MicroPublicFarms | FADS | 2024

“Site Axonometric”

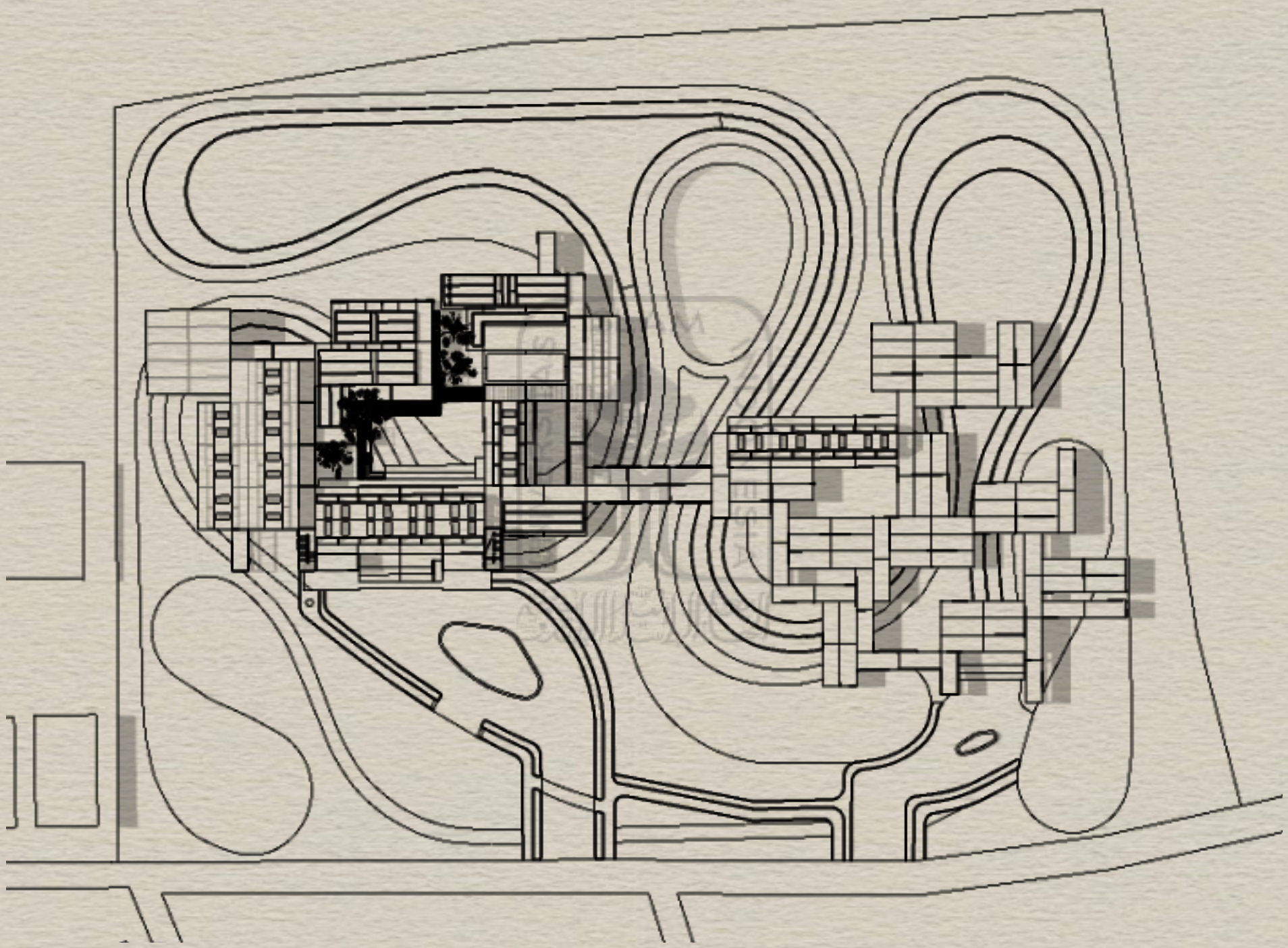
Rendered by Twinmotion





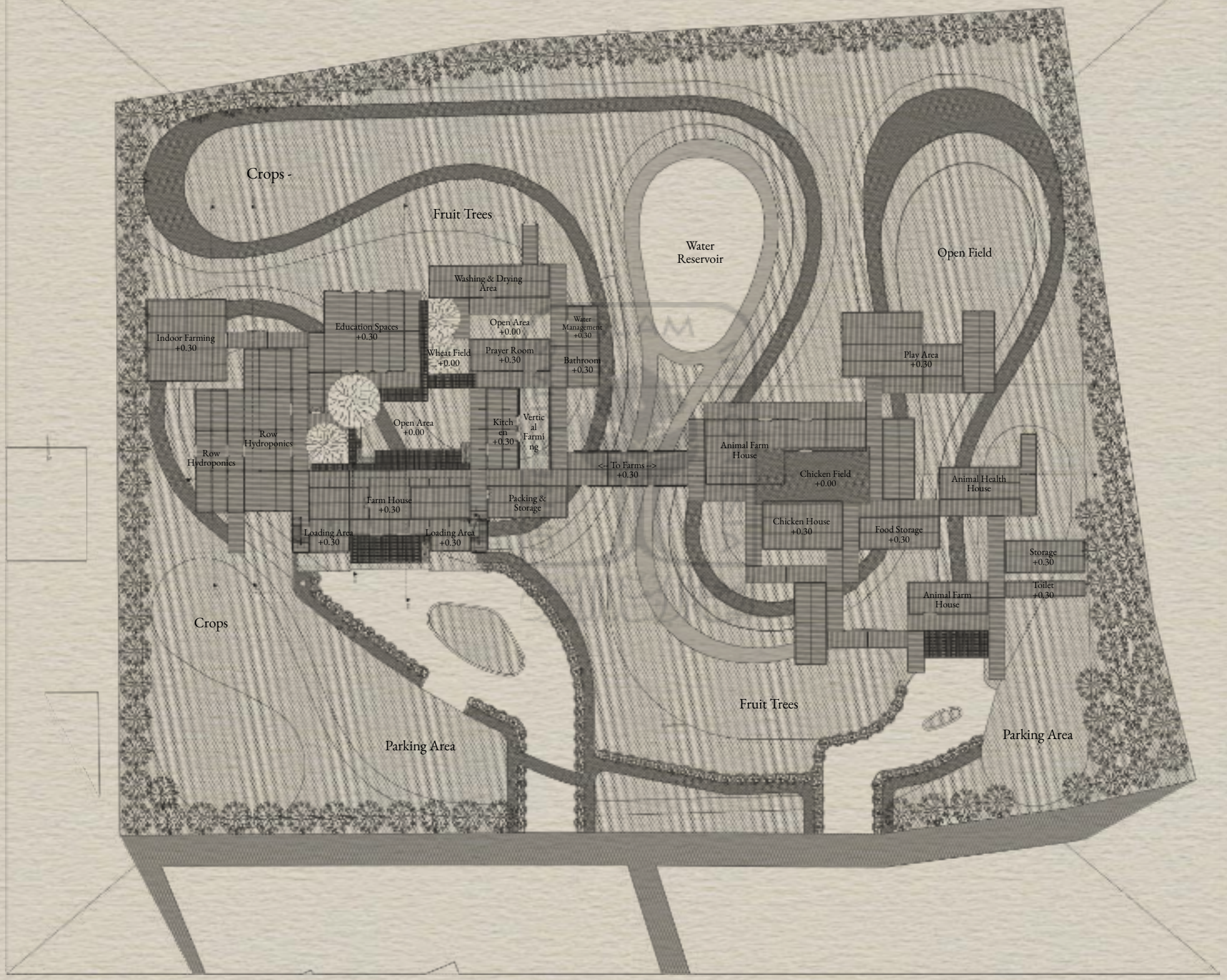
“Site Situation”

By Archicad



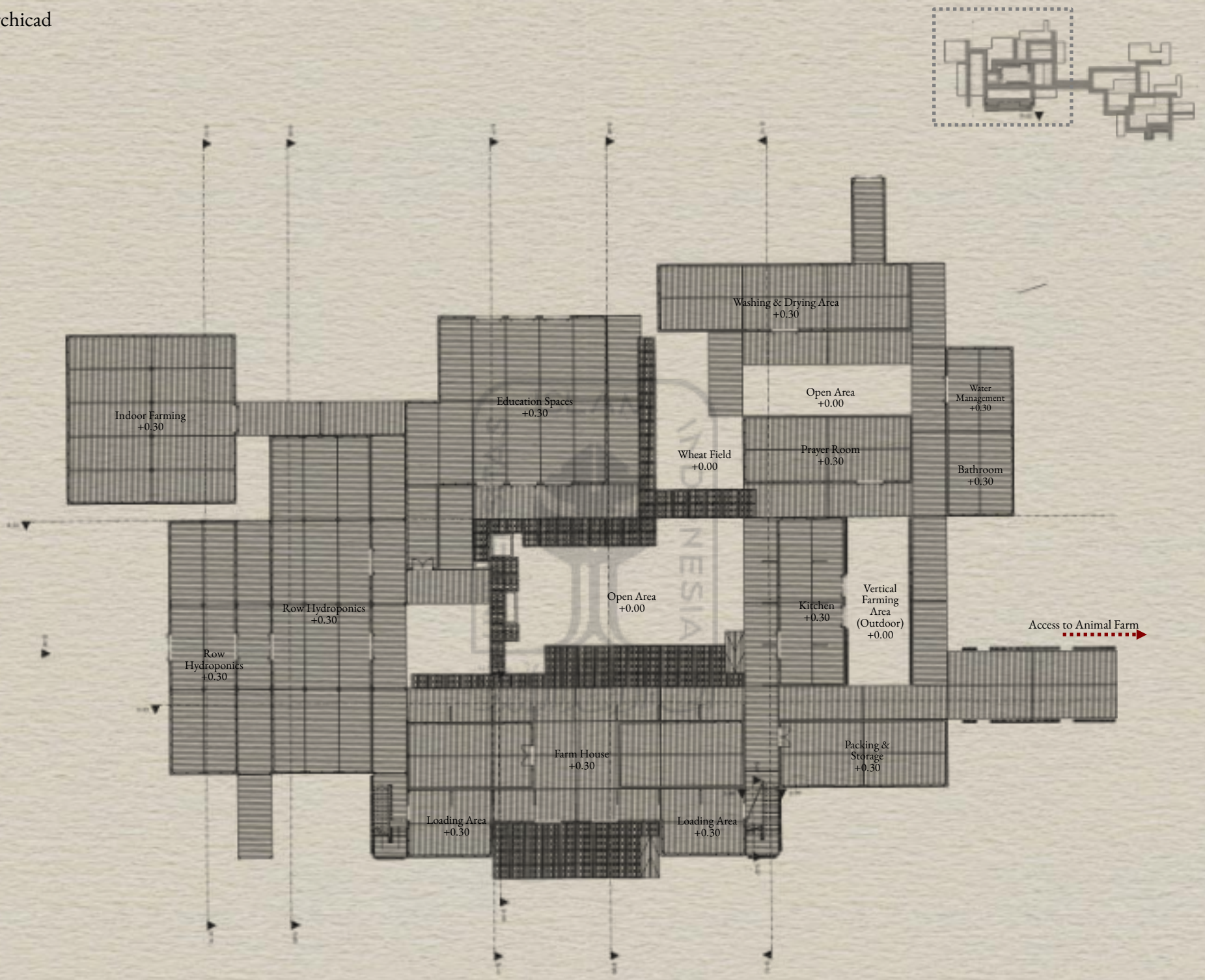
“Site Plan”

By Archicad



“1st Floor Partial”

By Archicad



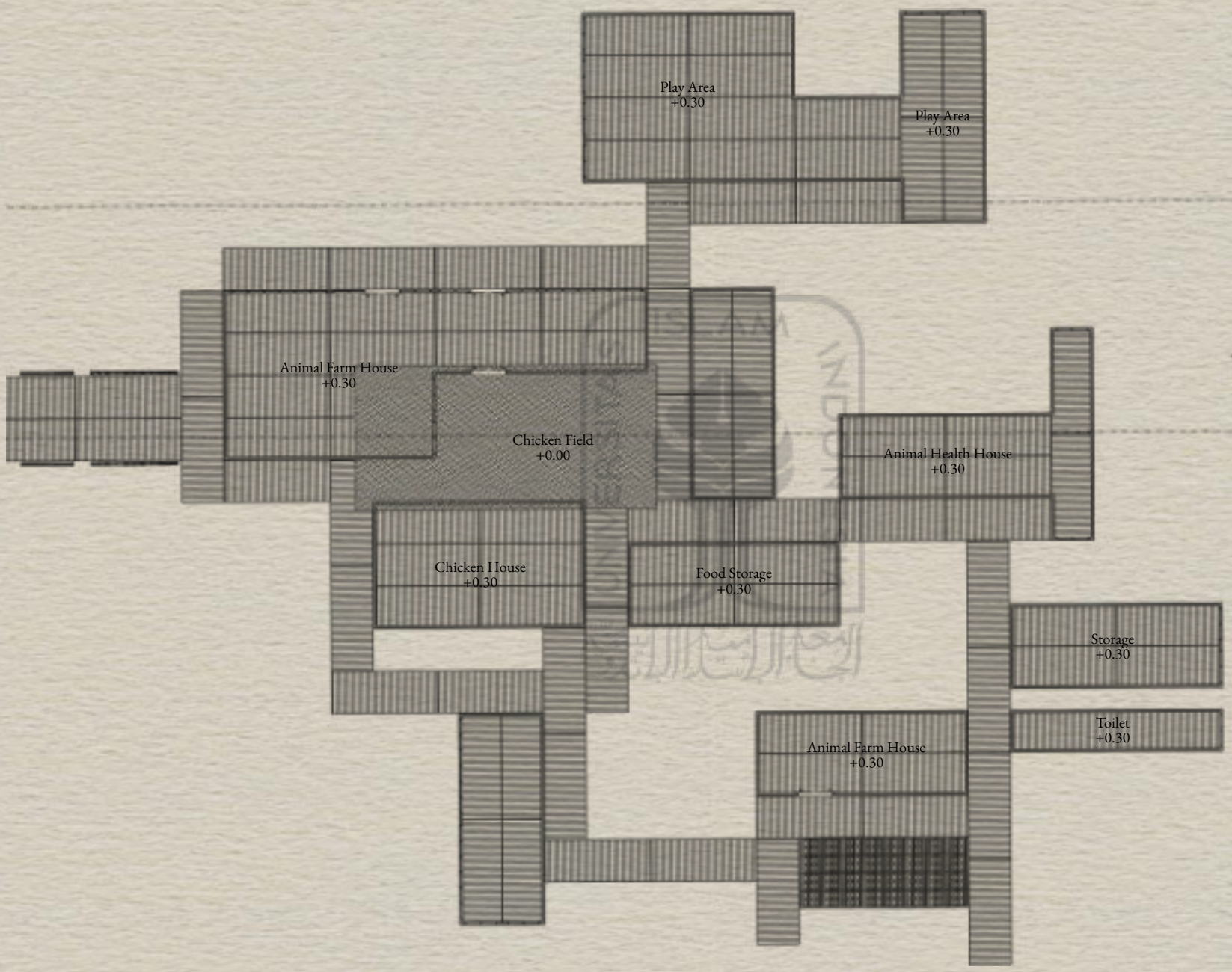
1st Floor Plan - Partial (Farm)

1: 250

“1st Floor Partial”

By Archicad





1st Floor Plan - Partial (Animal Farm)

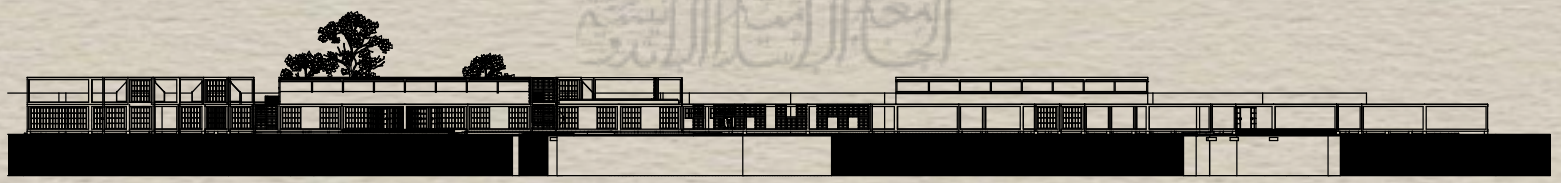
1: 250

“Site Elevation”

By Archicad



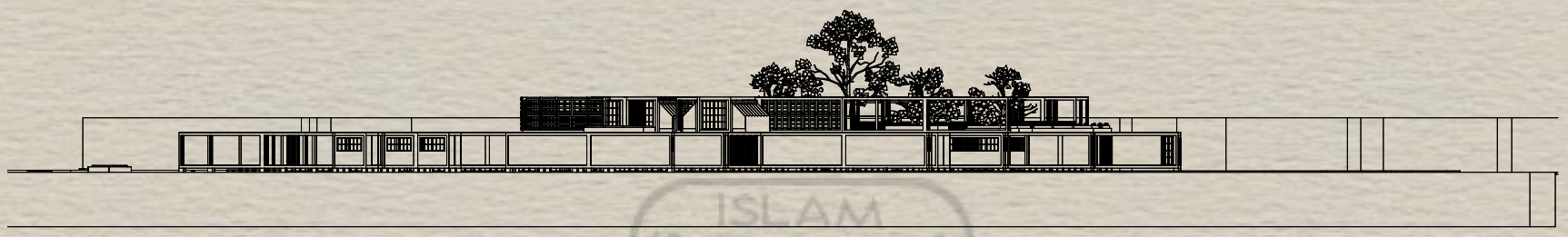
East Elevation



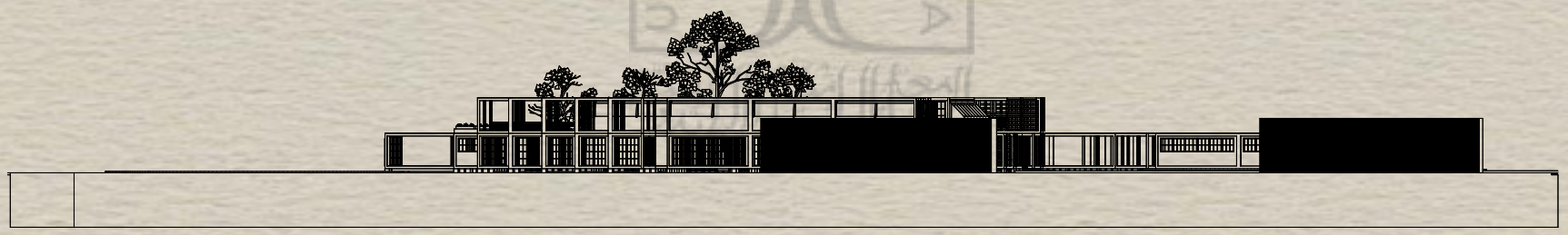
West Elevation

“Site Elevation”

By Archicad



North Elevation



South Elevation

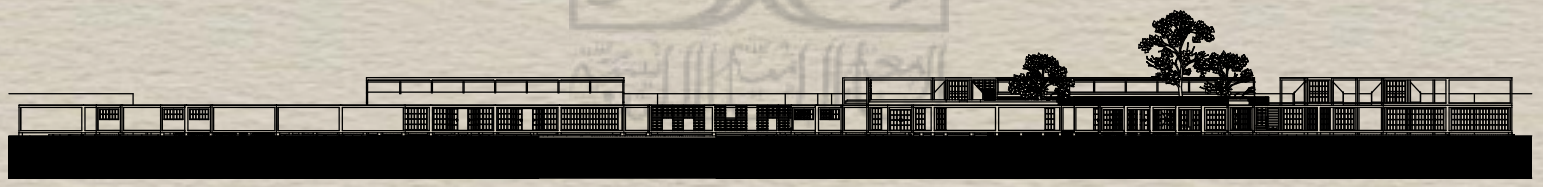
“Building Elevation”

By Archicad



East Building Elevation

1: 400

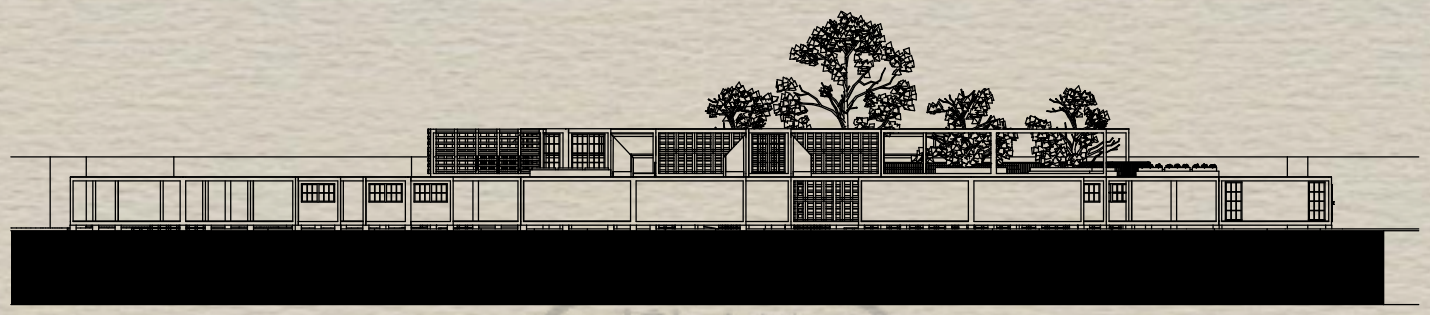


West Building Elevation

1: 400

“Building Elevation”

By Archicad



North Building Elevation

1: 200



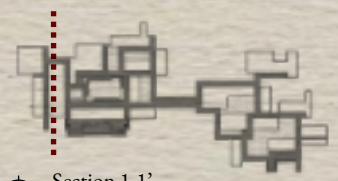
South Building Elevation

1: 200

“Building Section”

By Archicad



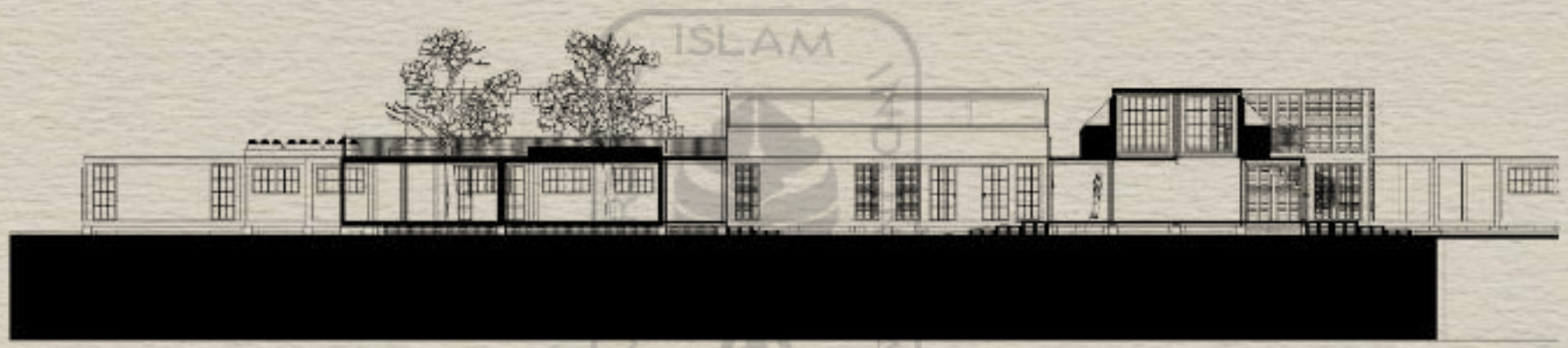


Section 1-1’

1: 150

“Building Section”

By Archicad





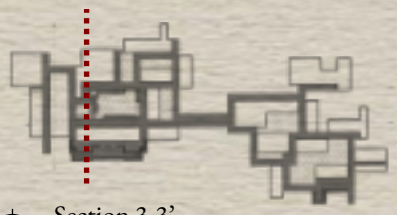
Section 2-2’

1: 150

“Building Section”

By Archicad





Section 3-3’

1: 150

“Building Section”

By Archicad





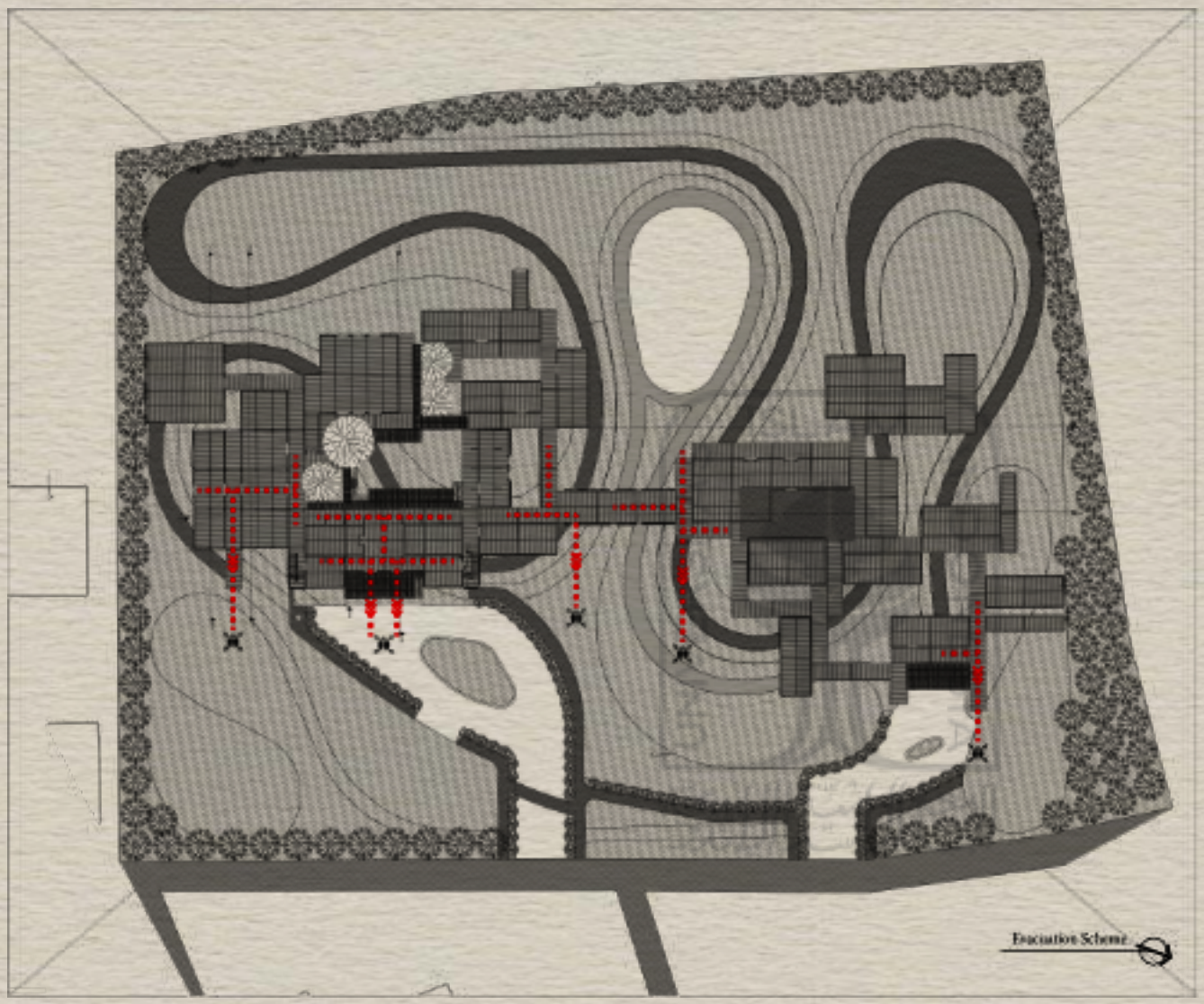
Section 4-4’

1: 150

GSE Educational Version

“Building Section”

By Archicad



“Evacuation Scheme”

Assembly Point



“Barrier Free”

1. Entrance Ramp
2. Innerfield Ramp



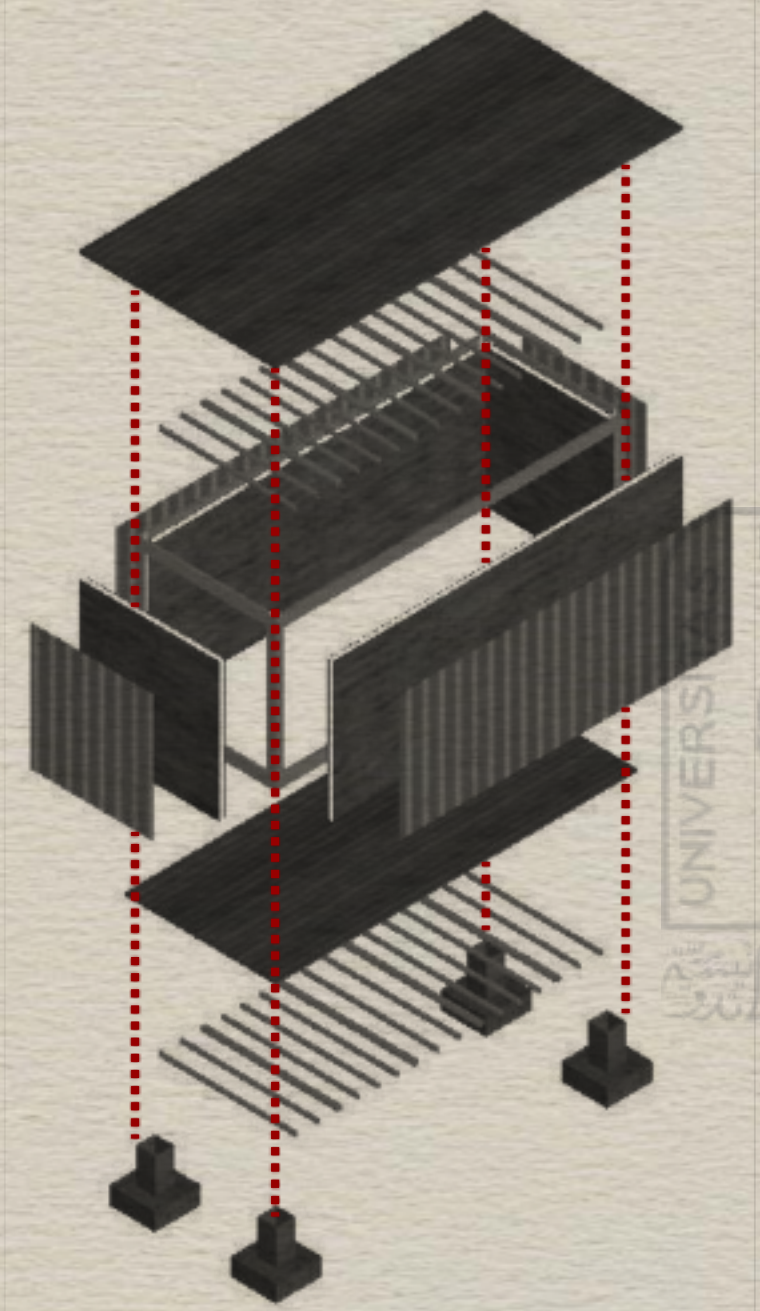


“Irrigation Scheme”

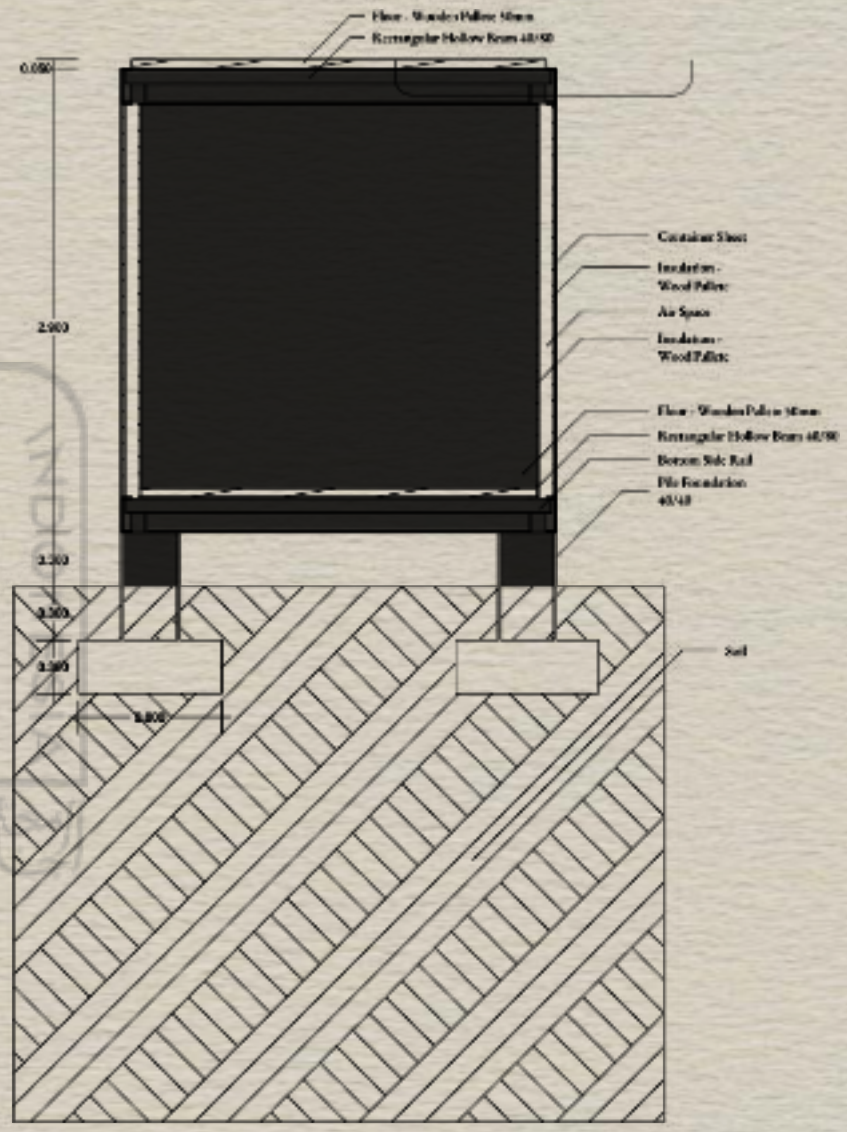
- Water and Sand Filter
- Water Tank
- Surface Reservoir
- Water Pump
- Pipe
- Drip Pipe

“Building Detail”

By Archicad



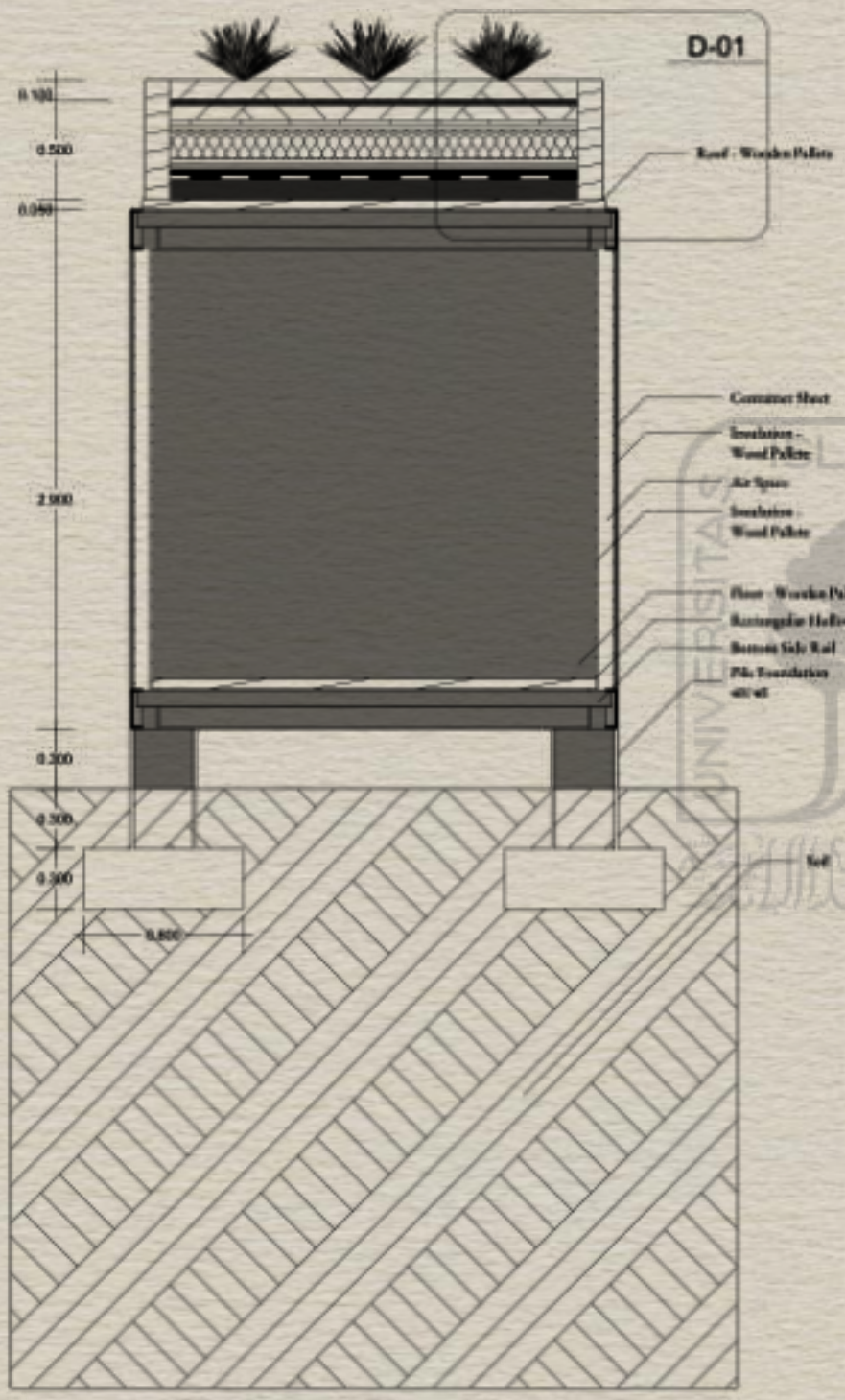
Structure Axonometric



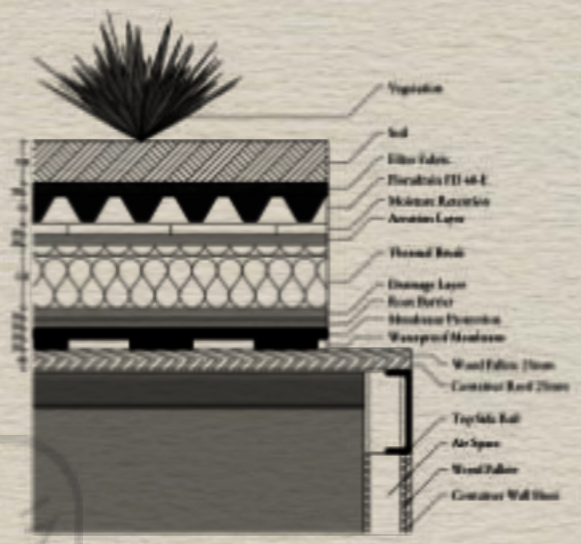
Structure Section

“Building Section”

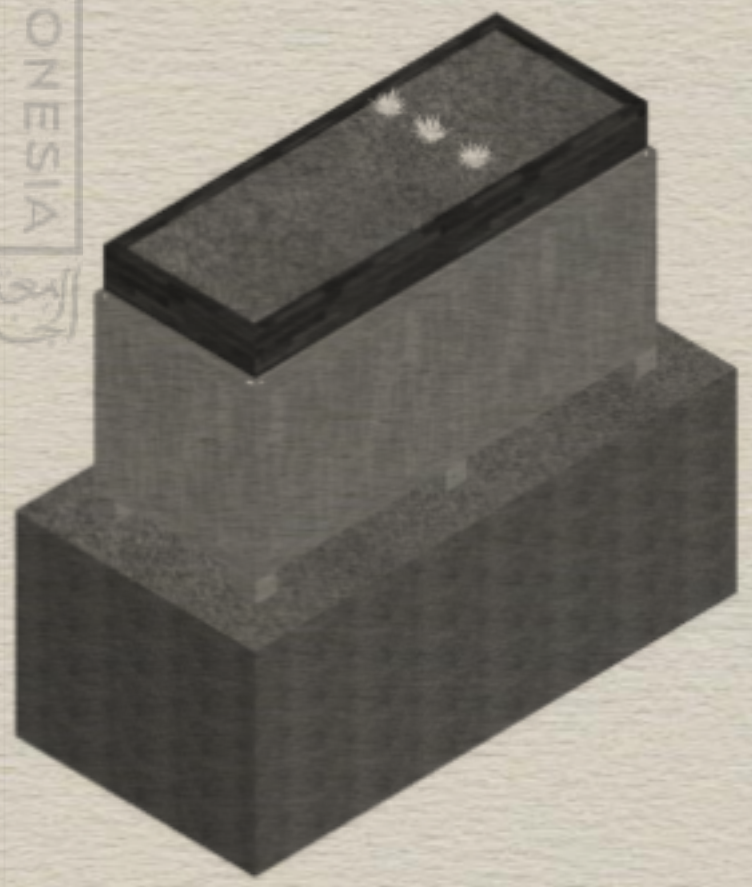
By Archicad



Detail Section 1:20



Detail Section 1:10



Module Axonometric

UNIVERSITAS ISLAM INDONESIA

“Building Perspective”

Top View



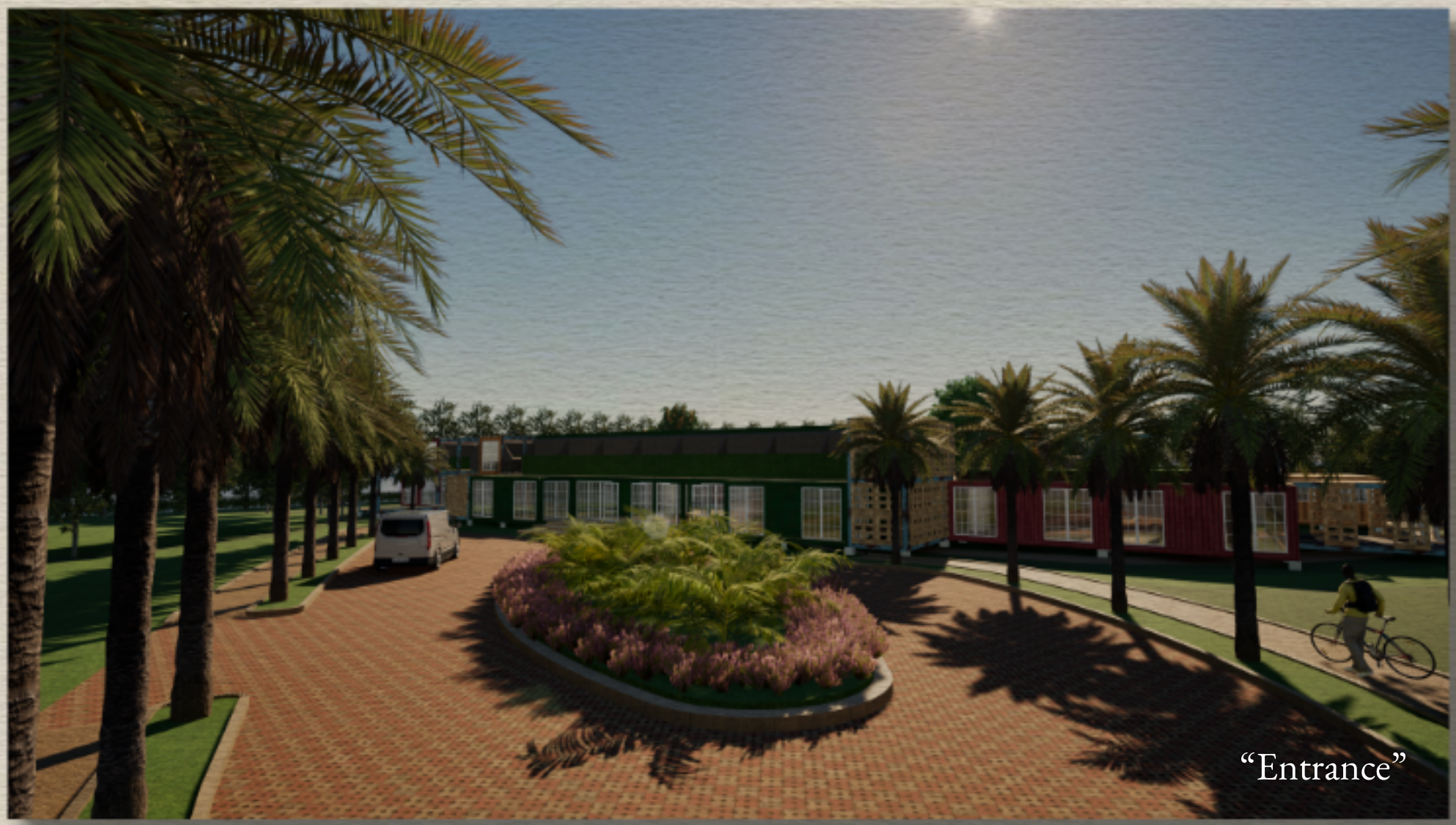
“Building Perspective”

Rendered by Twinmotion



“Interior Perspective”

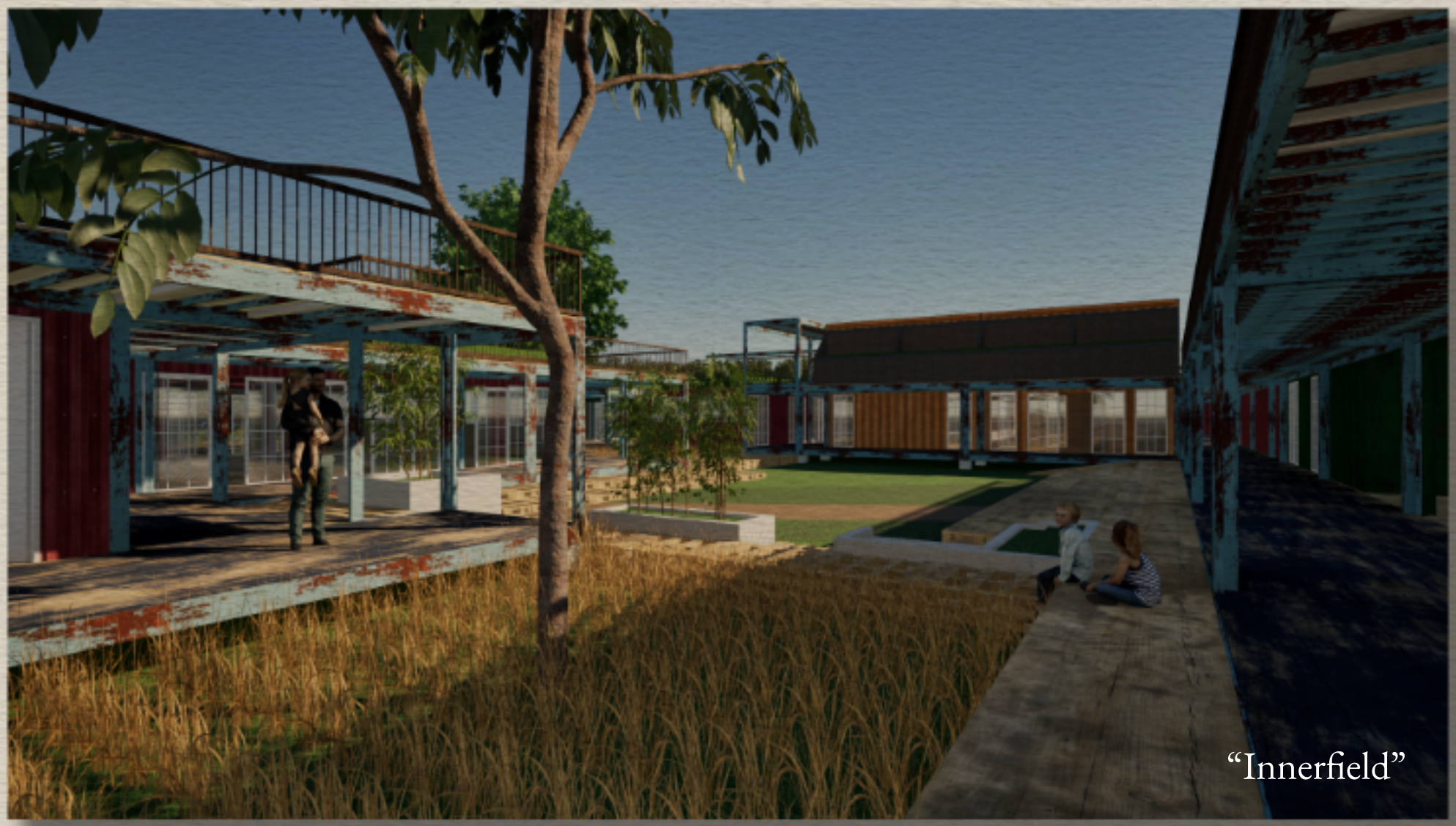
Rendered by Twinmotion



“Entrance”

“Interior Perspective”

Rendered by Twinmotion



“Innerfield”

“Interior Perspective”

Rendered by Twinmotion



“Vertical Farming”

“Interior Perspective”

Rendered by Twinmotion



“Hydroponic Farming”

“Interior Perspective”

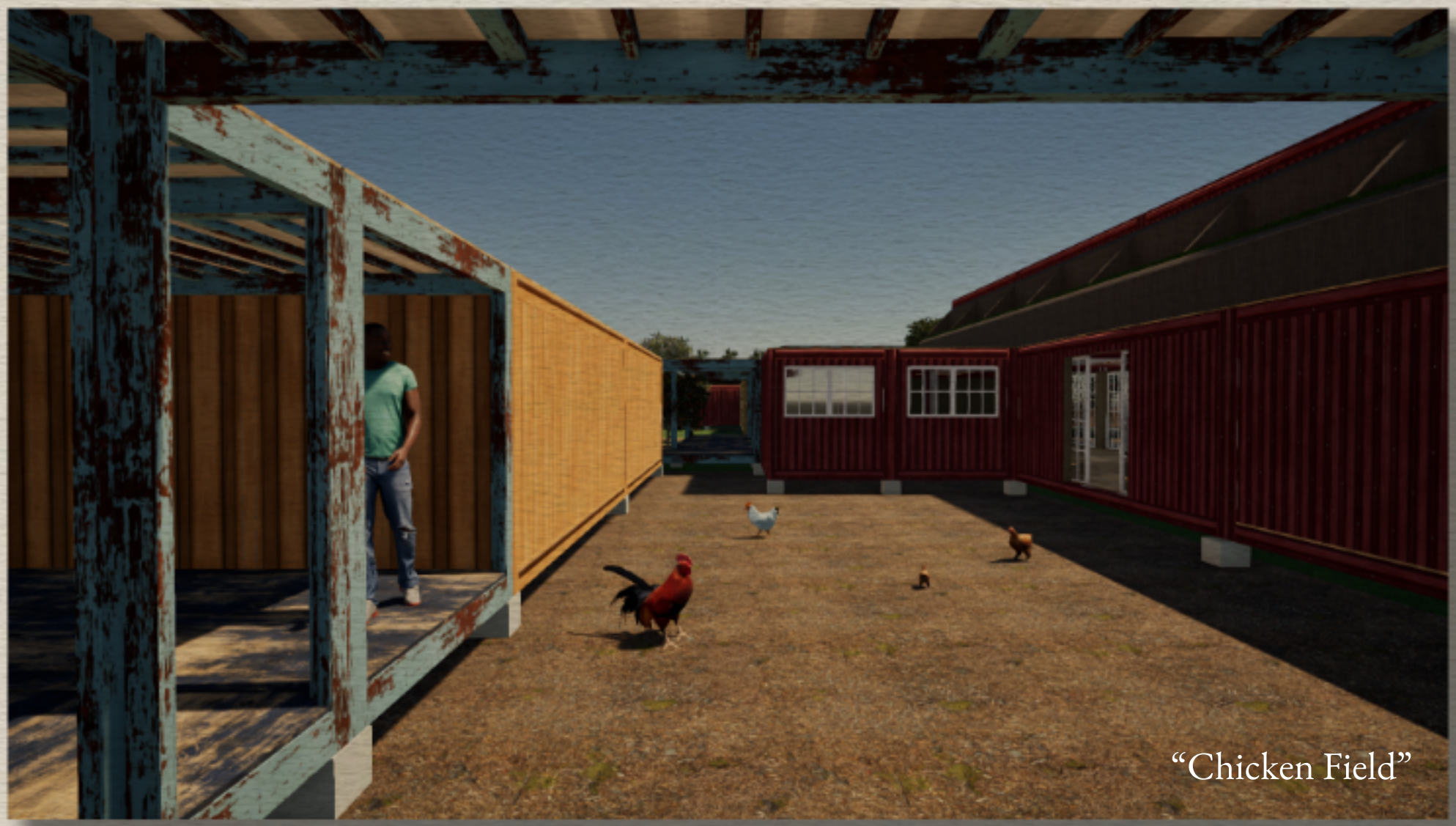
Rendered by Twinmotion



“Fruit Trees”

“Interior Perspective”

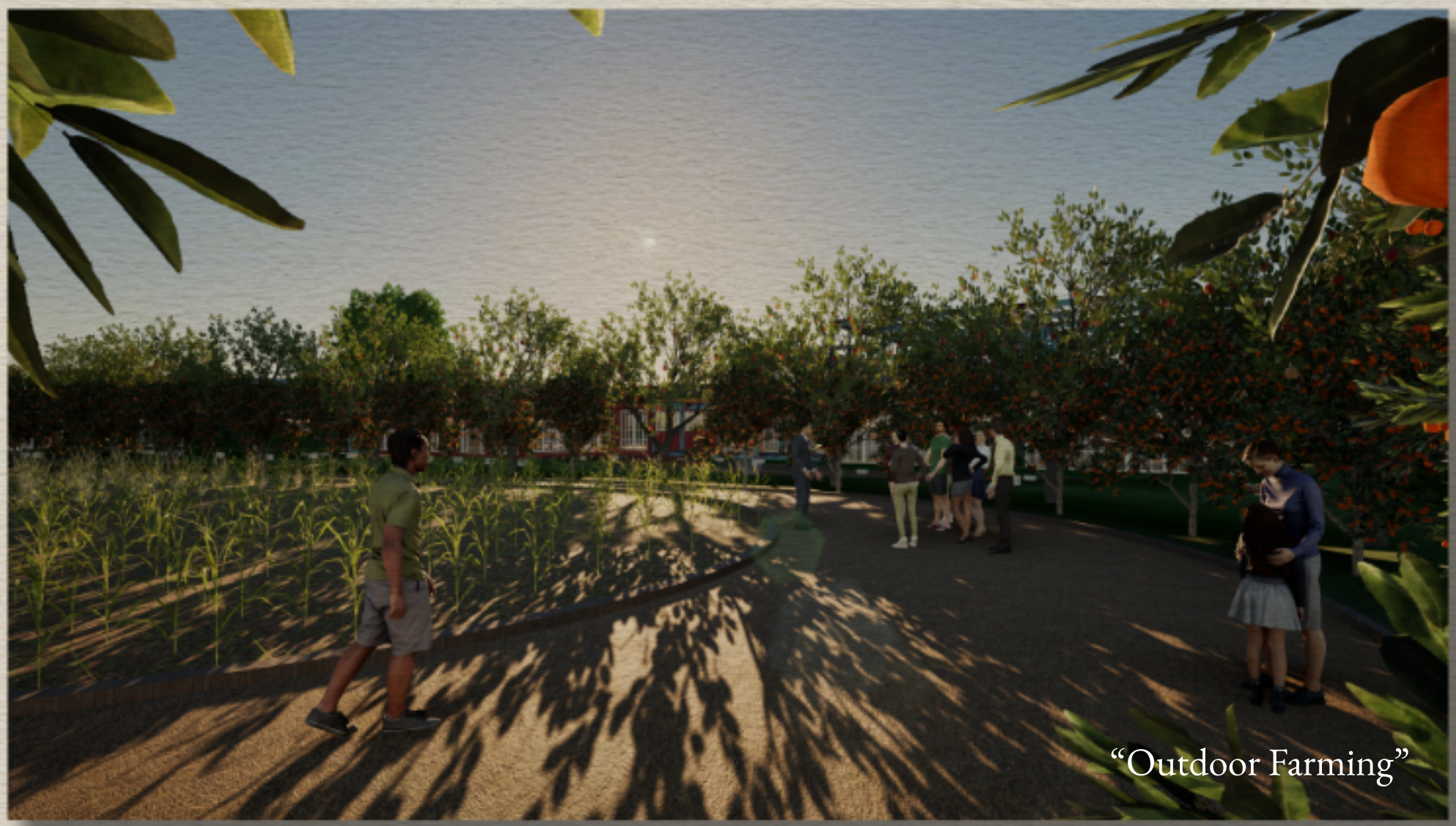
Rendered by Twinmotion



“Chicken Field”

“Interior Perspective”

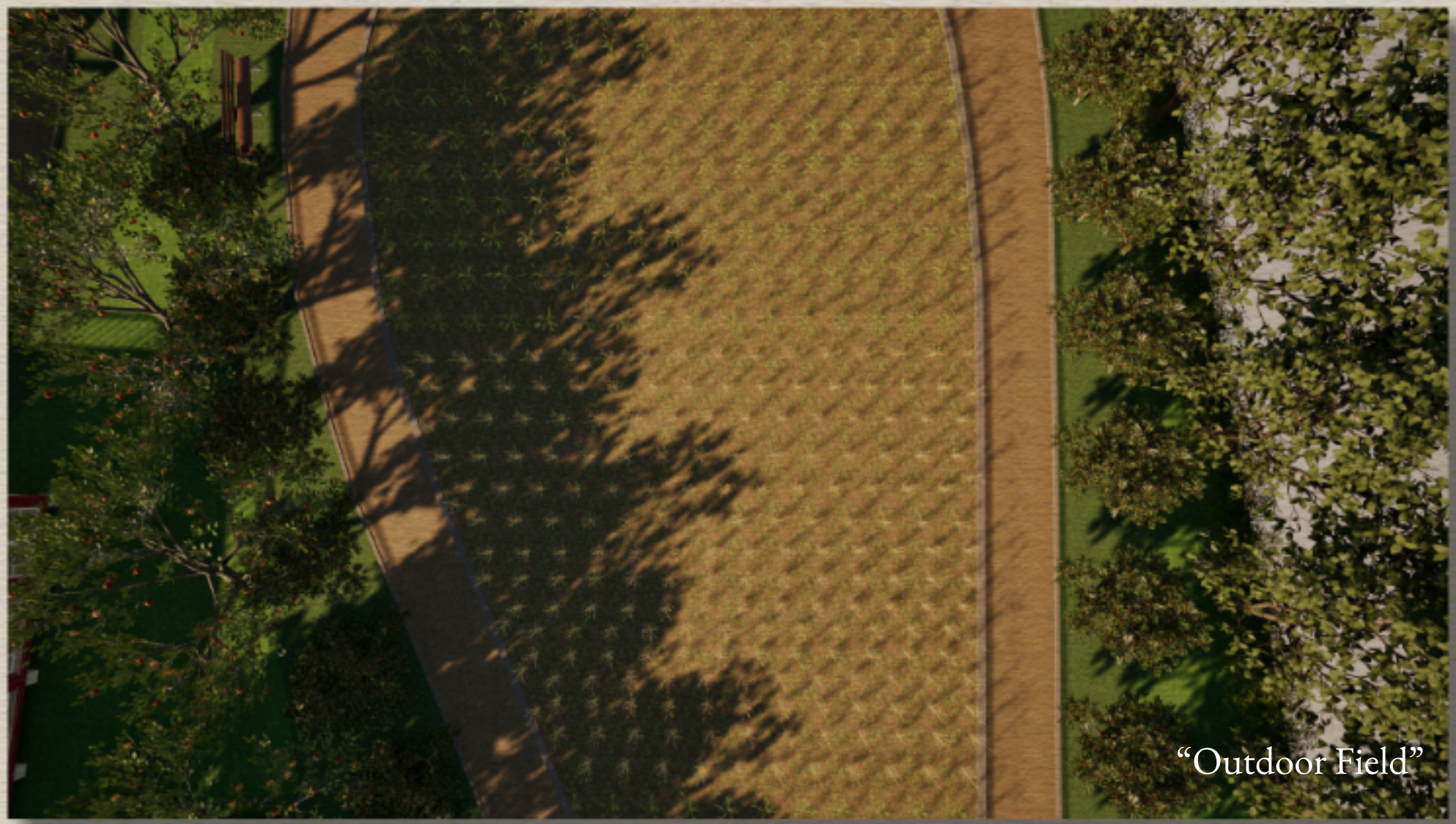
Rendered by Twinmotion



“Outdoor Farming”

“Interior Perspective”

Rendered by Twinmotion



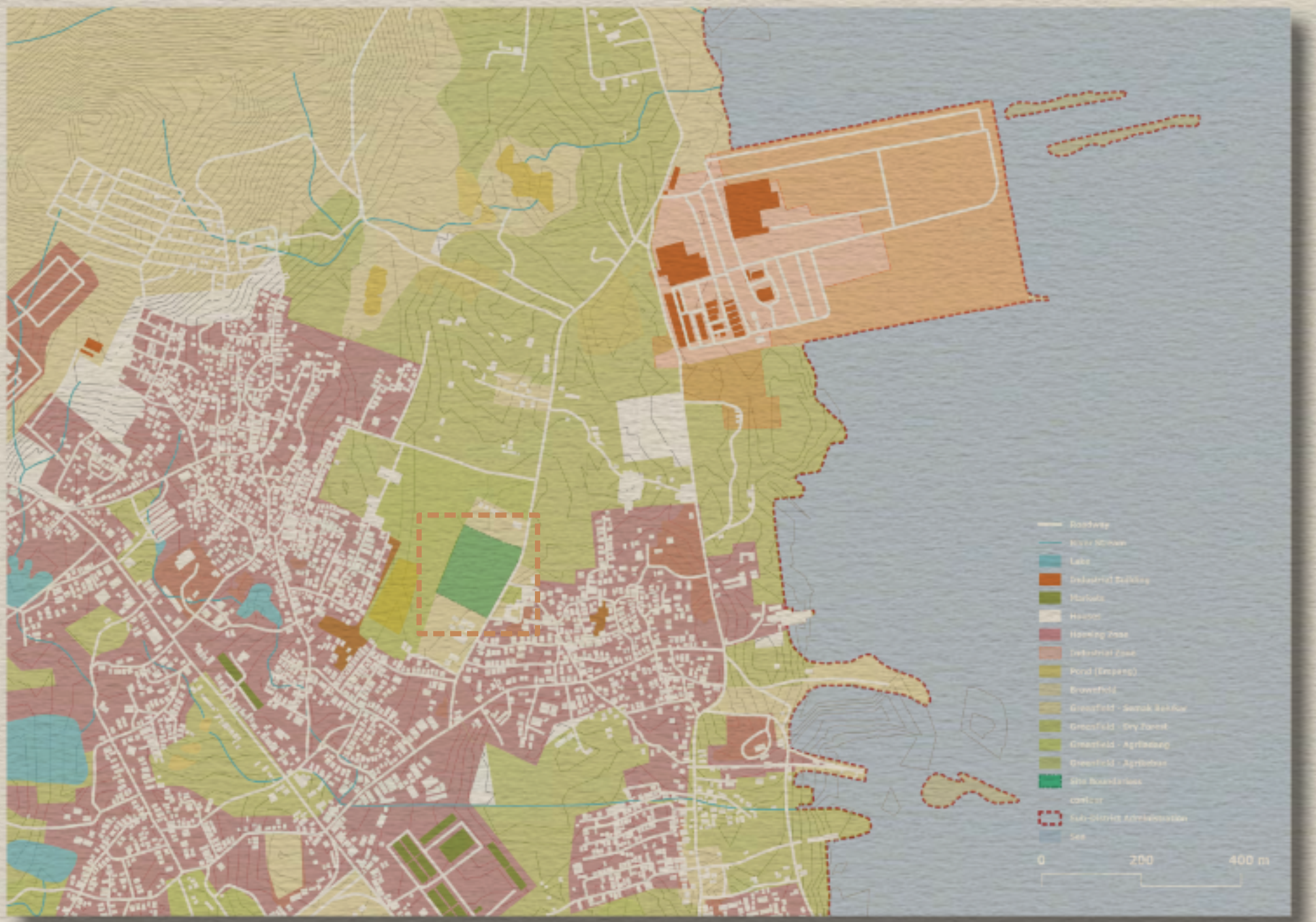
“Outdoor Field”


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INDONESIA

VI | *reflection & evaluation*

“How do you handle the smell from Chicken Faeces”

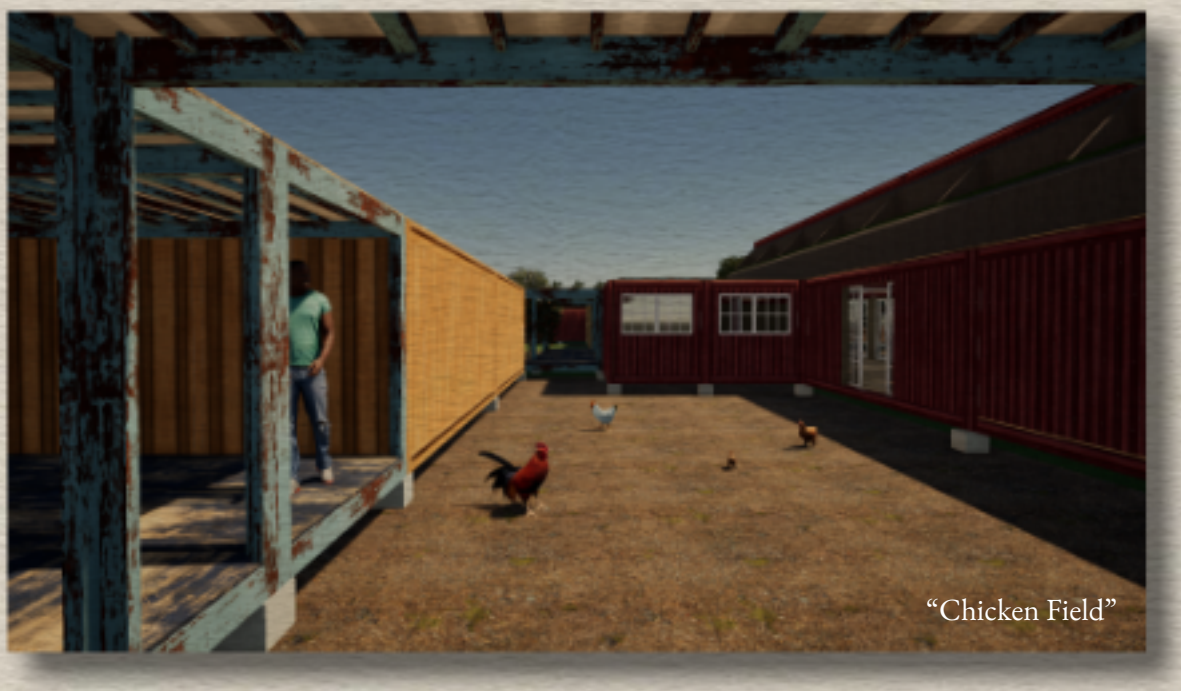
1st Jury: Ir. Wiryono Raharjo, M.Arch., Ph.D.



The location of the site, which is in the middle of a settlement, has advantages in terms of accessibility. People can visit in a relatively short time and the distribution of crops is also easier. Choosing a site that is quite far from the industrial area as a form of preserving agricultural quality.

Although it is in the middle of a settlement, it is still at a safe distance for the smell of chicken manure to reach the settlement. The closest distance from the chicken field area to the nearest settlement is about 500 metres to the south. Passing through many trees and structures that block the smell.





"Chicken Field"

Not only about the distance, the position of the chicken field is in the middle and leans to the north of the site. Around the site, tall plants such as Ketapang (indian-almond) trees are also given which are sufficient to block the aroma of chicken manure.

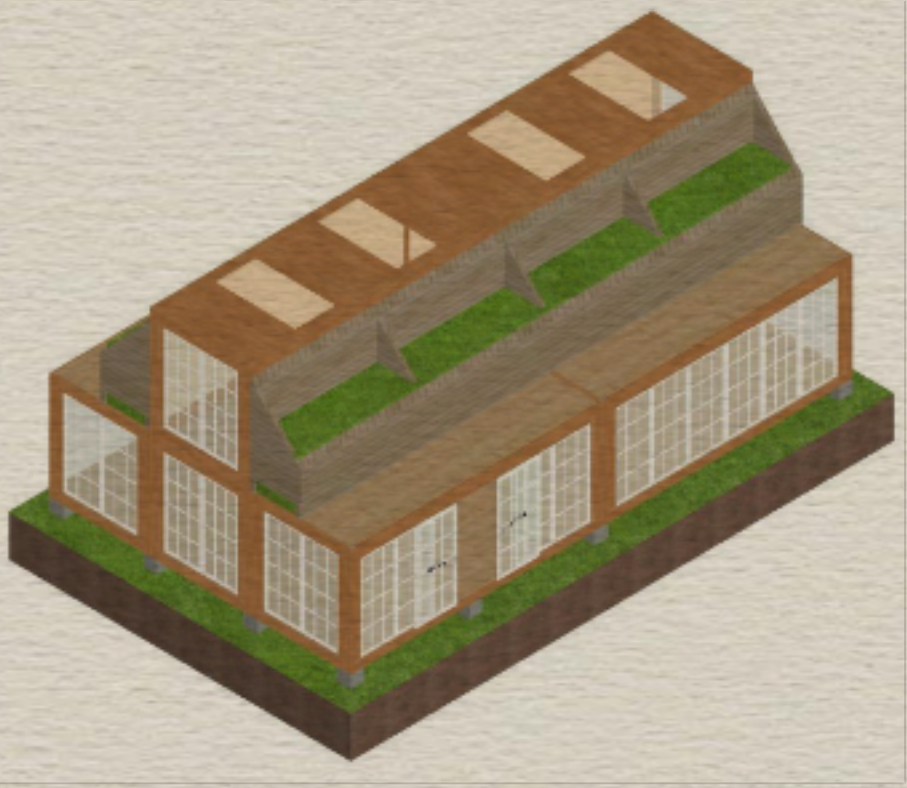
“Make a model of at least each type of function with a container to show the activity and usability”

2nd Jury: Johanita Anggia Rini, S.T., M.T., Ph.D.

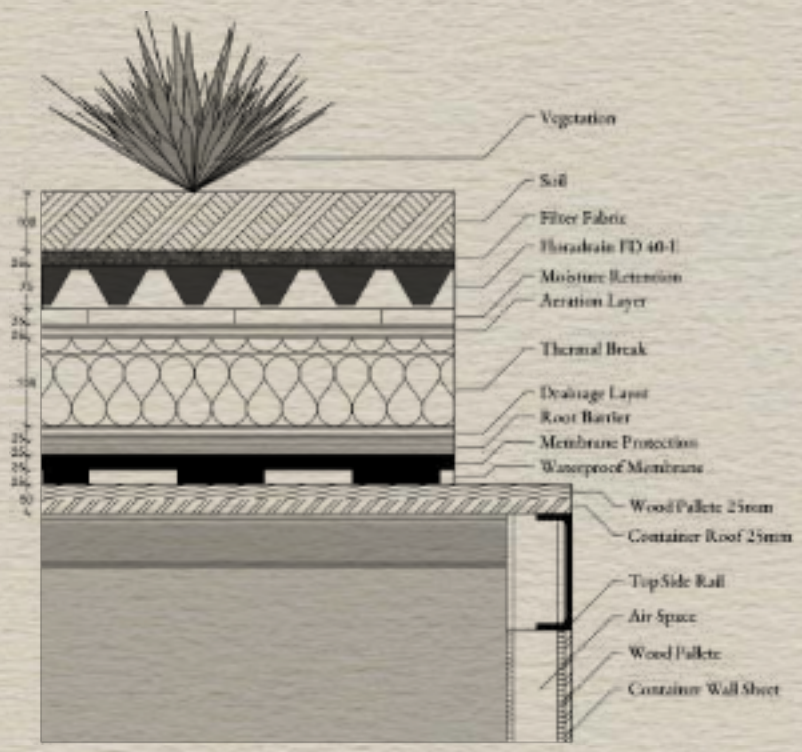


One of the farming activities in MicroPublicFarms is Hydroponic Farming. Hydroponic farming is a method of growing plants without soil by using a nutrient-rich water solution. This technique allows for precise control over the nutrients that plants receive, making it possible to grow crops in environments where traditional farming would be challenging, such as urban areas, arid regions, or indoor spaces.

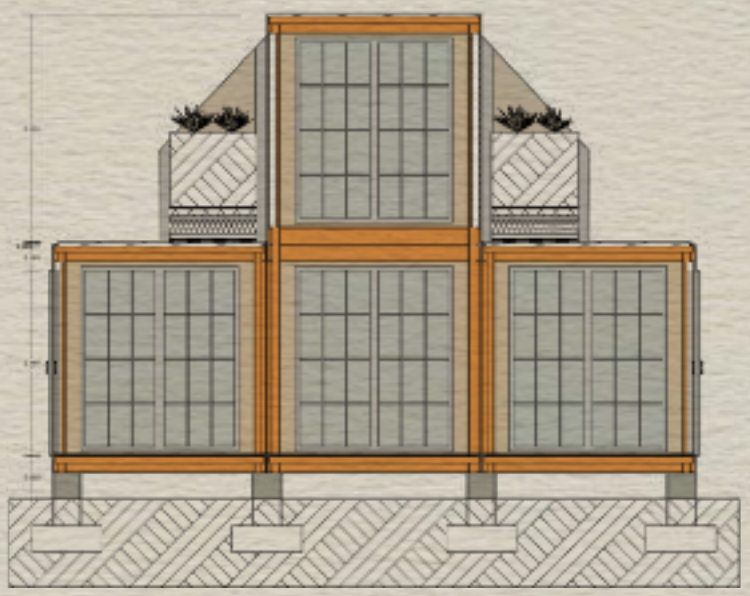
Plants often grow faster in hydroponic systems because they have direct access to essential nutrients and an optimal environment. Nutrients are delivered directly to the plant roots in a water-based solution, allowing for more efficient uptake and minimizing waste. Hydroponics allows for vertical farming and dense planting, which maximizes the use of available space. This is particularly beneficial in urban areas where land is limited.



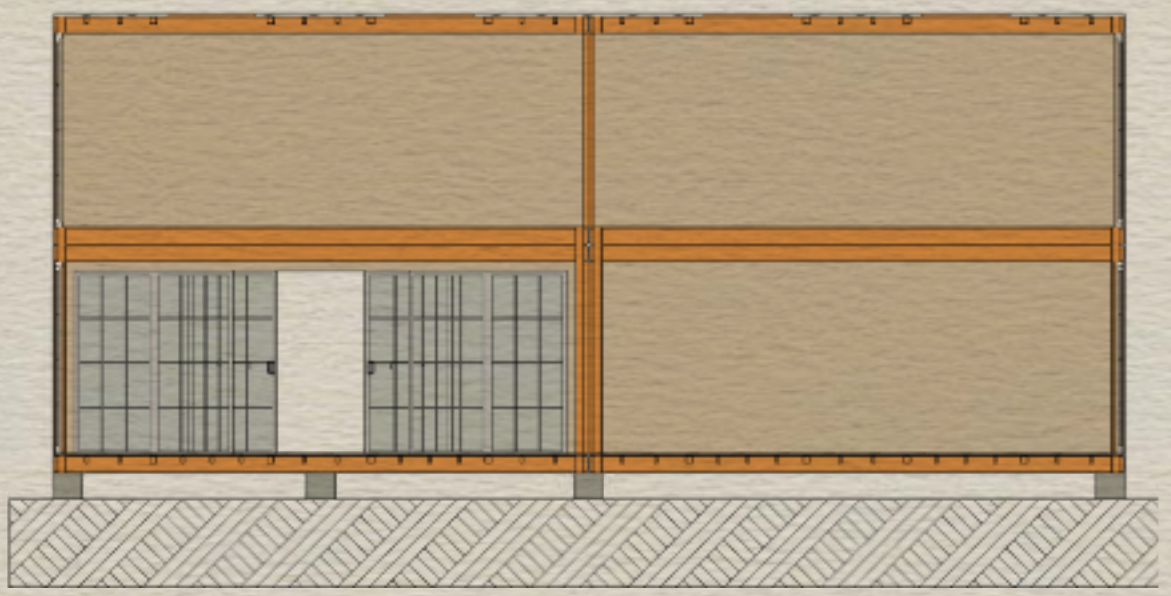
Hydroponic Farming Typology



Detail Section 1:10



Building Section 1:50



Building Section 1:50

“Attachments”