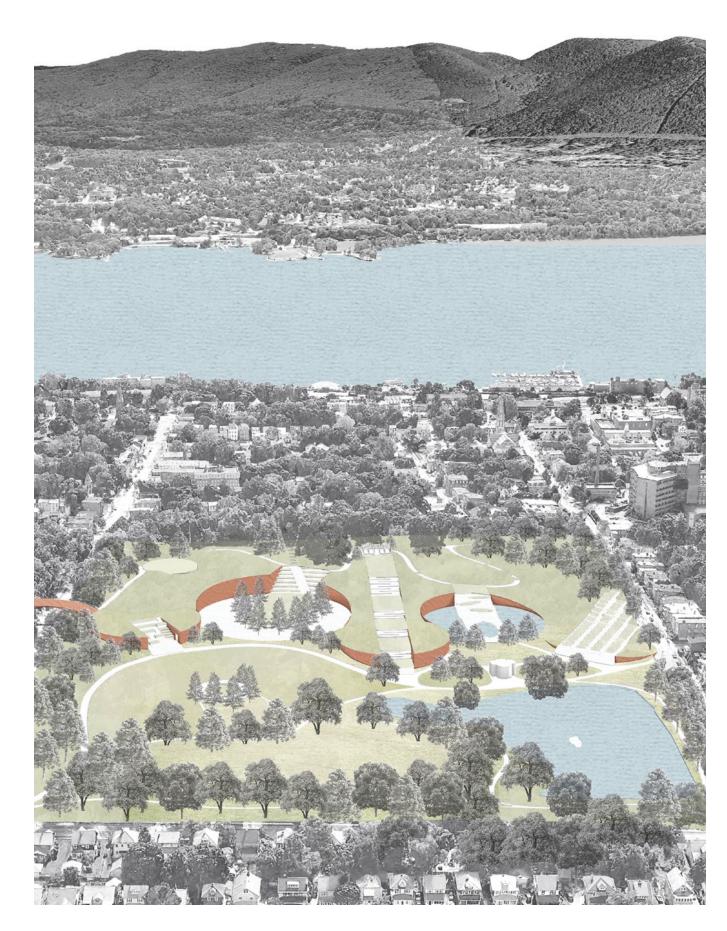
#### **SLOW DOWN**

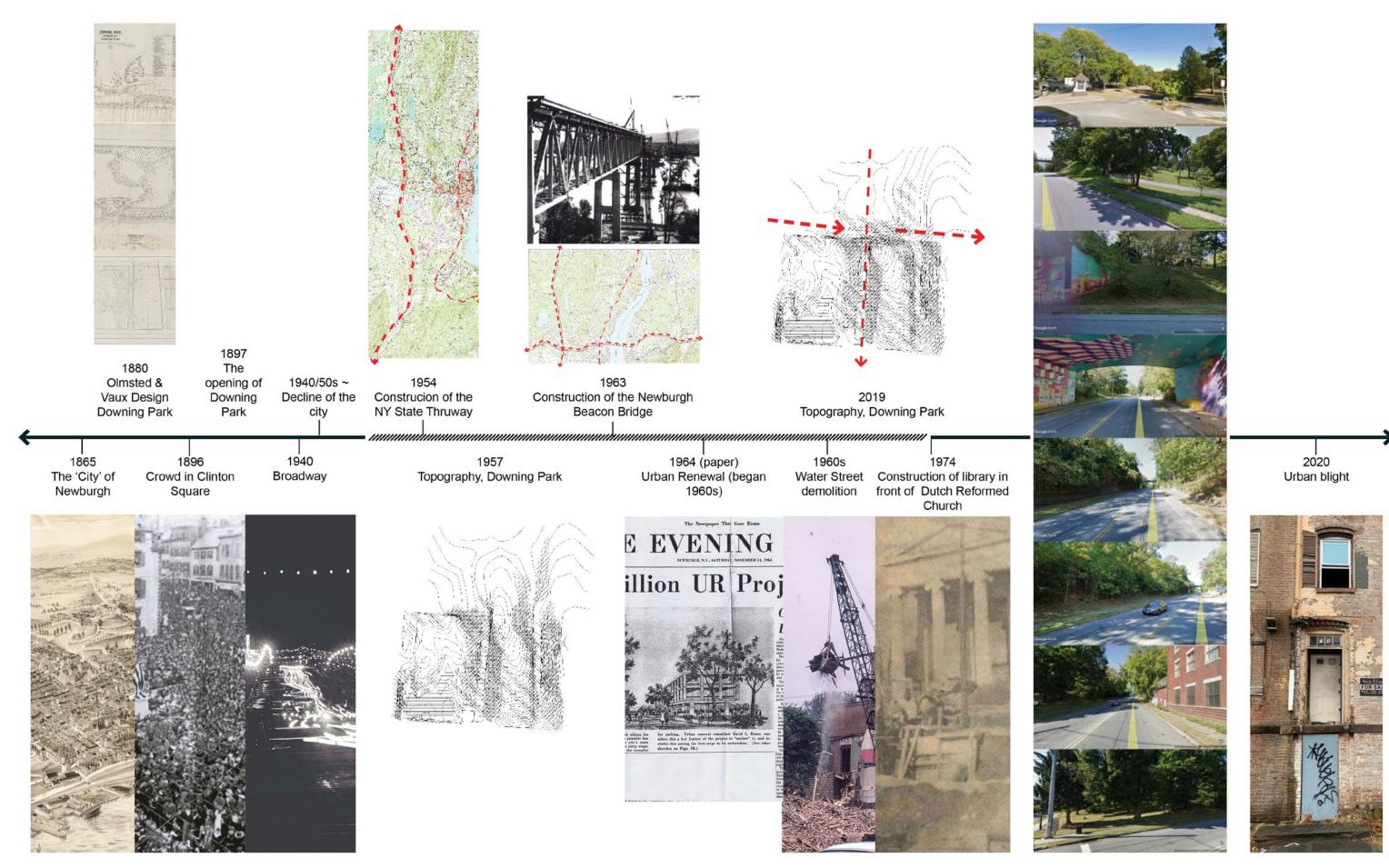
'Slow Down' proposes to change the pace of Newburgh as it approaches and experiences Downing Park. A series of phased interventions anchored by existing community interests, give priority to the movement of the pedestrian and reinstate the park as a neighborhood destination rather than a transitory space.

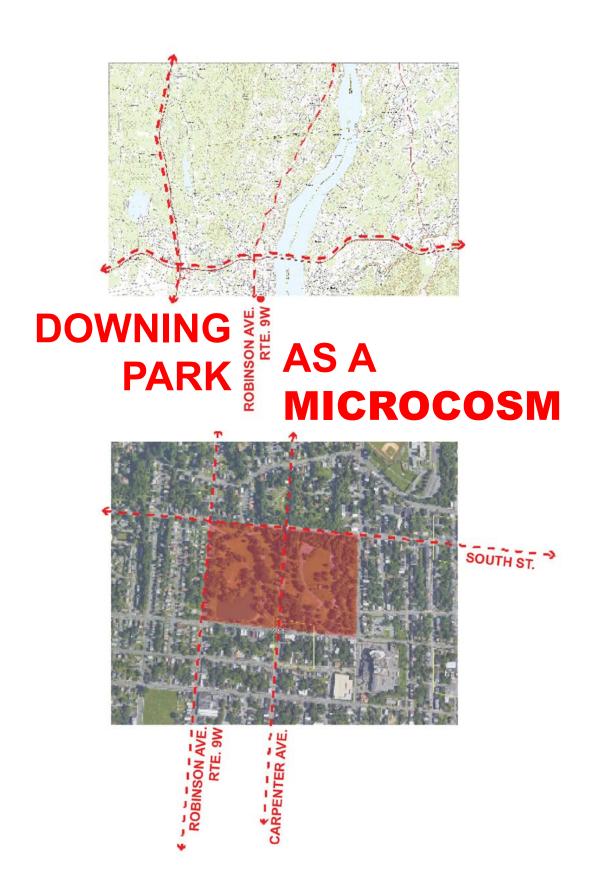
The project posits the change in trade mobility from maritime to landbased (trucking) as a moment that exacerbated the decline of the city materializing in infrastructural moves that prioritized the vehicle over the pedestrian.

Exploring what these changes meant for the identity of a public space was vital to understanding how the local community might reconnect with the park.

> Critic: Adam Frampton Collaborator: Yaxin Jiang Semester: Spring 2020





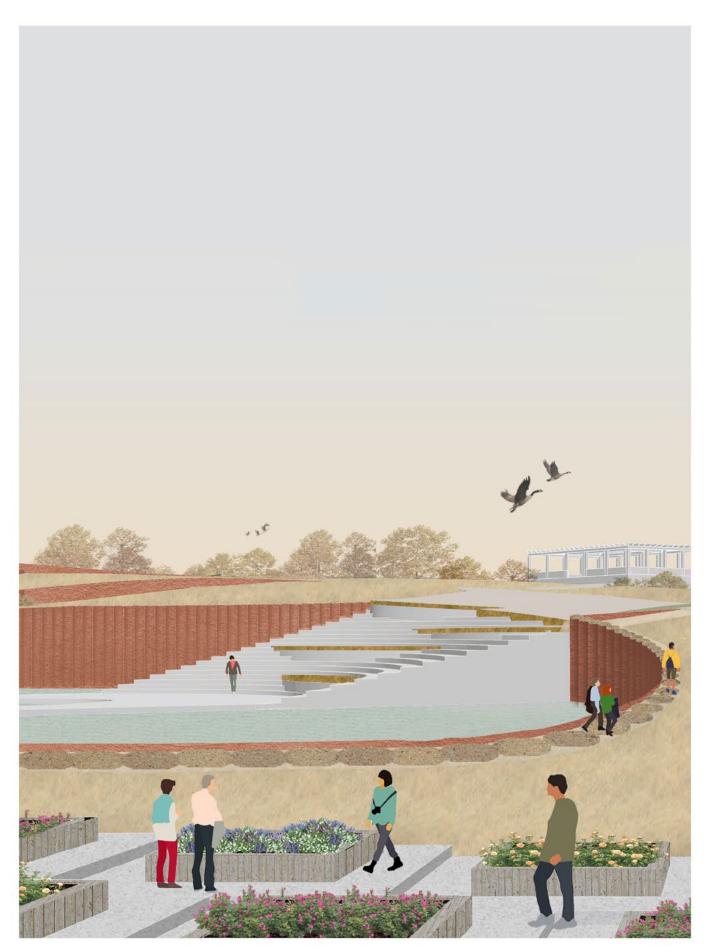




[TOP] EXISTING PARK

[BOTTOM] PHASE 1 : PATH



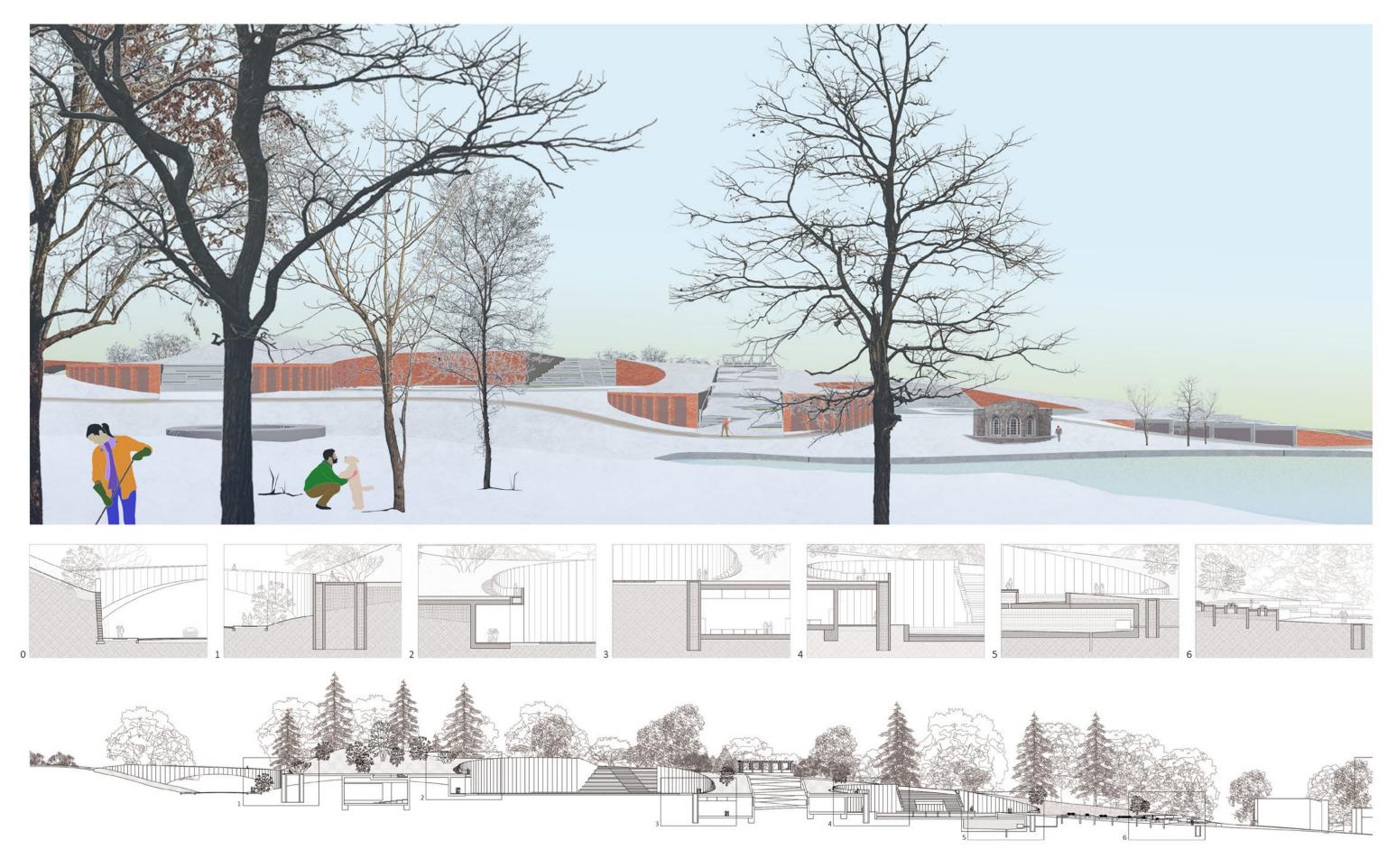




[TOP] PHASE 2 : WALL

[BOTTOM] PHASE 3 : EXTENSIONS







### TRANSITIONAL GEOMETRIES

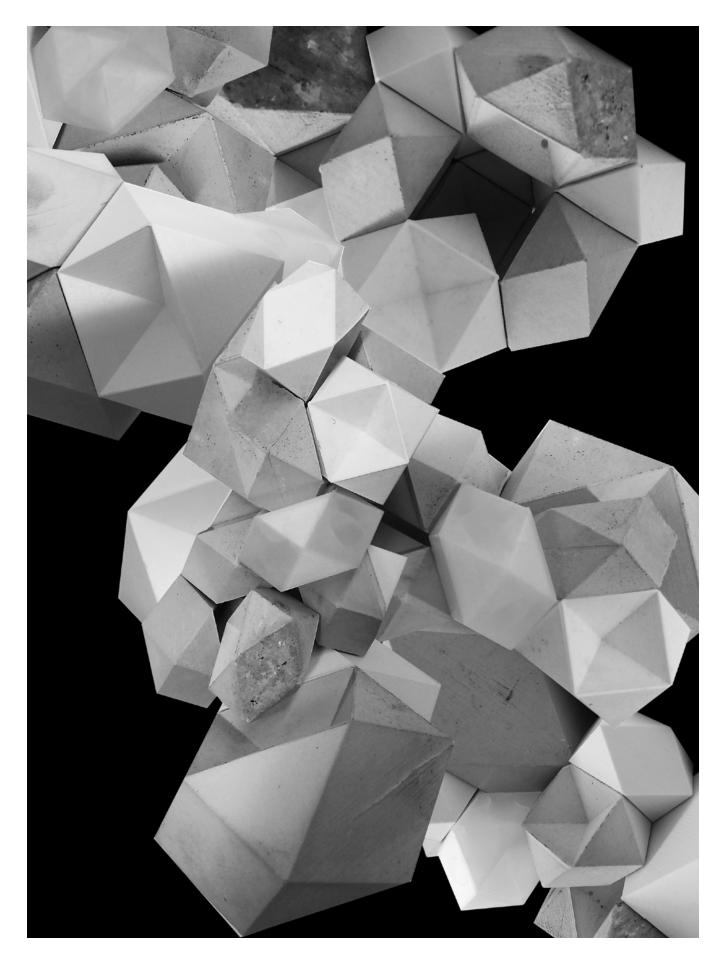
Experimenting with aggregation and fabrication.

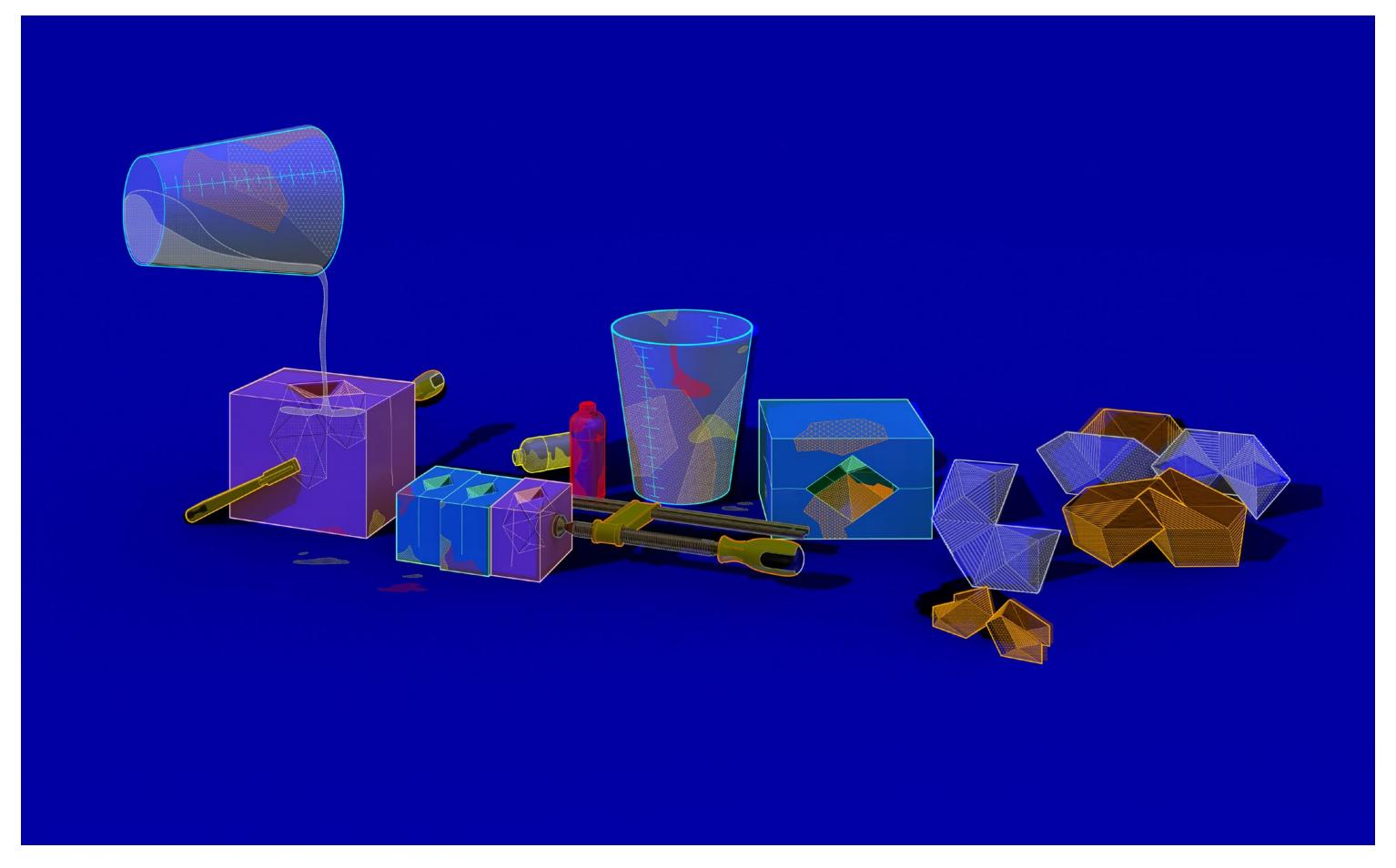
Instructor: Joshua Jordan Semester: Fall 2019

#### **PAINT AND PLAY**

A winning competition entry and recent installation for the Newburgh DESIGN FOR SIX FEET program held during the pandemic. The aggregated forms are redesigned for easy fabrication out of sheet material and are meant to be enjoyed independently. They can be brought back together to create a collective artwork, to demonstrate the spirit of collaboration that was lost during a difficult year for the community.

Collaborator: Yaxin Jiang

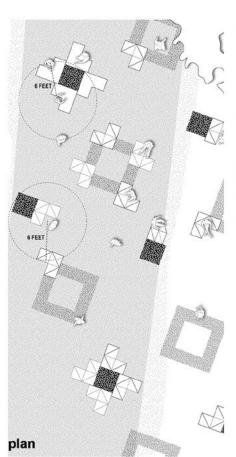




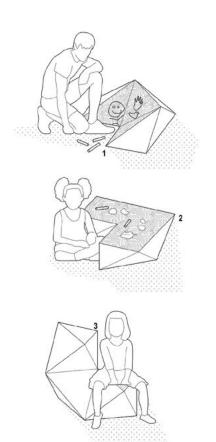




PAINT + PLAY EXTRACURRICULAR

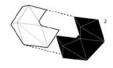








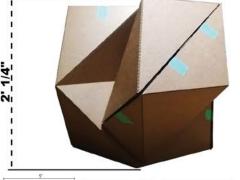


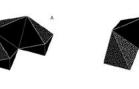




#### **PROTOTYPING**

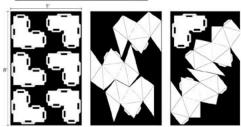
In order to make time, cost and resource assessments the modules were built at 1:1 scale. 5'x8' carboard sheets, utility knives, glue and painters tape were the materials used to complete the exercise.

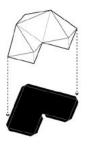






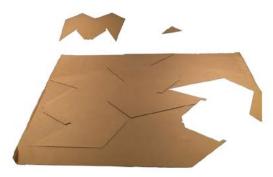
A full module is broken into halves, and then into quarters. There are two types of quarter pieces to create, both types of quarters need to be duplicated in order to create a 3D display. If only one is duplicated a 2D display is possible.



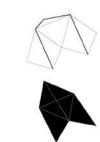










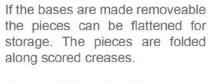














Under a \$1000.00 (USD) budget, 100 sheets of corrugated carboard would yield app. 172 quarter modules and 43 full modules.



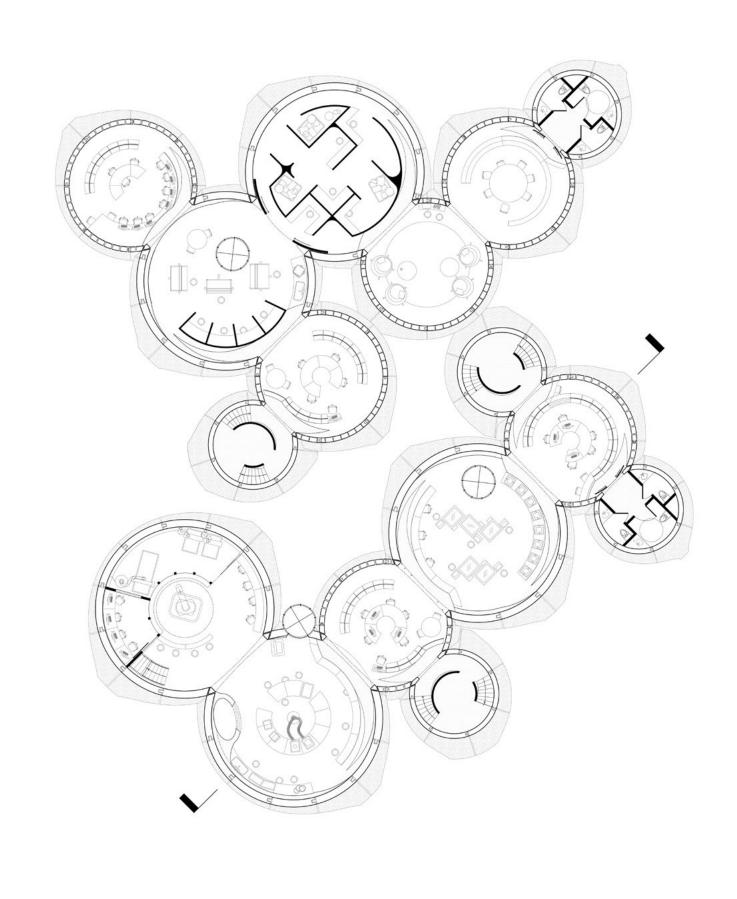
## ROOSEVELT PARK PUBLIC LIBRARY -

The design for this public space explores notions of phenomenology as they relate to formal tectonics. Found objects, such as terracotta pots were notched and made to stack, relying on their own weight distributions and the locations of notches to stay upright. By exhausting the notching of these objects, new spatial arrangements gave way to poetic moments in a library.

Critic: Emmett Zeifman Semester: Spring 2019



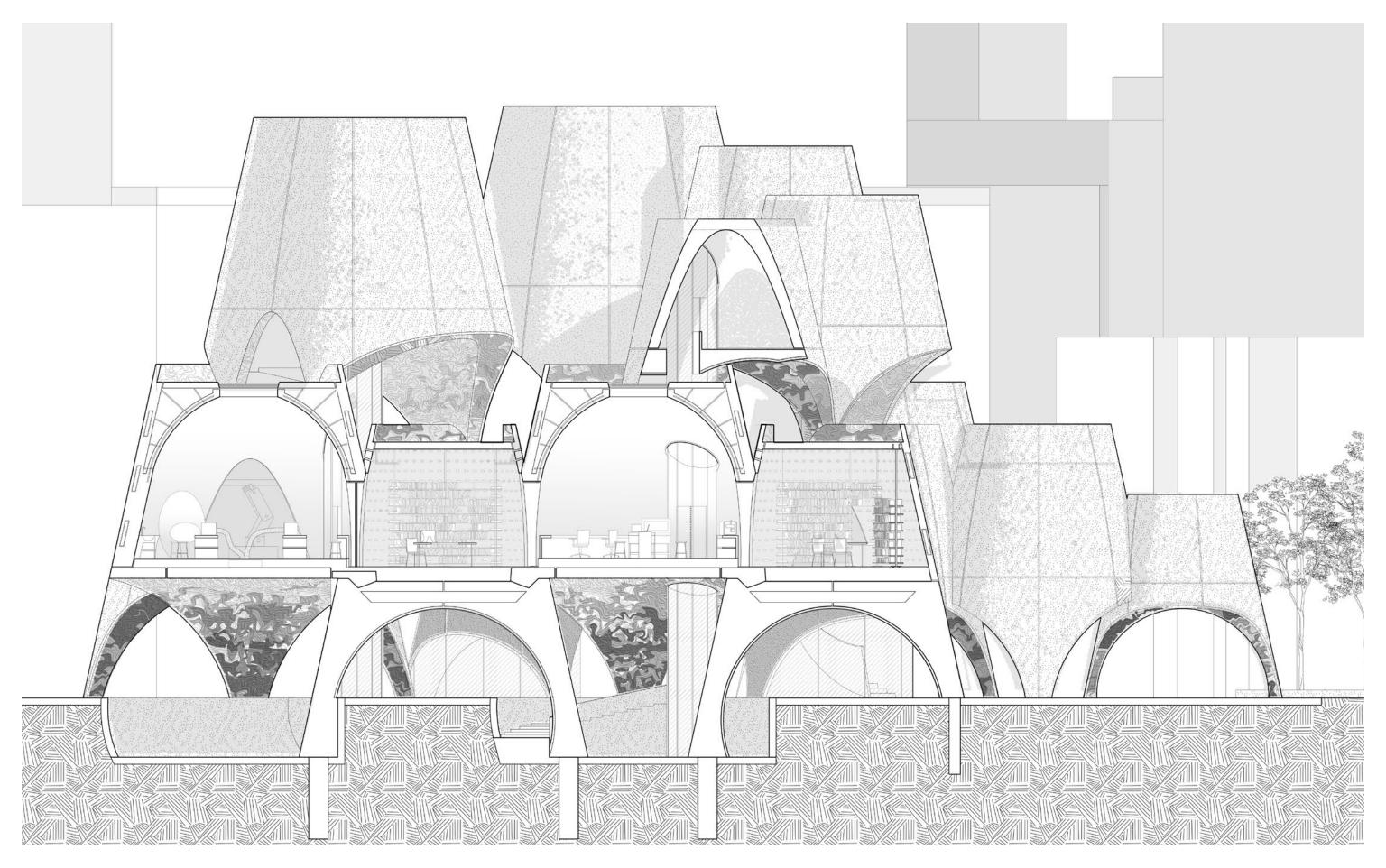












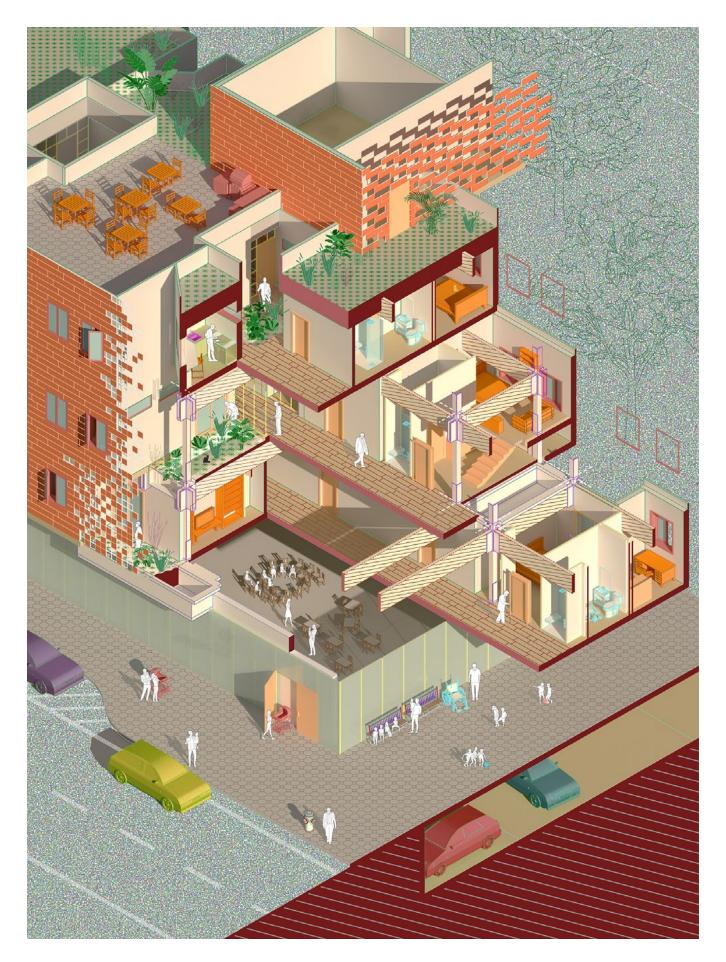
### 616 COURTLAND AVENUE, THE BRONX -

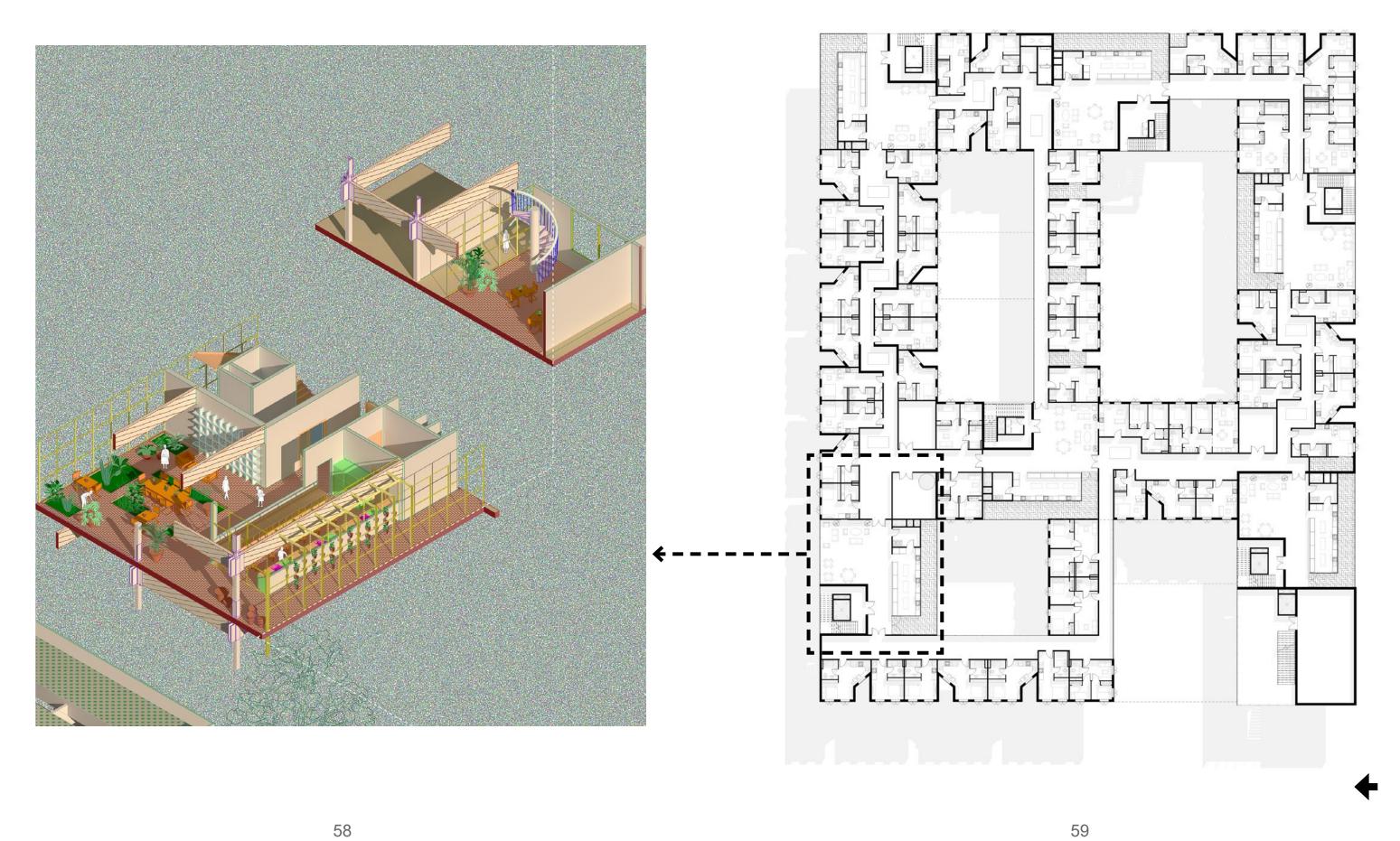
While the majority of the housing stock in New York is designed to suit the needs of a traditional nuclear family, it is important to recognize that these units may not suit the needs of New Yorkers with different lifestyles - the senior whose grown children have moved away, the young professional who's barely home and doesn't cook, or the artist who's willing to sacrifice their living area for work space. How can homes be redesigned to meet these new needs?

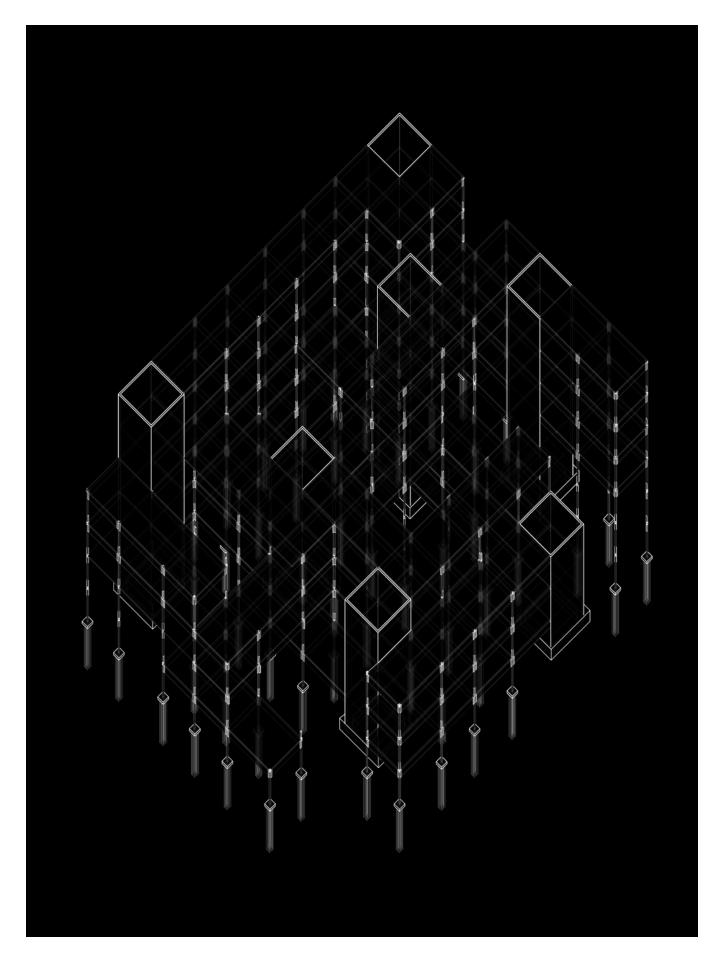
The project aims to use the courtyard typology to achieve different spatial conditions while maintaining a sense of scale, familiarity, and comfort. The 'courtyard' is redefined depending on the context within which it exists in the project: An intimate garden between two units; a larger auditorium that keeps space between the street and the inner ground floor of the complex; or an herb garden nestled at the helm of a communal kitchen.

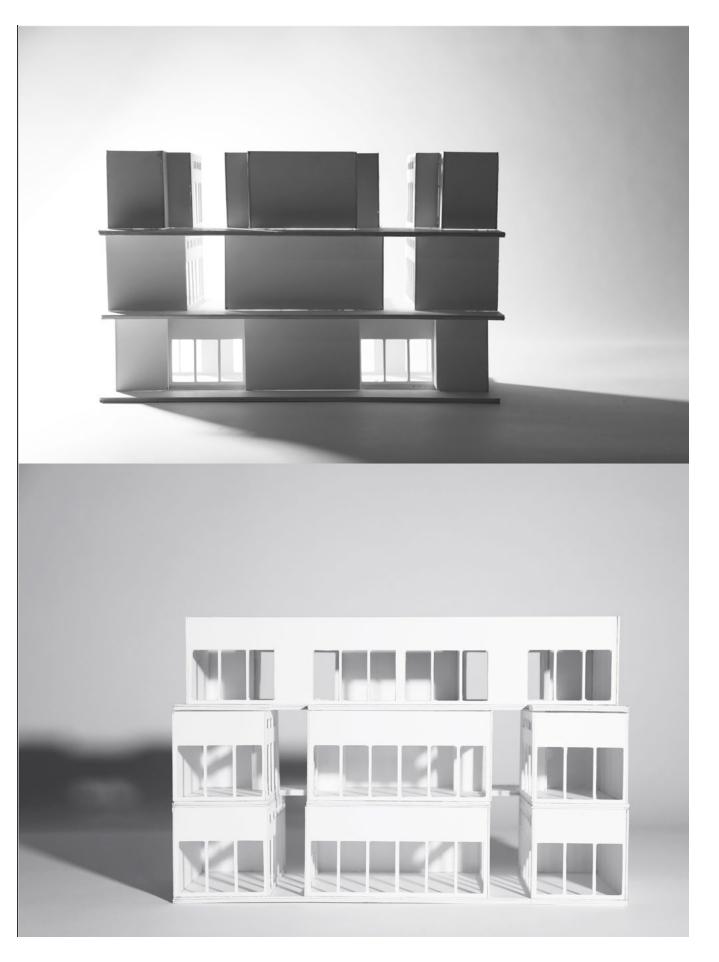
To improve cost efficiency and affordability, a prefab modular system with a basic tower and arm structural unit is adapted as the main framework by which expansion and reconfiguration might occur. The modules are arranged across the site to prioritize access to green space and sunlight.

Critic: Hilary Sample
Collaborator: Kassandra Lee Shuen
Semester: Fall 2019











#### FEEDBACK LOOP

A broadcast is a form of communication that reaches a large audience simultaneously. It is constructed, scripted and framed privately so that the viewers see only what is on display. It is then scattered into a public realm where it is accessible to anyone with a device to intercept it.

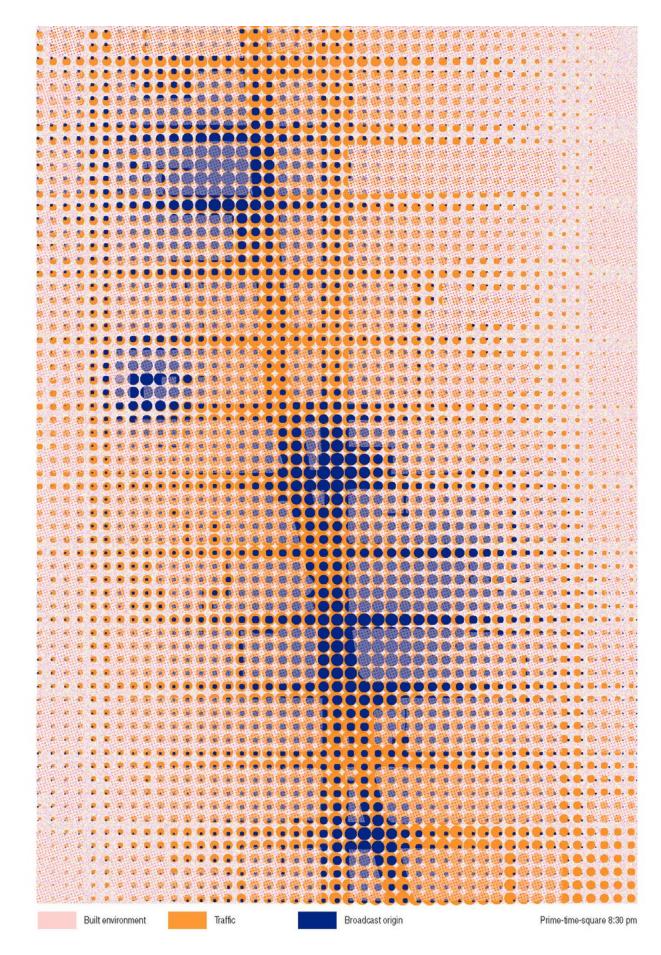
'Feedback' is an architectural typology that culminates from the notion of the broadcast as an agent of connection. It is a series of interventions that repurpose private waiting lobbies at broadcast facilities on Broadway Avenue because the spaces are grossly underused.

The design is derived by defining the audience and the performer in the context of public space and creating moments where each has an opportunity to engage leisure.

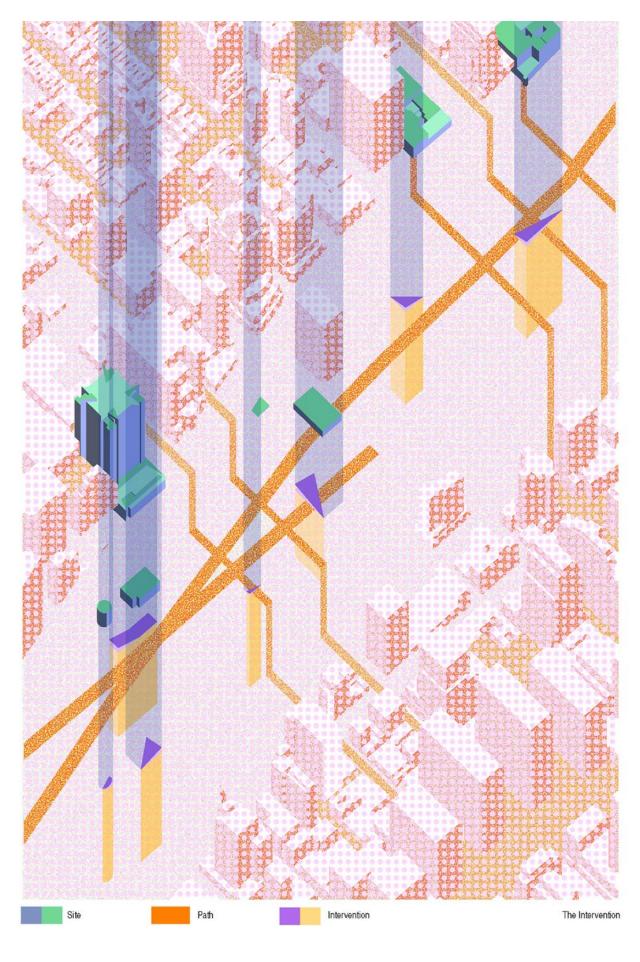
#### **COLOURED DRAWING [RIGHT]**

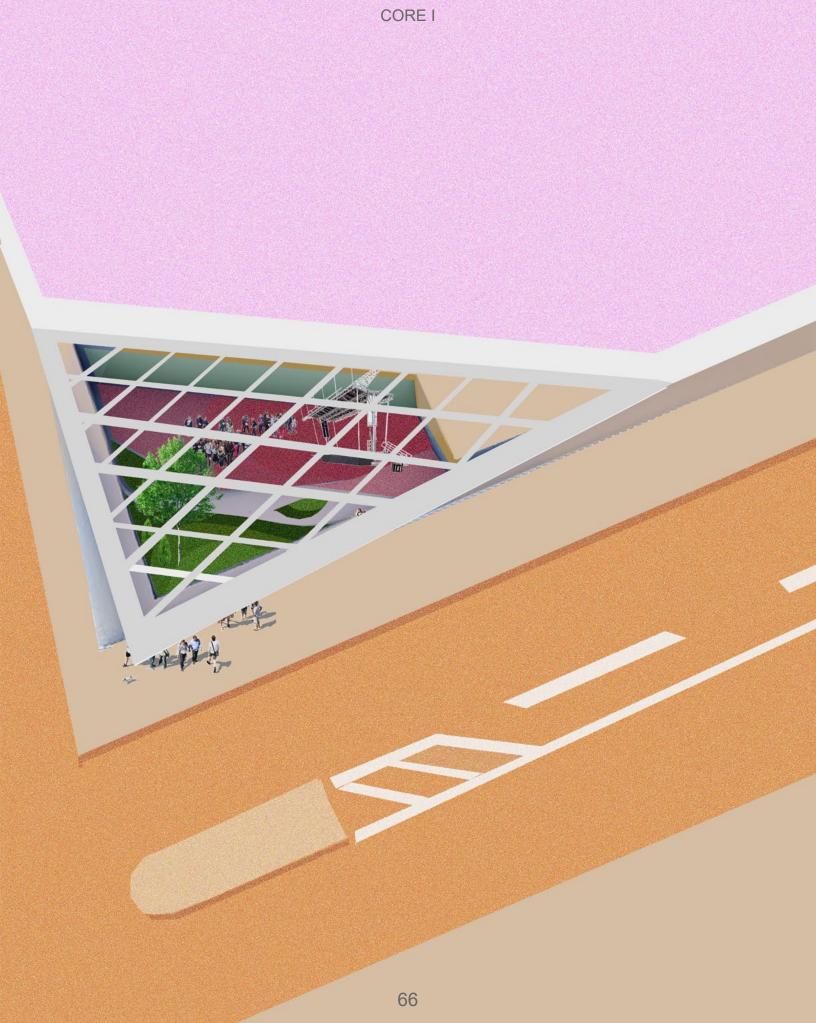
Prime-time-square 8:30 pm is a generative drawing created to represent the concentrations of information in and around time square. Colored cells that contain links to numerical data render the image, wherever anomalies occur the size of the respective "data dot" changes. These cells are exaggerated proportionally to clearly demonstrate the focus of the drawing.

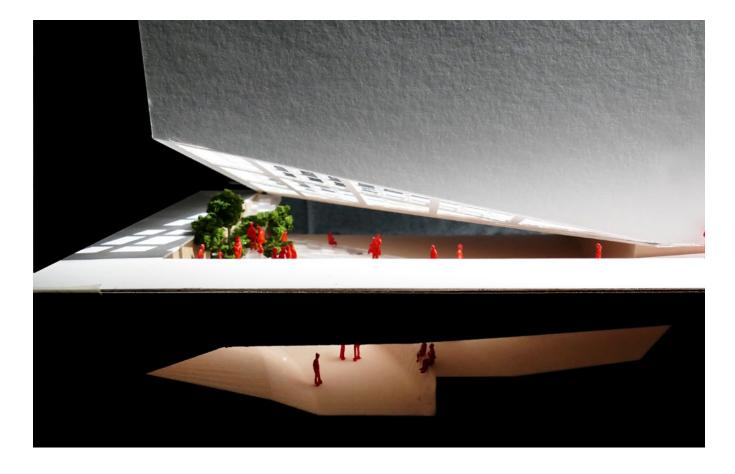
Critic: Benjamin Cadena Semester: Fall 2018



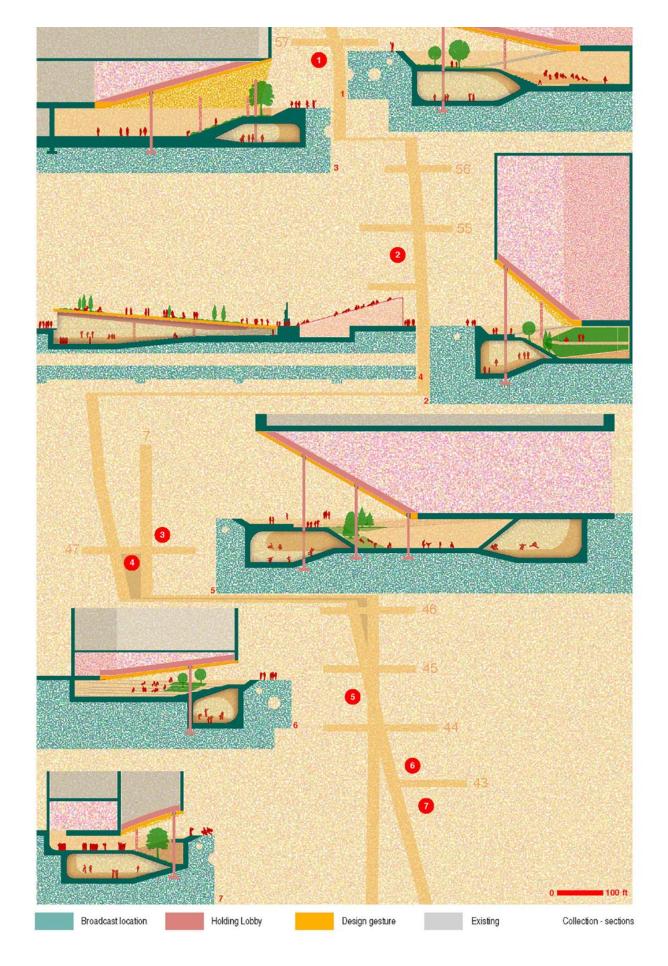












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