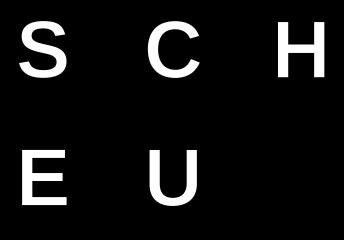
# CHRI STOP HER

Architecture Portfolio May 2023 Columbia GSAPP New York, NY



#### Contents

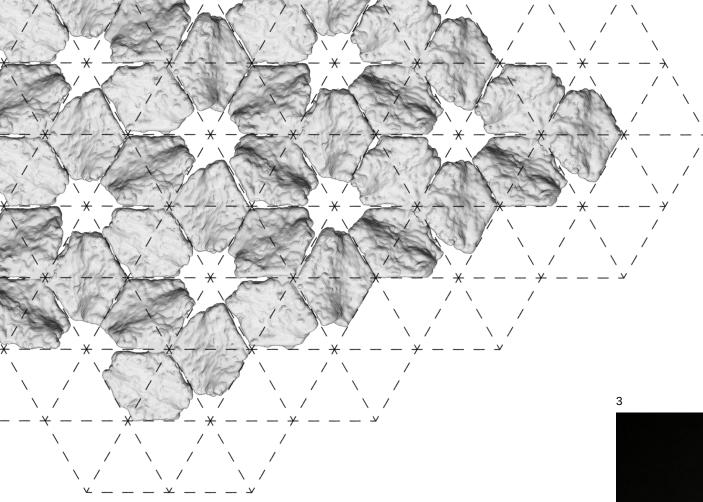
A Weighty Cloud	4
Inwood Innovation Hub	10
Heathcote Elementary	18
P.S. 64	22
Gellért Thermal Bath	30
Breathable Corridors	34
(Is)landscapes: Learning with Sediment	44
Measured Displacement	52

Islamberg & Wayfaring 62

## A Weighty Cloud

A Weighty Cloud Crit. Joshua Jordan

A three dimensional tiling system that imitates clouds in both form and structure.



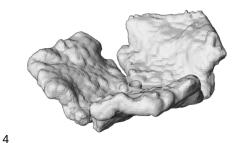
z planes, spaced apart by equal increments. The afar imitate the free-flowing nature of clouds. system is arrayed on a six-sided grid that allows for variability in the vertical dimension that mim-

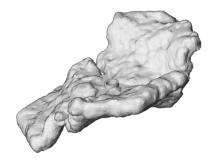
Cast in Hydrocal, this tiling system imitates the ics hills as opposed to the standard four-sided form and structure of clouds. Two tiles that can be one which only allows for wave like patterns to oriented by rotating or flipping them upside down emerge. In other words, as one expands the tiling create a system that can be arrayed outward system outward the two pieces can fit together along the x, y, plane, but also switch to different to create bulges and dips that when viewed from

A Weighty Cloud

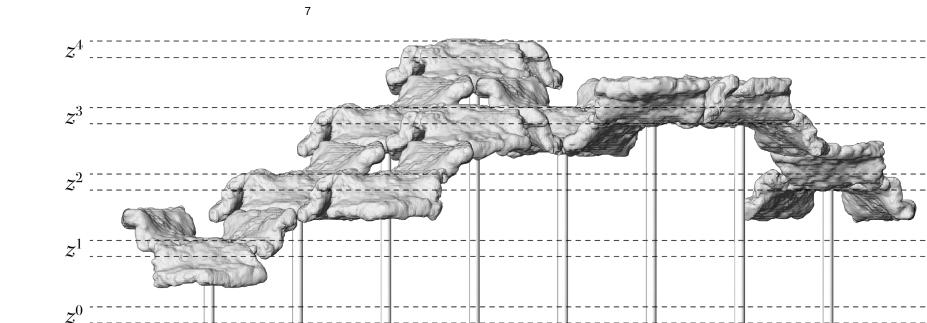


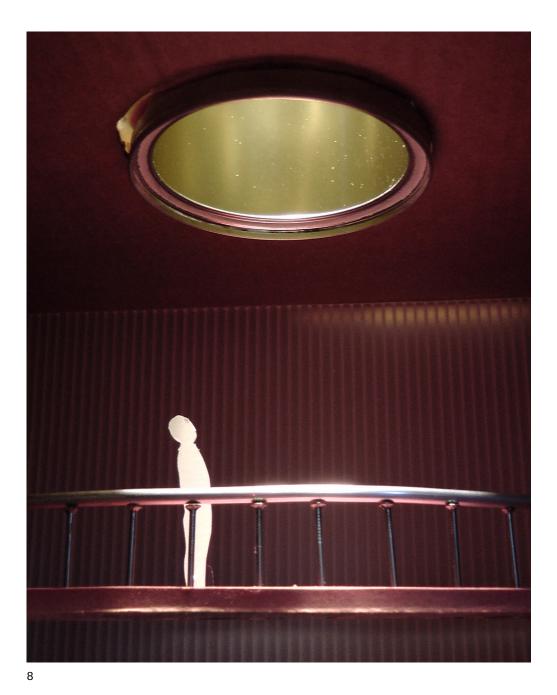
2







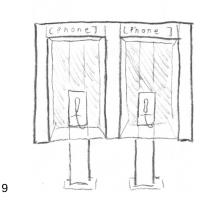


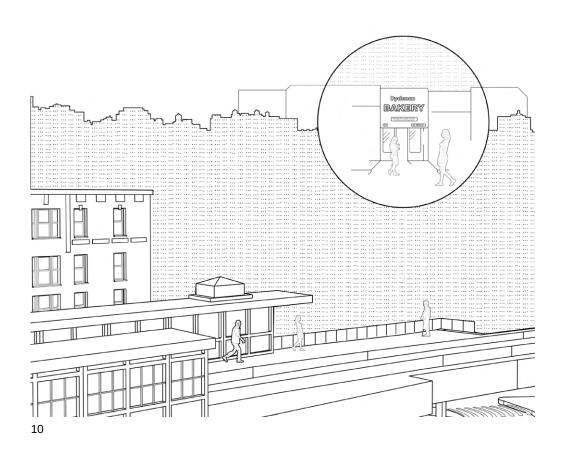


#### Inwood Innovation Hub

#### Inwood Innovation Hub Crit. Joshua Uhl

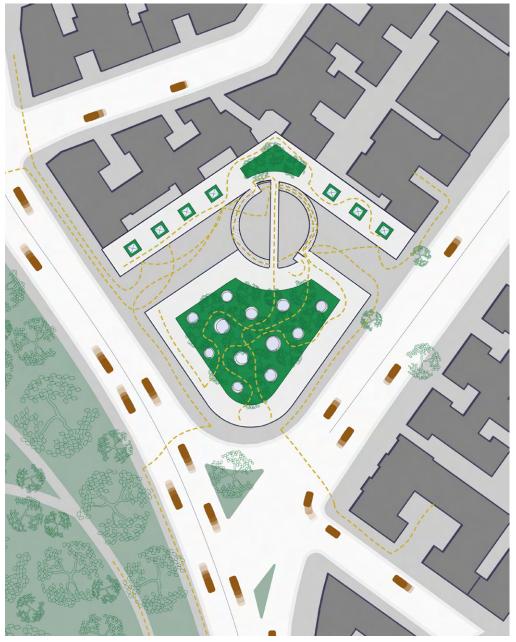
Inwood in many ways is a place that resembles a neighborhood nestled in one of New York's outer boroughs rather than in Manhattan. Yet at Manhattan's northern most point, this neighborhood is bustling with activity, especially among the Dominican population that has been continuously pushed upward from Washington heights into the reaches of Inwood and the Bronx. This project proposes converting an abandoned car dealership, now functioning as a parking garage, into a urban integrated set of shared office spaces geared towards the younger immigrant population living in and around the area. The converted building will allow people to gather to test ideas in a place thats geared towards encouraging collaboration and innovation.





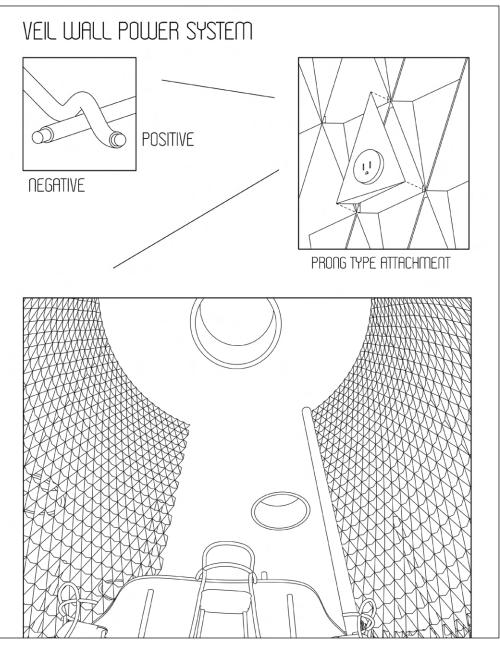
One of the important aspects of this location that travel further to downtown Manhattan if need be. now houses a parking garage is its access to Additionally, the roof of the building serves as a two public transit lines and as well as two major extension of Inwood Park, located to the West. travel arteries, Broadway, and Dyckman Street. Similarly its relatively connected to the heart of

Inwood Innovation Hub

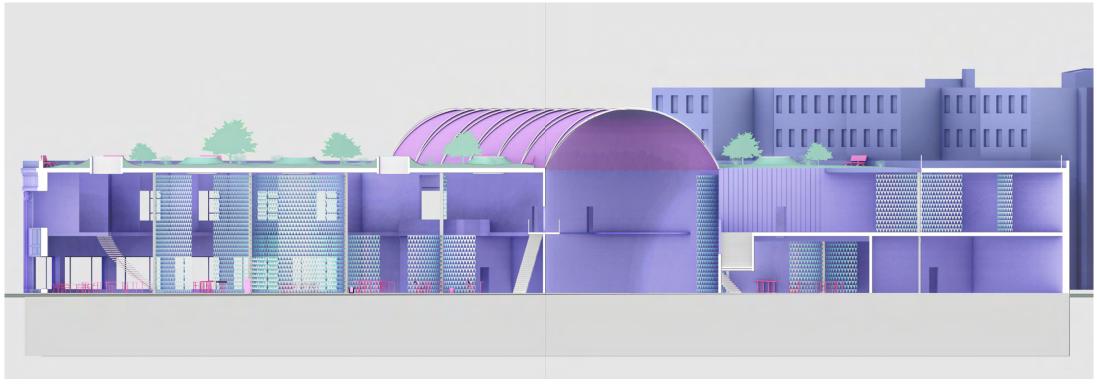


11

Inwood, just a few blocks north along Dyckman. This ideal location enables people to both meet in the context of the neighborhood as well as







A notable feature of this project is the addition feature of the buildings location on the end of an of power supply into the interior and exterior of acutely angled corner, namely the inclination to the building. As part of the urban strategy this is meant to encourages people to gather and work in an open and informal way. The rooftop facilities are to remain open to the public while the interior can be used to rented office spaces. The through way between the building takes advantage of a

Inwood Innovation Hub



15

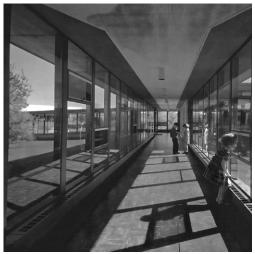
Core Studio I

#### Heathcote Elementary



Heathcote Elementary Professor: Erica Goetz

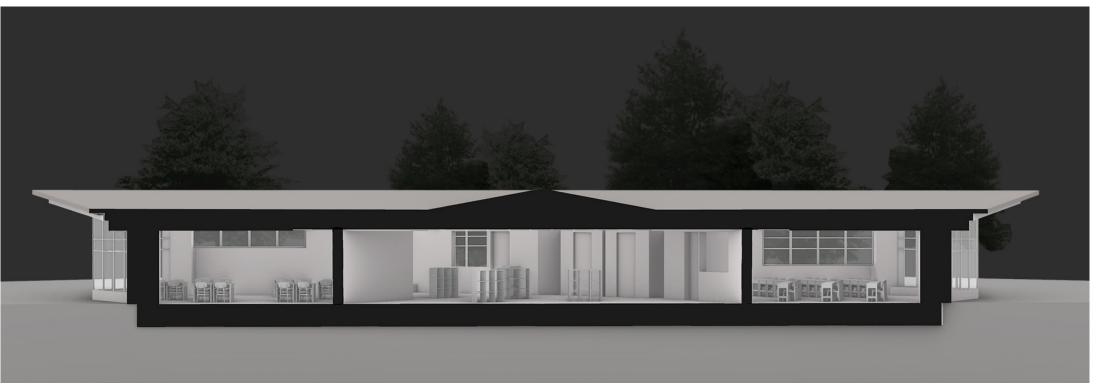
An modernist elementary school designed by Perkins and Will for the town of Scarsdale, NY.



16

17►

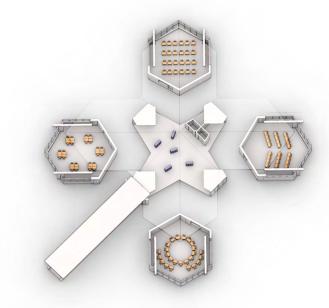




This elementary school was designed so that its woods. The hexagonal shape accommodates affordances of building in a scarcely populated or yellow hue. wooded area. The classrooms form hexagonal clusters of four, each room containing large floor to ceiling windows that open to the surrounding

long wings reach into the woods of the sprawling a variety of classroom arrangements. Along the landscape of Scarsdale, NY. For a neighborhood corridors, colored glass panels are placed so that of considerable wealth, this project makes use of children can see what the world likes like in a red

Heathcote Elementary

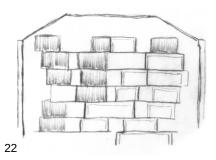


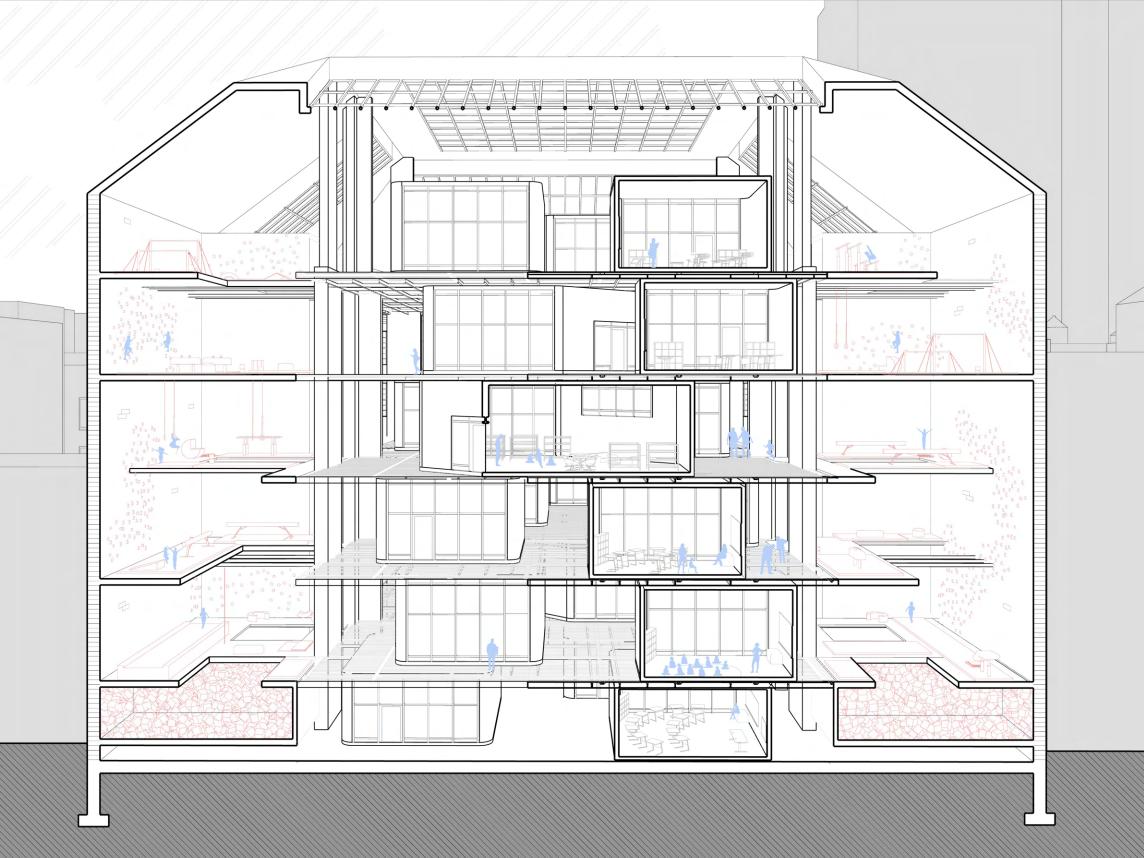


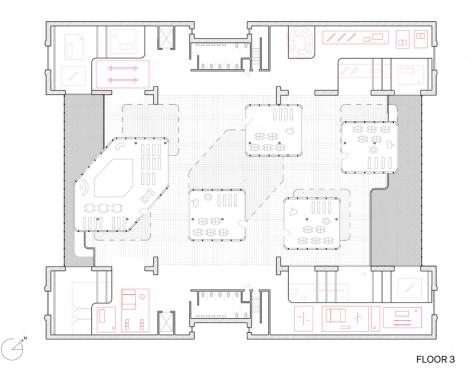
### P.S. 64

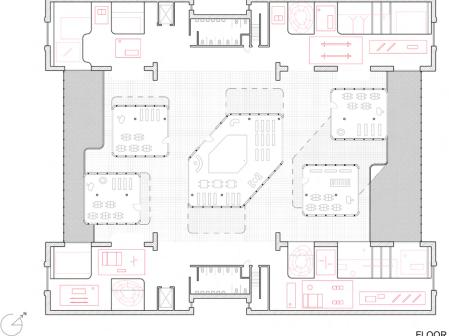
P.S. 64 Crit. Erica Goetz

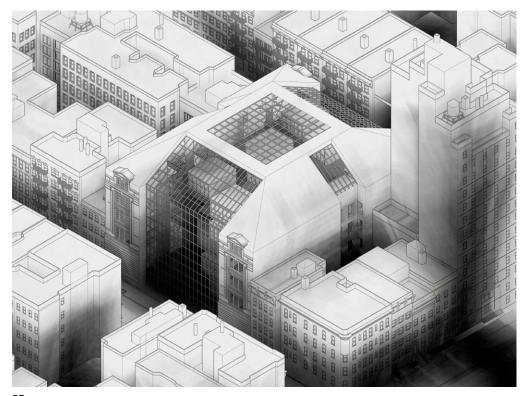
This elementary school is located in the a renovated building in Manhattans East Village. The central H shape of the original building is replaced with a container of stacked classrooms that form a coral like structure. The wings of the H are converted into vertical gym spaces that allow children to circulate through the building in a more free flowing manner. The concrete floors are replaced with grated floors to emphasize the verticality of the space and provide line of sight from lower levels to upper levels and vise versa.







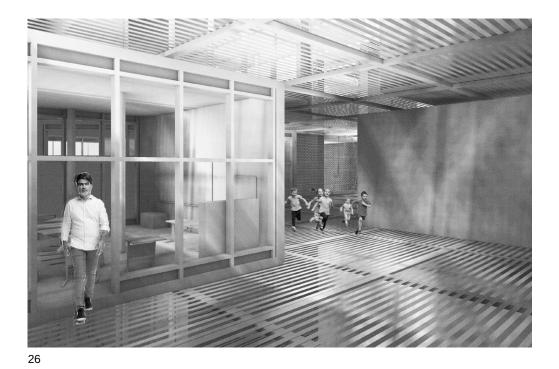


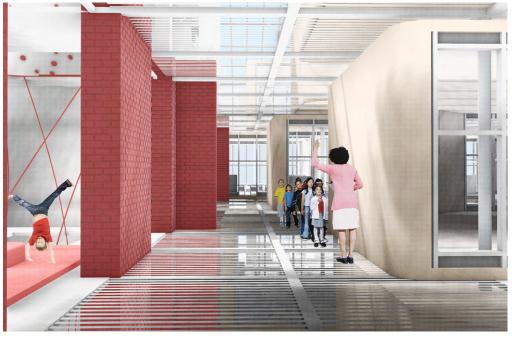


25 ₹24

> A vertical gym school is a concept that combines fect of coral or stacked blocks. The gym space a traditional school with a gymnasium to create occupies the wings of the building and can also a unique, multi-level educational and athletic be used for circulation. facility. This vertical design maximizes the use of limited urban space, making it a viable option for densely populated areas, such as the East Village. The classrooms stack and oscillate back and forth across different floors to create the ef-

Core Studio II







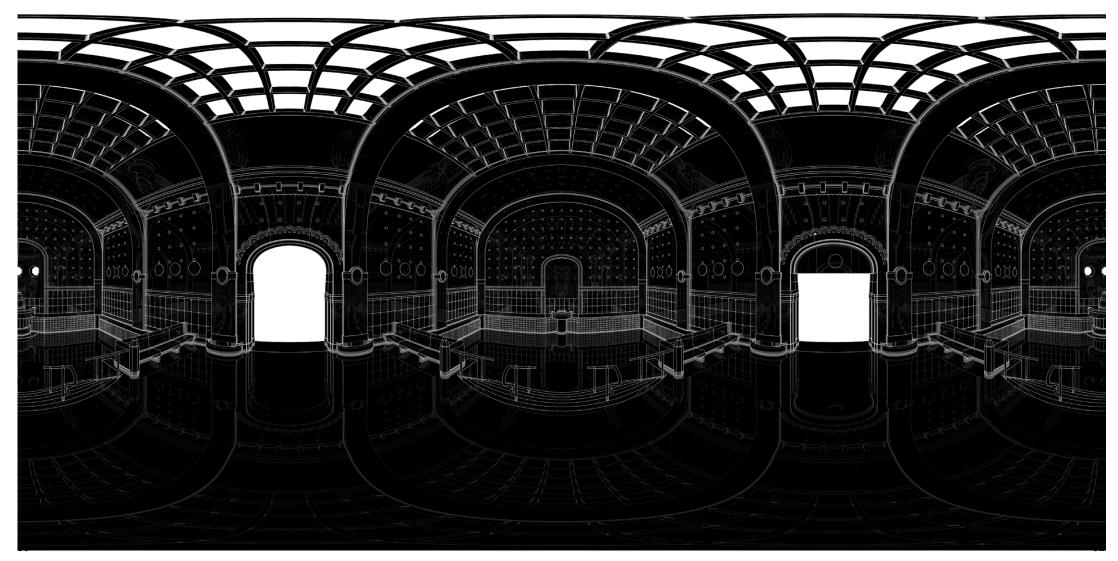
27

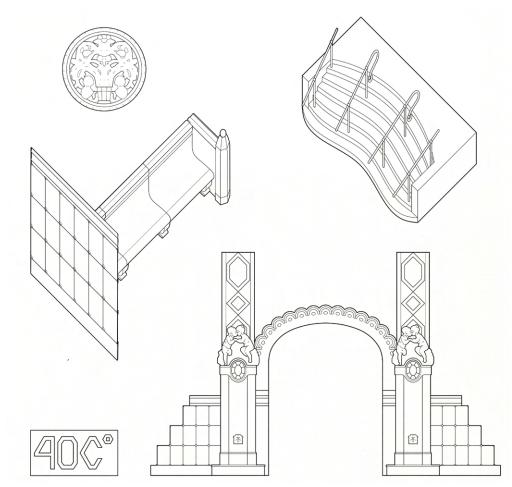
This project questions the traditional organization rials would allow for children to learn and flourish of school buildings with the integration of the var- in an environment that privileges health of body ious programs into the central grated area and as well as health of mind. the areas involving more active movement are relegated to the perimeters of the building. While there may be some concerns with the feasibility of such an approach for noise concerns, implementation of appropriate noise dampening mate-

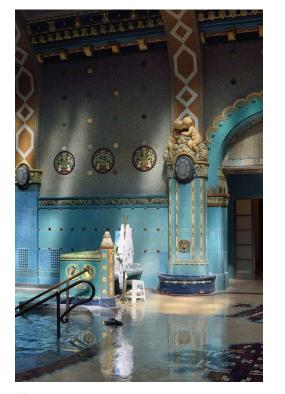
#### Gellért Thermal Bath

Gellert Thermal Bath Crit. Farzin Lotfi-Jam

A study into the formal qualities of and historical reflections of an early 19th century Hungarian Thermal Bath





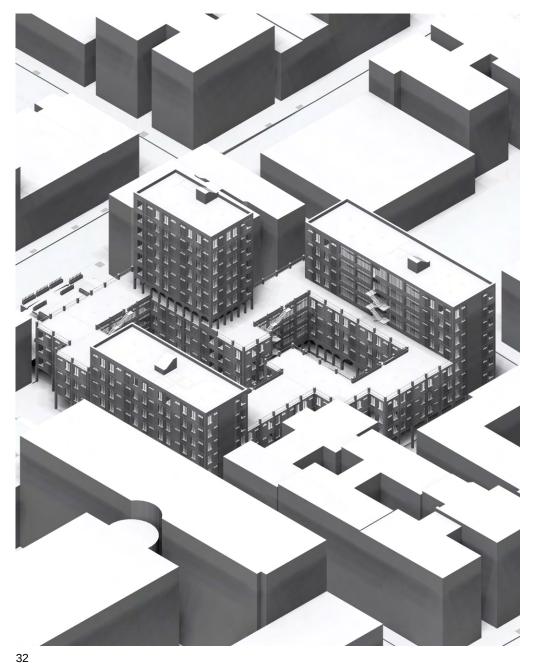


29

late art nouveau imagery, and serves as a tes- the mythical quality of the space. tament to the end of a style that largely wanned after the onset of the war. The aquatic imagery informs both the form of features such as the chairs and stairs, but also the sculptures that adorn the

This thermal bath was being constructed as fountains mermaids and cupids. The thermal World War I was breaking out, and was finished bath is heated naturally within the earth and the despite the context of the war. It contains a lot of immersive reflective representation is to express

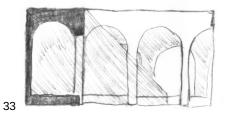


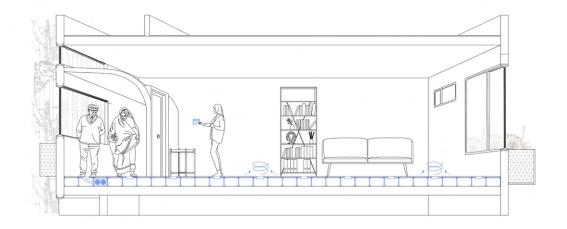


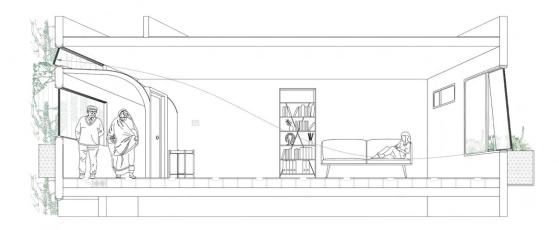
#### Breathable Corridors

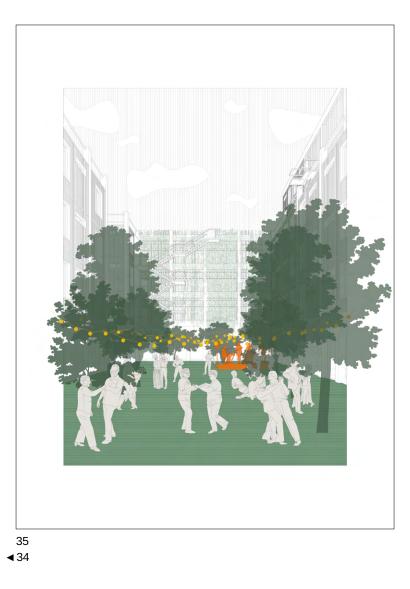
Breathable Corridors Crit. Galia Solomonoff *with* Becca Farris

Situated in Melrose, Bronx, this affordable housing project focuses on the role of natural ventilation in housing construction. An expansive interior courtyard in combination with cross ventilated single loaded apartments allows for air to travel freely throughout the apartments. The addition of vegetation in the courtyard and along the corridors provides a degree of air filtration in an area that is otherwise highly susceptible to the development of asthma in children. While the project remains within the acceptable range of square footage considered to be affordable housing for each of the units, it seeks to provide a quality of living through access to clean air that is that is often overlooked in housing projects.



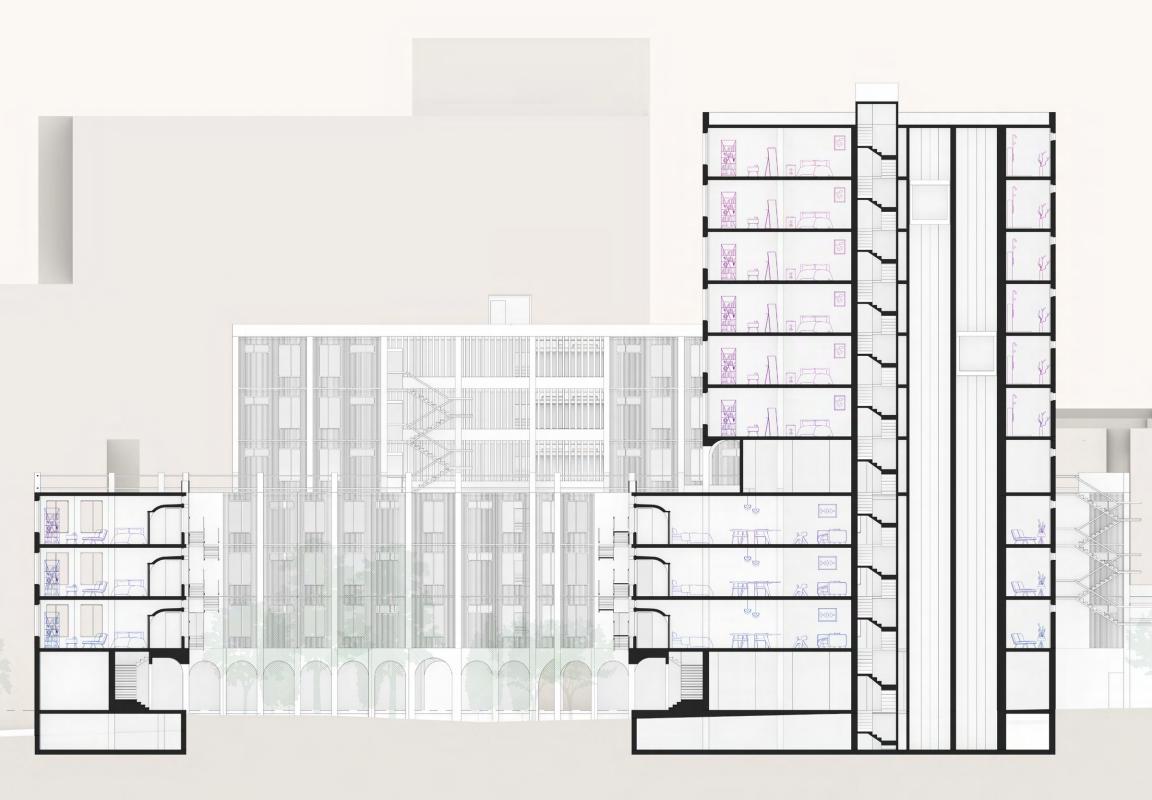


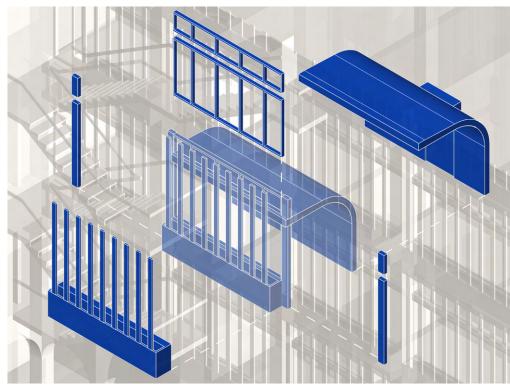


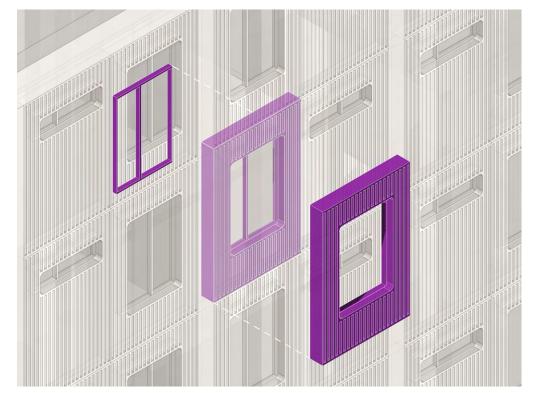


Bronx, many factors can inhibit residents from the surrounding area. This area can be used by being able to use them, especially during later residents of the building as well as occasionally hours. The large interior courtyard seeks to pro- by members of the surrounding community. vide additional park space where residents can commune in a semi-public place. The courtyard in coordination with the ventilation strategy provides a connection to between the interiors of the apart-

While there are an abundance of parks in the ments and the exterior of the building as well as





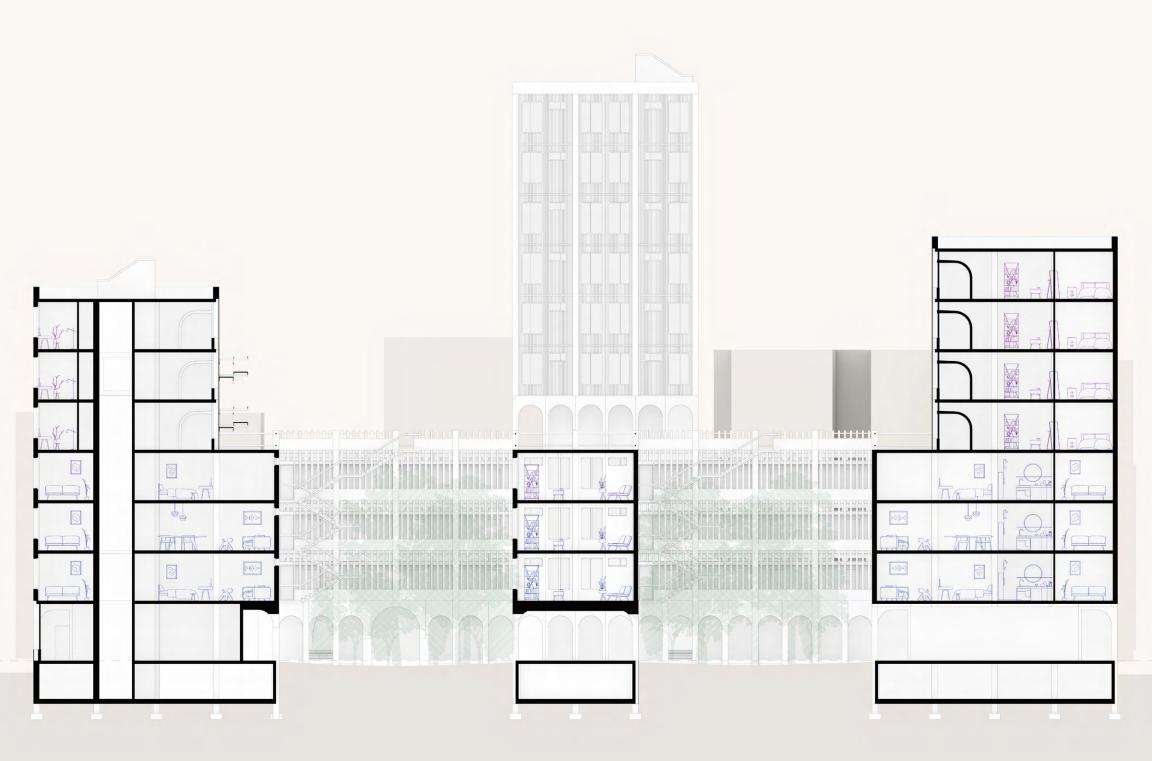


38

The ventilation approach additionally prevents corridor and without other opportunities for ventigle loaded corridor so that the apartments can have access to cross ventilation is implemented for all of the apartments along a single loaded

against the build up of mold and other indoor lation such as on the corners of the building. This air pollutants that have a tendency to build up also has the potentially to both reduce CO2 emisindoors in rooms with poor air circulation. The sions and save on energy bills due to alternative novel approach of lowering the ceiling of the sin- method of cooling provided by natural ventilation.







#### (Is)landscapes: Learning with Sediment

(Is)landscapes: Learning with Sediment Crit. Elise Hunchuck and Marco Ferrari

This project proposes an alternative to dredging as a way of living with and within the Danube watershed. Building off of a historical instance when sunken lumber from a ship caused the Danube river and its islands to shift dramatically over a relatively short amount of time, this project speculates about the potential for fluvial islands to act as sensors to greater imbalances in the ecosystem, and discarded lumber to serve as the means for generating these islands. Because the Danube river forms the border between many of the nations along it, the (at first) unpredictable outcomes resulting form engaging with the watershed in this way would require a way to readdress the contemporary idea of the border. Instead of a fixed line, it would be treated as a mutable zone.

◀41 42

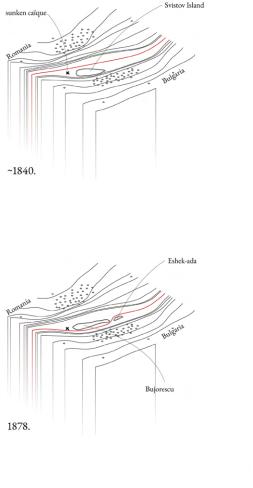


Often political boundaries are drawn in relation to in terms of its boundaries and its relation to other environmental features, such as mountains, for- elements. ests and rivers, and human created features such of resource extraction, processing, and dispersal mental bodies. allows for continuously growing populations with greater capacities for self-preservation.

44►

This phenomenon is clearly observed in the as settlements and infrastructures. Occasionally, relationship between nations, and international they are drawn with little regard to either of these organizations that work to produce MEAs, or features such as in the American West, where Multilateral Environmental Agreements. These some state boundaries are perfectly straight agreements leverage the transnational boundlines. Nevertheless, the very drawing of these aries of environmental entities to systems of boundaries is reflective of a conceptual frame- obligation that operate in and across each of the work that positions individuals as separate from member nations. This approach leverages the nature, and therefore free to knowingly treat it current political system to create a set of obligaas kindly or unkindly as each situation demands. tions in order to coordinate efforts for the purpose Likewise, the development of advanced methods of understanding and nurturing certain environ-

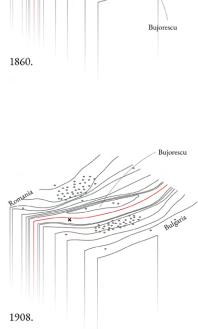
One such environmental body is the Danube River Basin. It stretches across 19 nations and At the same time it is impossible to con- occupies a significant portion (>2000km<sup>2</sup>) of 14 sider humanity as completely embedded within of them. Organizations such as the European our environment with little to no perception of Commission, the ICPDR, and RAMSAR have boundaries. We can expand our scope of under- enlisted members from these nations, as well as standing of the relationship between variables to independent parties to draft MEAs. In addition to incorporate ecological concerns, but ultimately consolidating research, they mandate a set for we're moving towards the creation of an expand- specific sites, and a set of obligations for those ing system that still accounts for each element sites. Within the Danube Watershed, some of the

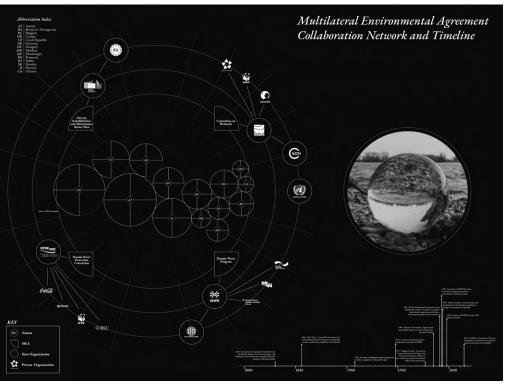


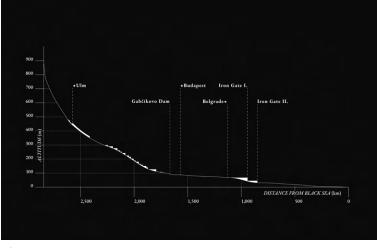
Eshek-ada

Bujorescu

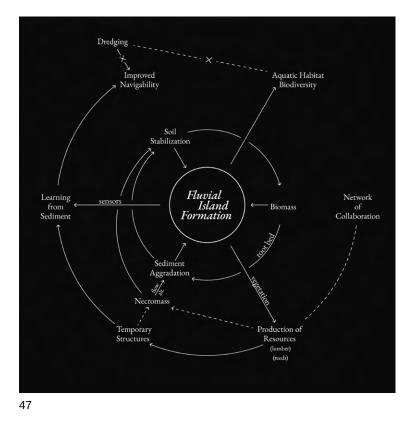
1898







46



sites are contained within a nation's borders and ent in the Danube, while challenging some of the operating as independent political bodies, are tion that exacerbate inequality. necessarily entangled with its surrounding countries politics, economics, and ecosystem. How far does this entanglement reach?

Through analyzing the system of international organizations responsible for creating MEAs operating within the Danube watershed, and mapping the flow of economy through those organizations, one can gain a better understanding of the way in which power dynamics both affect the watershed and are affected by it. In examining these relationships one can speculate about the potential for transnational collaboration that addresses some of the issues currently pres-

some are transboundary. Each nation, although current mechanisms of transnational collabora-











Adv. Studio VI

Spring 2023

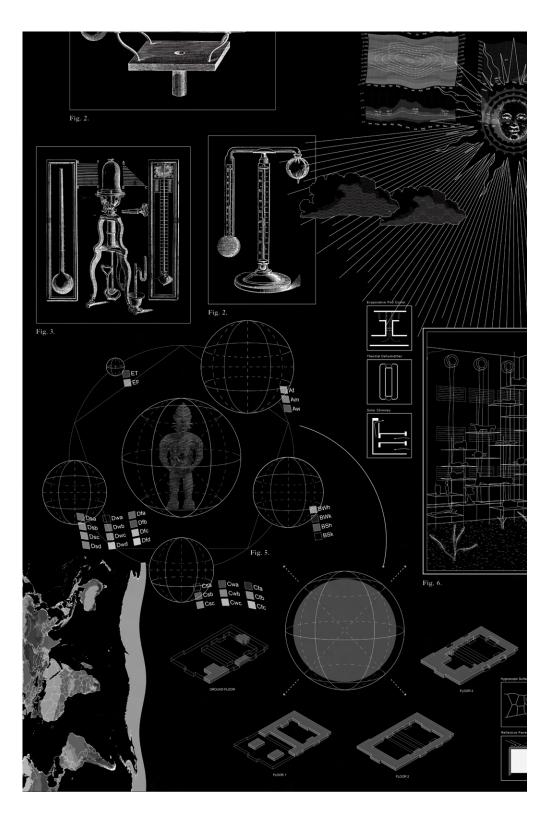
#### Measured Displacement

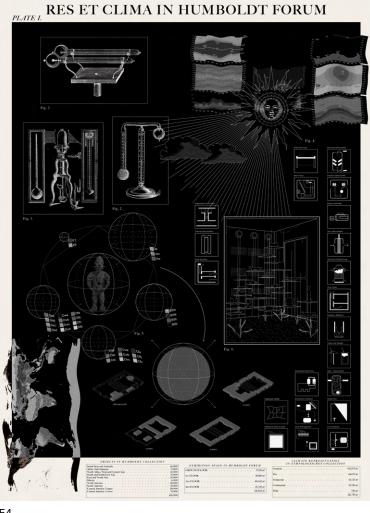
Measured Displacement Crit. Emanuel Admassu *with* Jasper Lai

Measurement has served as a tool that enables extractive practices and the sustained imbalance between nations which have led to the contemporary archive museum. Germany's ethnography museums vast collection of artifacts (many of which were acquired under dubious circumstances) are being moved to and displayed in a reconstruction of a 18th century Prussian palace known as the Humboldt Forum. This project engages with the history of measurement and the act of assigning a number to the experiential phenomena embodied in climate. By inverting the system of climate control into one of climate simulation, the displacement of the housed artifacts is seen as well as felt.



**⊲**52 53

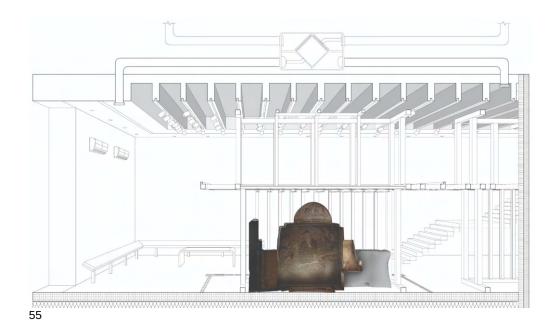


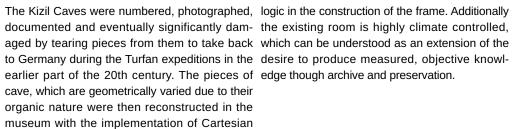


**⋖**54

embodying the climate from where they origi- order to publicly accommodate the collection they nate, the tools to reproduce these conditions are have amassed. The tools needed to create simuunderstood in relation to the history of measure- lated climate conditions are laid out in relation to ment as a means of producing a universalizing the metrics they produce and the ideology they ideology. Considering the possibility that the maintain. volume of objects out sizes the volume of exhibition space, a calculation is made to determine

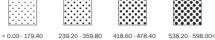
Imagining each of the objects in the collection how the exhibition space might need to expand in





documented and eventually significantly dam- the existing room is highly climate controlled, aged by tearing pieces from them to take back which can be understood as an extension of the to Germany during the Turfan expeditions in the desire to produce measured, objective knowl-

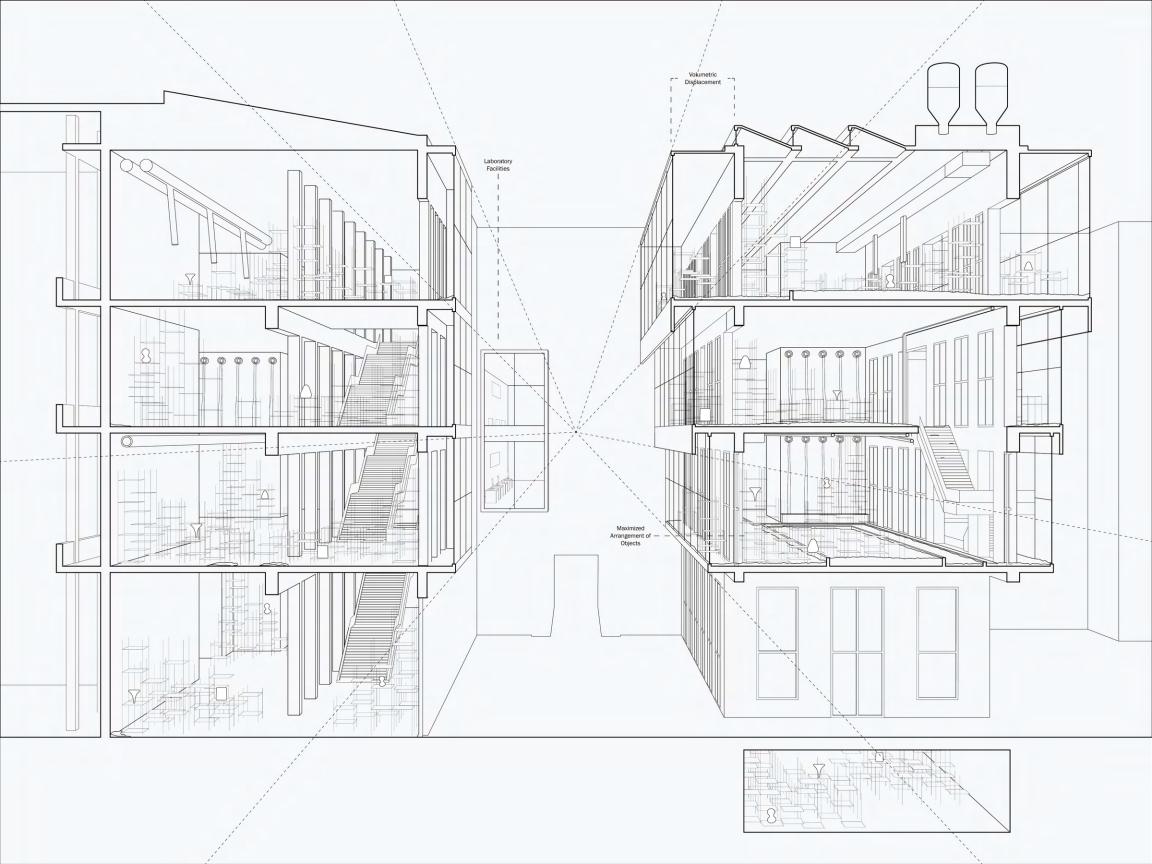


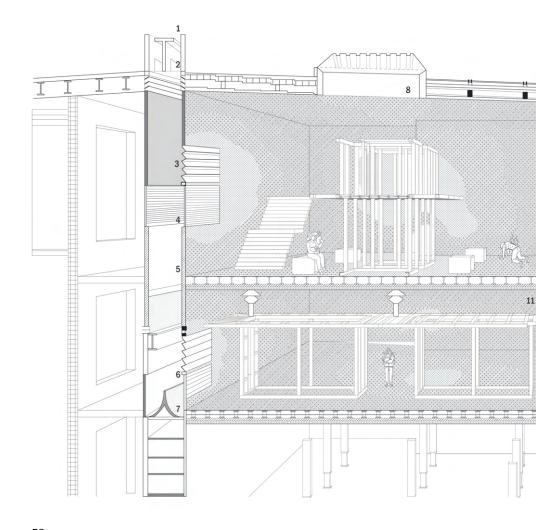


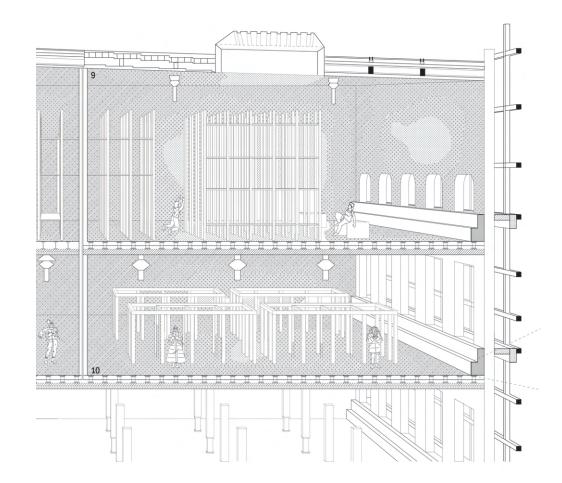
Radiation Analysis\_BERLIN\_GERMANY\_DEU 1 FEB 1:00 - 28 DEC 24:00 Kwh / m2

< 0.00 - 90.00 120.00 - 140.00 210.00 - 240.00 270.00 - 300.00









a field of space within the museum produces at to frictions that require collective action in order times discomfort for the viewer and potentially to resolve them. strains the capacity for maintaining the buildings interior leading to eventual decay. In this sense objects become weaponized as a means to facilitate a negotiation between associated parties regarding provenance and restitution. The climate

The simulation of various climate conditions in zones at times contradict one another and lead

60

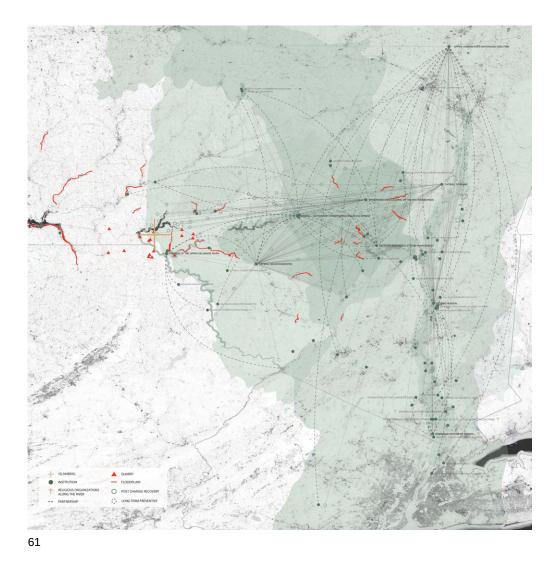


## Islamberg & Wayfaring

Islamberg & Wayfaring Adv. Studio IV | Professor Ziad Jamaleddine *with* Mingyue Zhang and Yuli Wang

This pilgrimage through the mountains of upstate New York centers on both spiritual and environmental flourishing. The small town of Islamberg in coordination with FUDR, a local river protection organization, work to create a series of trails that enable both spiritual and environmental flourishing. One removes a rock from an abandoned quarry site, now fashioned into a shrine, and carries it with them along to trail to deposit into a gabion wall, that is gradually filled to enable more direct engagement with environmental issues of the area such as the overpopulation of knotweed, or the choked water transportation system along roads. This in turn fulfills the charitable obligation practiced by residents of Islamberg.

60

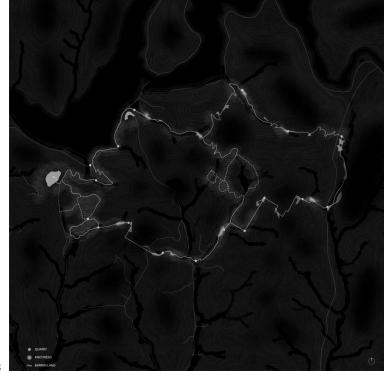


There are a number of pressing ecological issues engaging with these issues in both short and flood planes, erosion caused by the sediment tervening in their surrounding area. imbalance of the watershed, and proliferation of highly invasive species such as knotweed. There also exists a network of charitable organizations

in around the rural hamlet of Islamberg. Among long term scales. The proposed trail will allow them are abandoned quarries, which leave residents from the town of Islamberg to enter into massive craters in the earth, poorly functioning the existing charitable network, and assist in in-

Islamberg & Wayfaring

62

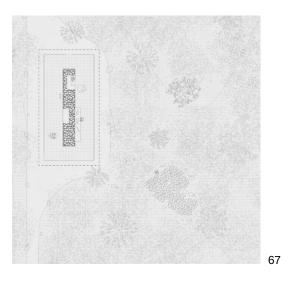




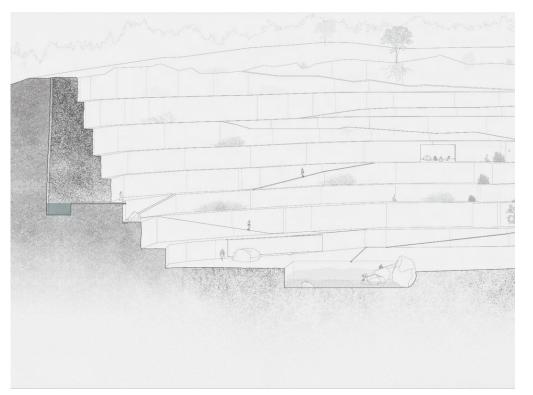


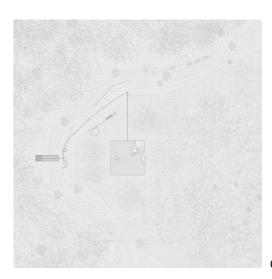


65



Adv. Studio IV





#### WAQF DOCUMENT

The community of Islamberg in partnership with Friends of the Upper Delaware River and Strawtown Art and Garden Studio will work to create a network of trails in the region around Islamberg. The trailscape is to be determined by a constellation of focal points for environmental restoration.Quarry sites, constricted floodplains, barren areas, weed ridden areas, highway junctions, and polluted areas will be transformed into areas that provide positive experiential qualities such as outlooks, hospitalities, bathing areas, and contemplative spaces.

The network contains trails that vary by time frame. The first and smallest is that which immediately surrounds Islamberg for local residents and is traversable in about an hour. The second takes from six to ten hours to travel and stretches from the quarry near the Cannonsville Reservoir to the flood zone adjacent to Cadosia Creek. The third and longest links the aforementioned trails to an existing set of trail networks in the region.

Walking on the trails, one repairs damages from a quarry, restores the riparian buffer along flood zones or creates a small dam for bathing which forms a historical connection between practices that are part of the Hajj such as cleansing oneself, walking back and forth between two hills, and casting stones at the devil, and the locality surrounding Islamberg.

By wayfaring from one point to the next, the pilgrims take part in the act of Trailmaking. The trailscape becomes the practice of conservation of the land, a ritual in itself, bridging the contemporary naturereligion divide.

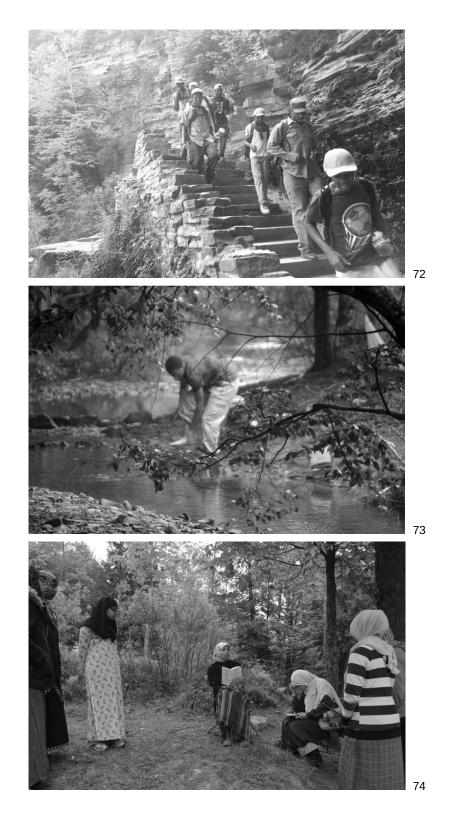
The sanctity of the trailscape arises through an incremental and long term approach to developing a symbiotic relationship between the pilgrims and the natural environment. The processes of wayfaring from one location to the next and creating paths which contain additional meaning derived from the acts of healing that take place along the way creates the foundation for the spiritual dimension of the pilgrimage. The trailscape fosters a mutually beneficial relationship between the users of the network of trails and the natural environment that the trailscape is situated within.

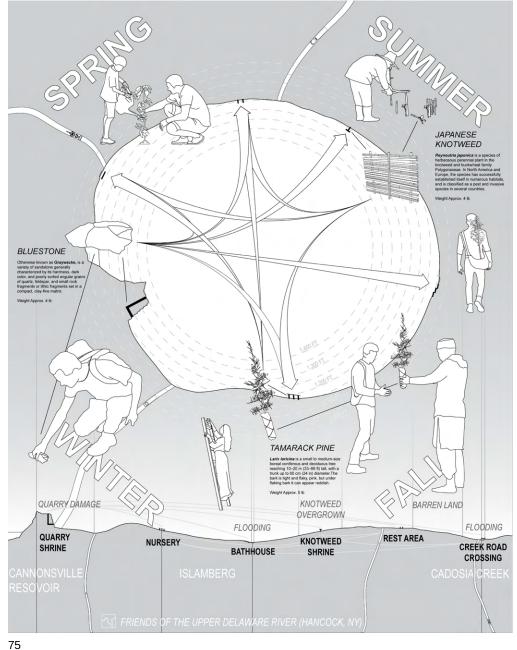
The constellation of healed spaces and the paths in between the focal points together form a trailscape which itself is a mobility heritage. This embeds a notion of heritage into the landscape, as the paths are defined by the places along them which synthesize nature healing and spirituality. As a result the pilgrims are able to expand their regional knowledge through an intimate relationship with the ebbs and flows of the local ecology. Taking part in seasonal practices and being attuned to changes in the environment over the years enables pilgrims to extend their charitable practices to the ecological systems that they are a part of. The sustainability of the network depends on the regular engagement of the users, therefore as the ecology changes over the years, so should the points of intervention. Consequently, the effectiveness of the pilgrimage necessitates a regular interval of reassessment. Once the restoration goals along the trail are achieved, a new set of constellations of interventions and trailscape shall be implemented. The trailscape is a mobility heritage, not only because the pilgrims articulate a physical trajectory which is informed by the acts of restoration, but also it forms an everevolving topography over time.



The Waqf puts mandates that the trail-scape is determination of where problem are or are likely maintained in perpetuity, however the size and to arise. The scale and the means of intervention reaches of the trail are determined by the eco- are therefore expected to change but the enlogical areas of intervention. As problems are gagement with the surrounding environment is resolved or new issues arise, the trails are able consistent over time. to expand and contract to accommodate them. Likewise, this requires a regular engagement with the surrounding ecologically and a continual













Islamberg & Wayfaring

76

Adv. Studio IV