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Between A Kid And Nature

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Between A Kid And Nature

A Thesis Submitted to the Department of Architecture
Harvard University Graduate School of Design, by

Xiangyu Guo

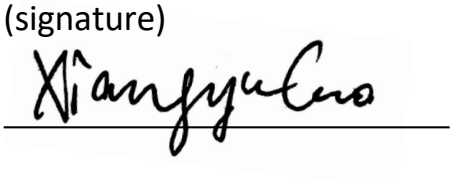
In Partial Fulfillment of the Requirements for the Degree of
[Masterof Architecture]

May 2021

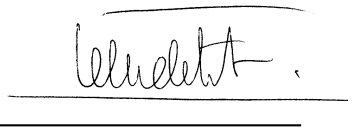
(Month and Year Thesis Submitted)

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(signature)



[Student Name]



[Thesis Advisor Name]
BELINDA TATO

Between A Kid And Nature

Xiangyu Guo | March1 | Harvard GSD | 2021

Harvard University
Graduate School of Design

Part1 Background

Crisis & Value

Crisis



Air Pollution



Water Scarcity



Loss of Habitat

Nature Education With Kids

"That is, in times of climate crisis, we need to explicitly educate children in both the ethics and practices of sustainability to promote a sustainable Earth[3]."

Ginsburg J L, Audley S. " You Don't Wanna Teach Little Kids about Climate Change": Beliefs and Barriers to Sustainability Education in Early Childhood[J]. International Journal of Early Childhood Environmental Education, 2020.

"nature-deficit disorder :the human costs of alienation from nature, among them: diminished use of the senses, attention difficulties, and higher rates of physical and emotional illnesses."

- <Last Child in the Woods > by Richard Louv

Part2 Methodology

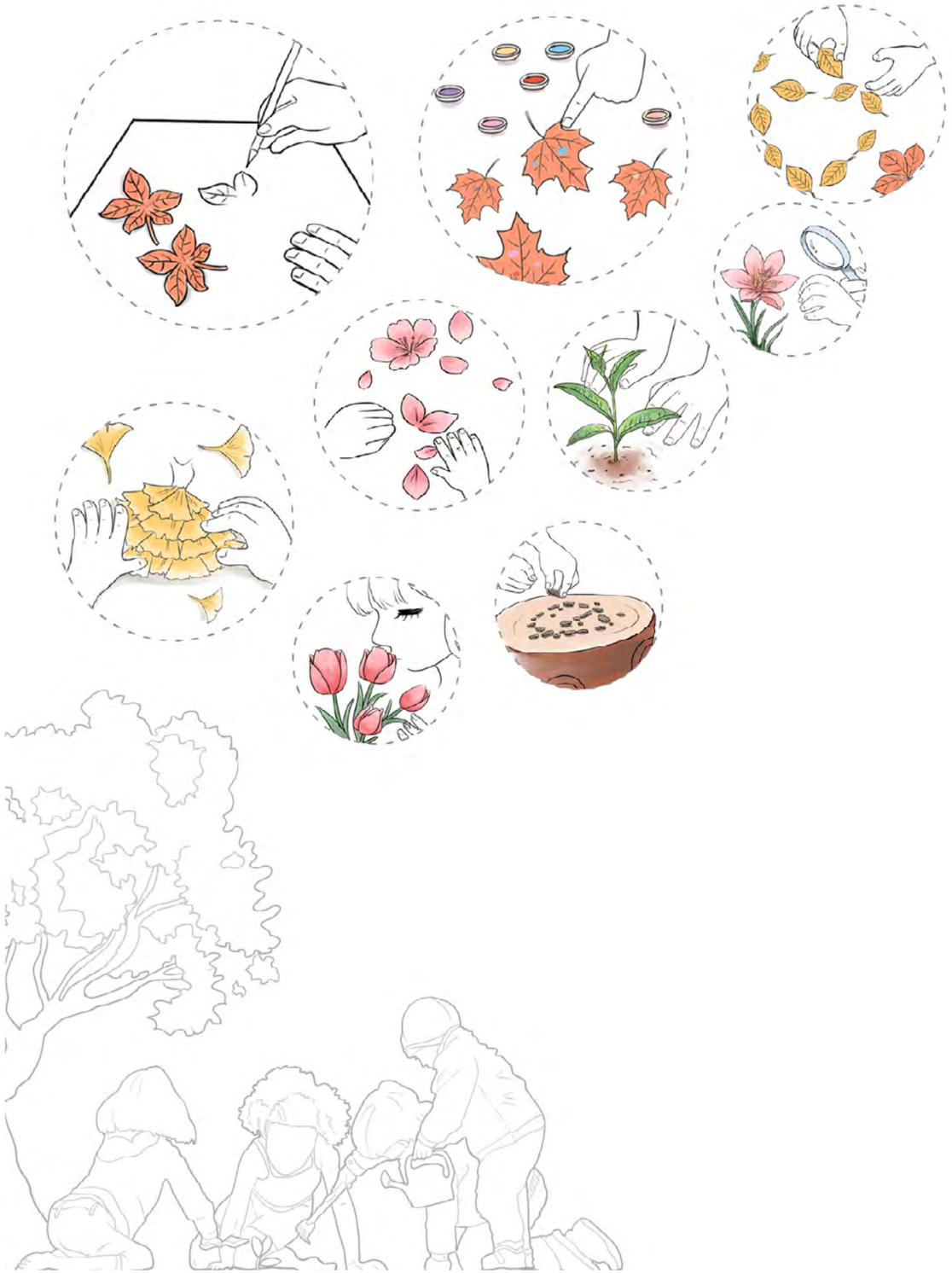
Pedagogical & Architectural

1. Pedagogy

What Does A Kid Learn?

	Montessori	Waldorf	Reggio
Origin & History	Italy, 1907	Germany, 1919	Italy, 1945
Theoretical basis	Psychoembryology	Anthroposophy	Construct Psychology
Core idea	Child Centered	Original, Spirit, Harmony	Connection
Educational goals	Independence	Harmonious Development	Initiative, Creativity
Educational methods	Mixed-age teaching Dedicated teaching aids	Imagination Play	Project Art
Course characteristics	Natural sciences	Hand made	Teach by learning
Course analysis	Perfect system, existing theory Emphasize mental development Mixed-age teaching	Focus on hands-on ability Integrate education and life Natural	Potential development Interaction Coorperation

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Plants



Plants

Animals





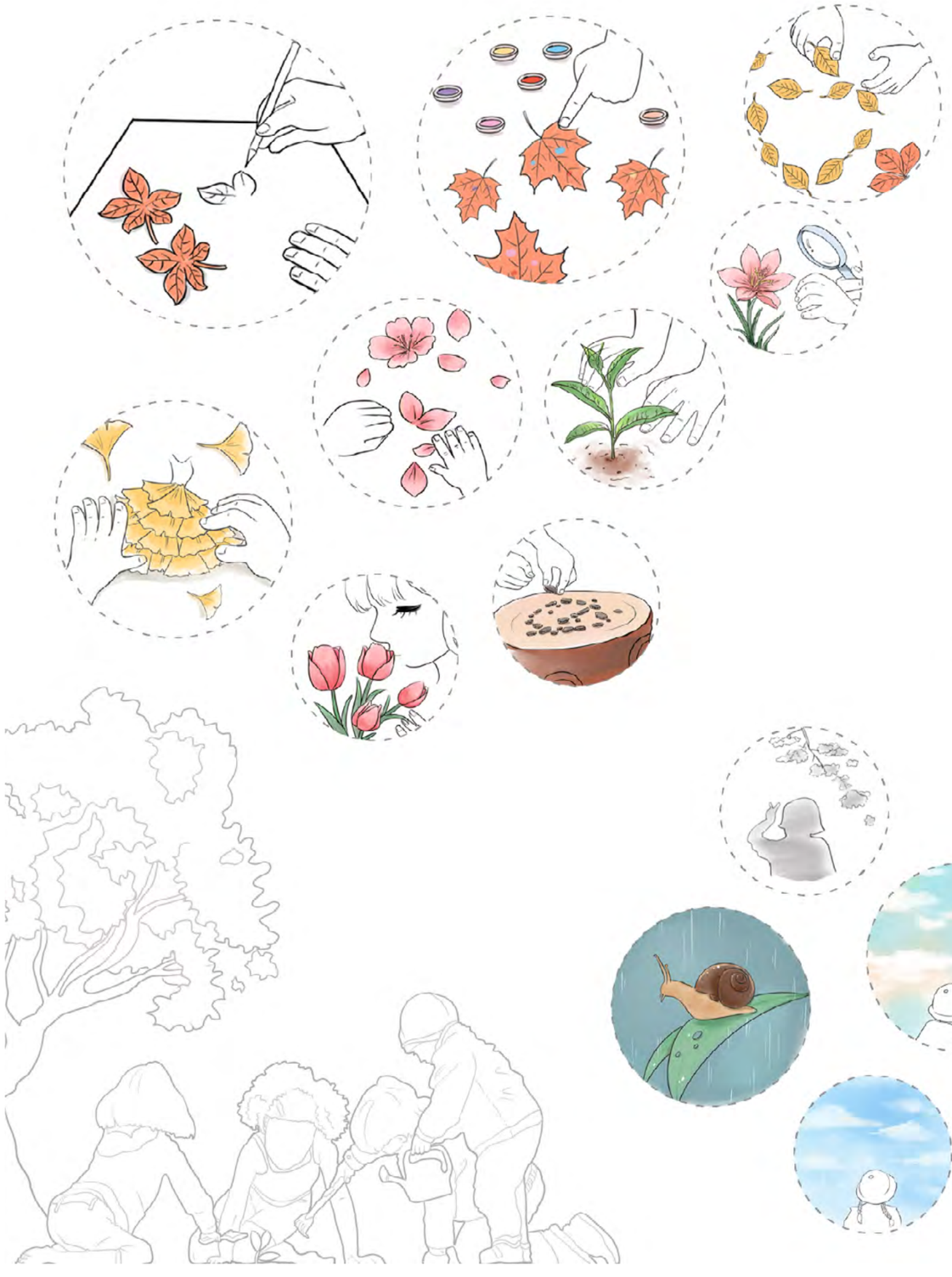




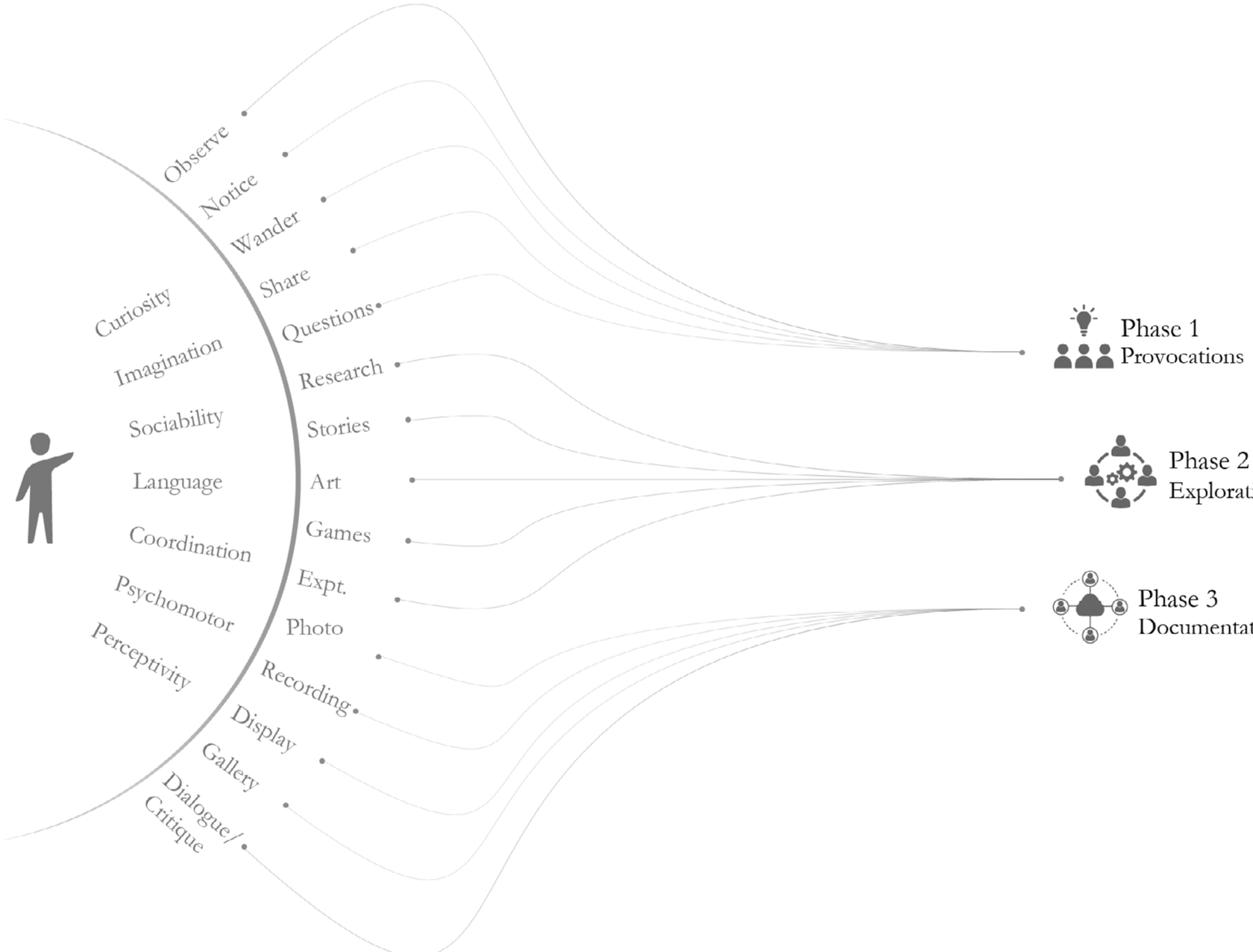
Plants

Animals

Natural Elements



How Does A Kid Learn?





Notice



Play with shadow



Wander



Indoor puppetry



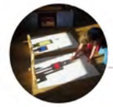
Create shadow



Artworks



Observe



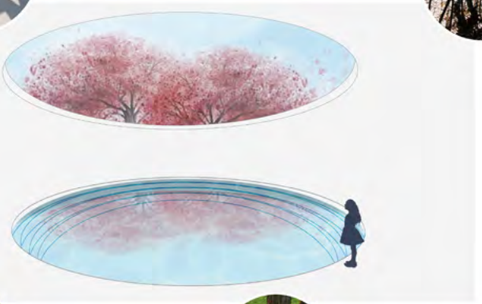
Draw shadow



Collect plant

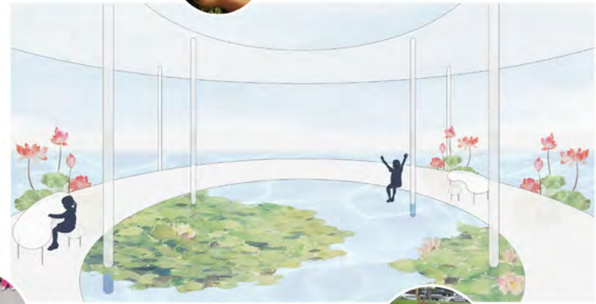


Play with animals







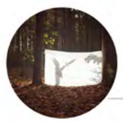




Wander



Artworks



Outdoor puppetry



Play with shadow



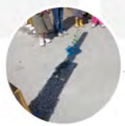
Create shadow



Grow plant



Observe plants



Shadow sculpturing



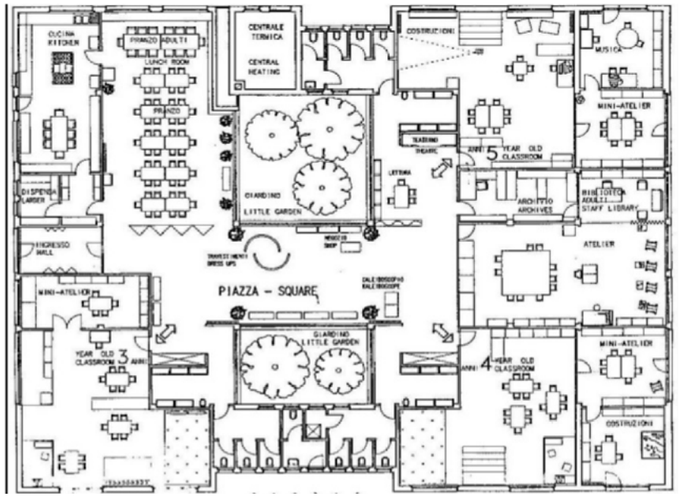
Picnic



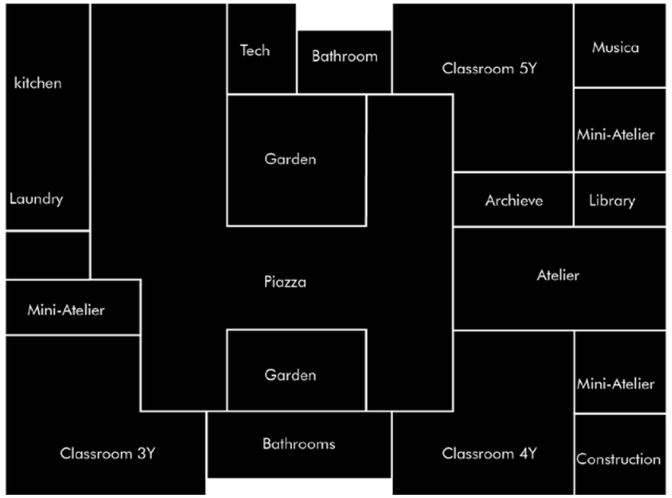
Draw gardens

2. Architecture

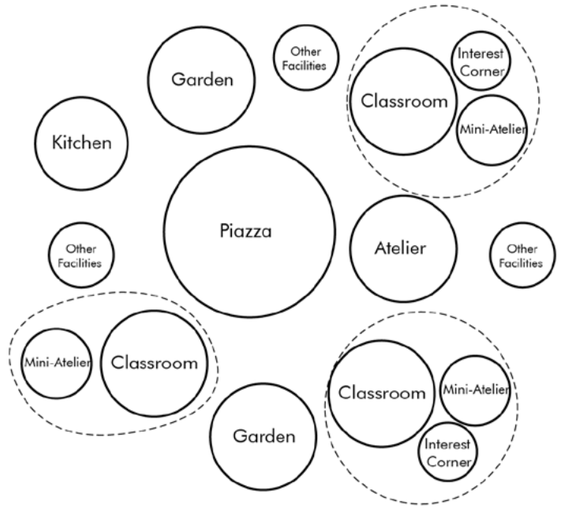
Reggio-Inspired Project-Based Space Design



A Classical Reggio Kindergarten



Diagram



Spatial Organization

Project-Based Space_Atelier



Shape Of Clay Atelier



Secrets of Plants Atelier



Ray Of Light Atelier





Fuji Kindergarten, Takaharu Tezuka



" I thought if we could place frames among the landscape, it would help to focus the mind on to what is inside that frame: many people look but only a few see and feel its very soul ".

-- British artist Ashley Jackson

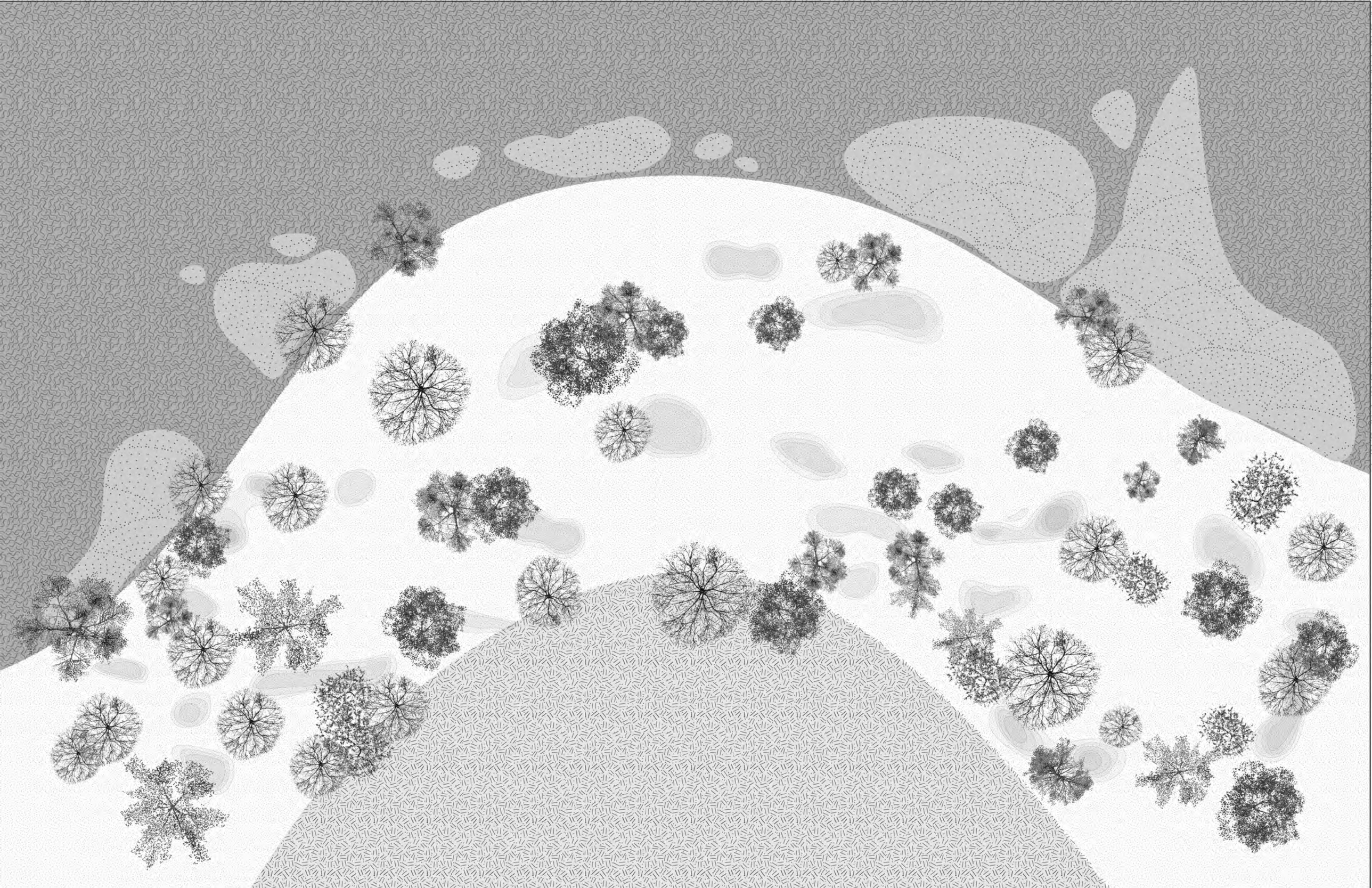
Part3 Project

Experiments & Design

Site

Dapochi, Chishang, Taiwan





Experiment

Drawings & Models

Architecture is a lens through which kids observe and interact with nature, enlarging the subtle, strengthening the ephemeral, and capturing the fleeting moments and very detail.

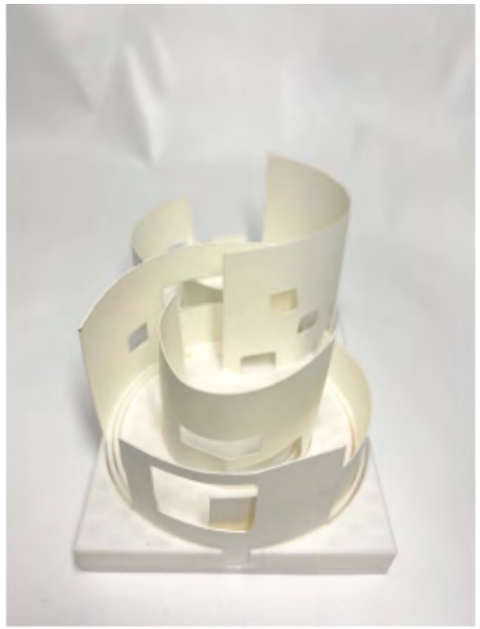
Conceptural Drawing







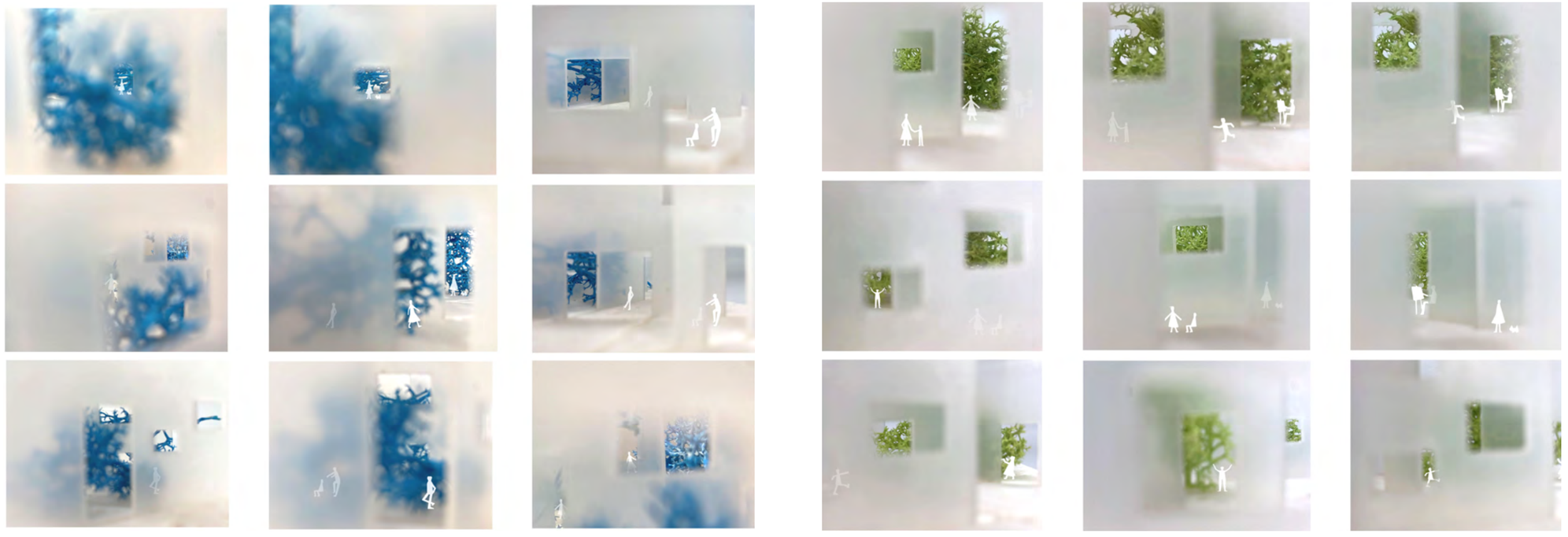
Models





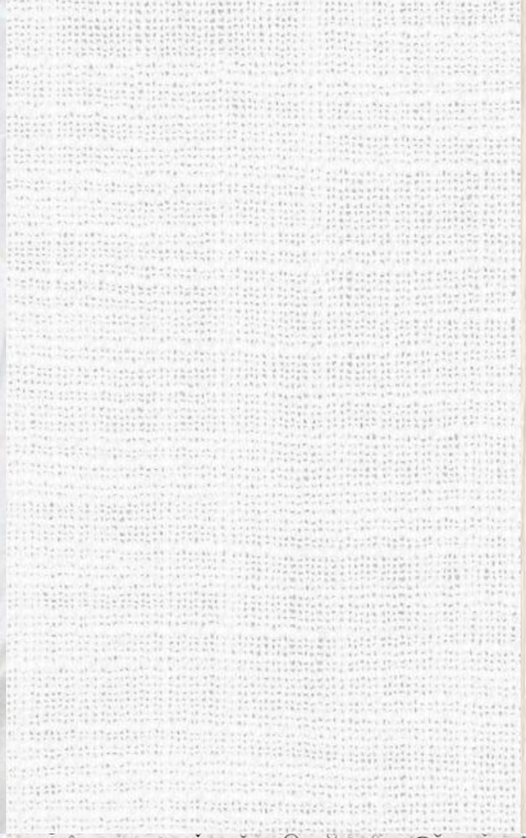


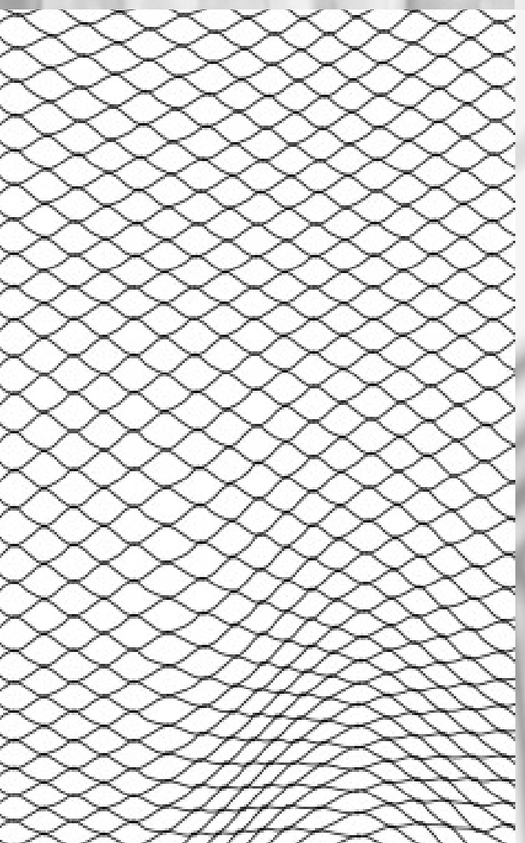



Tactile Sensation



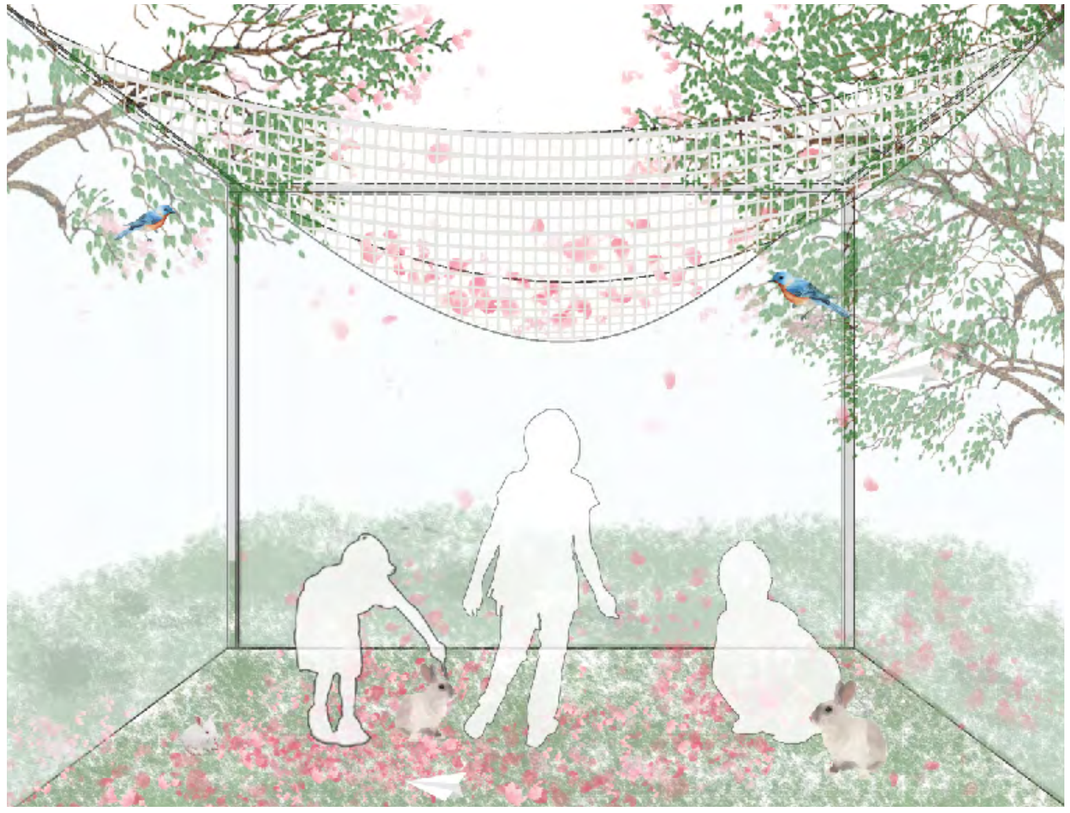









Drawings



Flower Picker



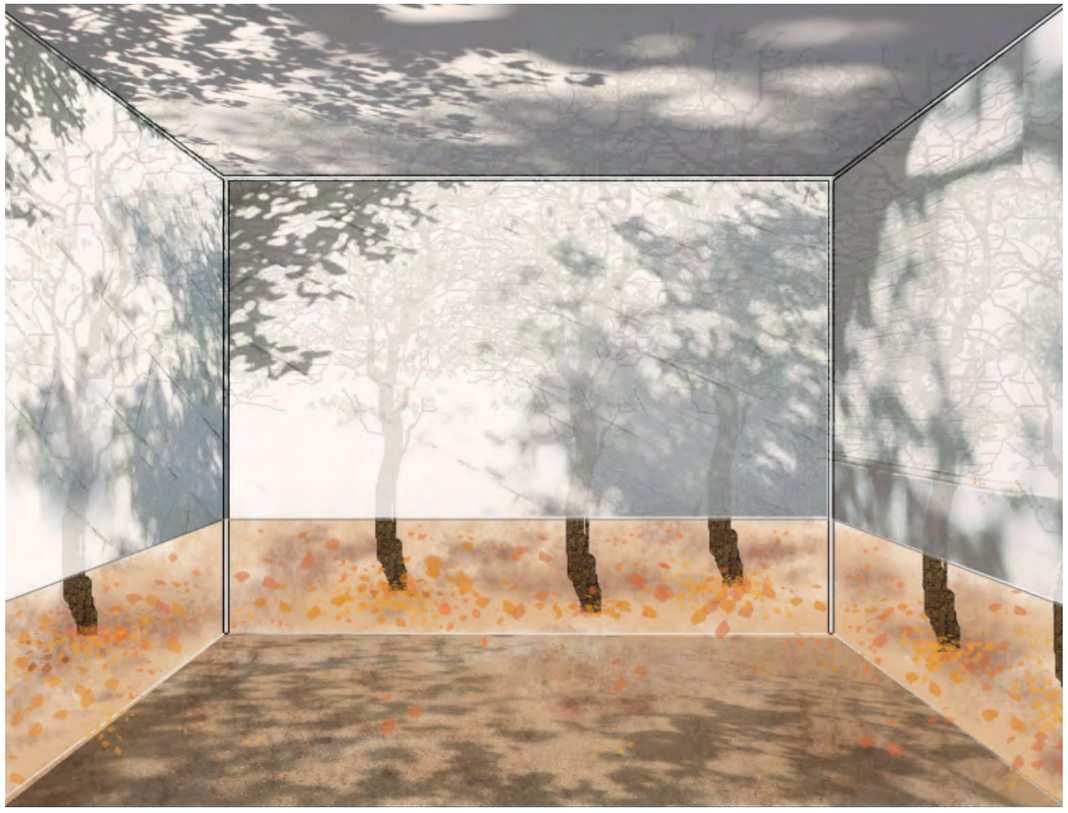
Wind Rambler



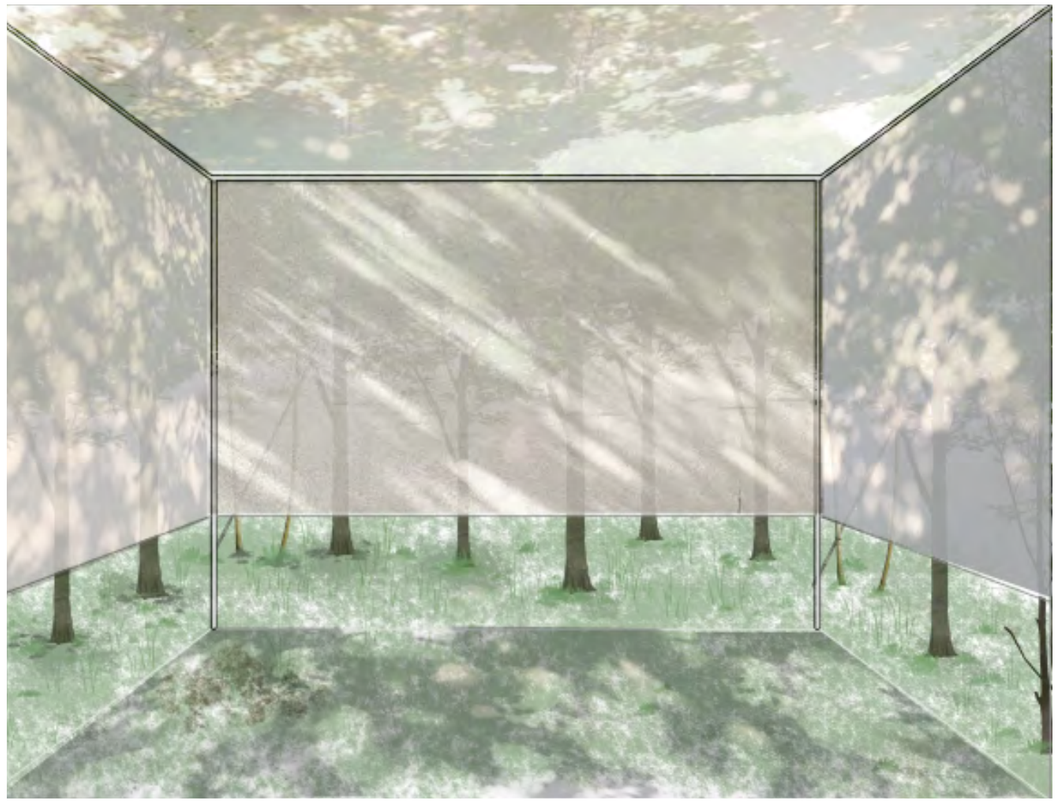
Sky Mirror



Rain Capture



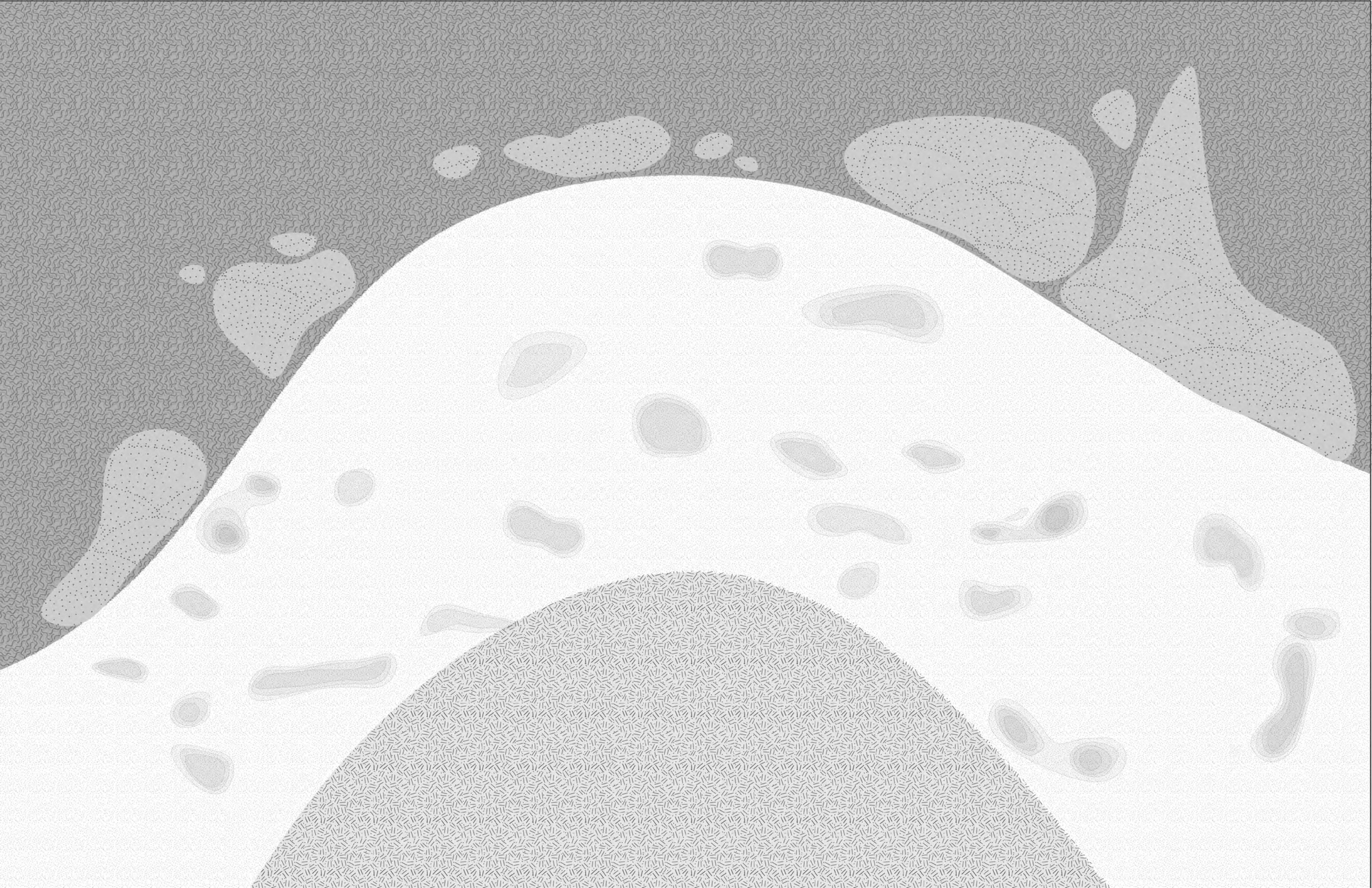
Shadow Capture

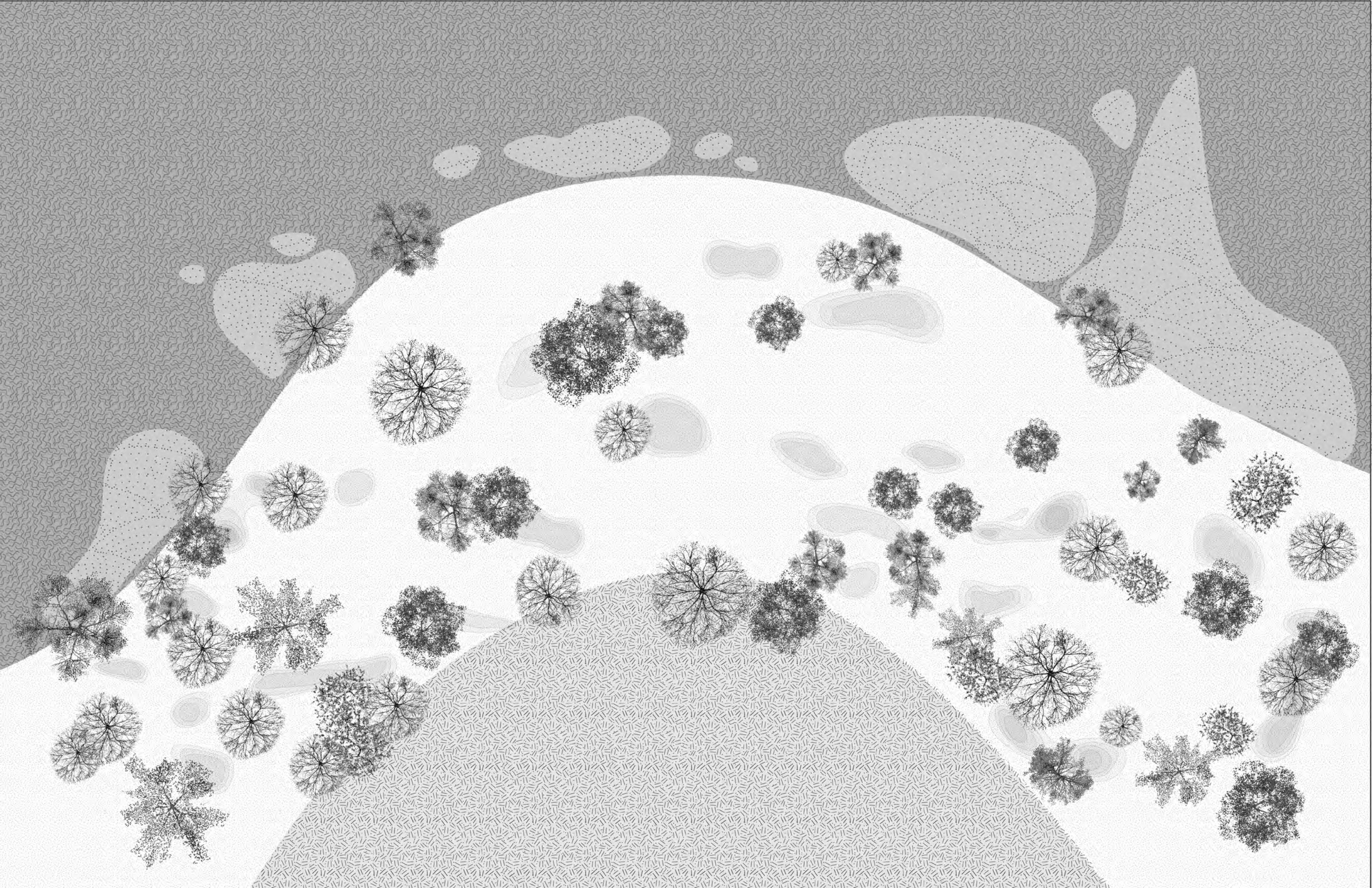


Shadow Capture

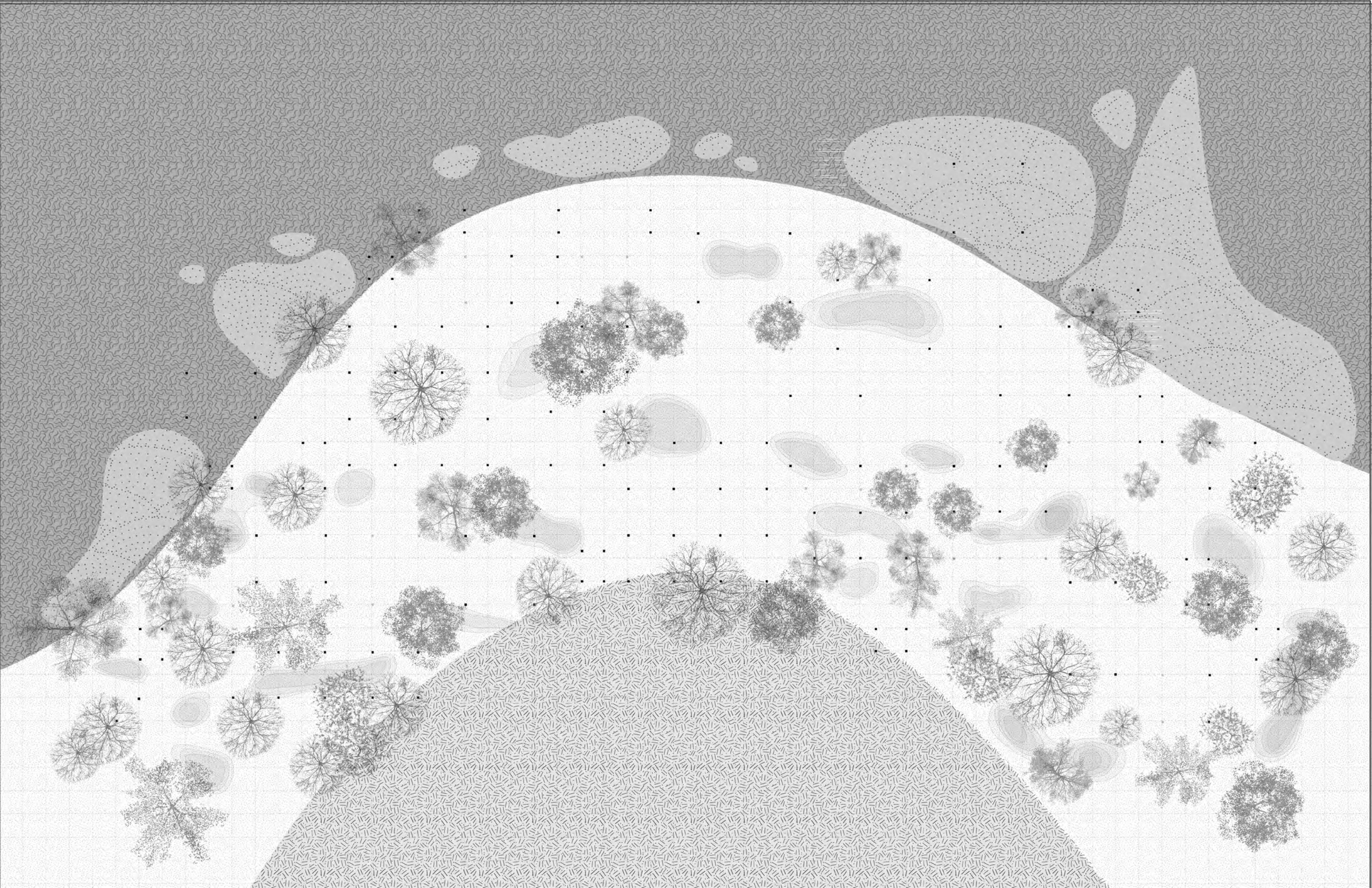
Design

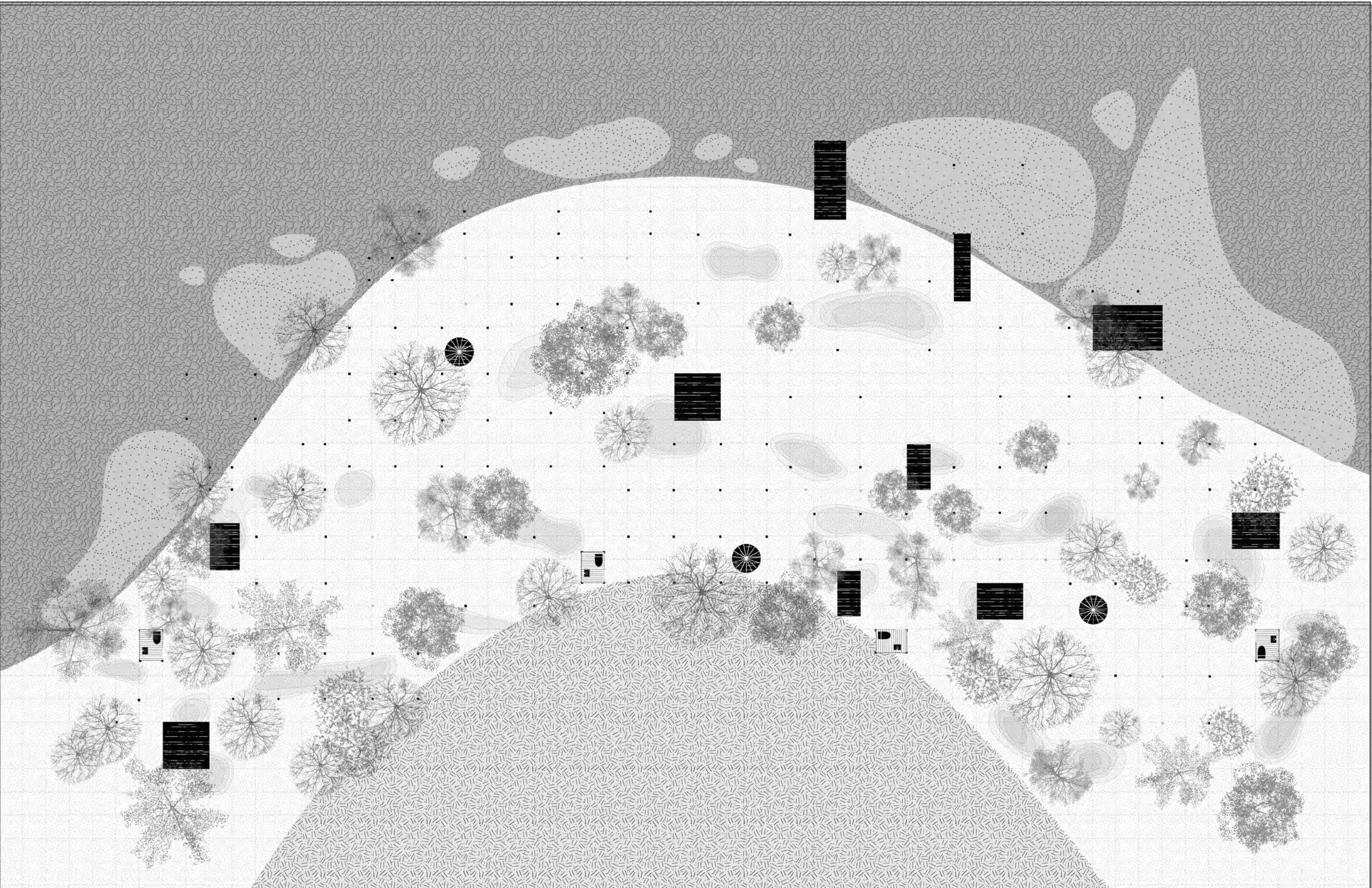
A Serious Of Mini Plug-in Within&Capturing Nature

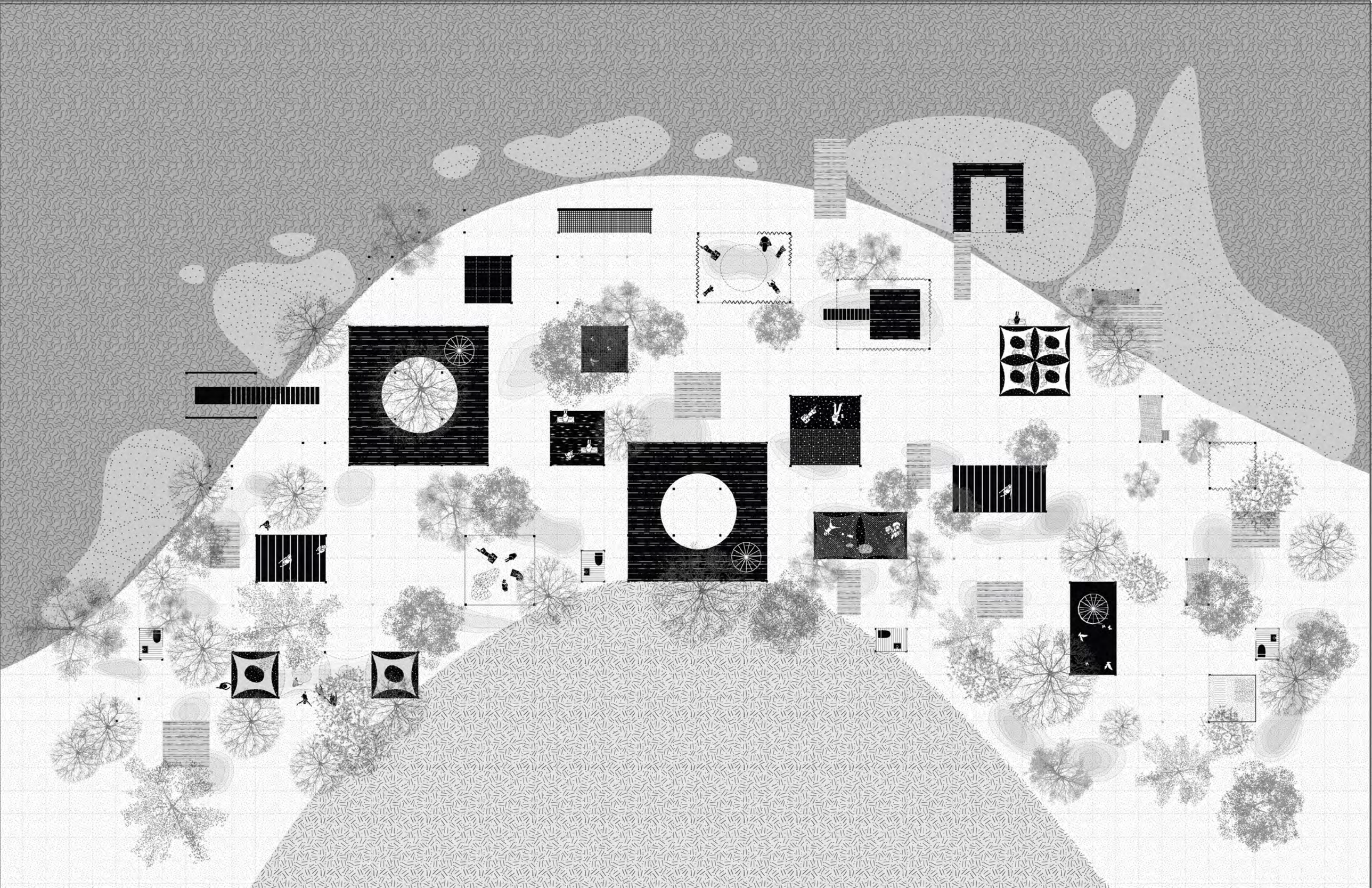


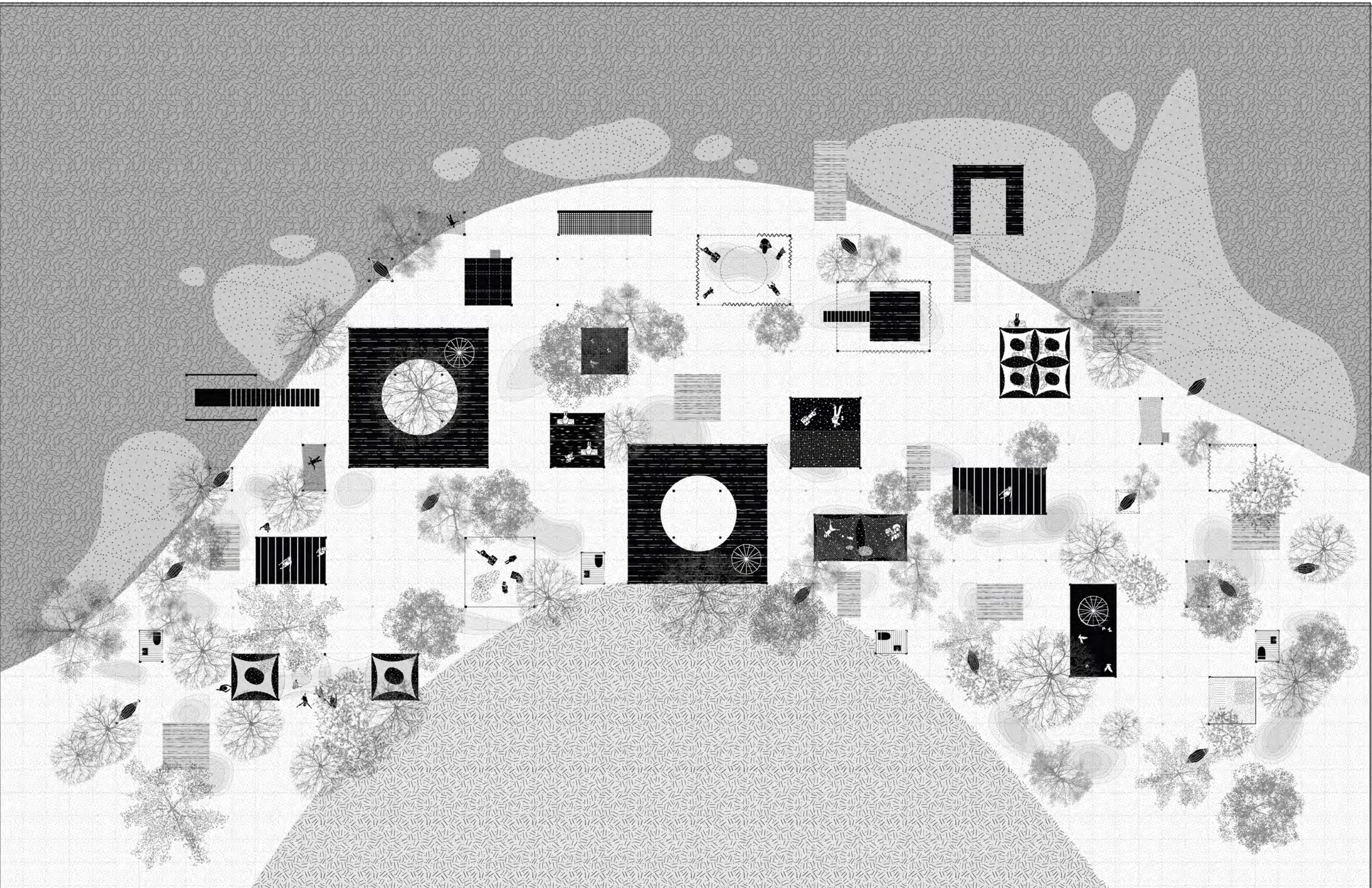


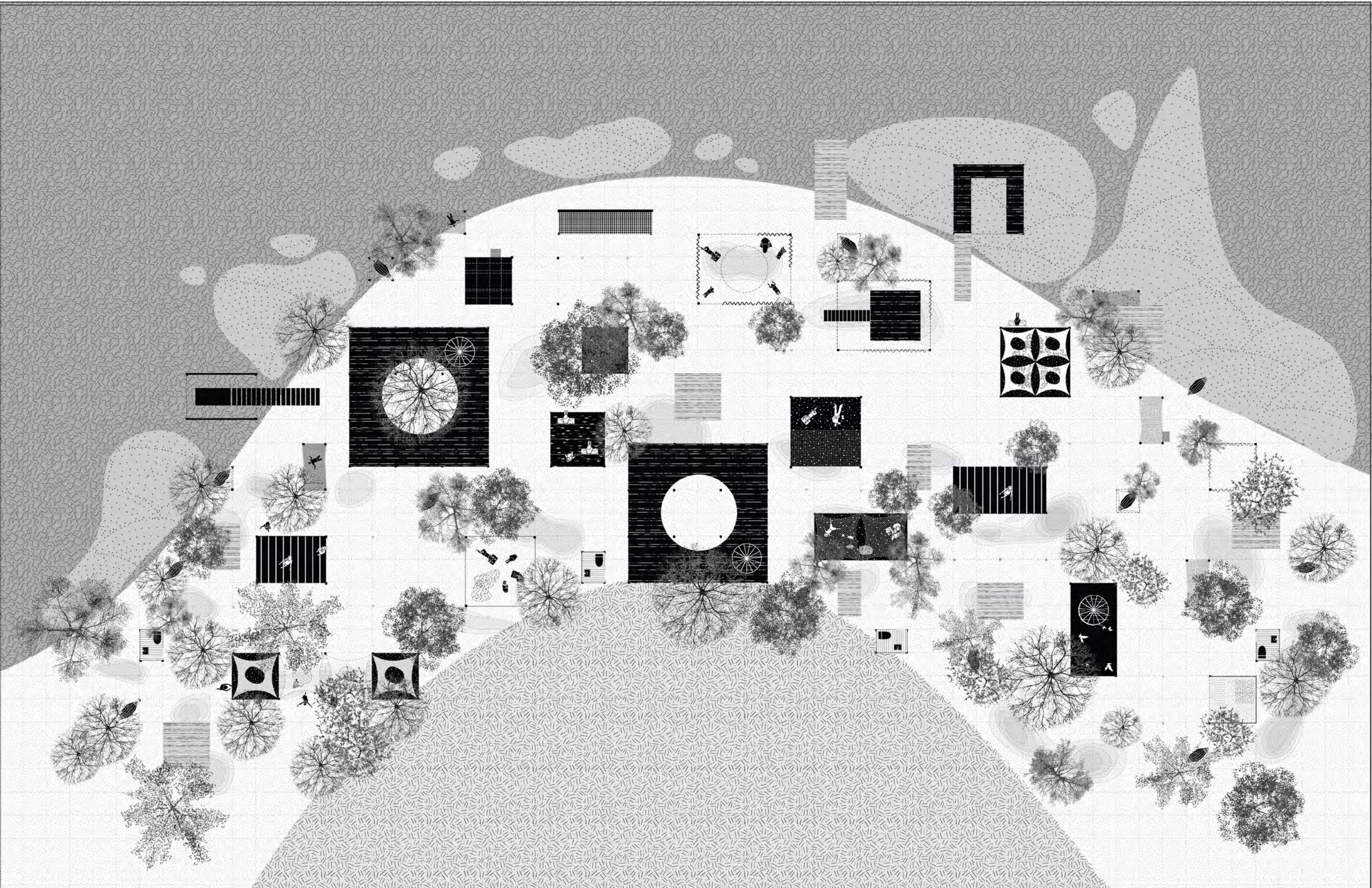
Water cockroach
Pheasant
Ixobrychus sinensis
Sea gull
Sika deer
Swallow
Lion Head
Gallicrex cinerea
Sea gull
Kingfisher
Ixobrychus cinnamomeus
Ardeola bacchus
Nightingale
Butorides striata
Amathusiidae
Amathusiidae
Pieridae
Pieridae
Ardea cinerea
Lion Head
Hotot
Gallinula chloropus
Butorides striata
Hotot
Nightingale
Bee
Pieridae
Bee
Pieridae
Ardea purpurea
Pieridae
Pieridae
Swallow
Kingfisher
Lion Head
Hotot
Goose
Coalfish
Mallard
Goose
Albatross
Kingfisher
Dory
Albatross
Gambusia affinis
Gambusia affinis
Bluefish
Lemonfish







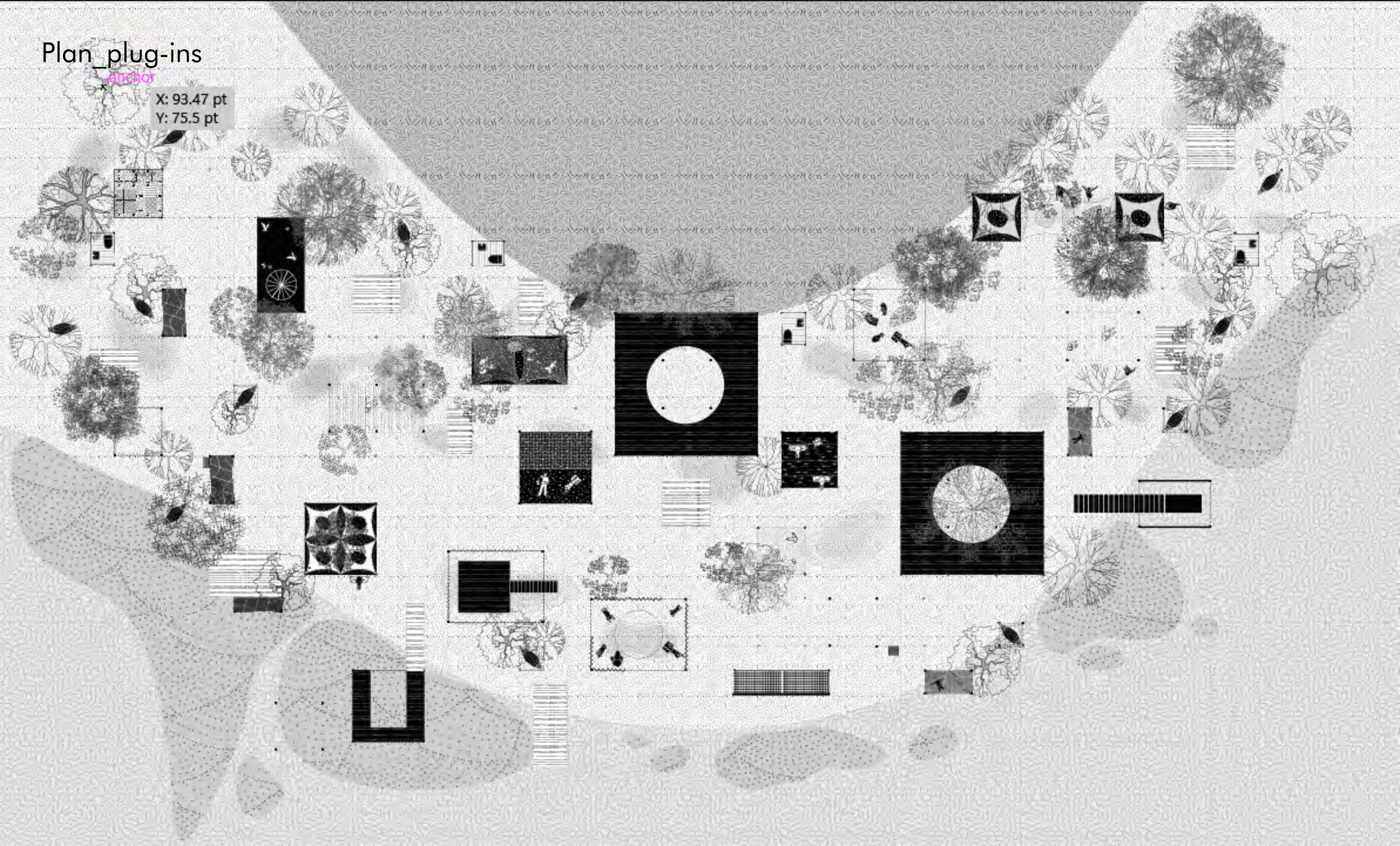


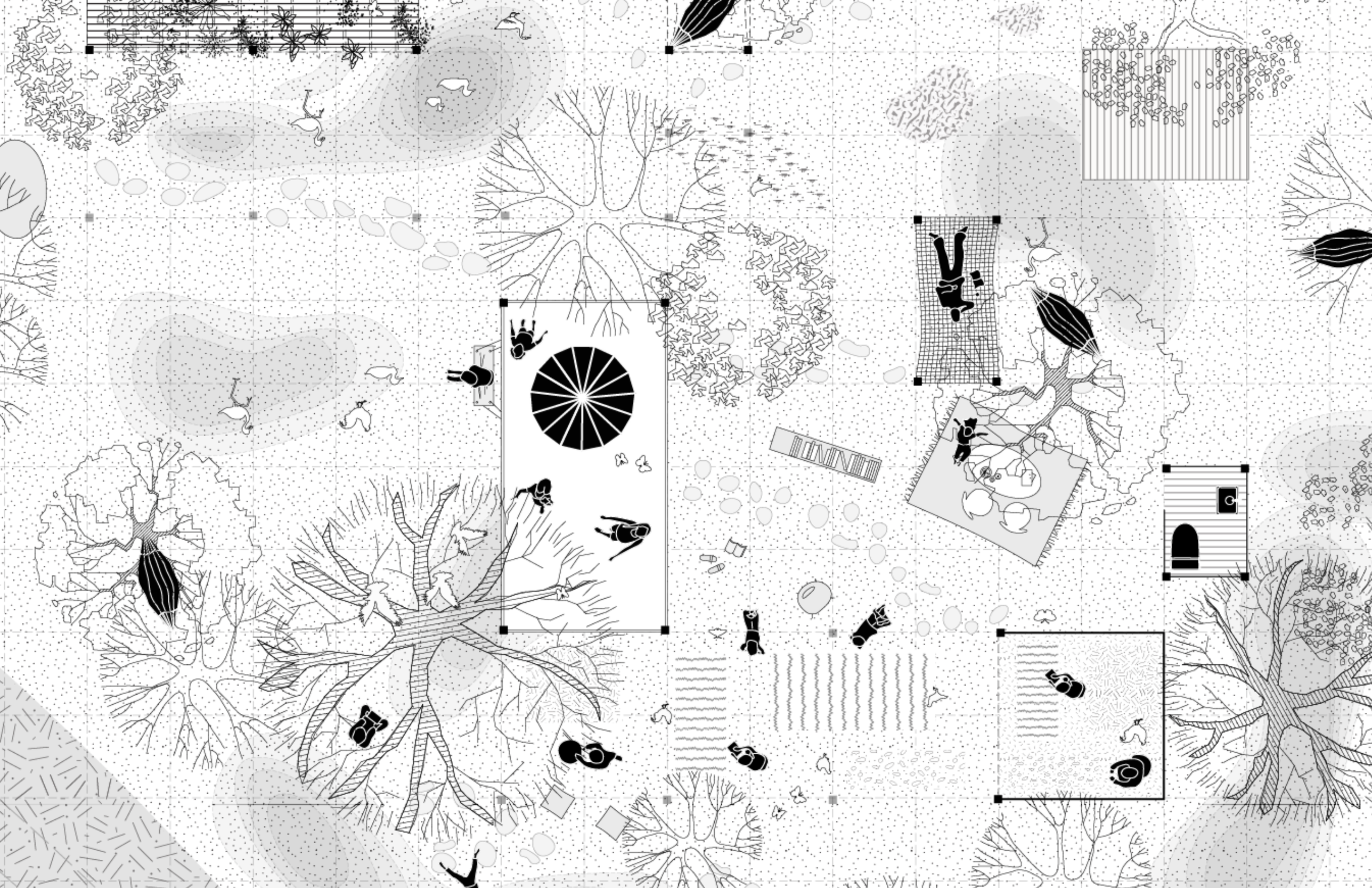


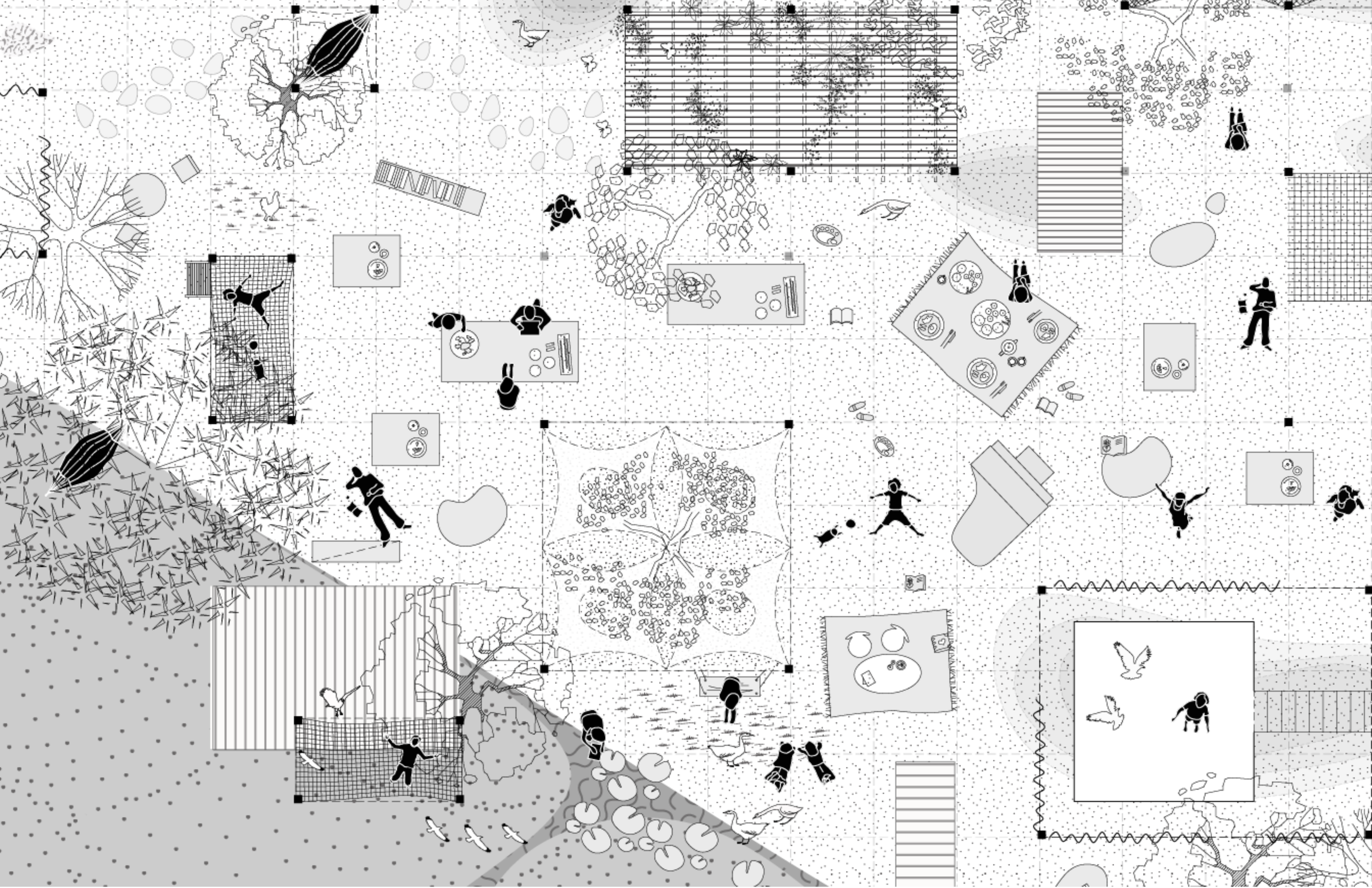
Plan_plug-ins

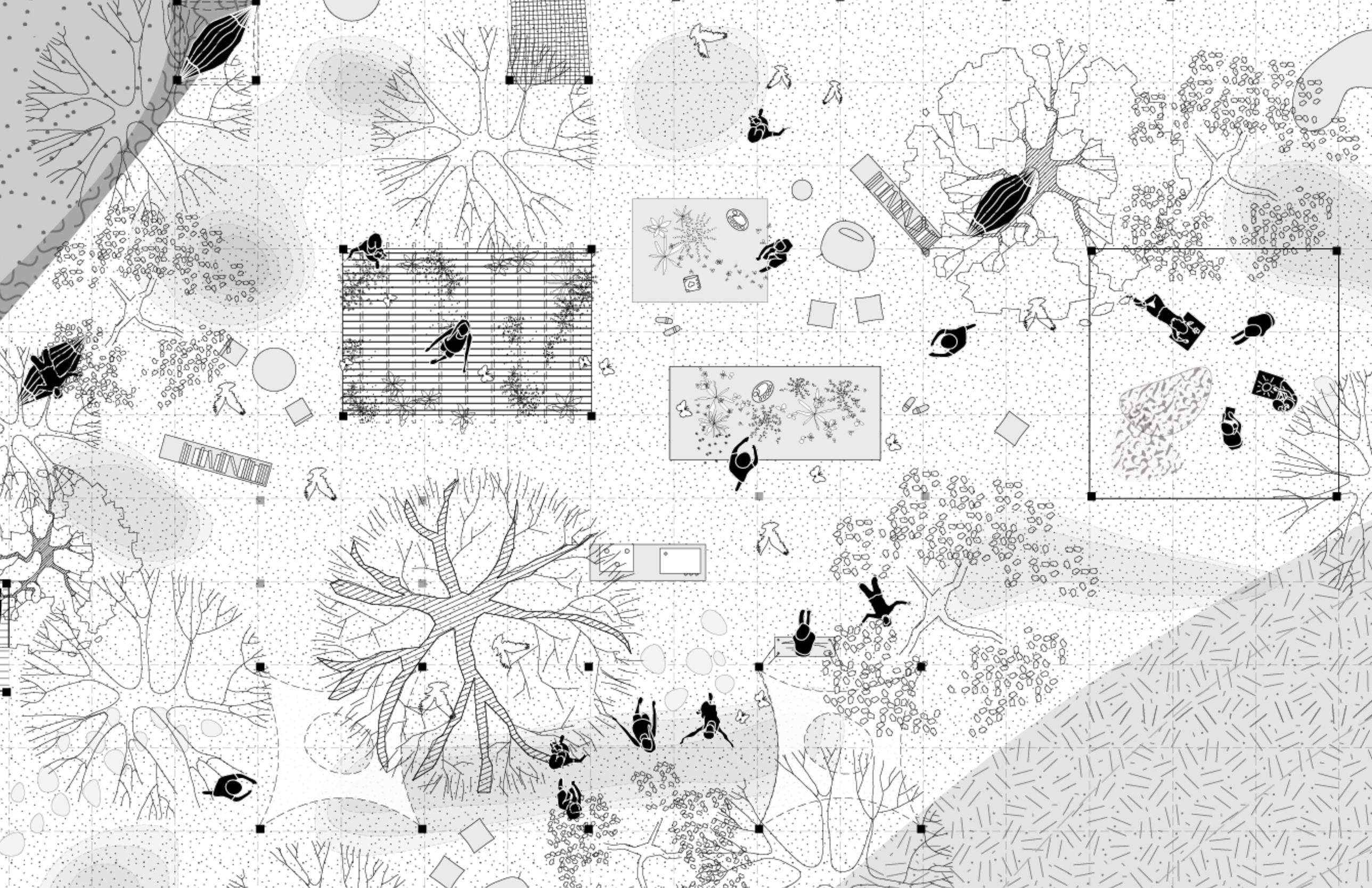
anchor

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Y: 75.5 pt

















Welcome To Our Mini-World

A series of mini plug-in in nature

“Giving people a small ” ! ” moment.

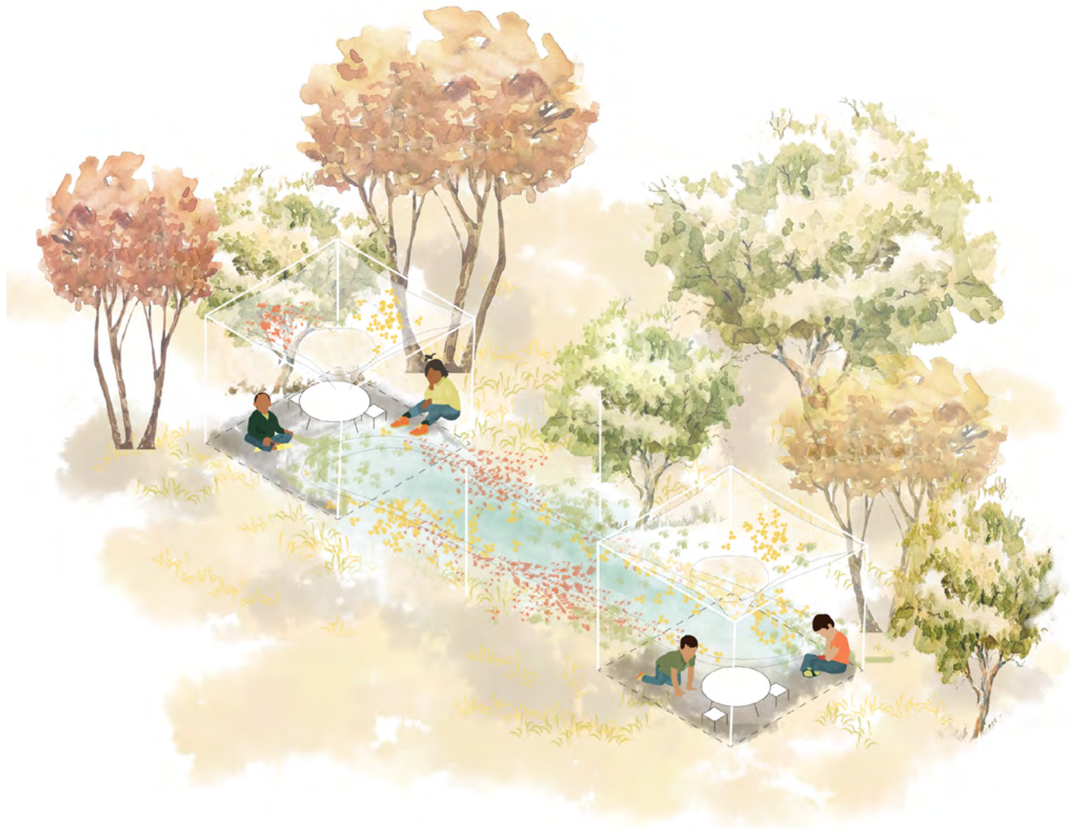
There are so many small ” ! ” moments hidden in our everyday.
But we don’t recognize them.

And even when we do recognize them, we tend to unconsciously reset our minds and forget what we’ve seen.”

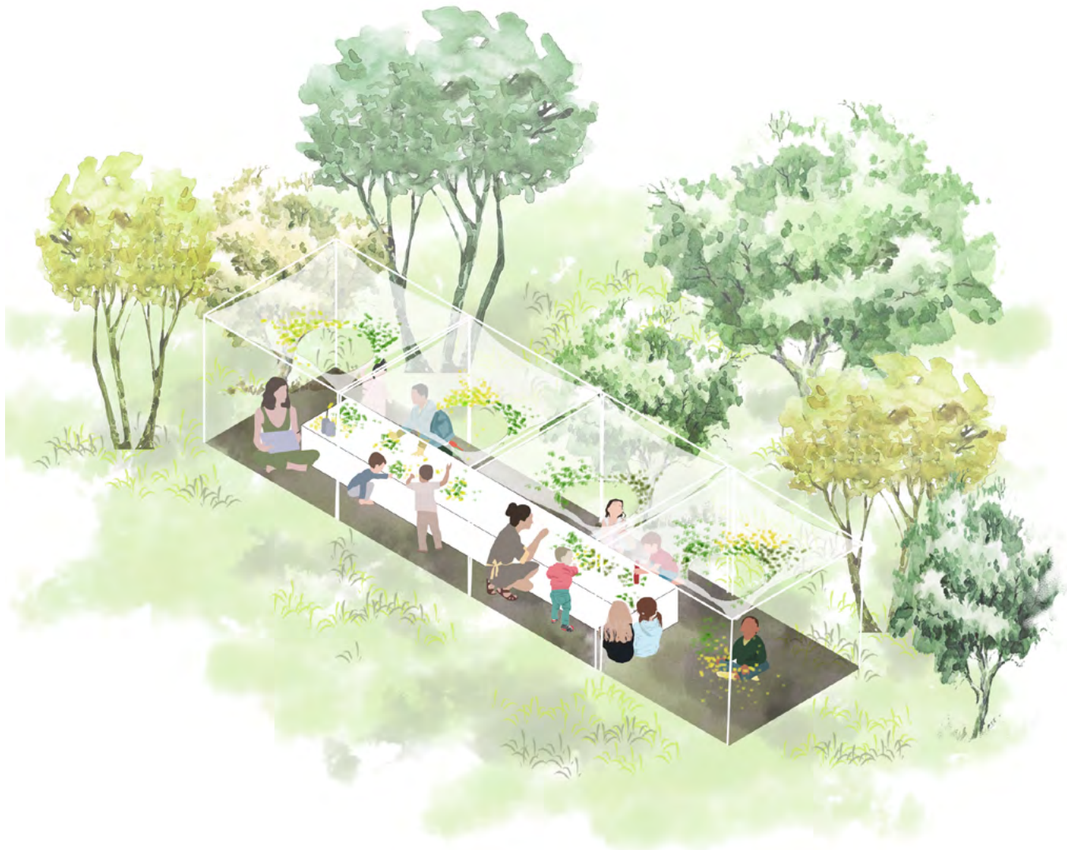
-- Nendo



Tree’s Story_Flower Picker



Tree's Story_Seed Picker



Tree's Story_Leaves' Secret



Shadow Capture



Shadow Capture



Tide Walker



Lotus Mirror



Bird Observer



Mini Web



Sky Capture



Wind Rambler



Fog Theater



Day Dreamer



Flower Party



We Love Nature!

Gallery



Wind Rambler



Sky Catcher



Tide Walker



Shadow Capture_Tree



Shadow Capture_Lotus



Bird Observer



Mini Web



Tree's Story_Flower Picker



Tree's Story_Seed Season



Tree's Story_Leaves' Secret



Sky Mirror



Tree's Story_Flower Picker



Flower Party



Fog Theater



Day Dreamer

Perspectives



Day Dreamer



Bird Observer



Tide Walker

I always believe that, deep in everyone's heart, there's living a kid, curious about the surrounding world all the time, always discovering small moments in life, and caring for the nature with love.

-- Xiangyu

Thanks!