

*Landscape Architecture Portfolio*

# LIU SIYAO

*Student ID: 1025244*

2019

2021



Previous qualification: University of Melbourne

Year completed: 2021



LIU SIYAO

刘思瑶

## PROFILE

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Gender Female Phone +86 18033199873

Language Chinese/English/ Cantonese

## SKILLS

### Softwares

Photoshop	██████
Illustrator	██████
InDesign	██████
Rhinoceros	██████
3DS Max	██████
Vray	██████
Enscape	██████

### Model Making

3D Printing	██████
Lazercut	██████
Hand making	██████

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# Uncontrolled Space

Carlton, Melbourne

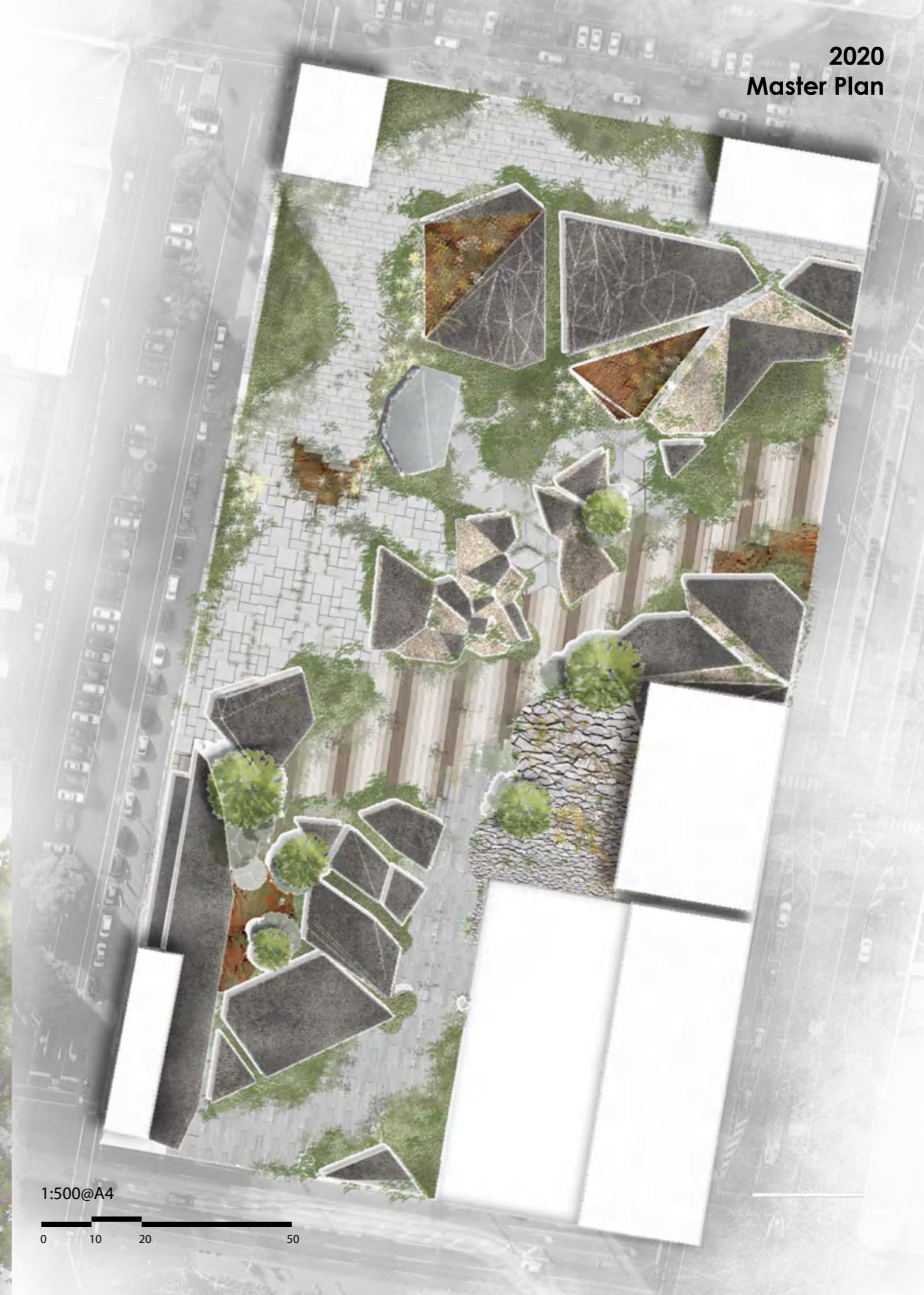
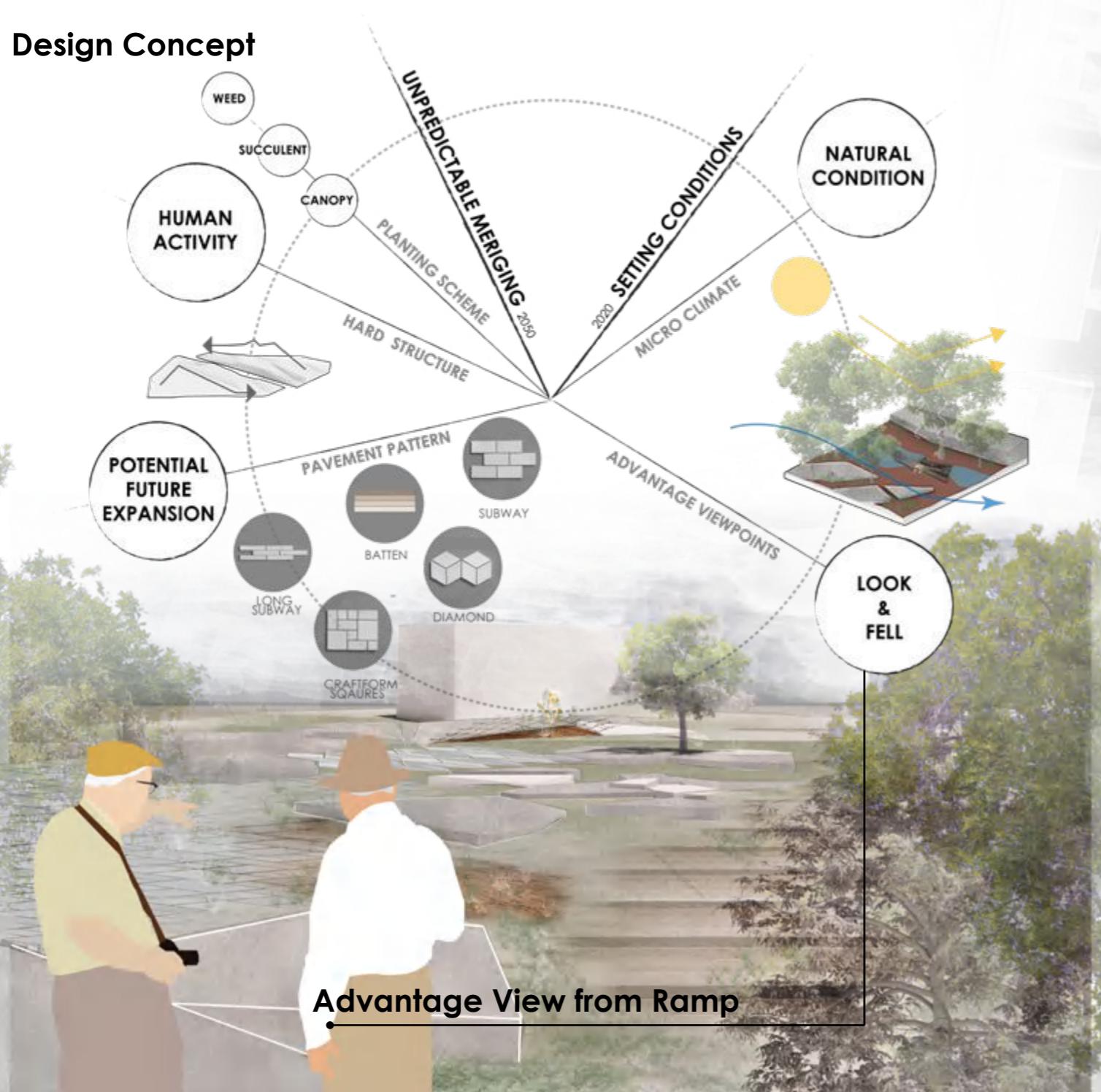
Individual Project | Nov 2020 Type: The Third Landscape

Subject: Landscape studio 4: Designed Ecologies

Tutor: Fiona Johnson <fionaj@unimelb.edu.au>

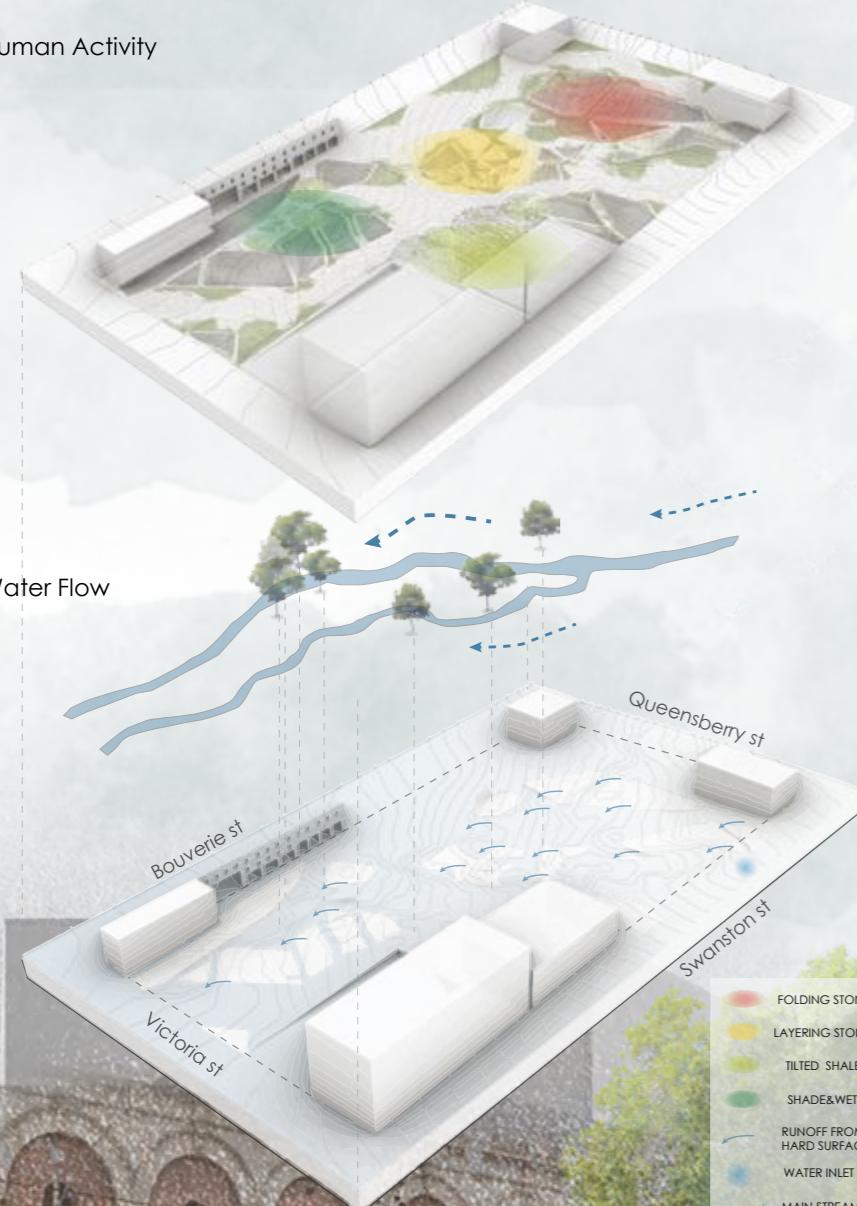
The main and final design site for this studio will be a city block currently under development. And we turned back the clock to 2013 and assume that it was designated a park before the most recent apartment blocks being built. The design intent was enriched by the different context: **Heritage wall and buildings:** enhance the definition of uncontrolled space--a demolition site -- a reflection of time (the most uncontrollable thing) **Urban context:** moving more into the city, reminds me of the urban weeds--- other active uncontrolled elements. **“Uncontrolled” experience:** forming an opposite sense of space for visitors by offering width/creating an advantage viewpoint. **“Uncontrolled” appearance:** setting conditions and see what could be changed by the nature--- landform/water/soil/ plants/weather

## Design Concept



## Exploded Diagram

Human Activity



## Human Activity

Interaction



Activity



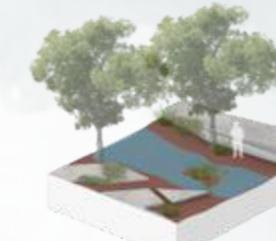
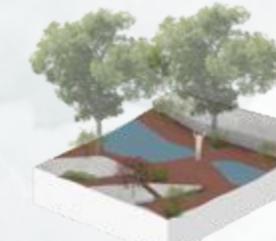
Relaxation



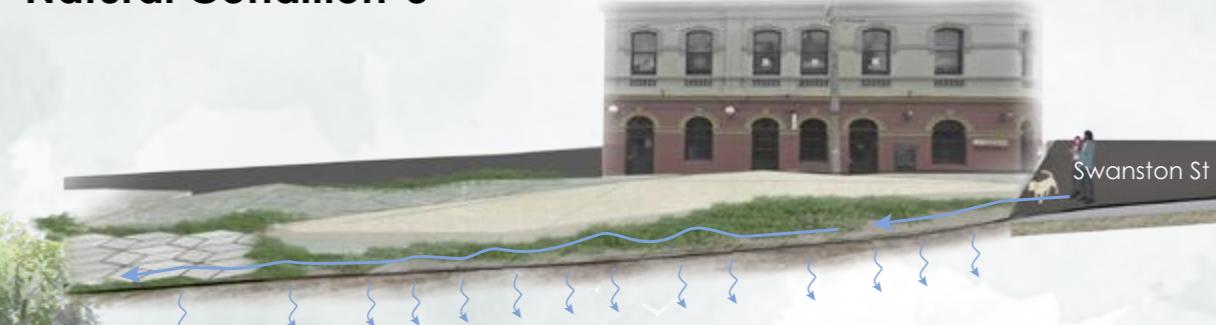
Stroll



## Natural Condition-1

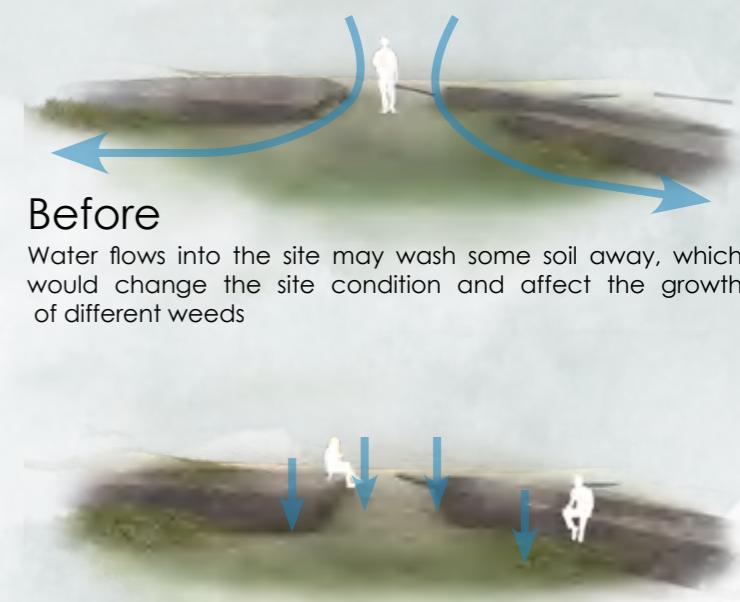


## Natural Condition-3



Site Catchment Maximum Storage Volume = 1713.74 cubic meter  
 Site Catchment Area = 5476.24 square meter  
 Recorded Highest Rainfall = 239.7 mm  
 Site Catchment Rainfall Volume = 1312.65 cubic meter  
 Runoff Water Volume From Swanston St = 481.4 cubic meter

## Natural Condition-2



## After

Bluestone would be revealed more, the height change of the structure could also change the way of occupation

Bluestone slope structures with cuts provide visitors with a different extent space experience. The hidden spot contrast with the wide-open experience at other areas of the site, allow visitors to have more choices of occupation.

## Advantage Viewpoint from Cutting Slopes

## Undersoil Plan

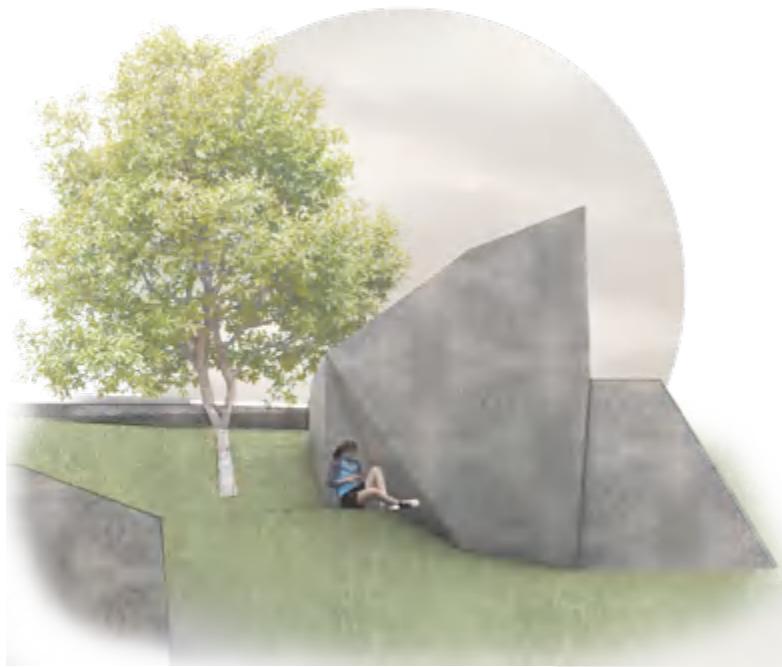
### 1 Activity

Polygon bluestone fragments formed stage allow visitors have wide unchanged activity space. Visitors would not need to worry if the expansion of weeds would affect the human experience in the site.



### 2 Rest & Appreciate

Tilted bluestones can be utilized as seatings with different heights, and forming both the communal space and private individual spaces. The half enclosure arrangement enables people to sit and appreciate the views around them.



### 4 Exposed

Parametric tilted stone tiles enable succulent plants to have enough space for their growing and expansion, which would contribute to the dramatic site development. When succulent plants grow and work with stones, the sense of squeeze and escaping can be built.



### 3 Hide

Bluestone ramp with cuts provide visitors with a different extent space experience. The hidden spot contrast with the wide-open experience at other areas of the site, allow visitors to have more choices of occupation.



## Potential Weed Expansion



## 2050 Master Plan



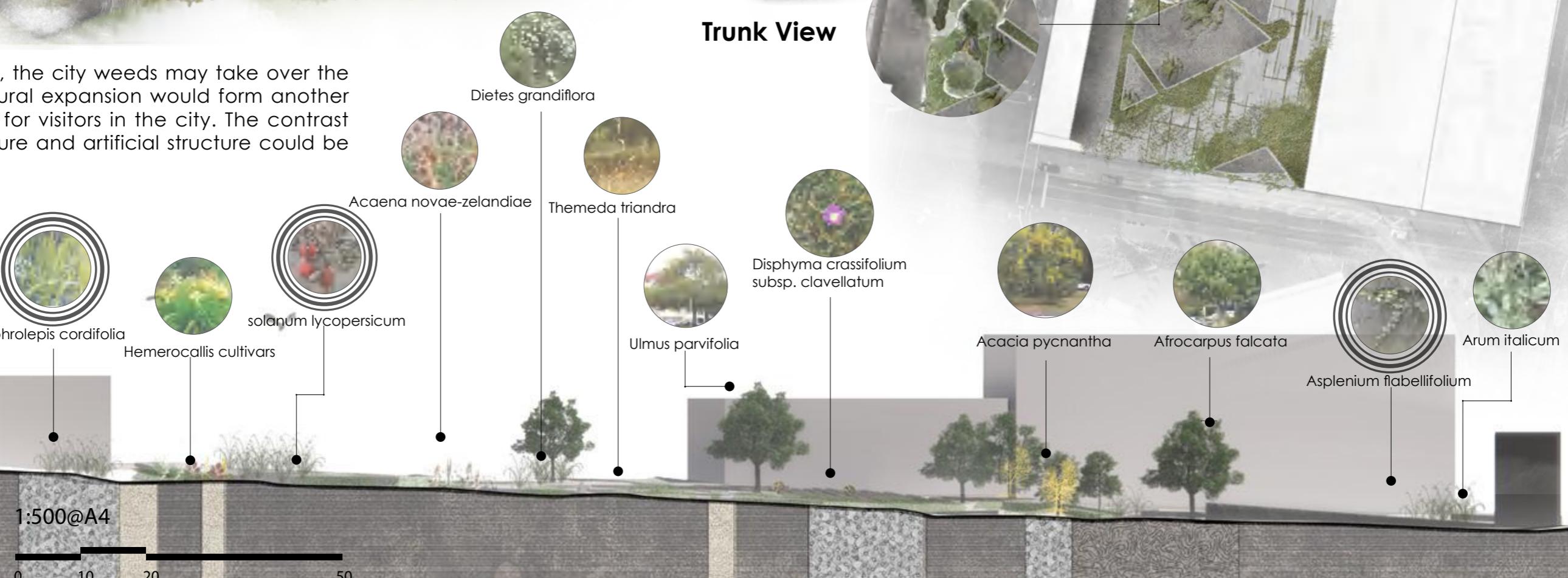
After a few years, the city weeds may take over the site, and the natural expansion would form another types of scenery for visitors in the city. The contrast between the nature and artificial structure could be created.

### Legend

- loam
- Gravel
- Sand
- Humus

## Soil Section

1:500@A4



# For Both Day&Night

The Galada Avenue, Melbourne

Individual Project | July 2019 Type: Urban Park

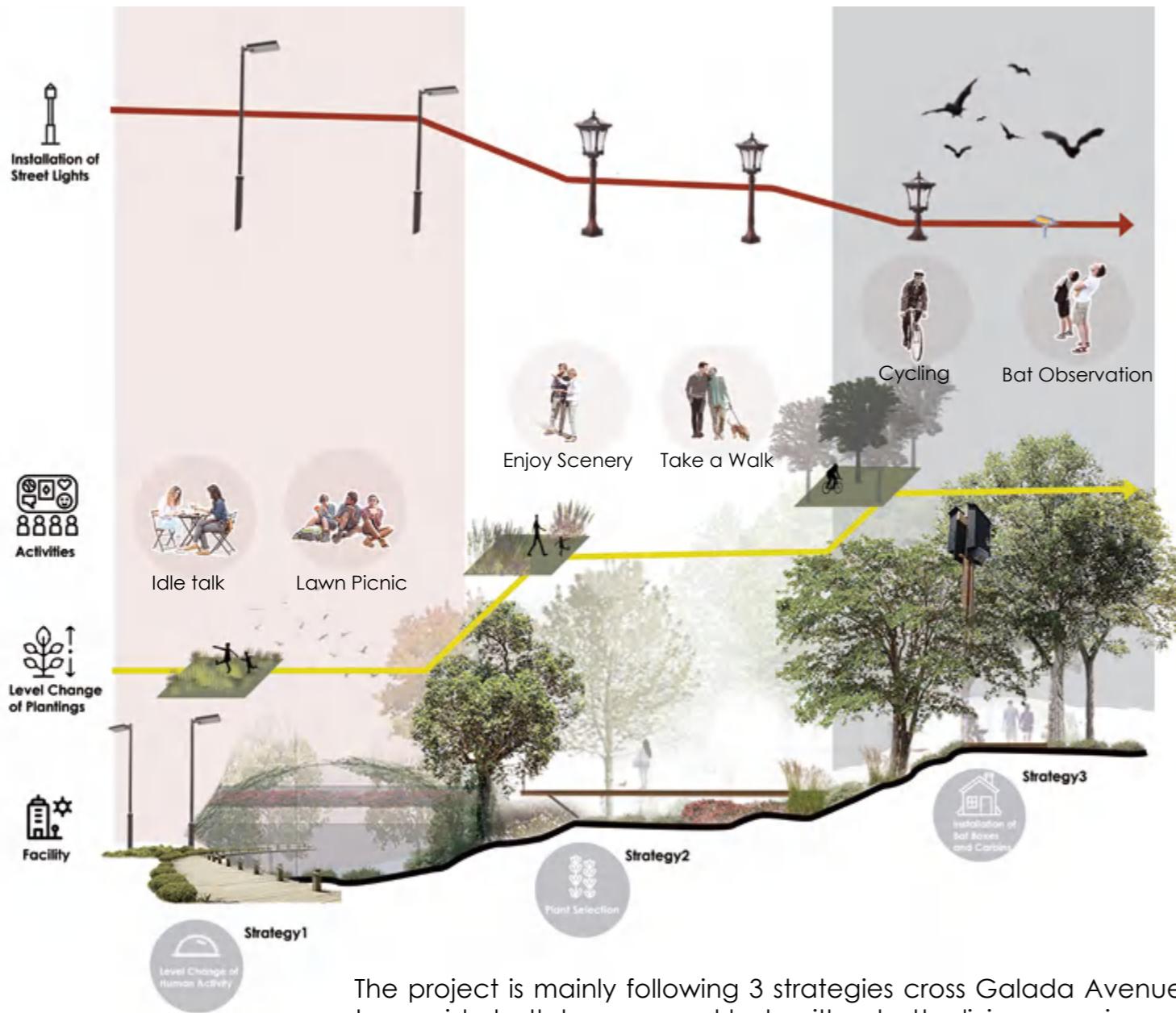
Subject: Design Living System

Tutor: Sam Downing <sam.downing@unimelb.edu.au>

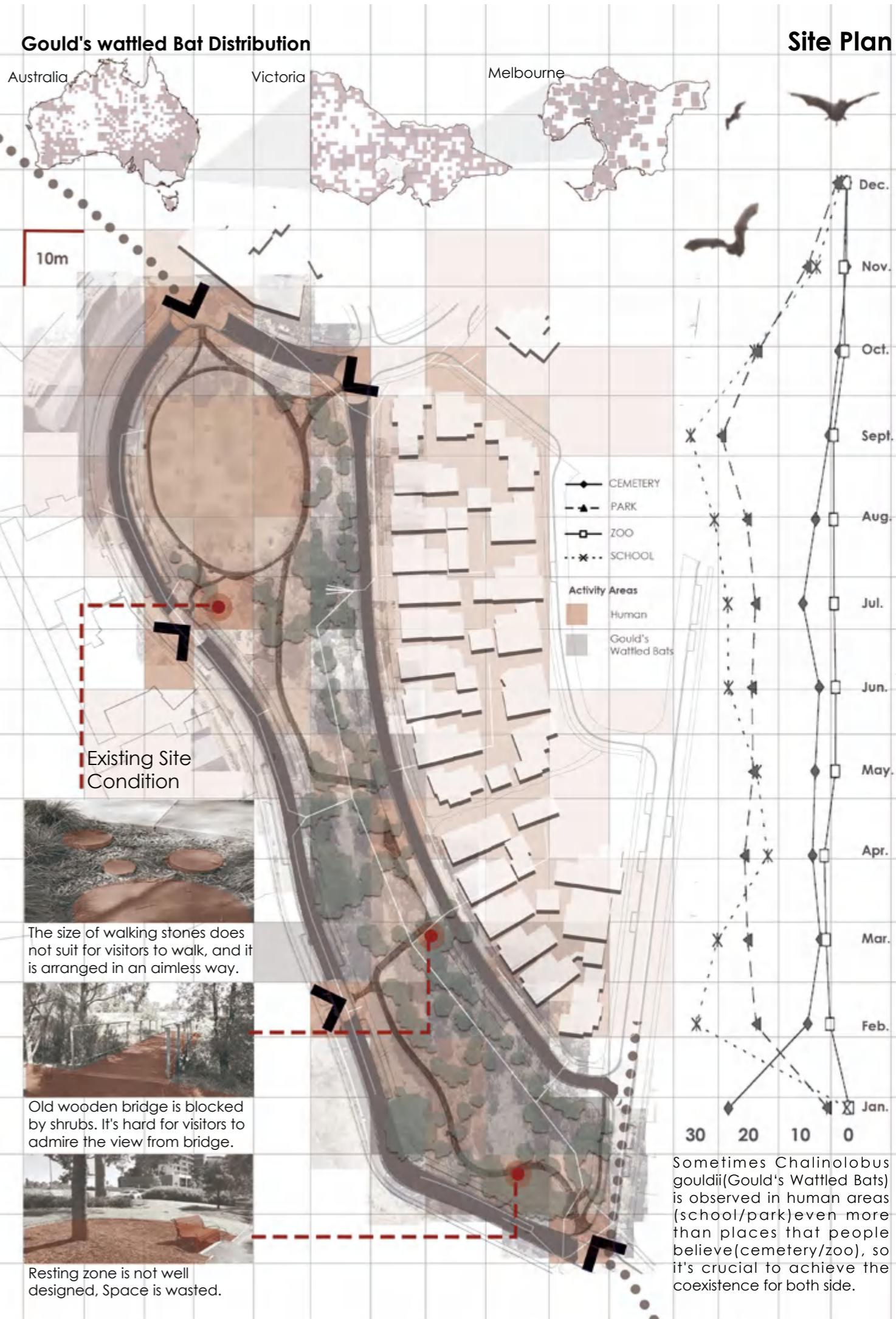
People may appreciate songs from birds in the delightful morning but can hardly notice the humming from bats at dusk. The bats like Gould's Wattled bats, suffered from the artificial lights and noise when they live in urban areas.

To moderate the conflicts, Galada Avenue would be applied with a concept for both day and night. The activities of human beings would be brought to different levels. And the vegetation would be designed as a beautiful view for visitors during the day, but covering the lights for bats at night. Bats boxes and cabinets would be set for scientific observation. Specific materials are utilized in different areas to meet both needs of human beings and bats, to achieve the peaceful coexistence of humans and nature. Also, allow a higher richness of biodiversity to be built.

## Design Concept



The project is mainly following 3 strategies across Galada Avenue to provide both humans and bats with a better living experience. To allow humans to have their activity areas, and would not affect the bats' Predation and reproduction at the same time.



## Site Plan

1: 1000 @A3



### 1 Open Seating Area

Opening grassland provides a wide activity area for human beings to visit, as there are a few trees in this area, bats seldom come and would not affect the daily activities of visitors. Also, different colors and heights of trees provide various views for visitors at day.



### 2 Sunken Communal Space

Bringing part of human activity underneath the ground level. Provide a **different level of experience** during the day and also **reduce** both the **sound and light impacts** at night.



### 3 Winding Broadwalk

Ornamental Flower beds along the elevated paths can attract moths and other insects, as food sources for Gould's Wattled Bats at night. It decorates the elevated paths for visitors at day and increases the biodiversity at the site.



### 4 Cycle Path

Large Trees form the screen at night, provides more dark space for Gould's Wattled Bats to prey or roost.



## Sunken Communal Space

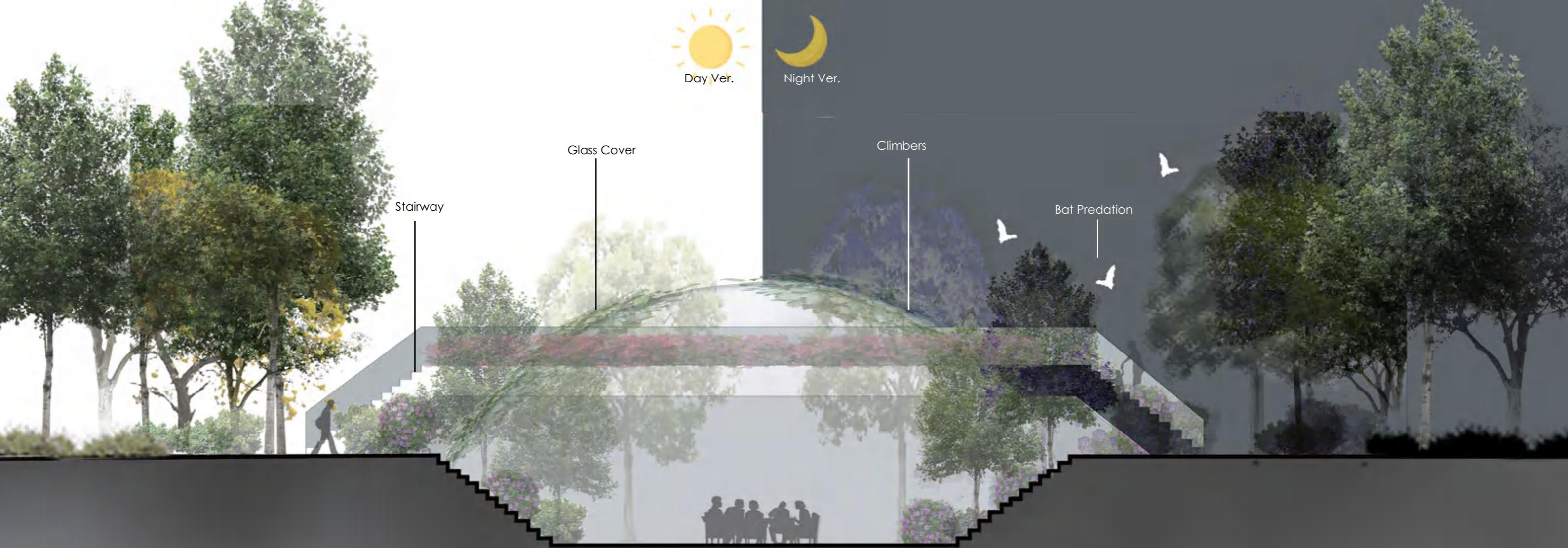


Large Trees underground level provide people with a chance to **observe Bats' predation**, but also work as a **threshold** between the human and Gould's Wattle Bats (keep a certain distance). **Climbing plants** cover the glass roof, which not only enables visitors can see nature from a **different perspective** during the day, but also can **hide the lights at night**. Glass handrails along the stairs provide younger visitors with a chance to experience the **different height** of shrubs.

## Sunken Communal Space View from Southen Stair



## Sunken Communal Space Day & Night Section



# Detailed Planting Plan 1: 250 @A3

## Aesthetics

Ornamental Plants and trees with different color are arranged refer to the shape of Boardwalk.



## Barrier for Predator

Plants of cat-driving quality are arranged at the edge of the site.



## Consideration of Climate

Large trees and wetland plants are selected for future caring and plants are located refer to the micro climate.



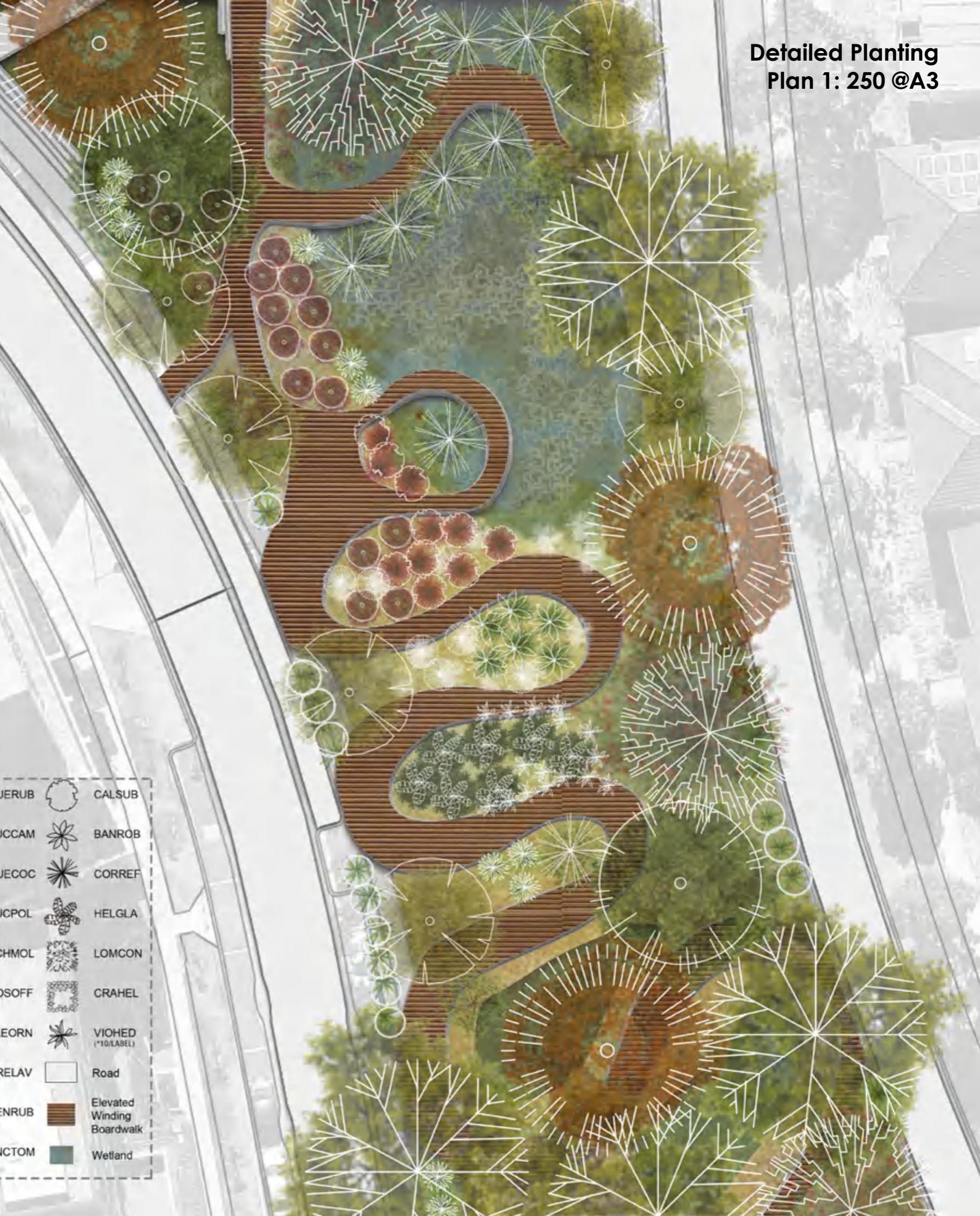
## Screen Forming

In order to form the screen between human area and Bats area, large trees are arranged at the end of boardwalk.



## Food Source

Plants that can attract insects that Gould's Wattle Bats like at night are selected.



# **QVM 2040-The Role As Passage**

## Melbourne

Individual Project | July 2020 Type: Urban Open Space  
Subject: Landscape Studio 3:Urban Open Space  
Tutor: Sidh Sintusingha <ssint@unimelb.edu.au>

Queen Victoria Market contains a rich and interesting history, which attracts many visitors every year. These characters inspired me to redesign a new version of QVM in 2040. To represent its function of "Passage"---Link from the past to the present/link from district to district/Link from the local inhabitant to the newcomer.

The design logic behind the theme is based on the view collection and the research from Assignment 1. And then I analyzed the information about the QVM from the Human to the building(structure) scale. To represent a more cultural element, and also bring the sense of flow and “passage” to the first sight when people meet the QVM in 2040. The car park area was chosen to be redesign in a new form, and reach the proposal and intent buying using cube structure/planting feature/tile arrangement.



## Site Location



[View Collection](#)



Age:24  
Aboriginal Handcraft Artis

"As a handcraft owner, I like the feeling that by participating in the market activity, I seldom have the chance to go to the nearby suburb for the market. It would be good for the city if there is an Artisan Market in the CBD, and it should be good for the publicity of the city. And also it can promote the surrounding stores."



**Age:19**  
Teenage

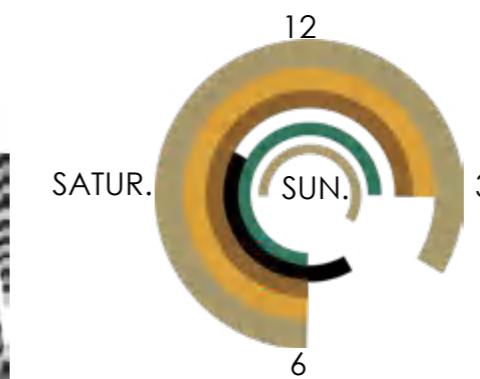
"I always like to bring my grandchildren with me for weekly shopping to the QVM. They can easily lose interest in the market, which is not helpful for the essential shopping for the whole family. If there is a children's place in the QVM for them to climb and run, it should help with it."



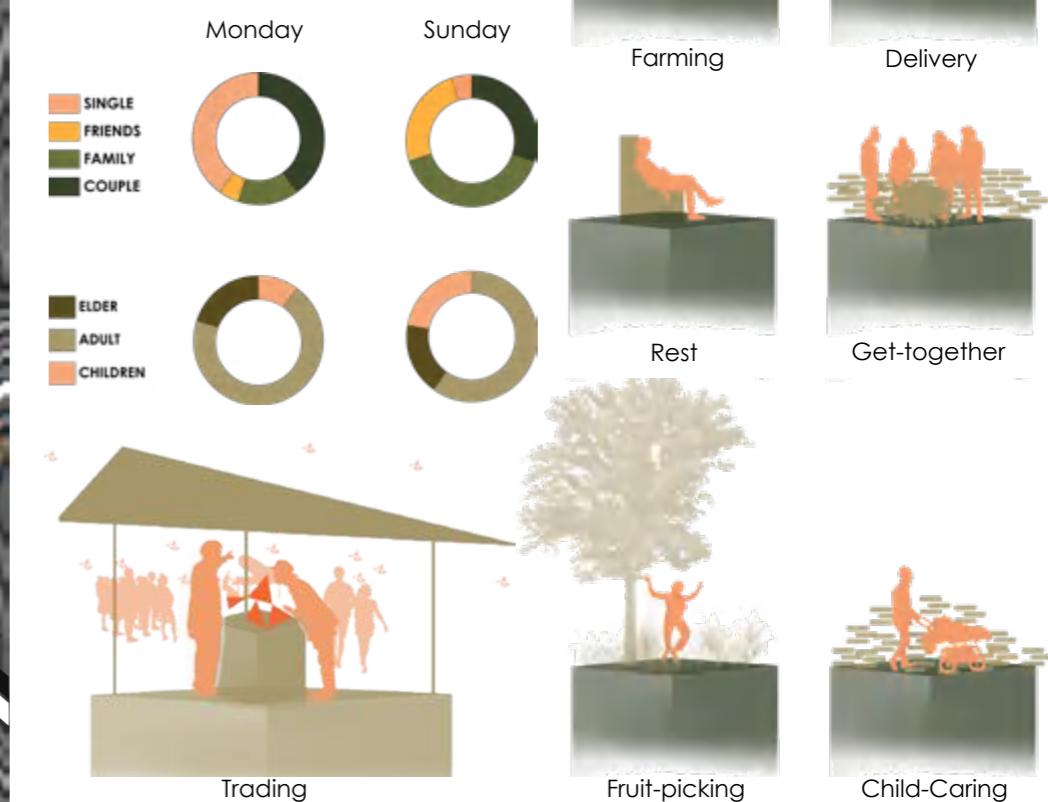
**Age:35**  
**Tourist**

"The heritage is not only about the structure thing, but also the history and activity itself. However, it would be kind of pity that the market only open in that short period, and I did not have time to meet friends from the other places.

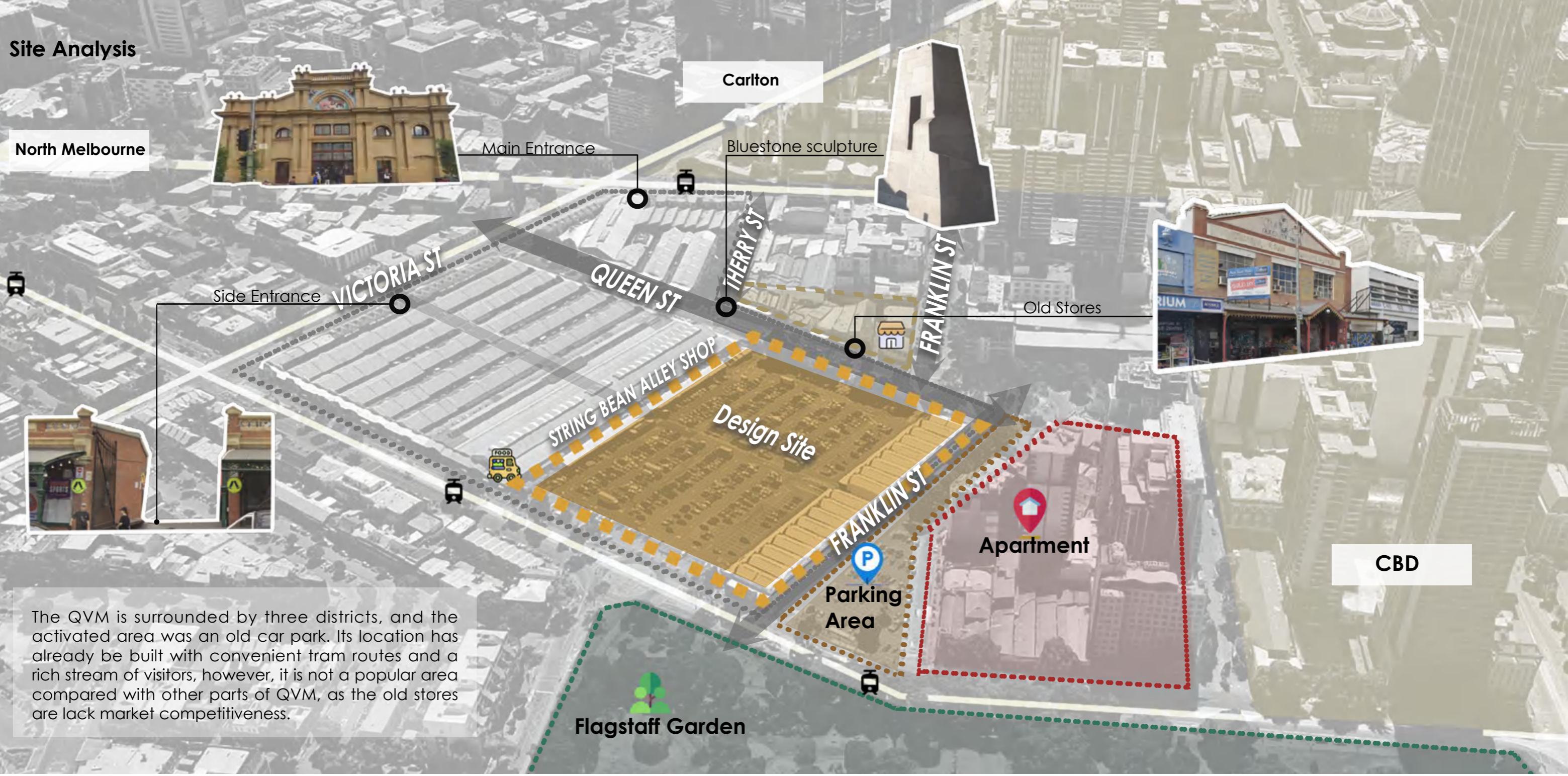
## Opening Hour



## Demography



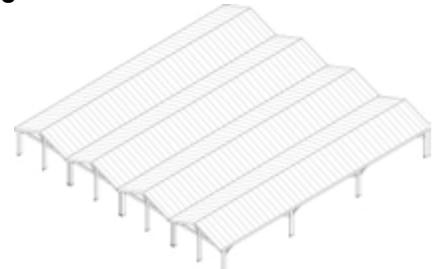
## Site Analysis



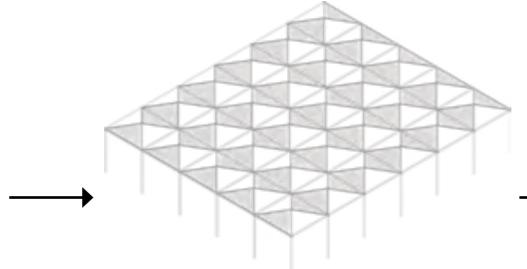
## Modular Diagrams

The QVM is surrounded by three districts, and the activated area was an old car park. Its location have already be built with convenient tram routes and rich stream of visitors, however, it is not a popular area compared with other parts of QVM, as the old stores are lack of market competitiveness.

Original



Modulaization



Diversification



## Variations



# Final Plan



## Planting Scheme



Eustrephus latifolius  
(Wombat Berry)



Themeda triandra  
(Kangaroo grass)



Icrosieris lanceolata  
(Murnong or Yam-daisy)



Dianella spp.  
(Flax Lilies)



Enchylaena tomen-tosa (Ruby Saltbush)



Dicksonia antarctica  
(Smooth Tree-fern)



Jacaranda mimosifolia



Banksia spp.  
(Banksias)



Eucalyptus viminalis  
(Manna Gum)

## QVM Site Section



## 1 Perspective From Pathway



## 2 Perspective From Adaptive Market



## 3 Perspective From Pop-Up Restaurant



# Pleasure Garden-Folding Rock

Melbourne

Individual Project | Mar. 2021 Type: Garden Design

Subject: The Studio beta

Tutor: Philip Chang <philip.chang@unimelb.edu.au / philip.chang027@gmail.com>

I chose to observe the relationship between the folding black papers and their shadow and establish a field condition that contains a coherent organizational framework according to the lighting rules. After that, the landscape conditions like landforms and plantings are introduced. I chose to bring the triangular landform to form different moments within the site and also utilize some climbers and deciduous plants to change the garden along the time. The studio eventually required us to define the figure elements more specifically as architectural elements, so I chose to adjust the formation into geometrical connecting rooms refer to the solar analysis, which allows the site not only to be built with beautiful communal space with a change of light and shadow but also enhance the experience from spaciousness to enclosure.

## Figure Generation Process

Shadow Study

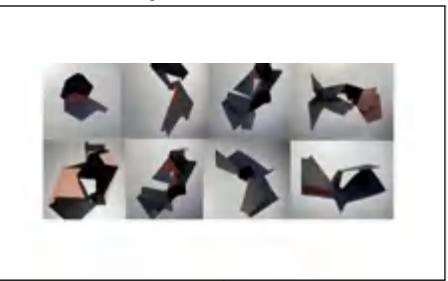
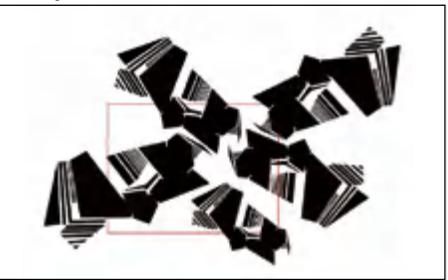


Figure Generation



Manipulation



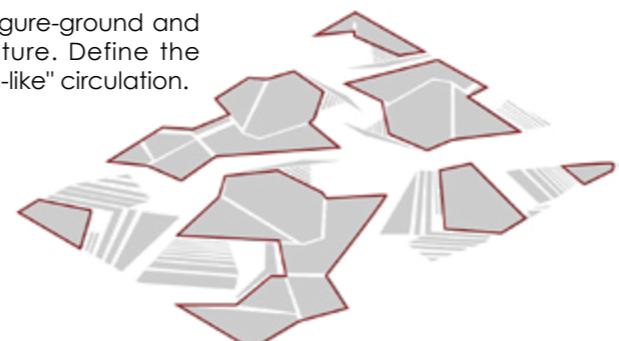
Framework



## Project Brief

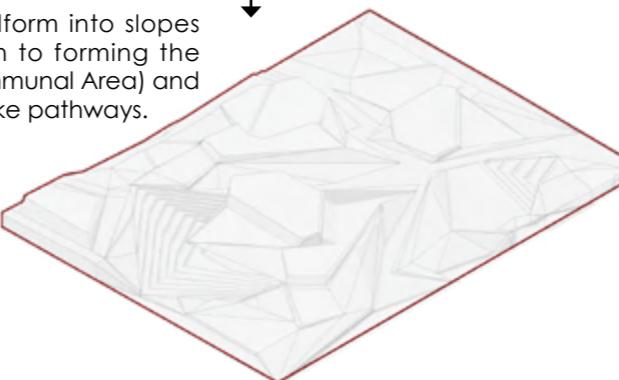
Module 1

Generating the figure-ground and overall site structure. Define the diagonal "branch-like" circulation.



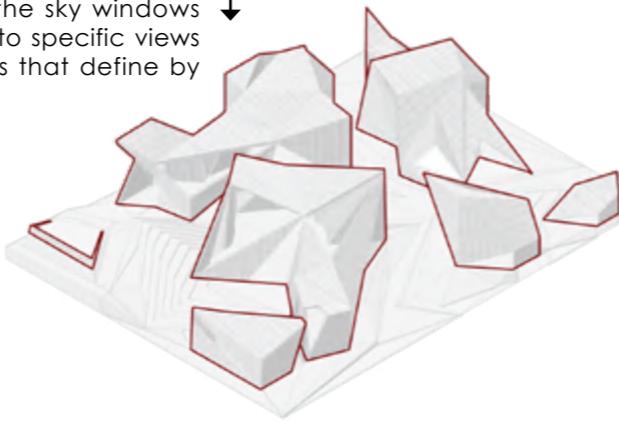
Module 2

Cutting the landform into slopes and stairs, begin to forming the foci (Sunken Communal Area) and creating zigzag-like pathways.



Module 3

Building The blocks refer to solar analysis. Open the sky windows and doors refer to specific views and experiences that define by plants.

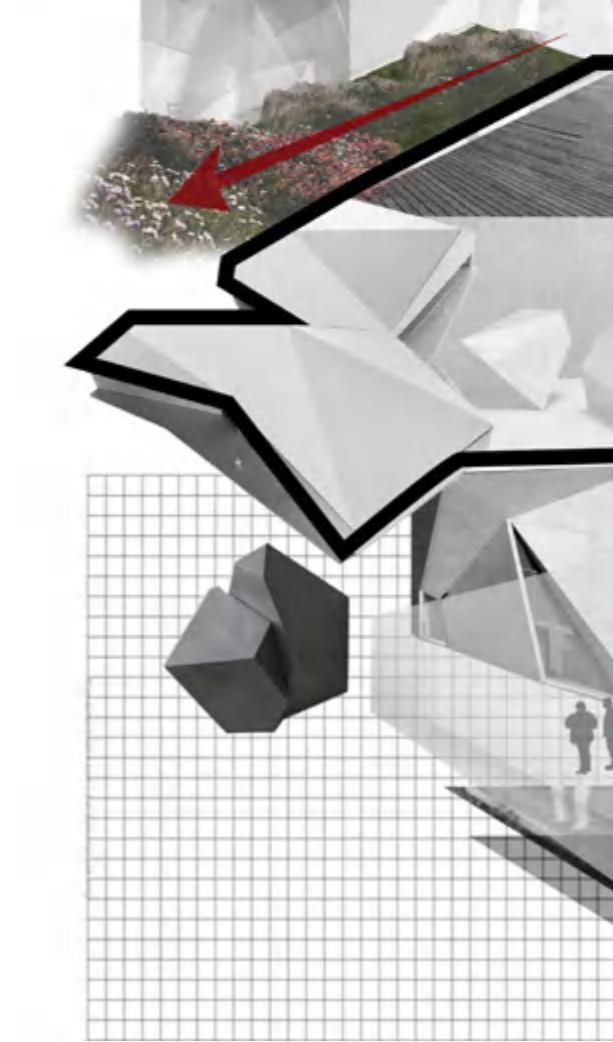


## Ideogram

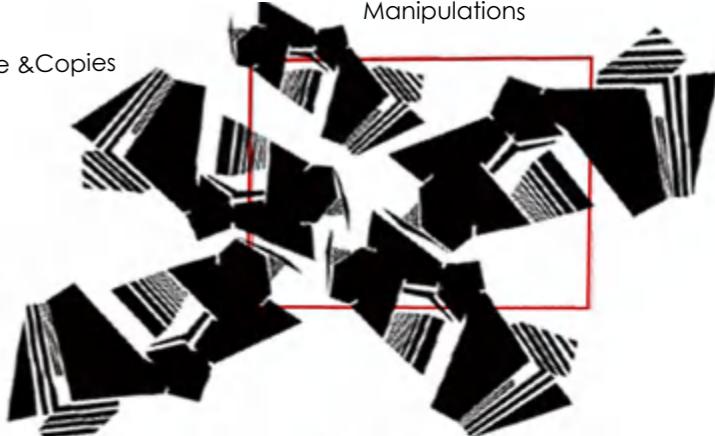
| Shallow & Contrast



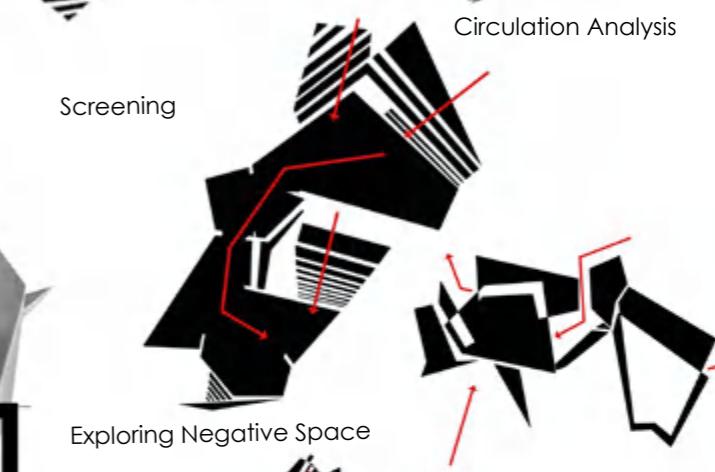
|| .Expansion & Opening



Rotate & Copies



Manipulations



Circulation Analysis



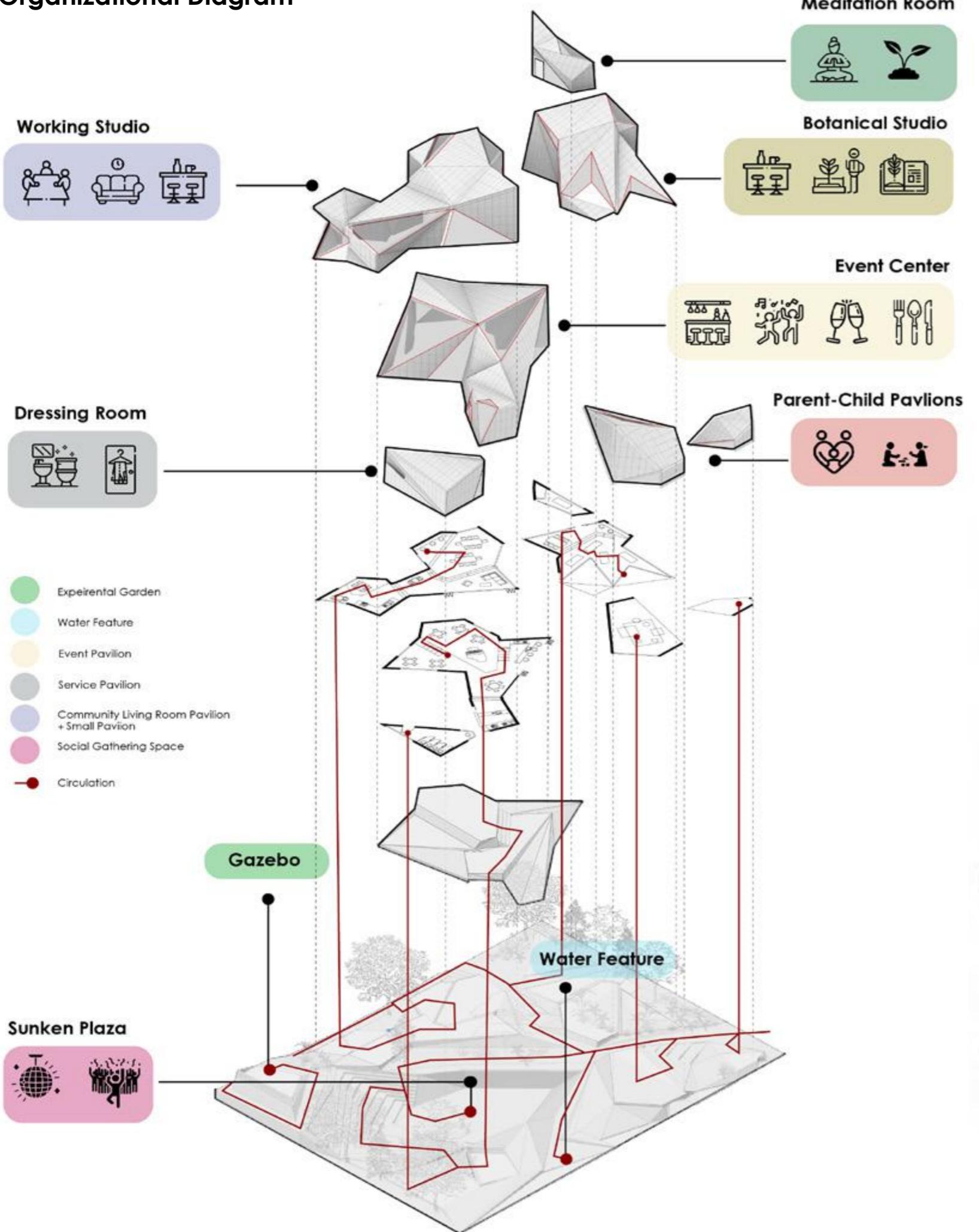
Exploring Negative Space



|| .Half Enclosure Zone



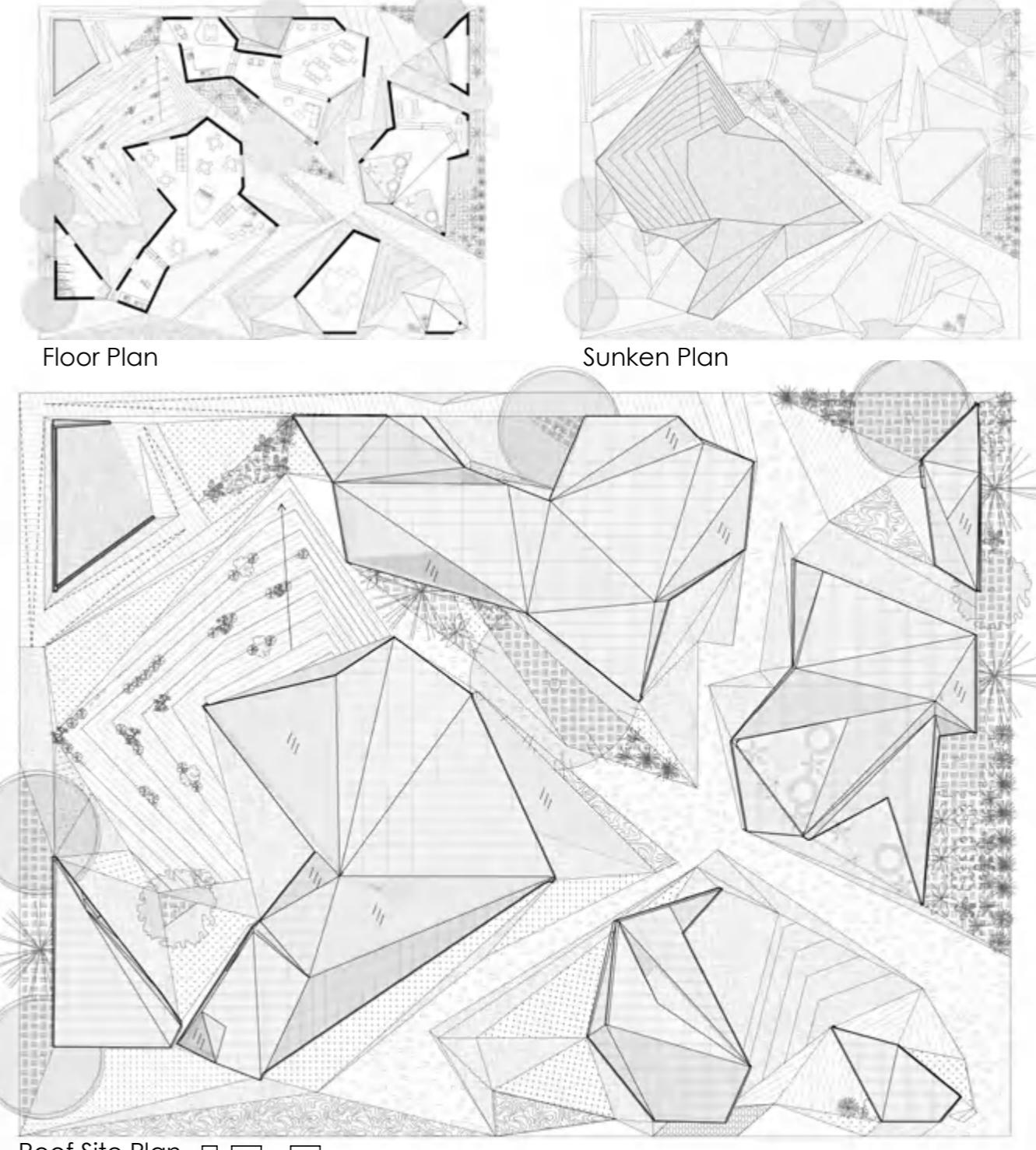
## Organizational Diagram



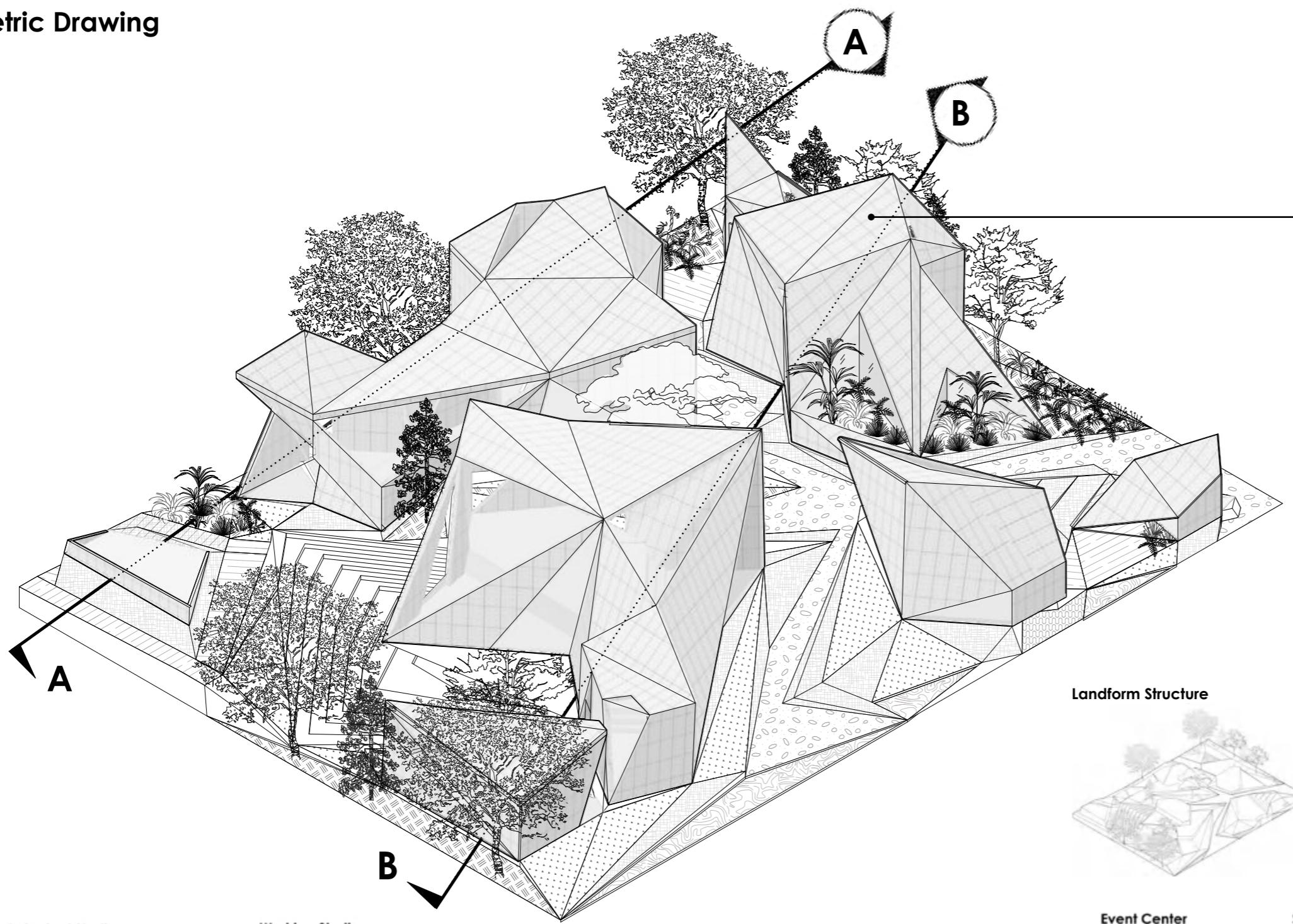
## Site Analysis



## Site Plans



## Isometric Drawing



## Experiencial Image



A sloping roof works with the opening and plants can form a geometric inner experience. The climbers should create nice sunlight patterns on the floor, which is also good for people who like to meditate indoor surrounded by plantings. Visitors are also free to enter the botanical zone for study purposes. The plantings within the site can also form a contrast with the angular structure of the buildings and pathways. The whole sense of rock formation is attributed to it.

Landform Structure

Solar envelop Silhouette

Building Block

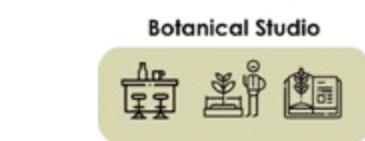
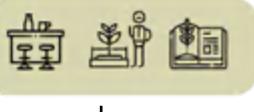


Event Center

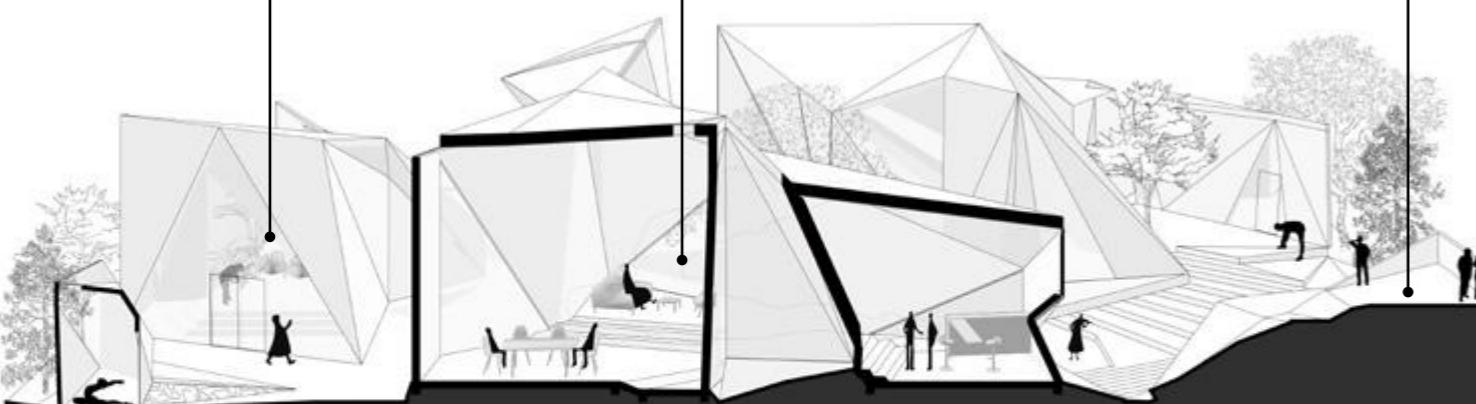
Sunken Plaza

Working Studio

Botanical Studio



Gazebo



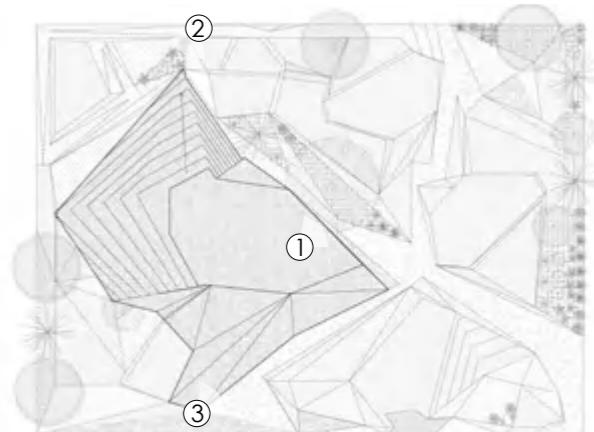
Section A-A

Section B-B

## Experiencial Image 1



## Experiencial Image 2



These Perspectives show the overall sense of space that could be built at the inner sunken plaza, the northern ramps next to the working studio and also the water feature area. Views can be framed into different shapes by the edge of the walls, slopes and pathways. Works with the sunlights, the shadow also forms another level of experience, which reflected back to the project starting point--the shadow figure study.

## Experiencial Image 3



# Triptych

Sunny Ver.



Night Ver.



Rainy Ver.



# Other Works

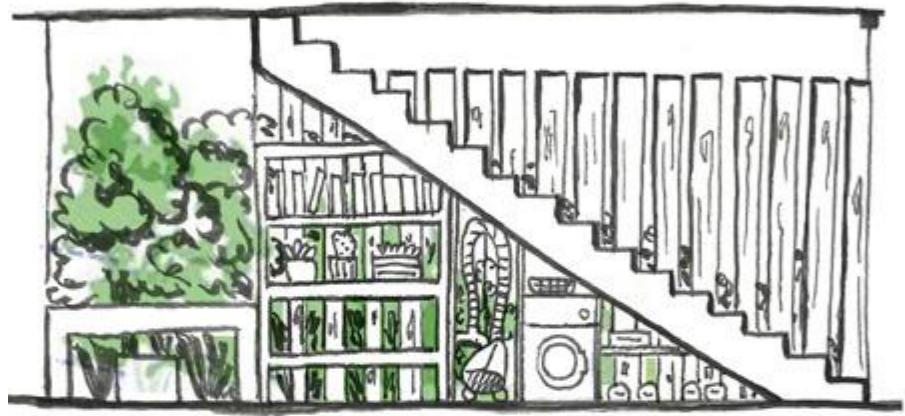
## Design Studio Gamma

### The S-GREEN

Hand drawings for living house project, it aims to utilize greenerys to divide the space for different occupation of the family members. Some rooms can be rented out without affecting owner's privacy.



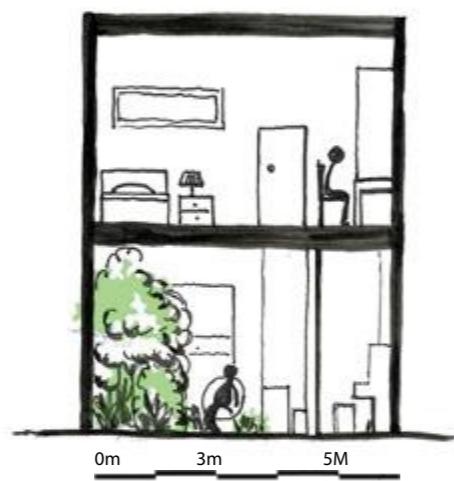
### Interior Detail



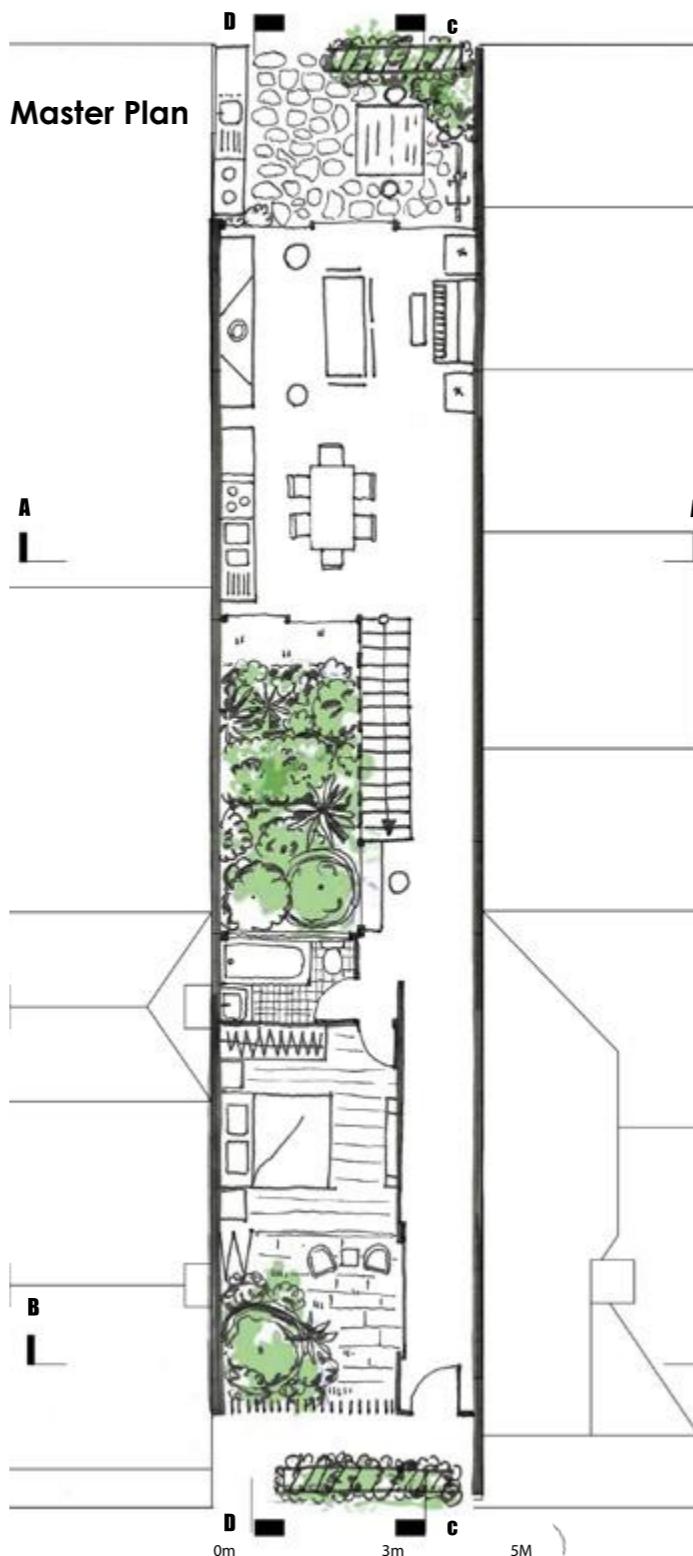
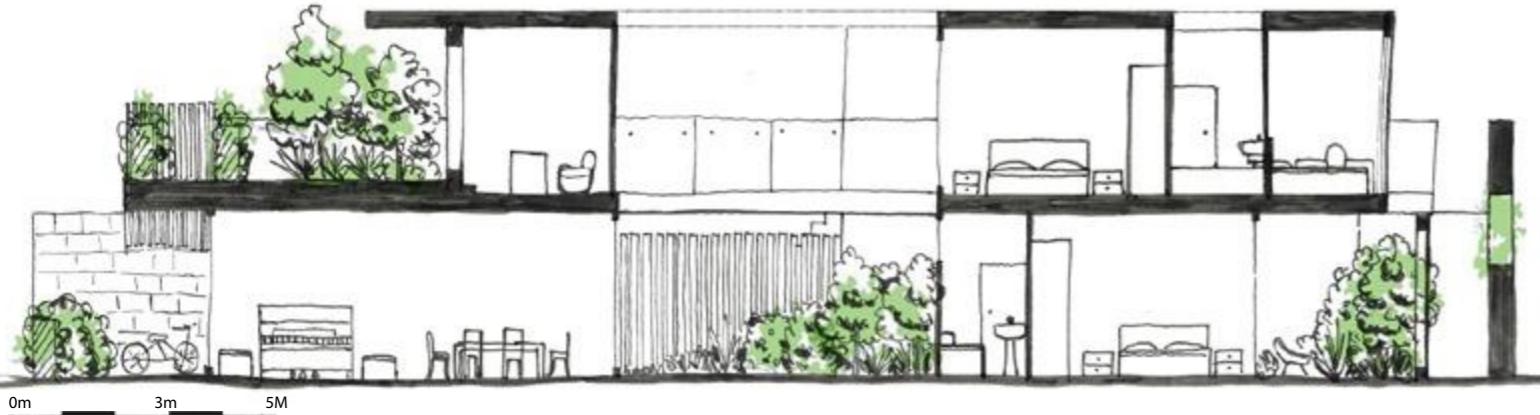
Section A



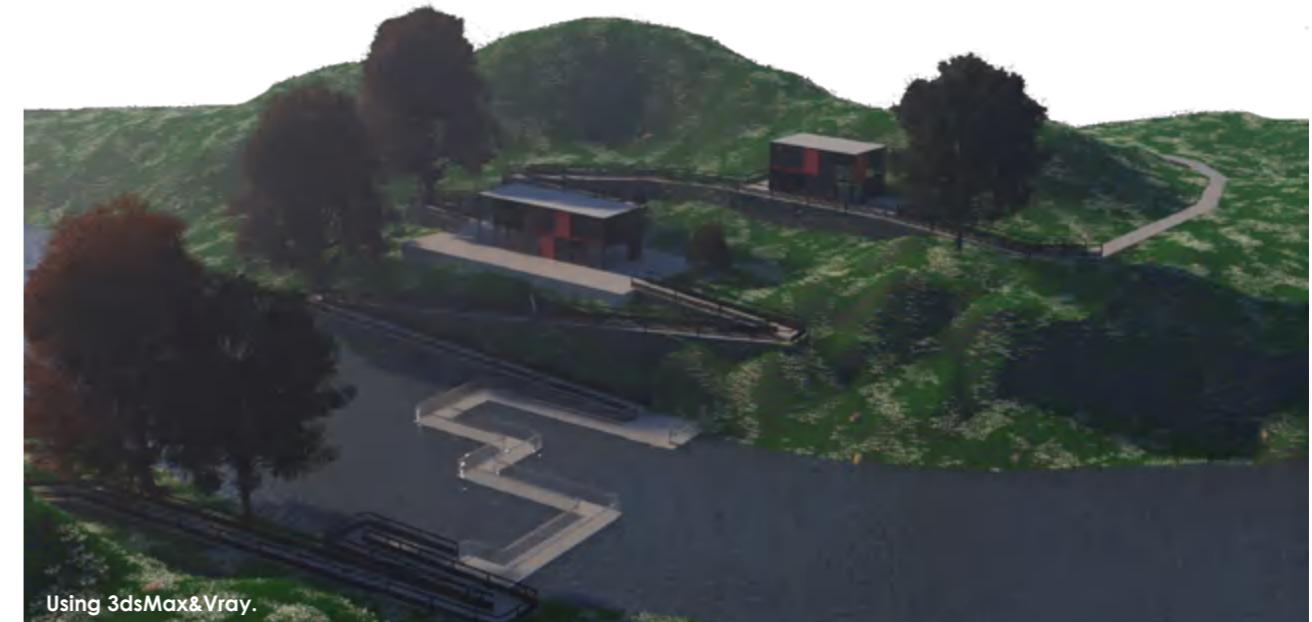
Section B



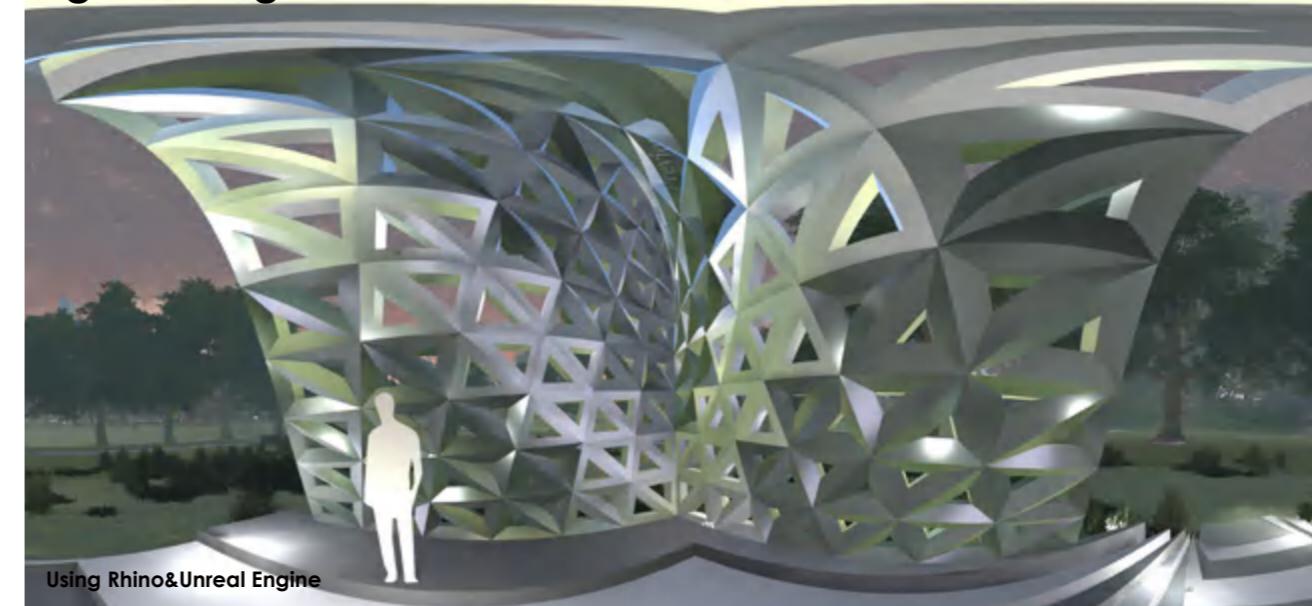
Section D



## Site Tectonics

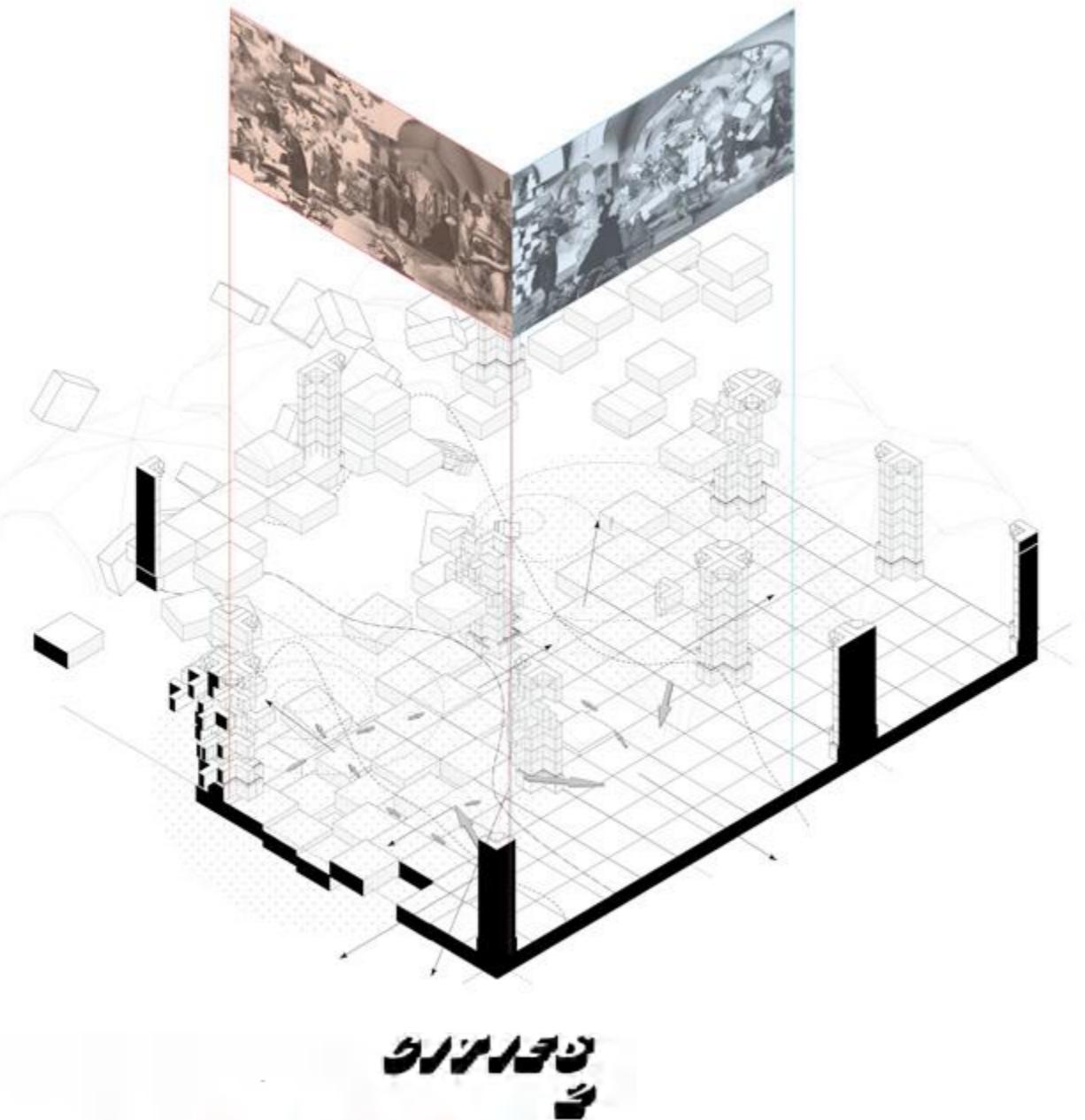


## Digital Design



# Other Works

## Fondation of Design: Representation



In Chloe, a great city, the people who move through the streets are all **strangers**. At each encounter, they **imagine a thousand things about one another**; meetings which could take place between them, conversations, surprises, caresses, bites. But no one greets anyone; eyes lock for a second, then dart away, seeking other eyes, never stopping.

A girl comes along, twirling a parasol on her shoulder, and twirling slightly also her rounded hips. A woman in black comes along, showing her full age, her eyes restless beneath her veil, her lips trembling. A tattooed giant comes along; a young man with white hair; a female dwarf; two girls, twins, dressed in coral. Something runs among them, an exchange of glances like lines that connect one figure with another and draw arrows, stars, triangles, until all combinations are used up in a moment, and other characters come on to the scene: a

blind man with a cheetah on a leash, a courtesan with an ostrich-plume fan, an ephebe, a Fur Woman. And thus, when some people happen to find themselves together, taking shelter from the rain under an arcade, or crowding beneath an awning of the bazaar, or stopping to listen to the band in the square, **meetings, seductions, copulations, orgies are consummated among them without a word exchanged, without a finger touching anything, almost without an eye raised.**

A voluptuous vibration constantly stirs Chloe, the most chaste of cities. If men and women began to live their ephemeral dreams, every phantom would become a person with whom to begin a story of **pursuits, pretenses, misunderstandings, clashes, oppressions, and the carousel of fantasies would stop.**

## Red View



## Blue View

