

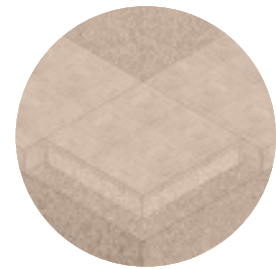
PORTFOLIO

COLUMBIA GSAPP

MASTER OF SCIENCE IN ADVANCED ARCHITECTURAL DESIGN

EUGENIA LOPEZ VALDES

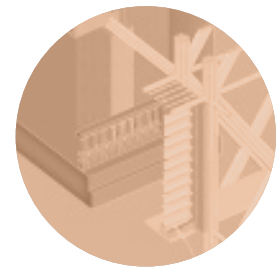
These works reflect how our practice can be more ethical, ecological, and conscious. Throughout this year, I have been analyzing how, as an architect, I can be more accountable for the designs I choose, beginning with the materials and the people and environments affected by their extraction. My personal reflection has led me to avoid building with materials that require exhaustive and harmful extraction processes. At the same time, I have been reflecting on how we have already transformed the earth through the creation and extraction of new materials, and that perhaps we should focus on reusing what has already been transformed rather than continuing to extract more. Therefore, the main concept here is that the earth already gives, and we borrow from it as material, with the understanding that it eventually can and will return to the earth. As architects, we should approach this responsibility with greater awareness and care.



01

Weaving Field and Built Practices

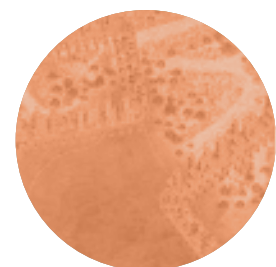
summer 2025



02

Repairing Perceptions of Once-Sacred Waters in the Basin of Mexico

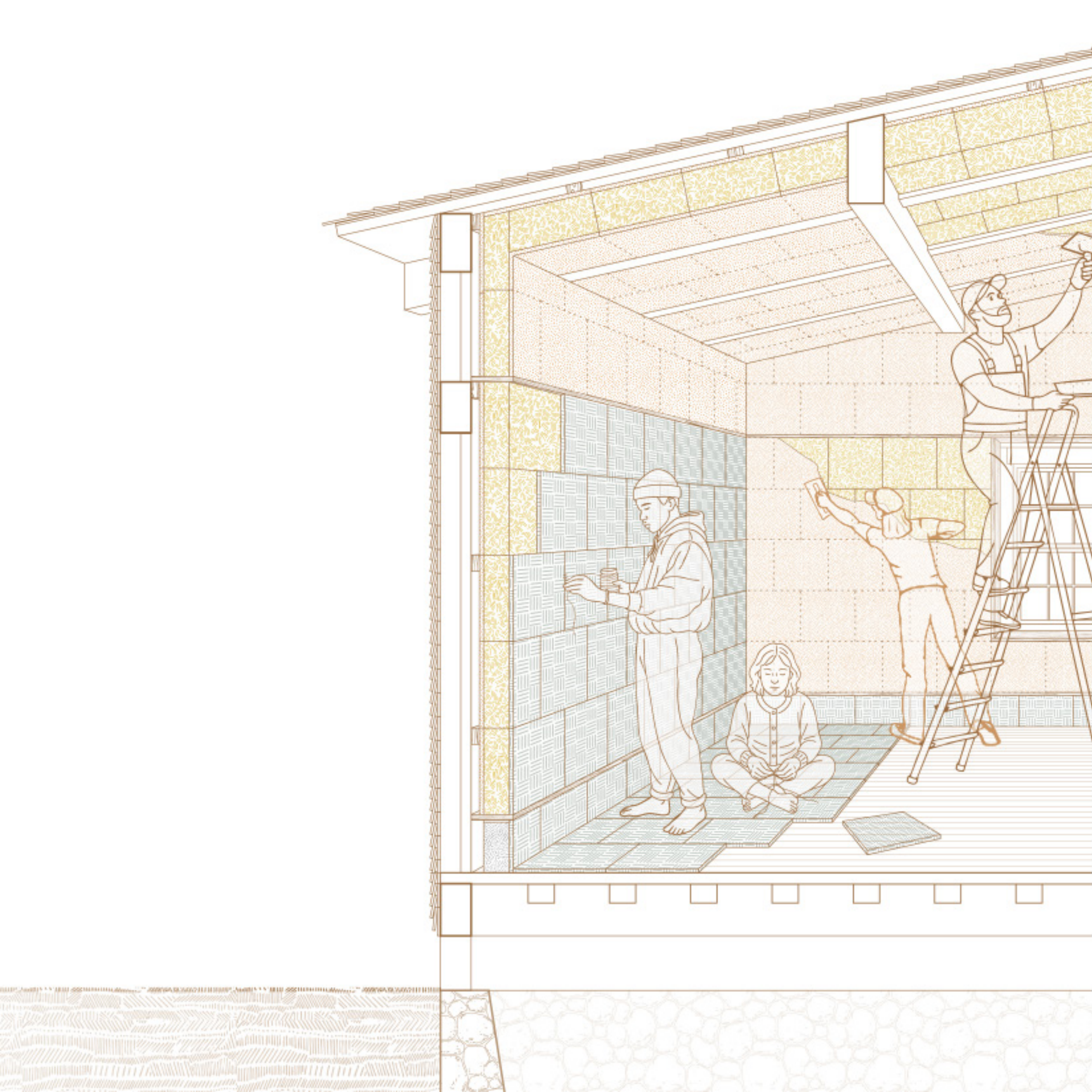
fall 2026



03

Nido Ambroz: Nested in Water

spring 2026



Assessing Endogenous Building Practices

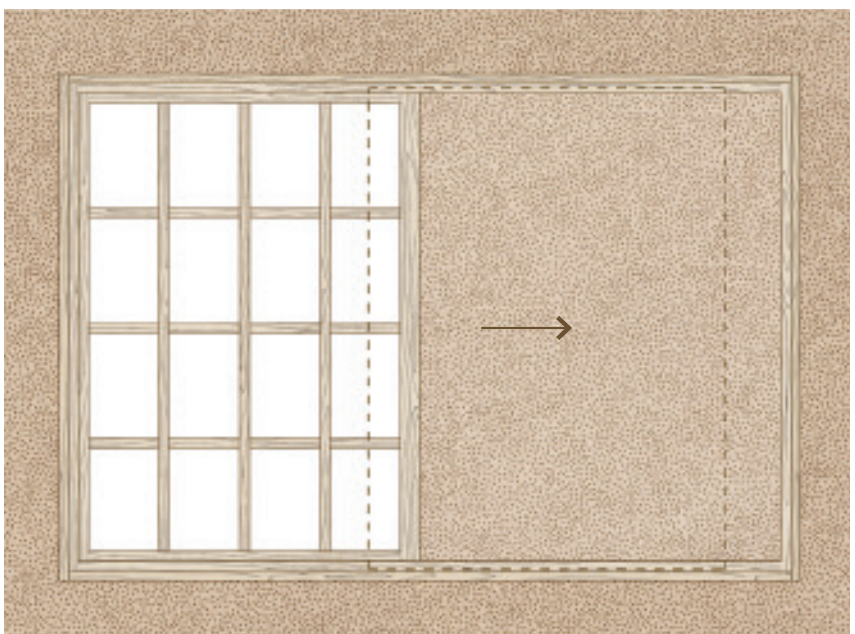
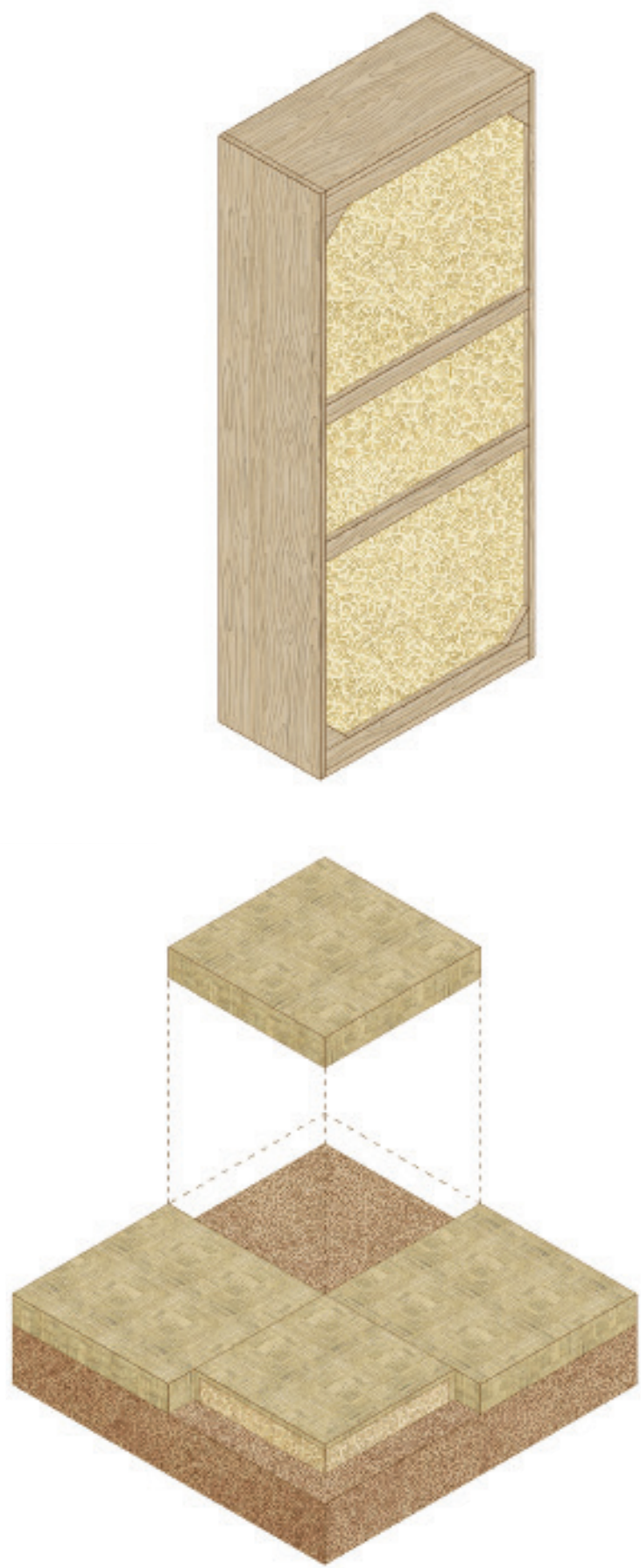
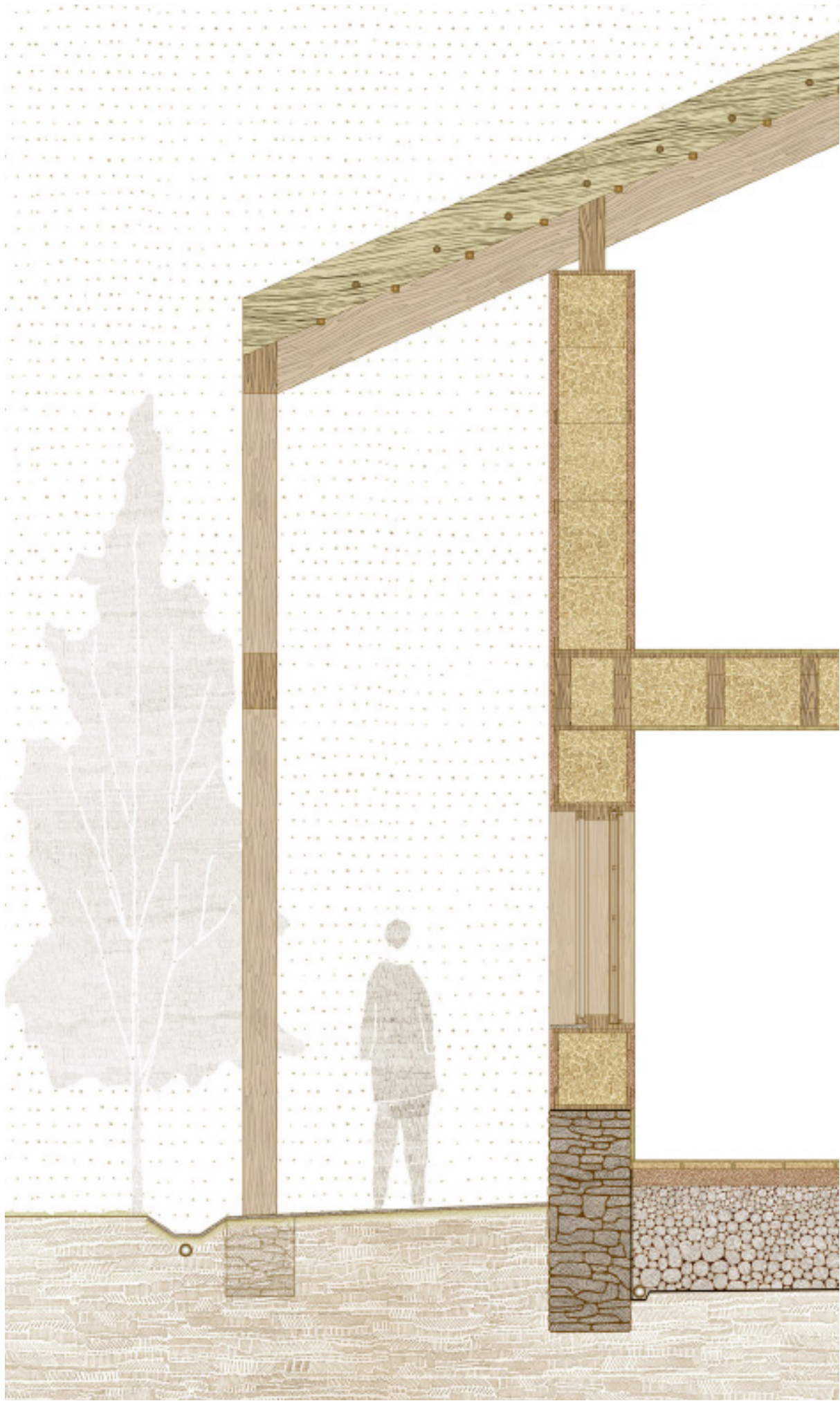
Nicolas Rondet + Nzinga B. Mboup

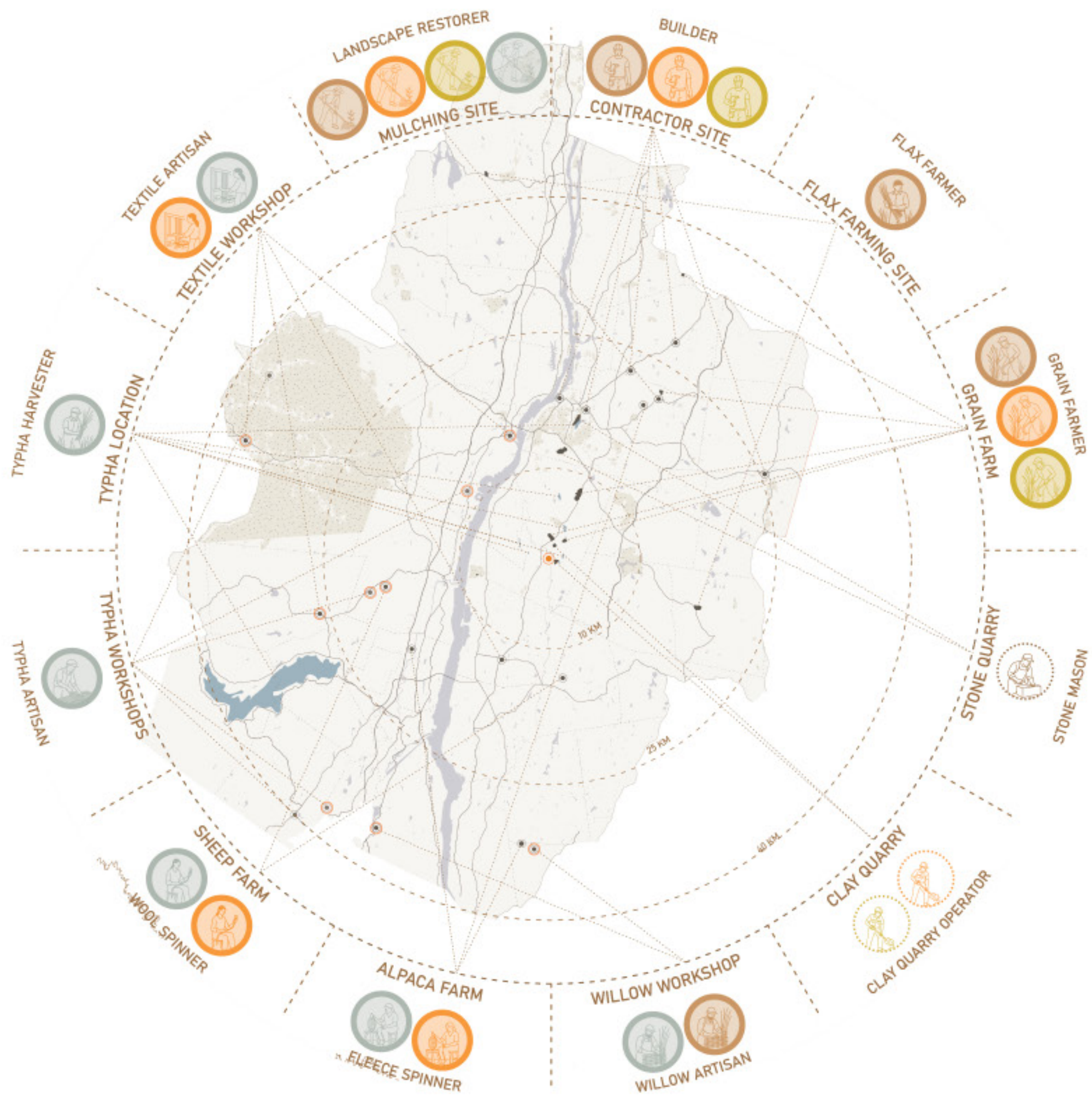
01 Weaving Field and Built Practices summer 2025

This project explored how natural fibers native to New York State could be adapted to the local climate and integrated into existing regional systems of knowledge, labor, and construction. Drawing from vernacular precedents such as Japanese tatami and woven rush flooring in the UK, I designed a flooring and insulation tile composed of compressed straw and woven cattail (typha), paired with clay to regulate humidity and thermal performance in New York’s humid summers and cold winters. Through extensive material experimentation, I fabricated hand-compressed straw tiles finished with woven typha mats, testing the structural, tactile, and environmental potential of the system while confronting the labor-intensive realities of production. The second phase of the project reassessed the design within the context of a traditional Connected Farmhouse in Upstate New York, mapping the local networks of farmers, contractors, textile artisans, and weaving schools whose existing knowledge could support the project’s fabrication, maintenance, and decomposition. By adapting the construction process to rely on familiar regional practices, such as cutting tiles from existing straw bales and integrating local basketry techniques, the project evolved from a material experiment into a collaborative architectural system that positioned the farmhouse as a hub for knowledge exchange, craft, and ecological building practices.

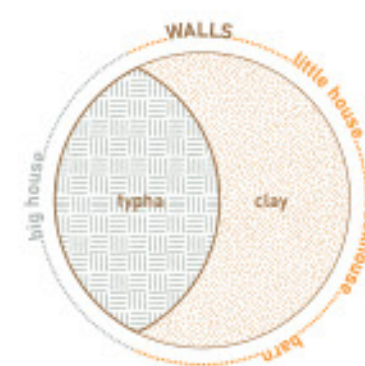
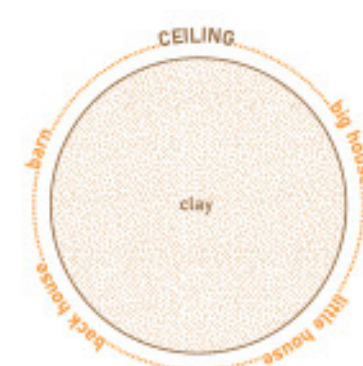
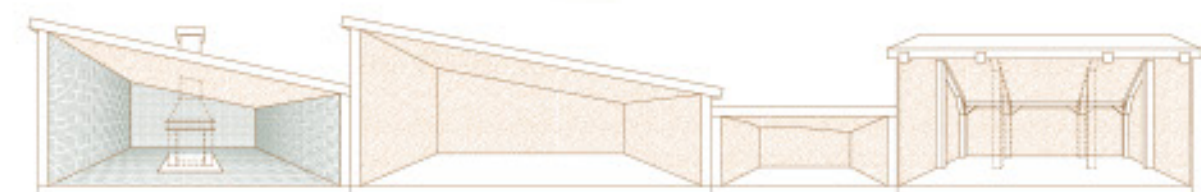
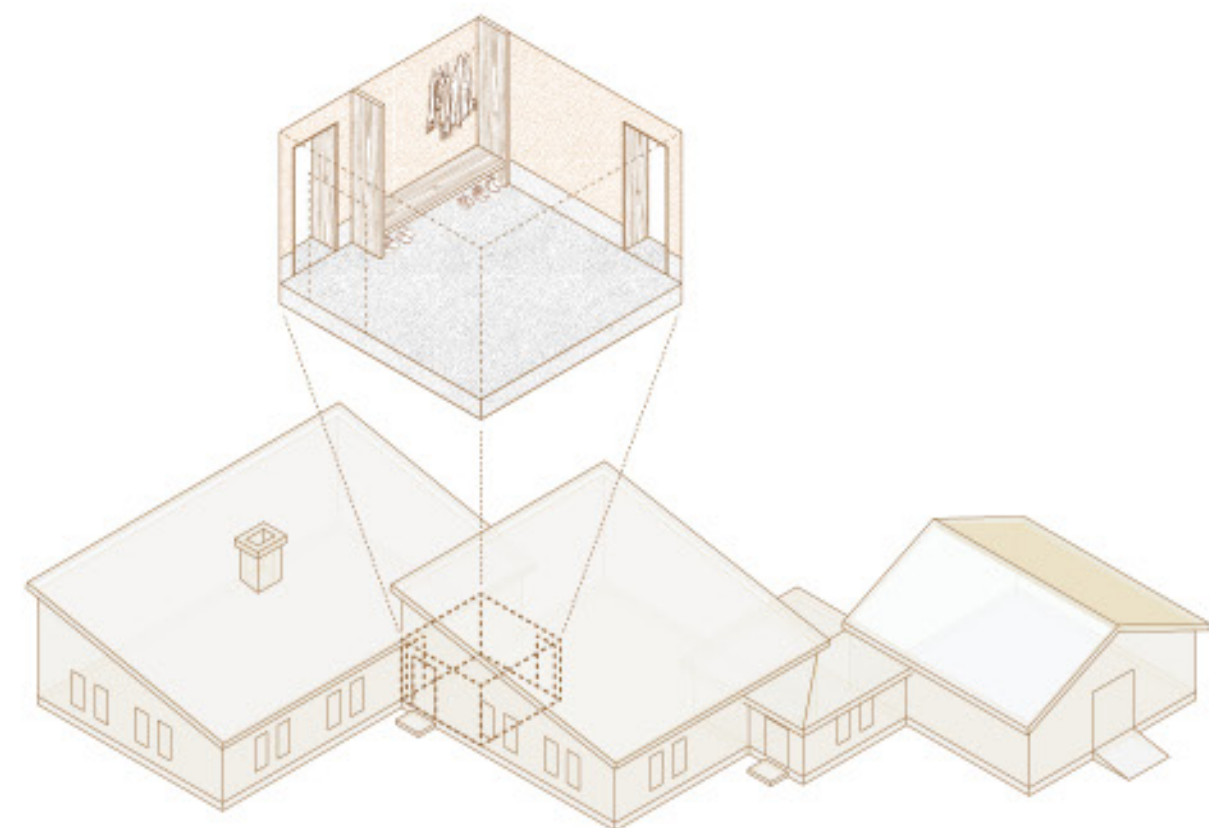
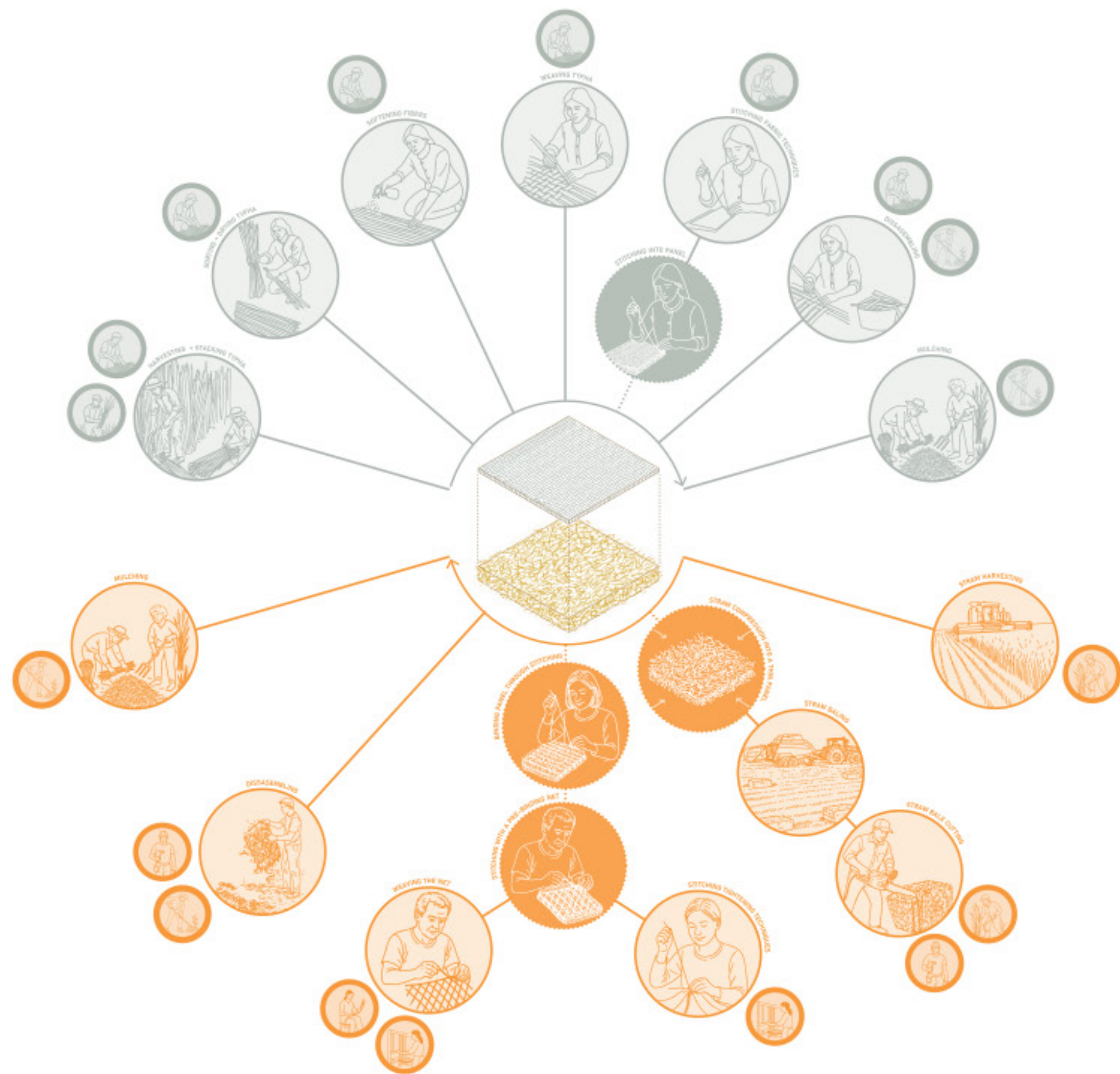
Project Development:
Eugenia Lopez Valdes

*Connected Farm Site Analysis: Eugenia Lopez Valdes + Nicole Kertzhus





Connected Farm Site Analysis: In Collaboration Eugenia Lopez Valdes + Nicole Kertznus







MATTER(ing): On Materiality and State Change

Mario Gooden

02 Repairing Perceptions of Once-Sacred Waters in the Basin of Mexico

fall 2026

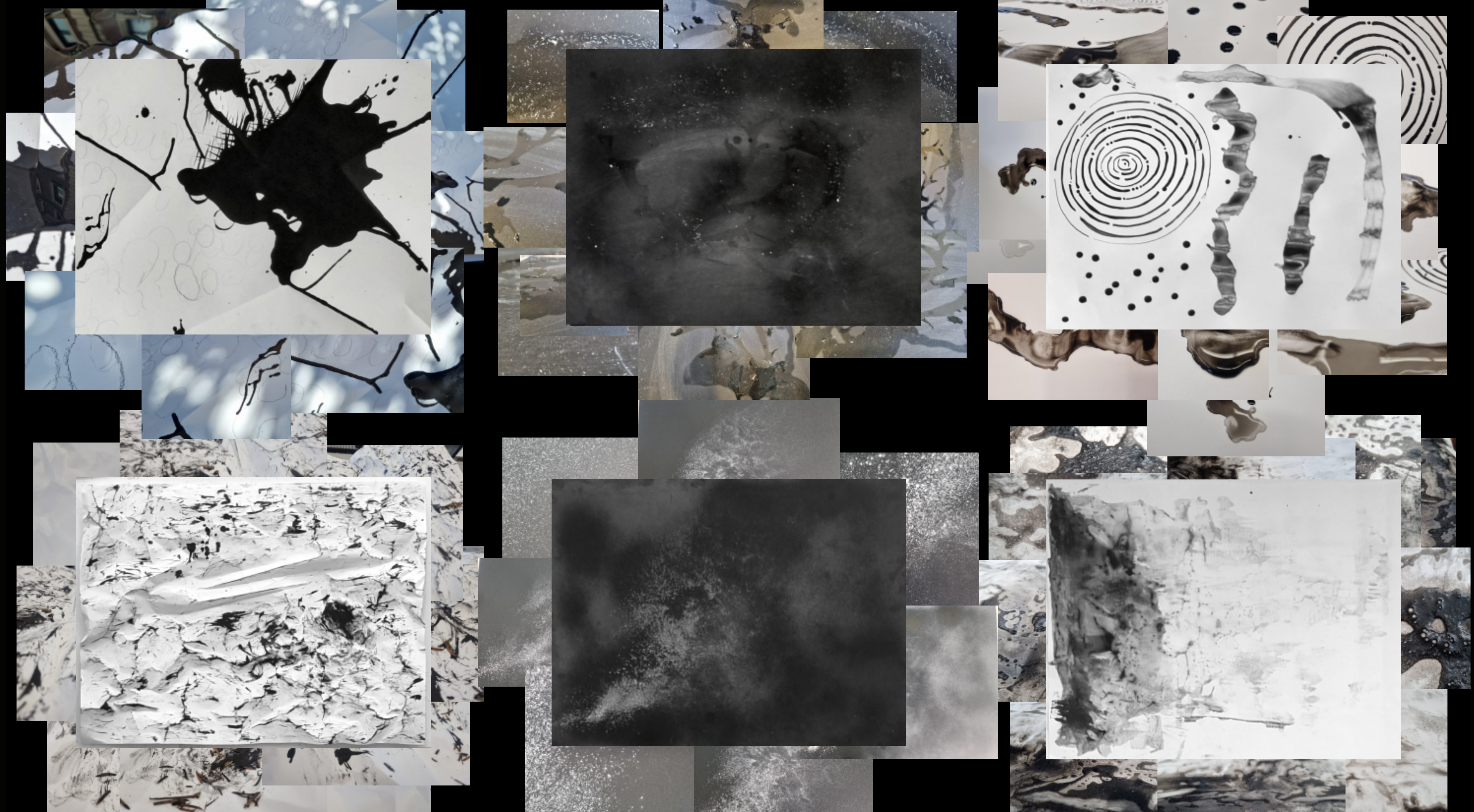
Beginning with a story of earth, water, and air, the studio conceptualized their transformation through states of change. Starting with drawings of these elemental conditions, the process evolved into material experimentation. In this case, the chosen materials were water and copper, reflecting a critique of frustration and control.

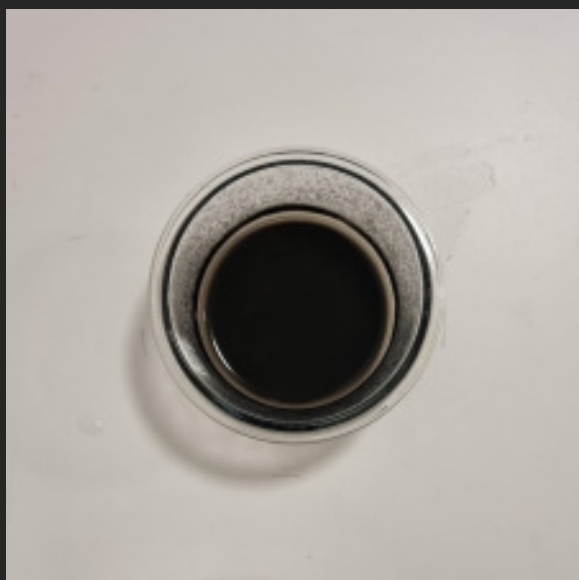
This reflection led to the creation of an architectural window detail that intentionally allows leakage, expressing the changing states of water and enabling its movement from the exterior to the interior. The ideas explored through this detail informed the selection of a site shaped by centuries of imposed control and environmental frustration: the Basin of Mexico and the former Lake Texcoco. Here, water has been systematically drained for centuries, and this history of control reflects the irreversible transformation of both climate and culture.

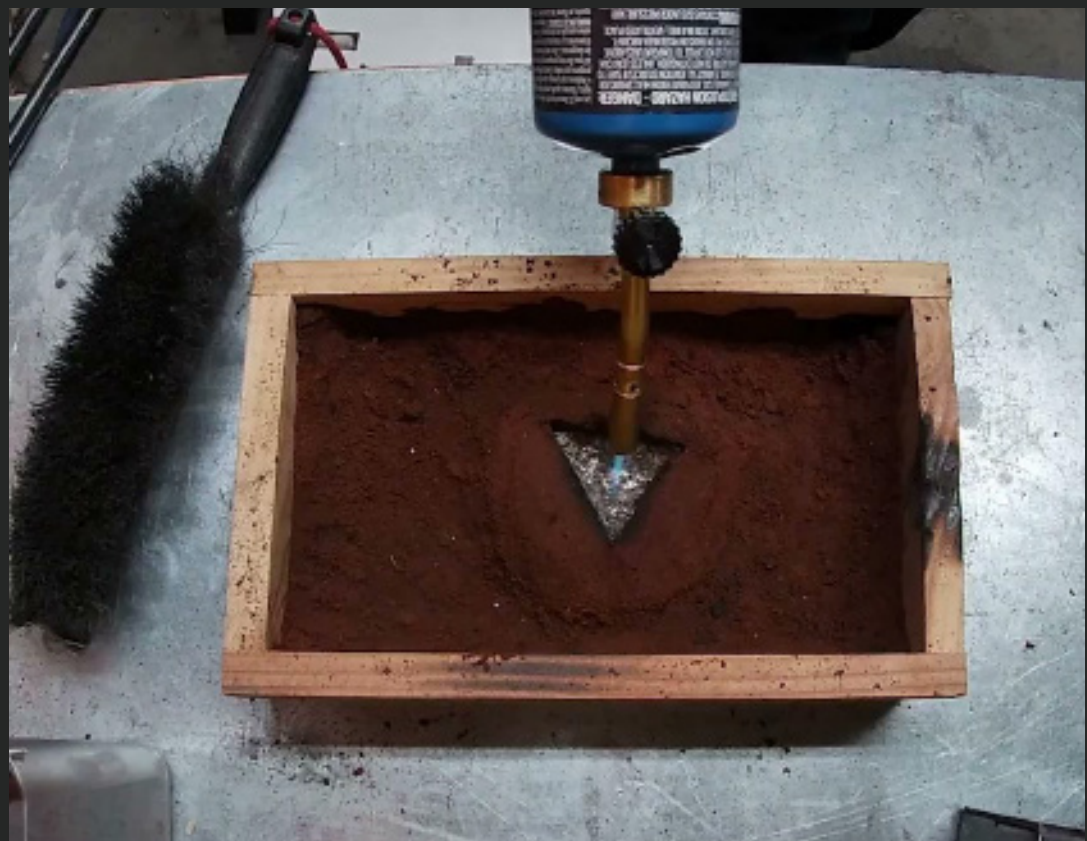
Within this context, the studio culminated in an architectural project grounded in the logic and critique embedded within the detail itself. By uncovering the buried Mexica temple of Cihuacoatl and reconnecting water, earth, species, and ritual, the project proposes acts of architectural repair that begin to heal the ecological and spiritual ruptures caused by a colonial perception of water as a commodity, ruptures that desiccated Lake Texcoco and destabilized the ecology of the Basin of Mexico.

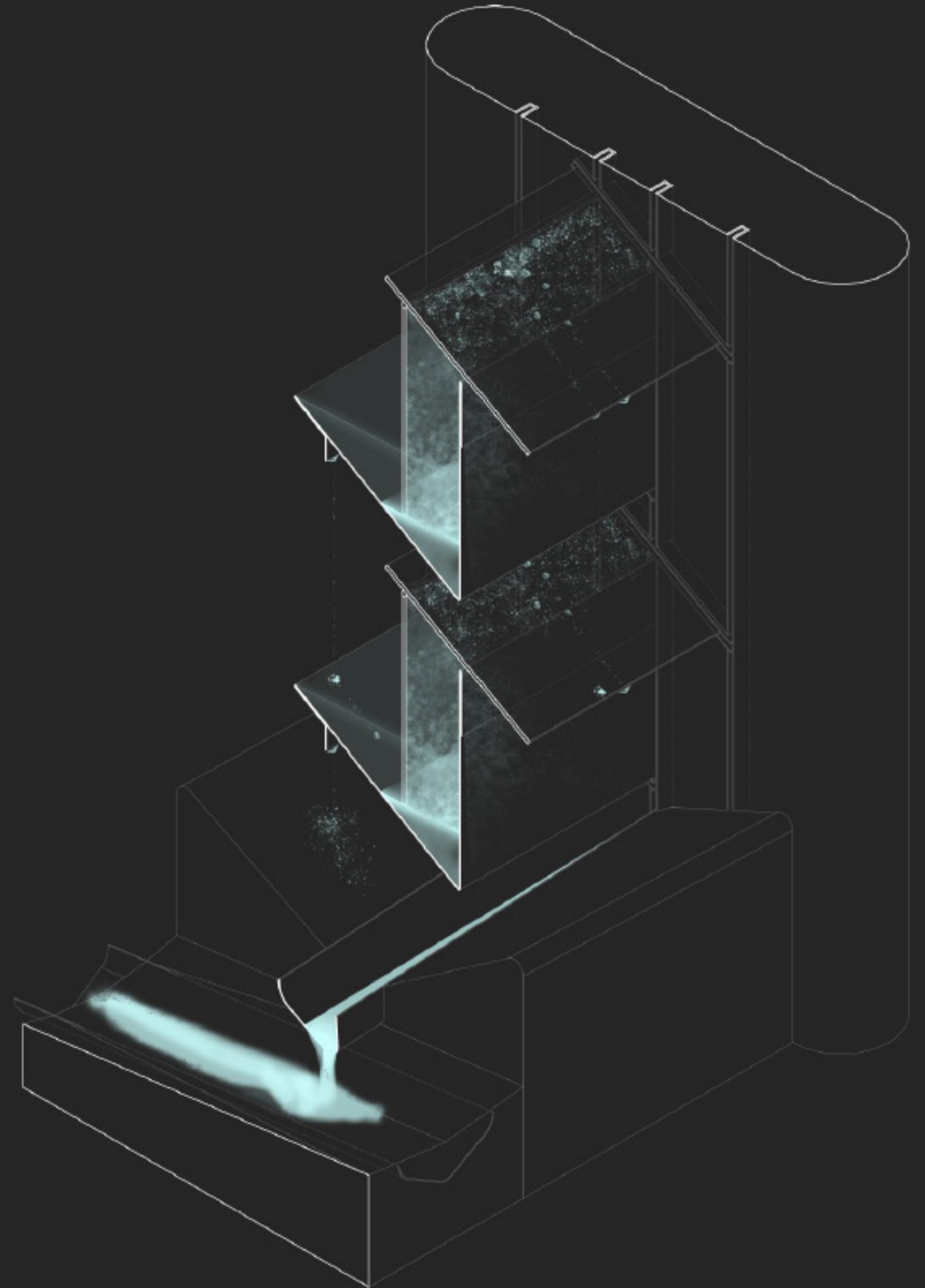
Project Development:

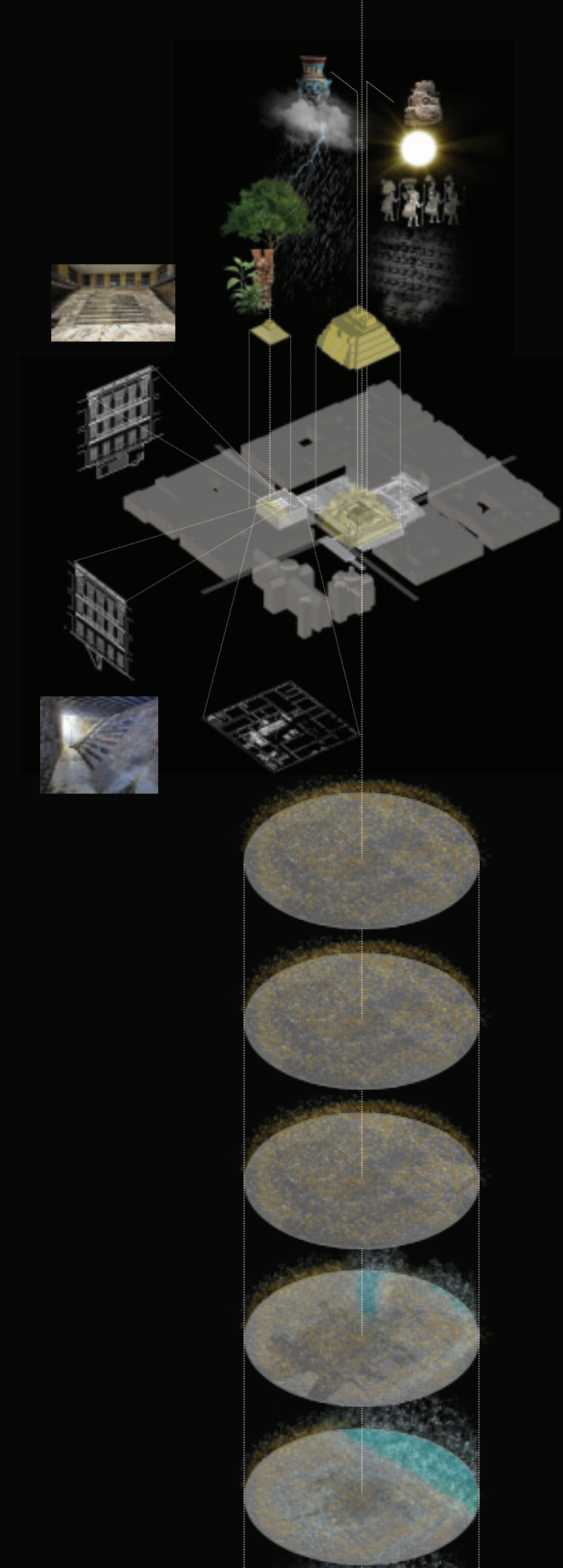
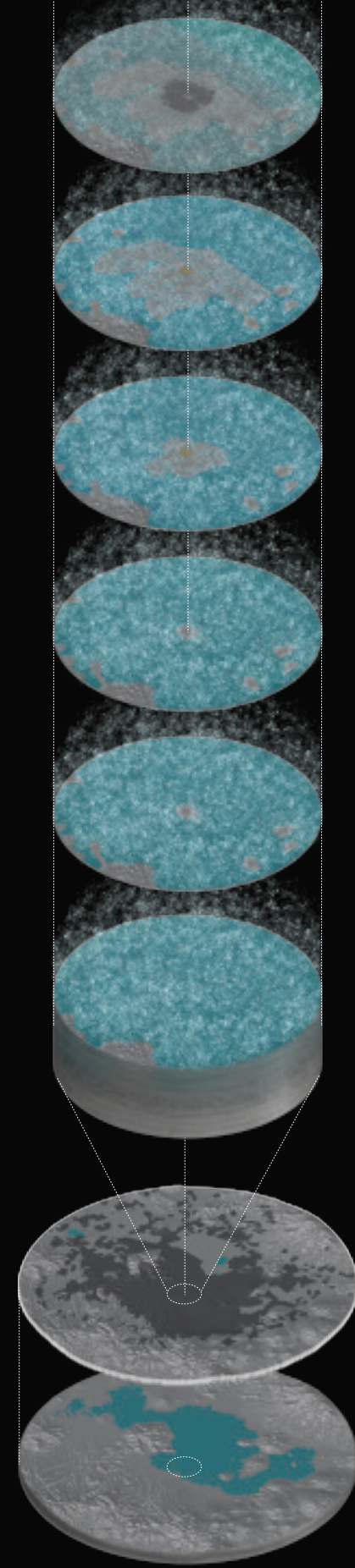
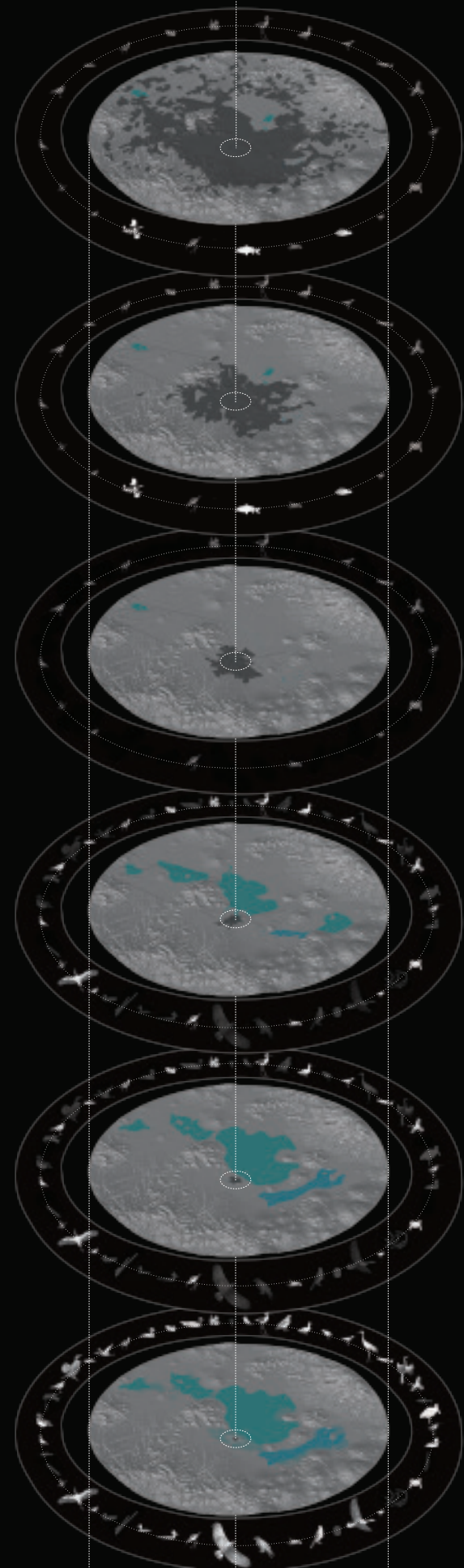
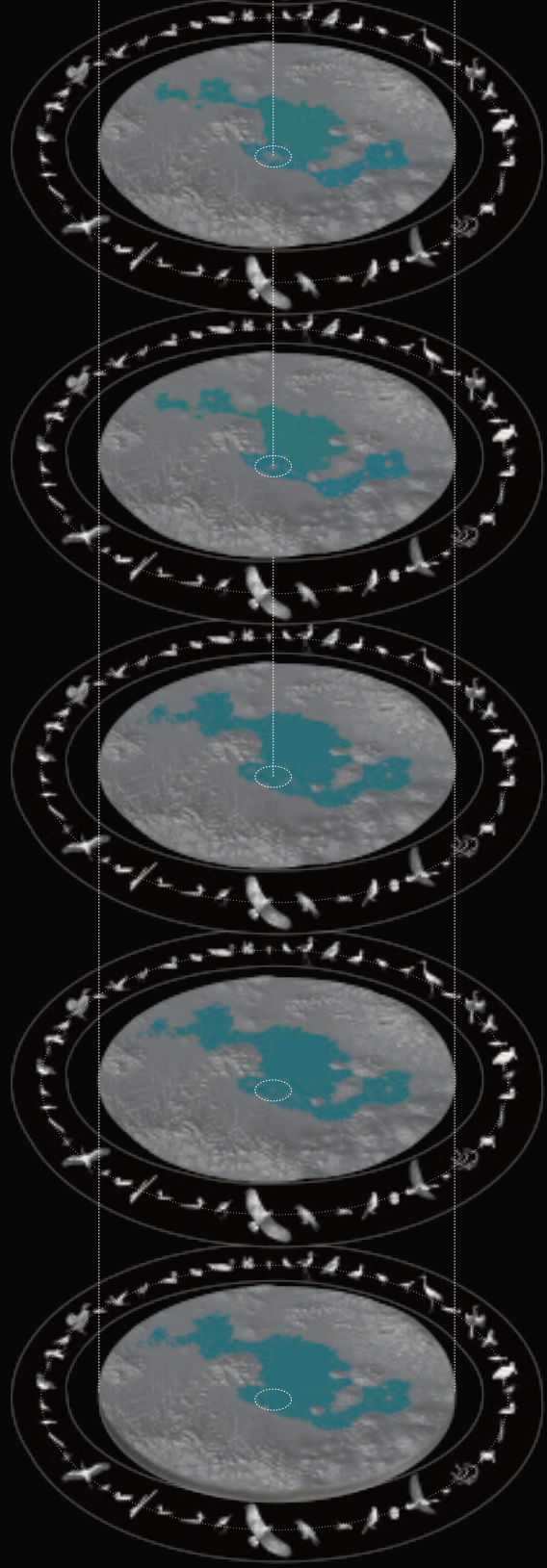
Eugenia Lopez Valdes

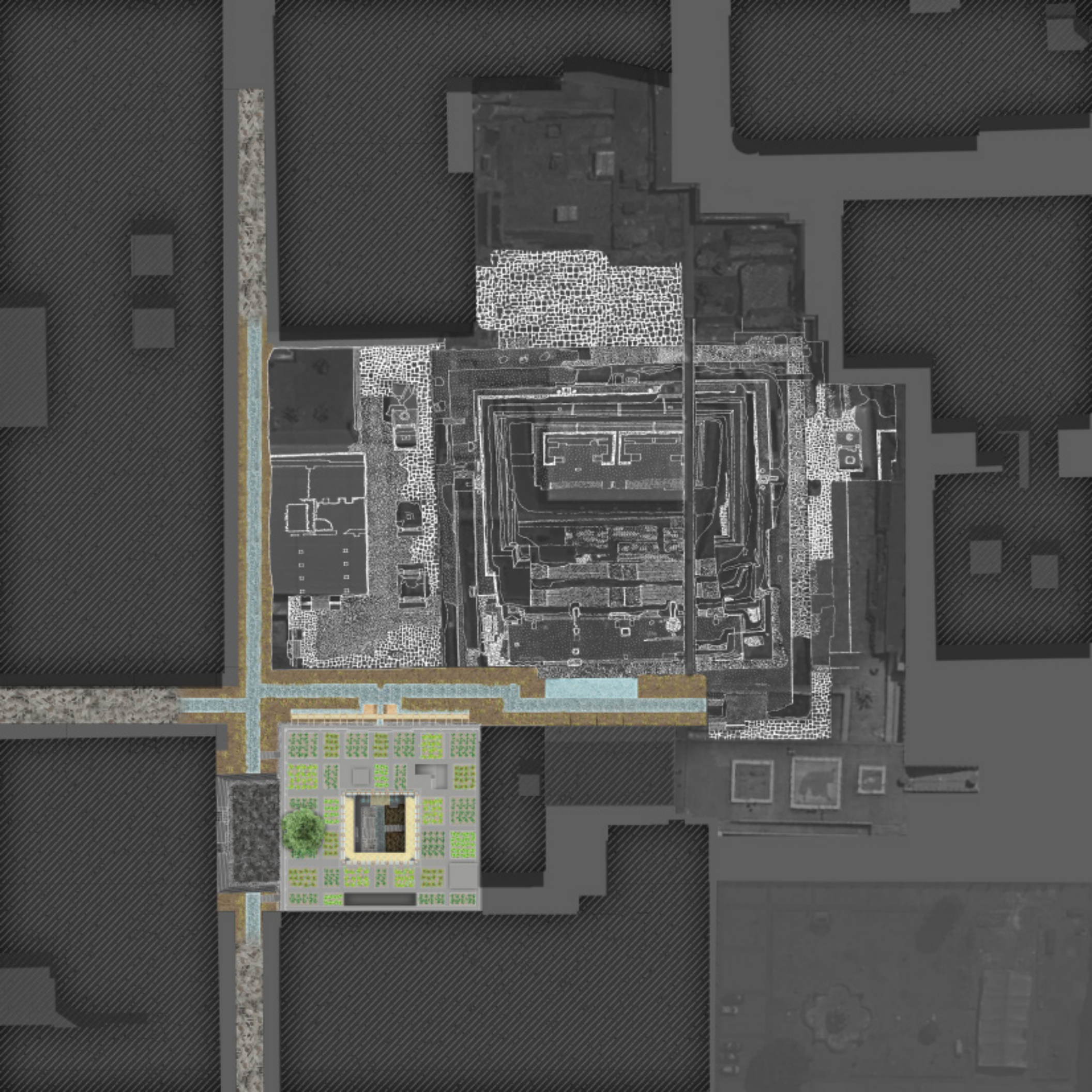


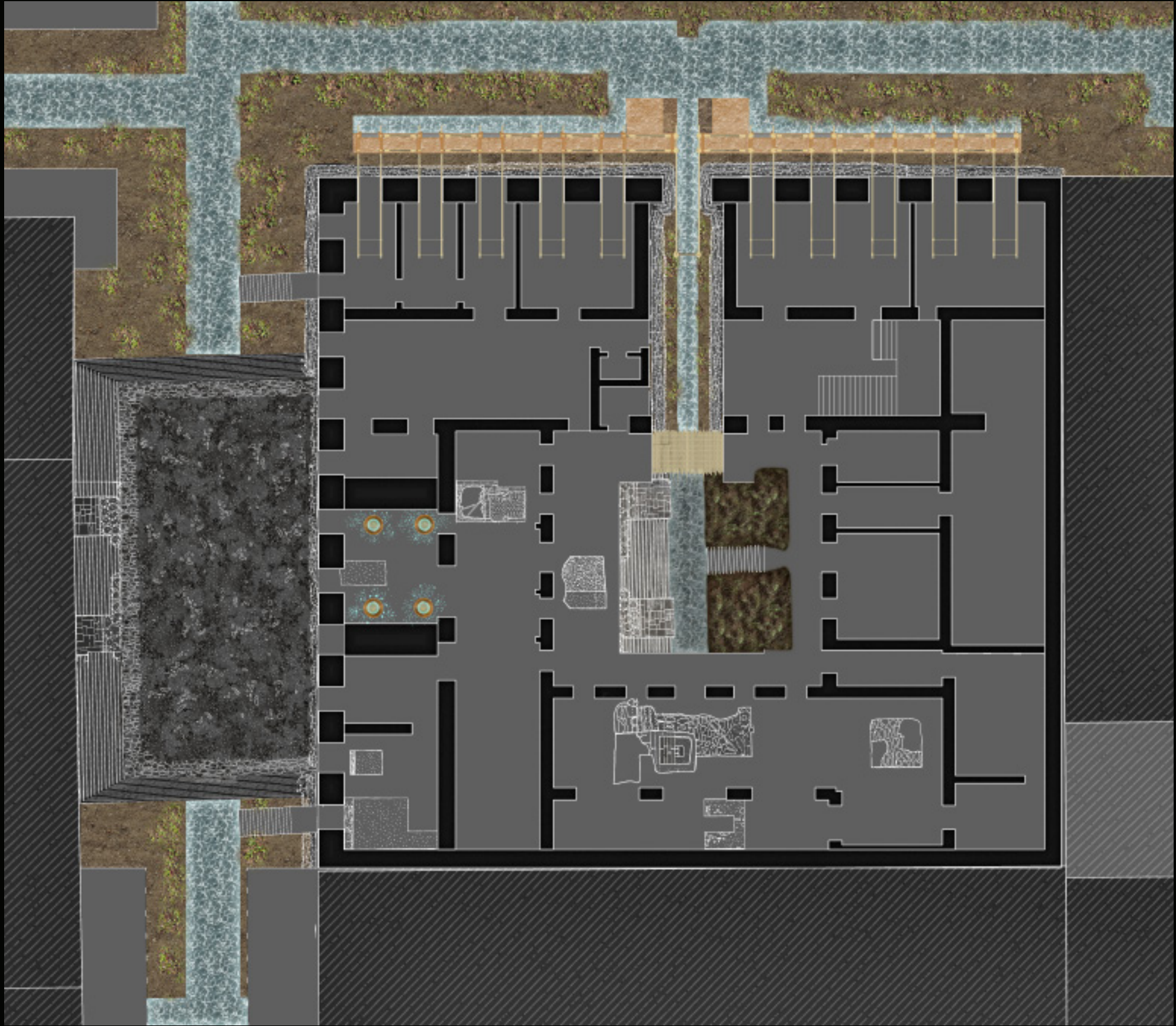


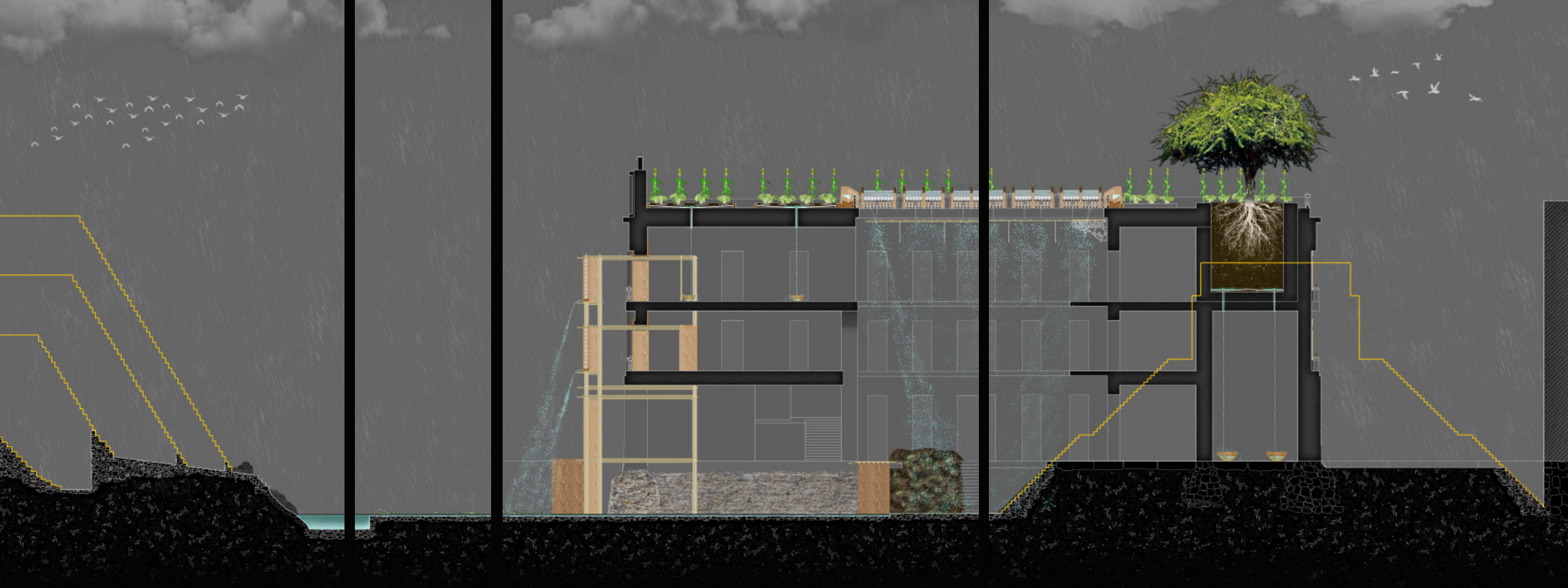


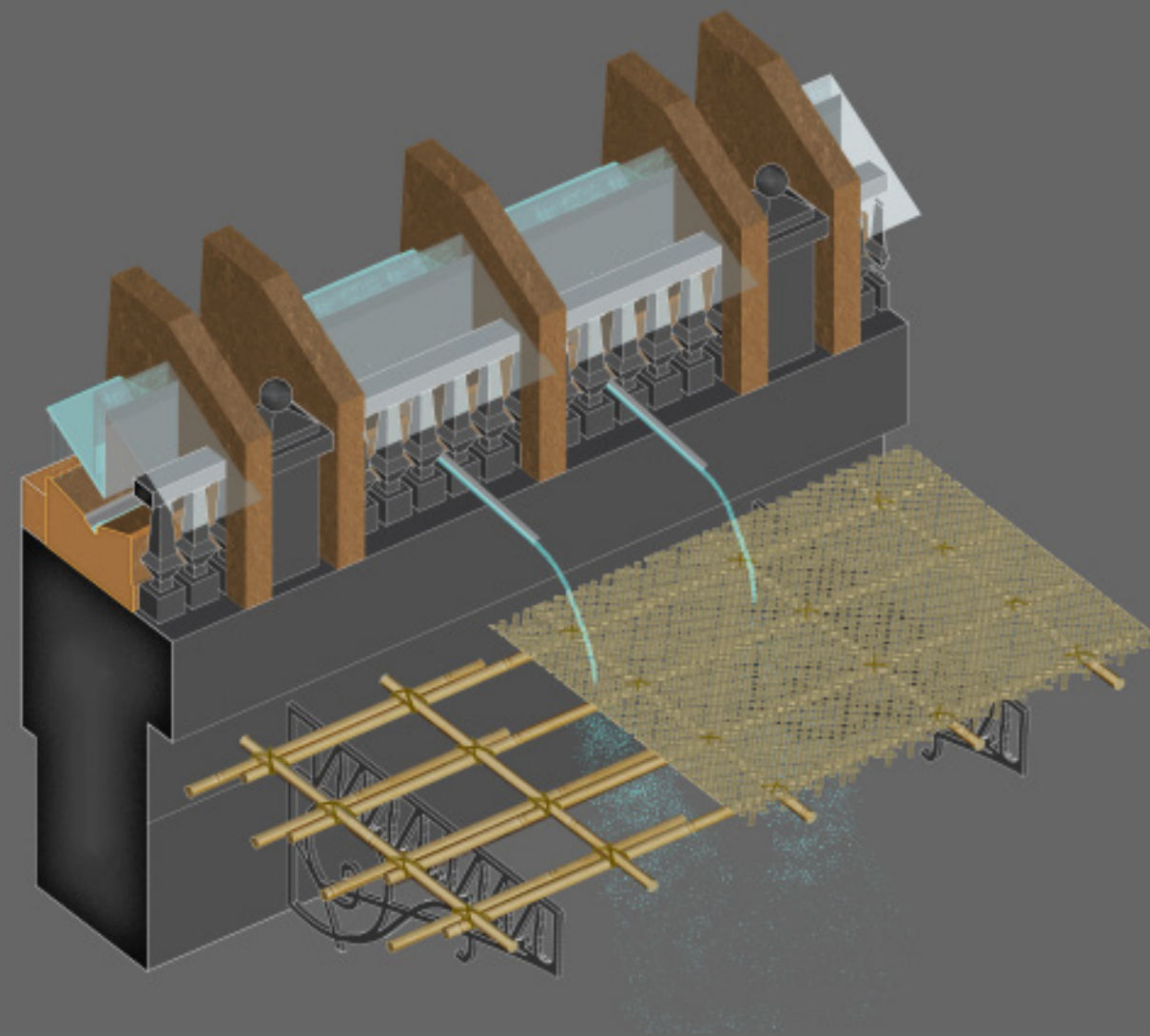
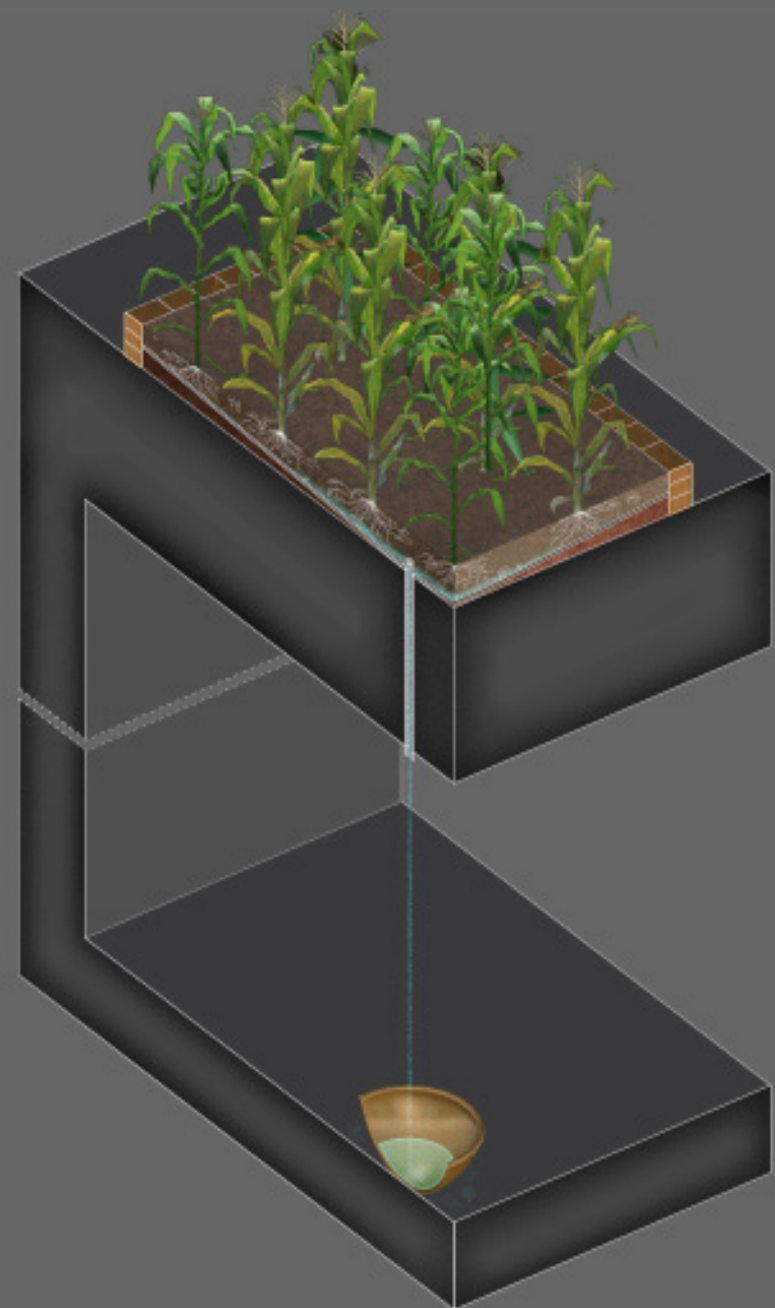
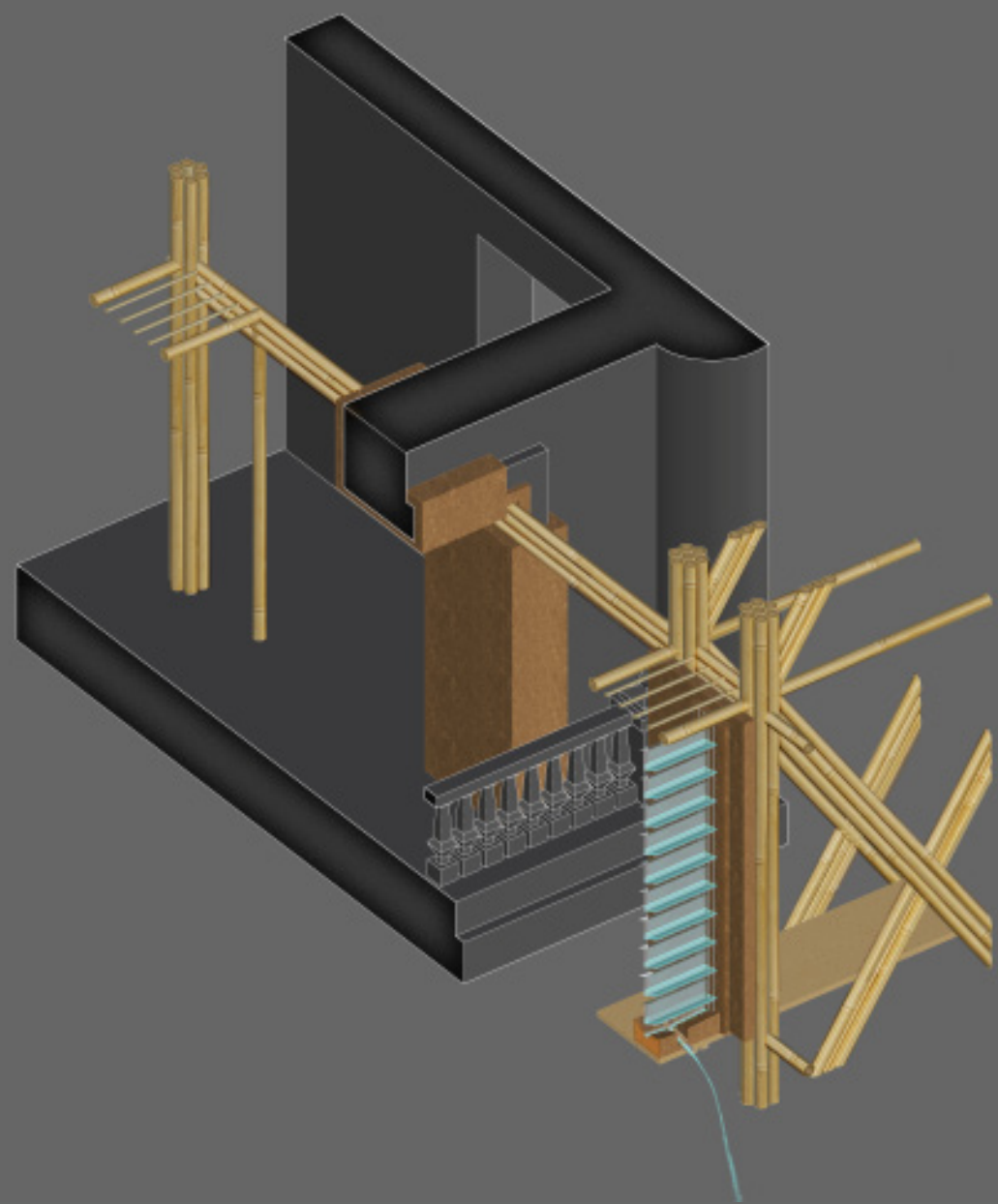
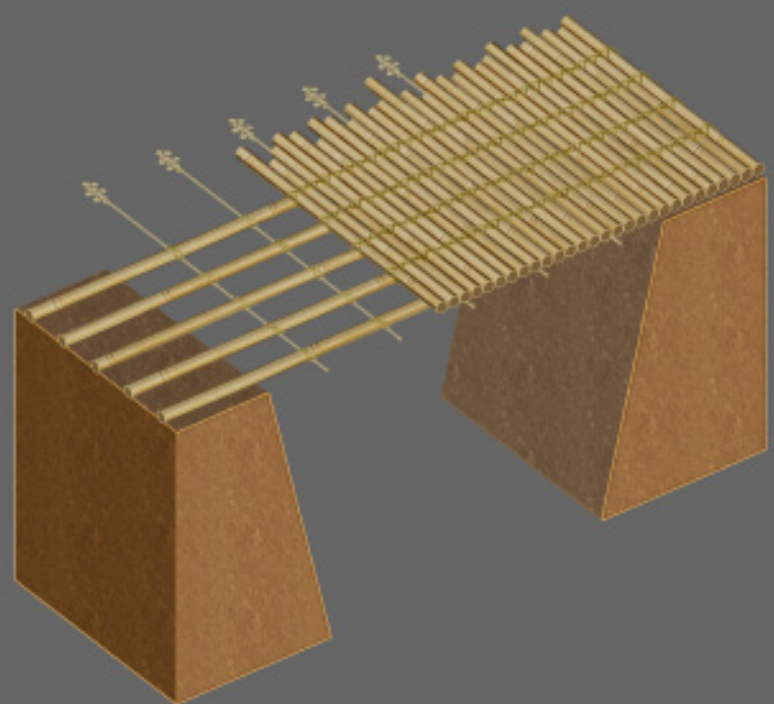


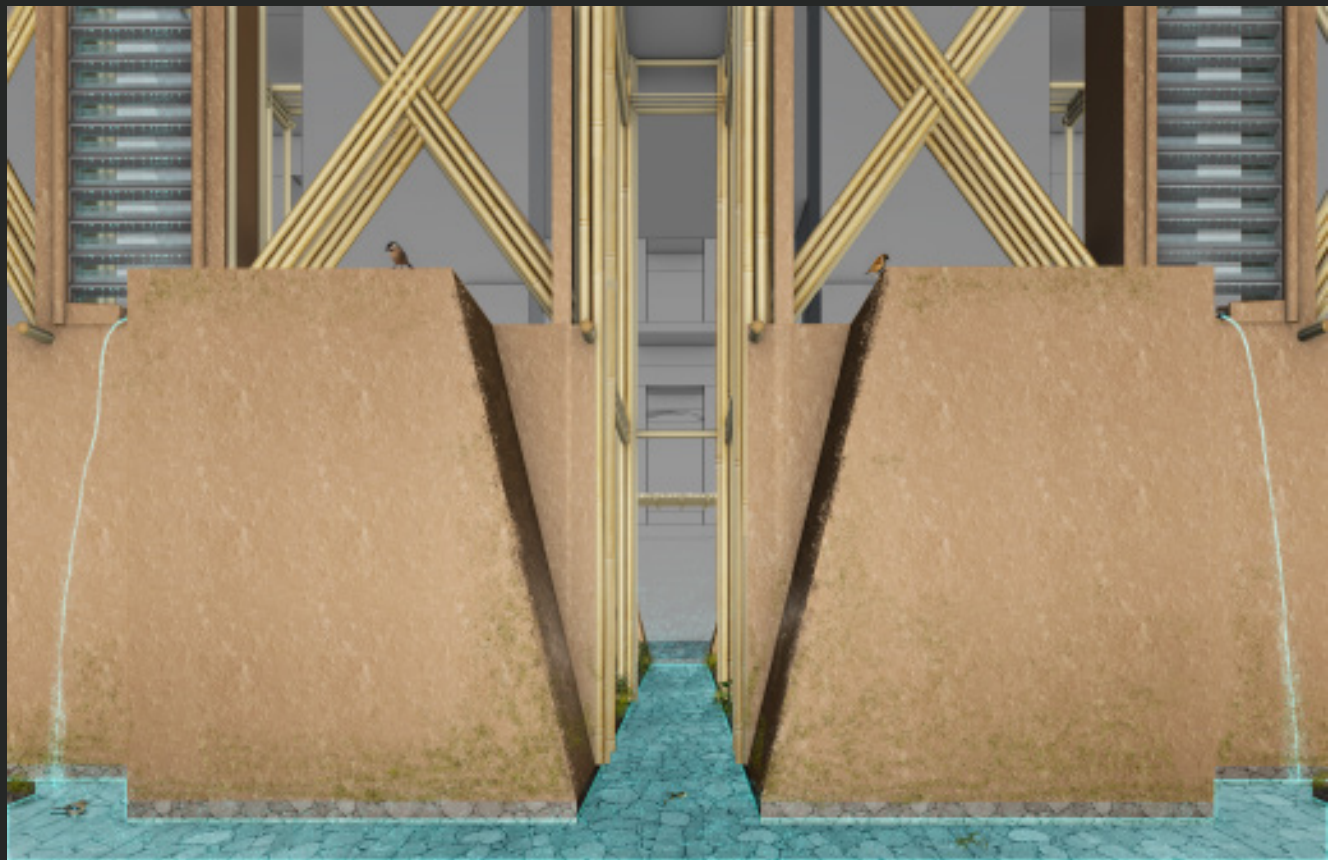
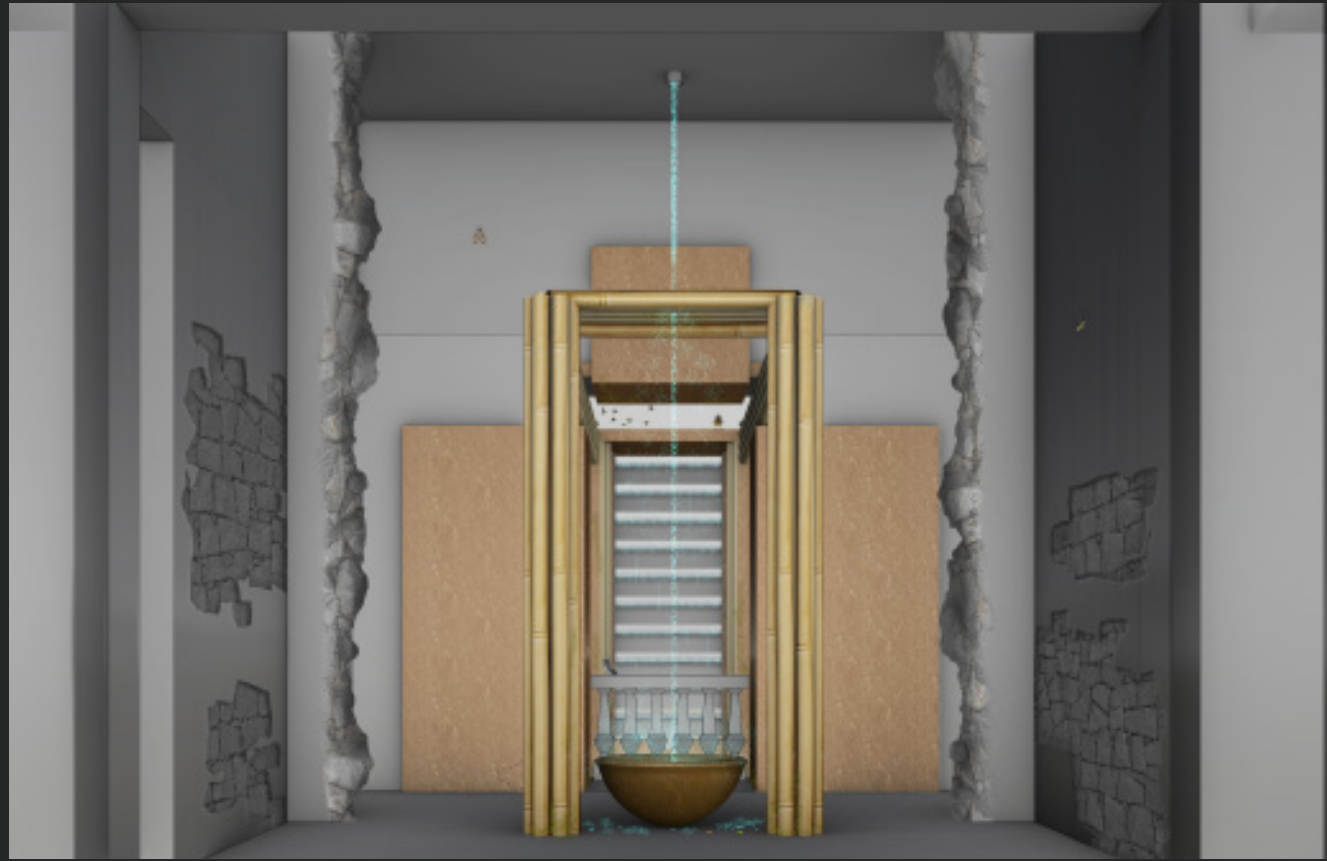
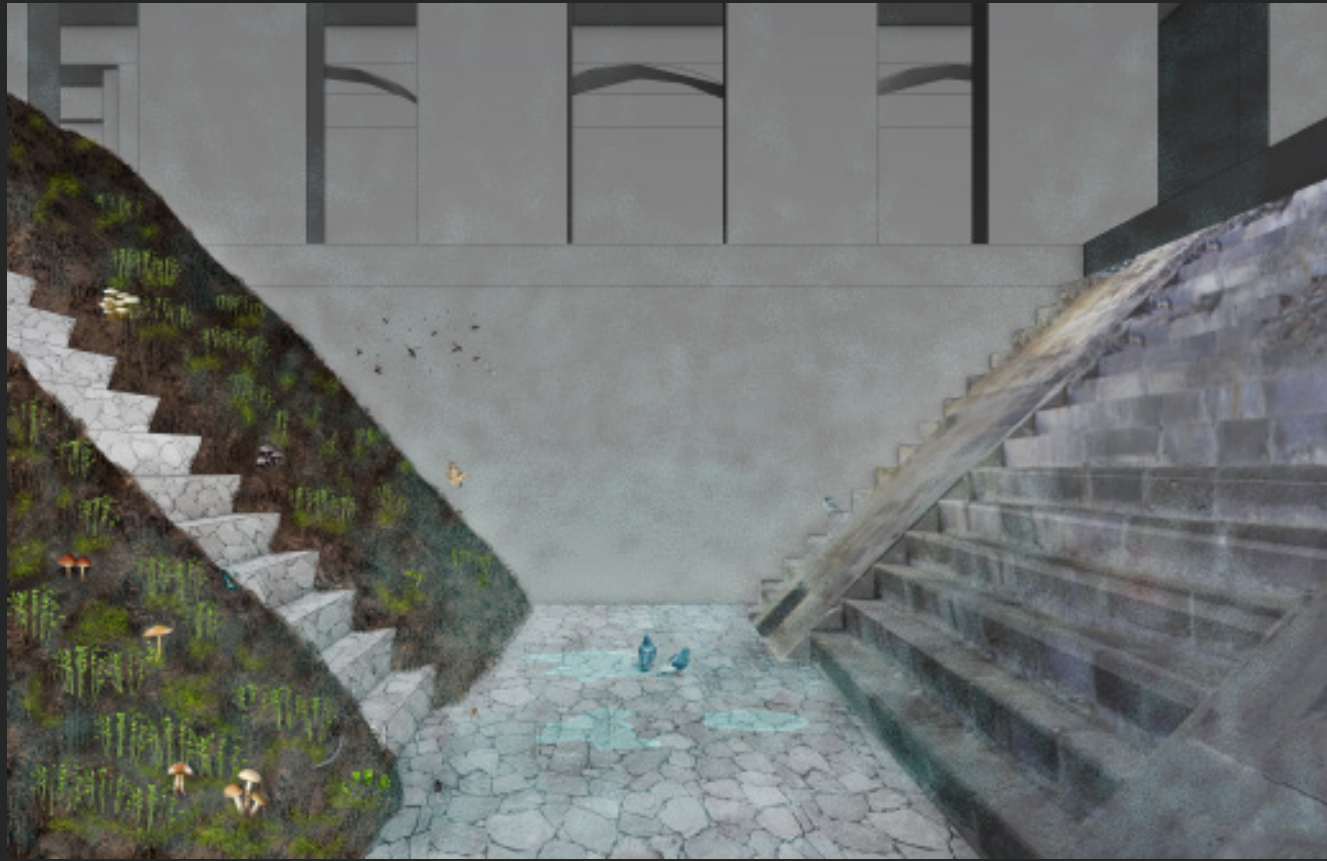
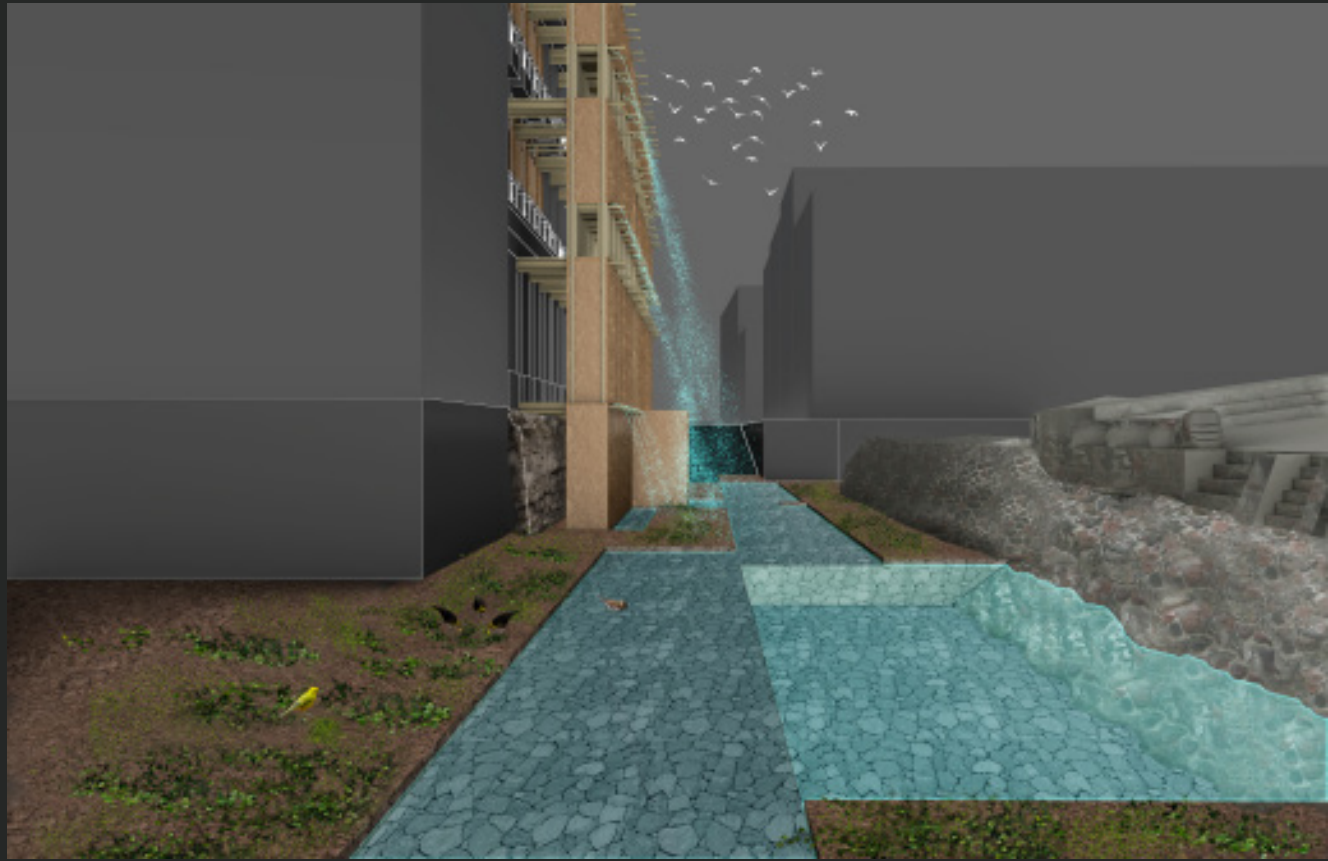


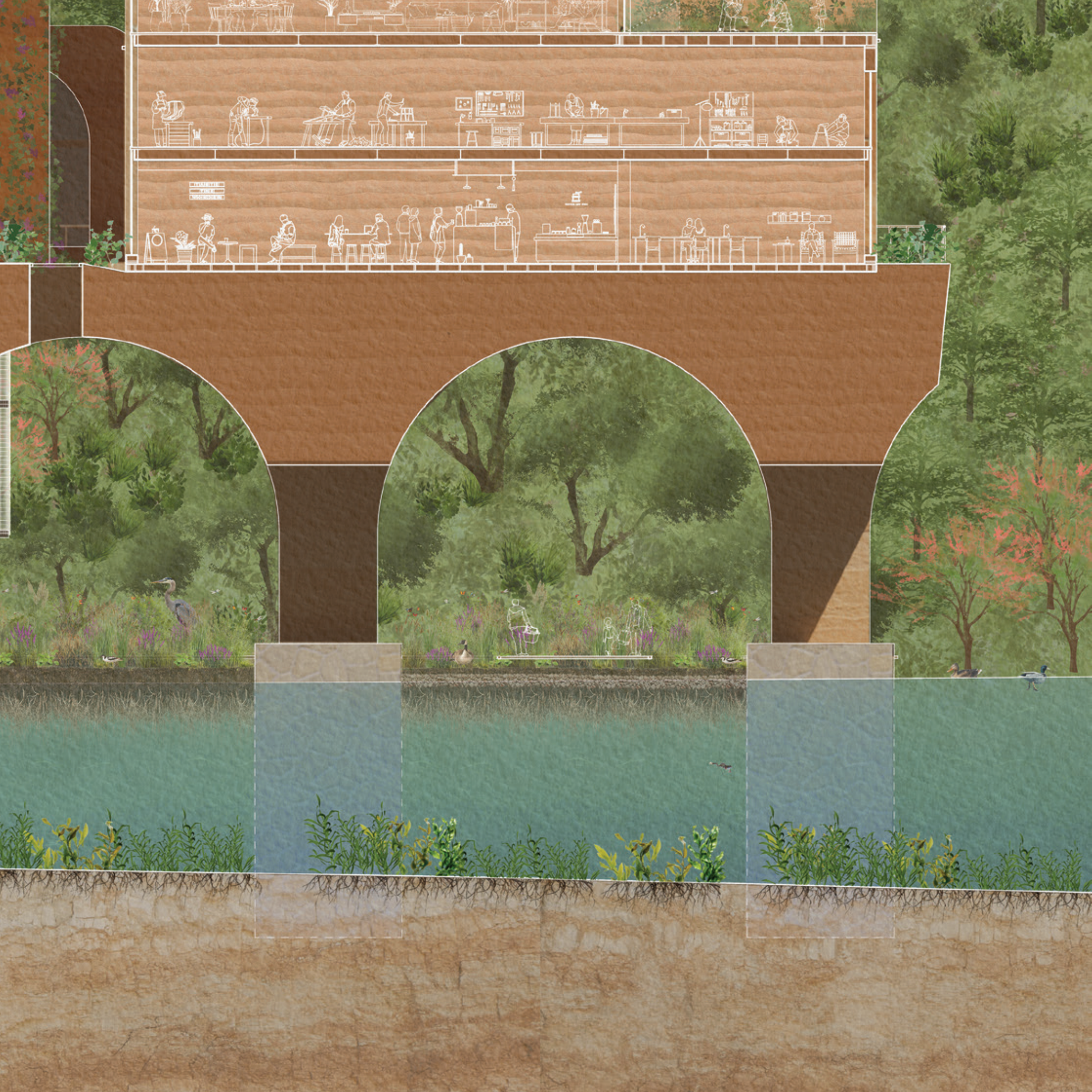










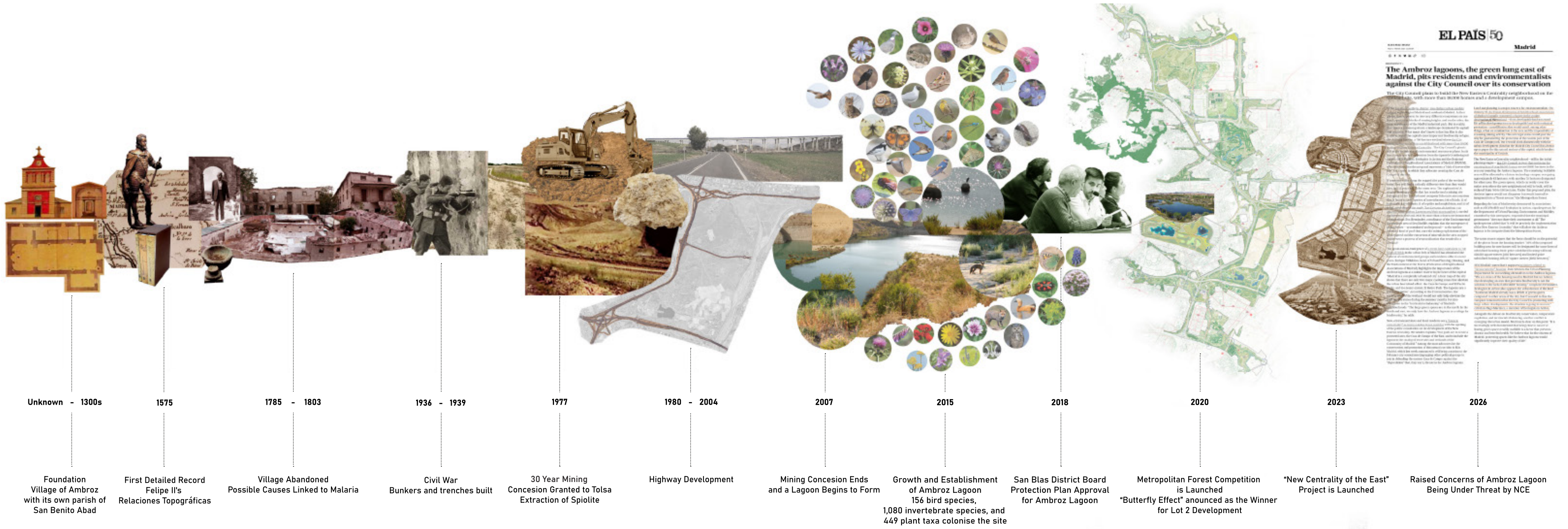


Naturalized Neighborhoods to Residentialize the Metropolitan Forest
Juan Herreros + Aistyara Shanning

03 Nido Ambroz: Nested in Water
spring 2026

Nido Ambroz is a co-living housing project located in Lot 2 of Madrid’s Bosque Metropolitano, conceived as an alternative to the proposed urban development of Nueva Centralidad del Este. The project begins with the ecological and historical significance of Laguna Ambroz, a former extraction pit that gradually transformed into a thriving wetland ecosystem after mining operations ended. This process of natural regeneration became the project’s central precedent, demonstrating the site’s capacity for healing and coexistence between water, soil, vegetation, insects, and migratory birds. Rather than imposing a continuous urban fabric onto this sensitive landscape, Nido Ambroz proposes a porous housing strategy that reinterprets Madrid’s dense urban block by fragmenting and dispersing it across the site, allowing biodiversity and seasonal flood conditions to move through and around the architecture. Using excavated earth from the site alongside recycled construction materials sourced from nearby recycling centers, the project develops a regenerative material and construction strategy rooted in the landscape itself. Organized around shared ecological and social spaces, the proposal integrates wetland stewardship programs, adaptable co-living units, floodable forests, and habitats for non-human species, positioning housing not as a force of occupation, but as an active participant in ecological restoration and collective living.

Project Development:
Nadeysh Sophie Ojasmar + Eiwa Colburn + Eugenia Lopez Valdes



Unknown - 1300s

Foundation Village of Ambroz with its own parish of San Benito Abad

1575

First Detailed Record Felipe II's Relaciones Topográficas

1785 - 1803

Village Abandoned Possible Causes Linked to Malaria

1936 - 1939

Civil War Bunkers and trenches built

1977

30 Year Mining Concession Granted to Tolsa Extraction of Spiolite

1980 - 2004

Highway Development

2007

Mining Concession Ends and a Lagoon Begins to Form

2015

Growth and Establishment of Ambroz Lagoon 156 bird species, 1,080 invertebrate species, and 449 plant taxa colonise the site

2018

San Blas District Board Protection Plan Approval for Ambroz Lagoon

2020

Metropolitan Forest Competition is Launched "Butterfly Effect" announced as the Winner for Lot 2 Development

2023

"New Centrality of the East" Project is Launched

2026

Raised Concerns of Ambroz Lagoon Being Under Threat by NCE

EL PAÍS50

Madrid

The Ambroz lagoons, the green lung east of Madrid, pits residents and environmentalists against the City Council over its conservation

The City Council plans to build the New Eastern Centrality neighborhood on the Ambroz lagoons, with more than 10,000 homes and a development ranging from 15 to 20 stories.

The Ambroz lagoons, a natural area of 1,000 hectares, are a green lung for the city of Madrid. It is a place where nature and urban development coexist. The City Council has decided to build the New Eastern Centrality neighborhood on the Ambroz lagoons, with more than 10,000 homes and a development ranging from 15 to 20 stories. This decision has sparked a fierce debate between residents and environmentalists who want to preserve the natural area and the City Council, who want to build the new neighborhood.

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