

CELVIN CHOONG
architecture portfolio

URBAN INCUBATOR

CHOW KIT'S URBAN ROOM INTERVENTION

URBAN DESIGN STUDIO | INDIVIDUAL | CHOW KIT, KUALA LUMPUR | 2021

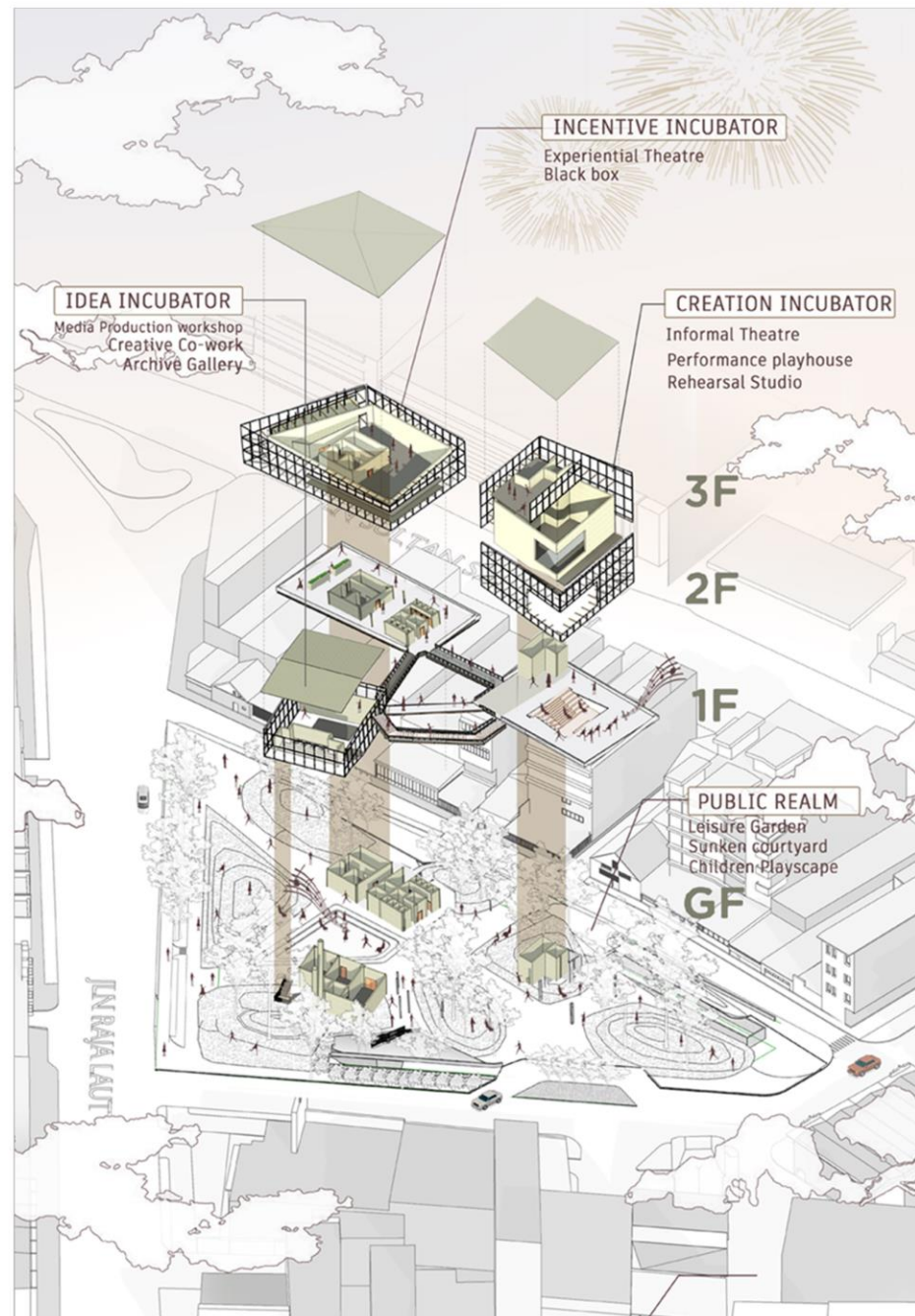
The streets are filled with excitements, all are very excited for the release of new films. People hop from one theatre to another, just to catch up with different movies. At the fringe of Chow Kit, absence of vibrancy leads to a mundane surrounding on the site. But not today. Chow Kit has gone older & older. Site become a wholesale district where the locals describe it as a “ghost town”. At the fringe of Chow Kit, absence of vibrancy leads to a mundane surrounding site.

Urban Incubator aims to cultivate Chow Kit's past culture to create a common ground where a communal experience can be foster through Culture & Arts of Chow Kit. The goal of Incubator has been to create architecture that seamlessly co-exist with the trees, providing a peaceful and inspiring art community for both its occupants and visitors. Three masses are then connected by multi-level sculptural terraces that intertwine itself between the existing trees.



Expression Collage_Chow Kit City

Chow Kit's Sense of Place



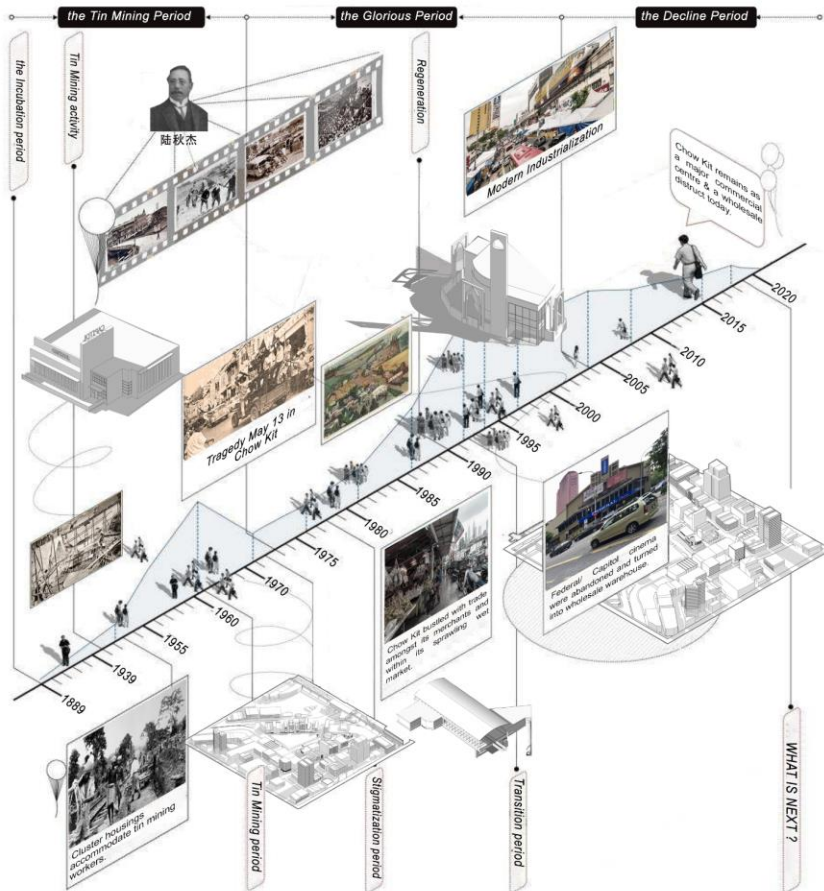
Collective life in Chow Kit



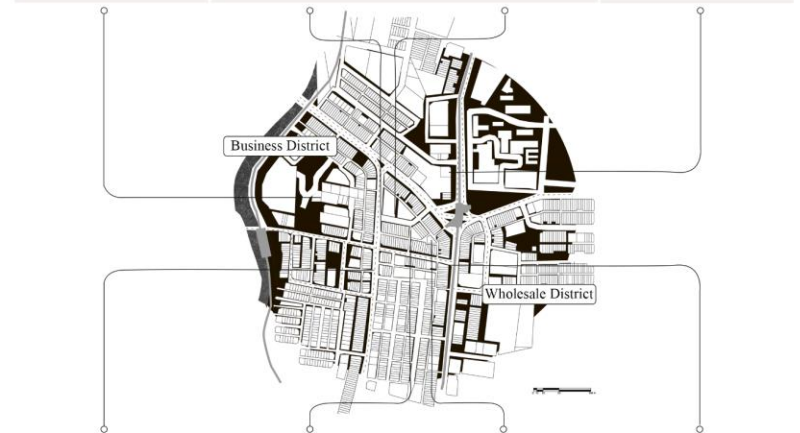
"The relationship that built by each individual will construct the information or memory & blend together become a collective memory."

- Aldo Rossi, *The Architecture of City*

Timeline of Chow Kit



A Day in the life during 1970s



| | | | |
|------------------------------------|---|----------------------------|----------------------------|
| Old man staying at 5 foot walkway. | Only local workers & transient group passed by. | Street Children loitering. | Lack of social night life. |
| 8:00 a.m. | 10:00 a.m. | 3:00 p.m. | 6:00 p.m. |



A Day in the life during 2020



Jln Raja Laut

JLN RAJA LAUT

Lorong Tunku Abdul Rahmah Kiri 4

Jln Lengkor Raja Laut

Service Bay

Community Gardening

Sunken Courtyard

dorm
dorm
stor
Management office

Switch Room

MDF

Informal Theatre

Community Gardening

Kids playing zone

OUT

OUT

IN

IN

IN

Y



First Floor Plan

Program & Plans

In order to fulfill the programmatic requirement, the main functions are divided into three main masses which bounded the site, leaving the main tree courtyard as a free open space. Masses are then connected together by multi-level sculptural terraces that intertwine itself between the existing trees.

Upon arrival, visitors are greeted with the project's main feature and driving force in design, a groups of trees in its center. It is this feeling of being completely surrounded by nature in the urban concrete jungle.

- | | |
|-------------------------|---------------------|
| 1. Archive Gallery | 4. Playhouse Studio |
| 2. Media Production | 5. Creative Co-Work |
| 3. Experiential Theatre | 6. Rehearsal Studio |



Second Floor Plan



Third Floor Plan



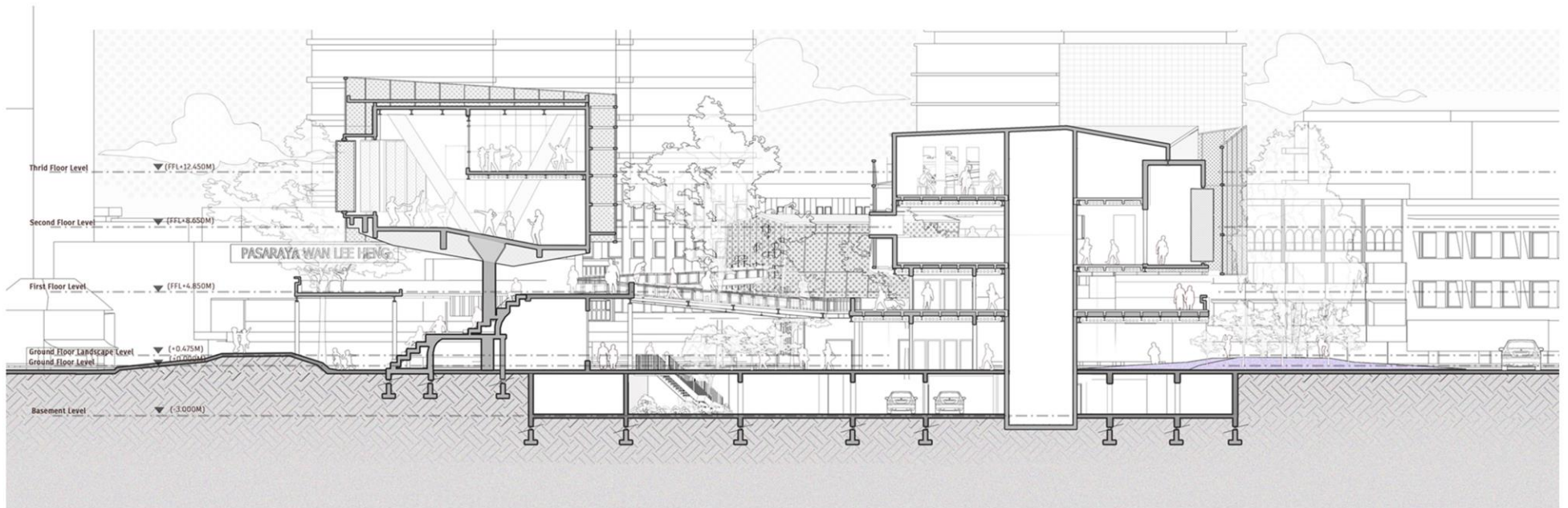
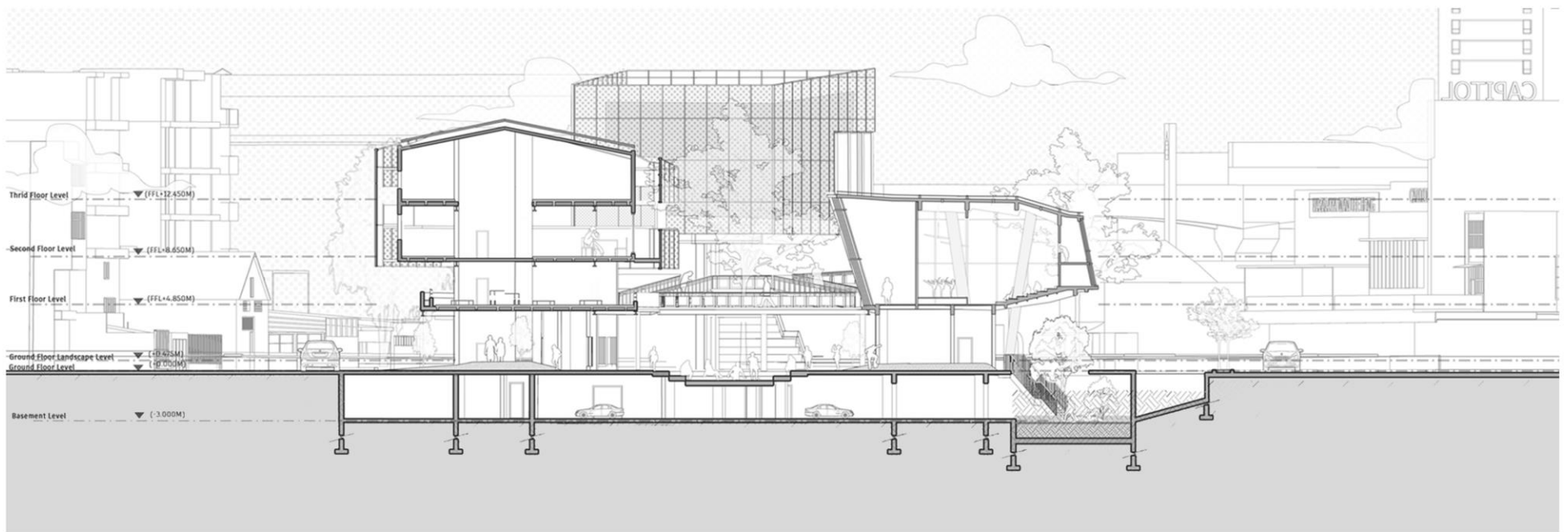
Drop Off Entrance

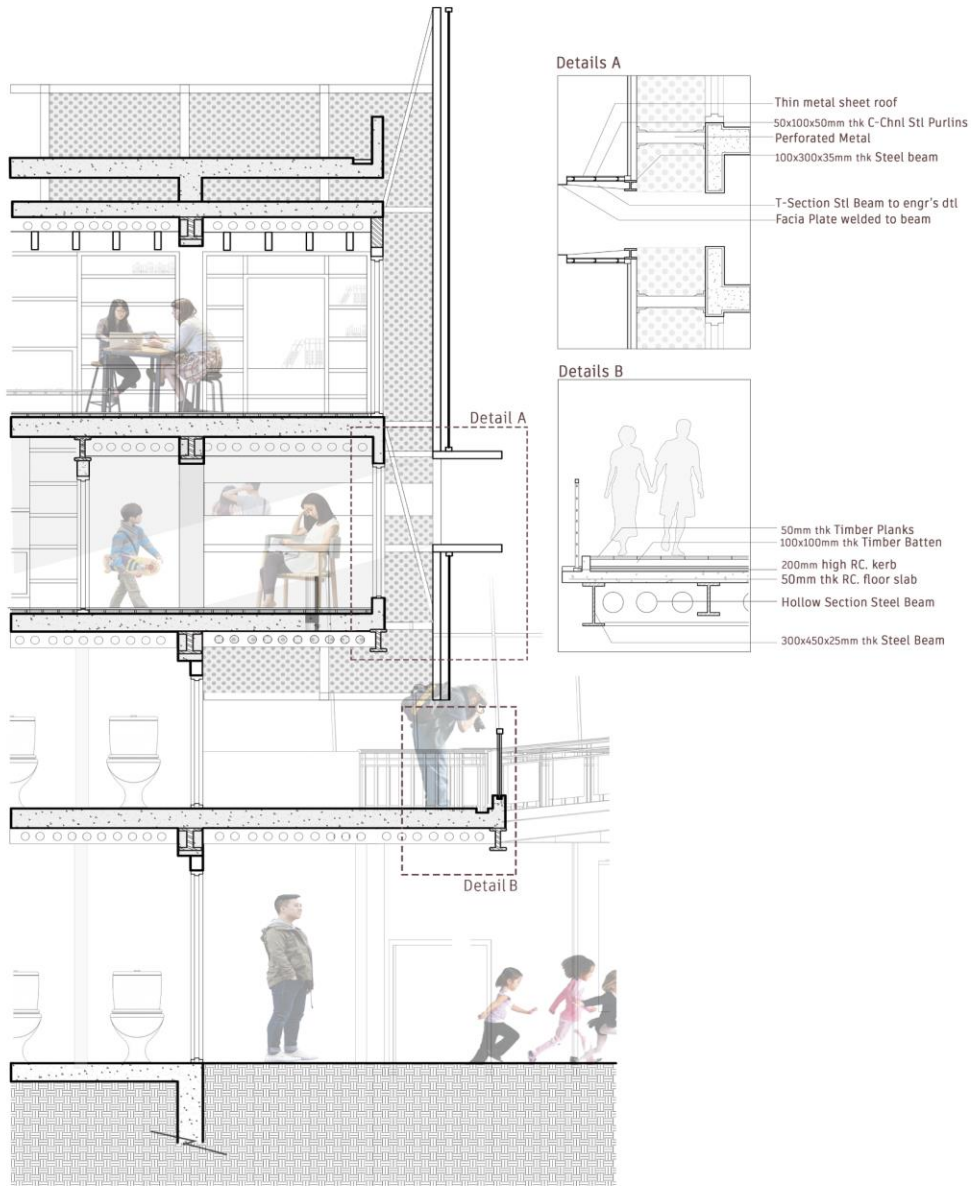
Upon arrival, visitors are greeted with a groups of large, pre-existing trees in its center.



Sunken Courtyard

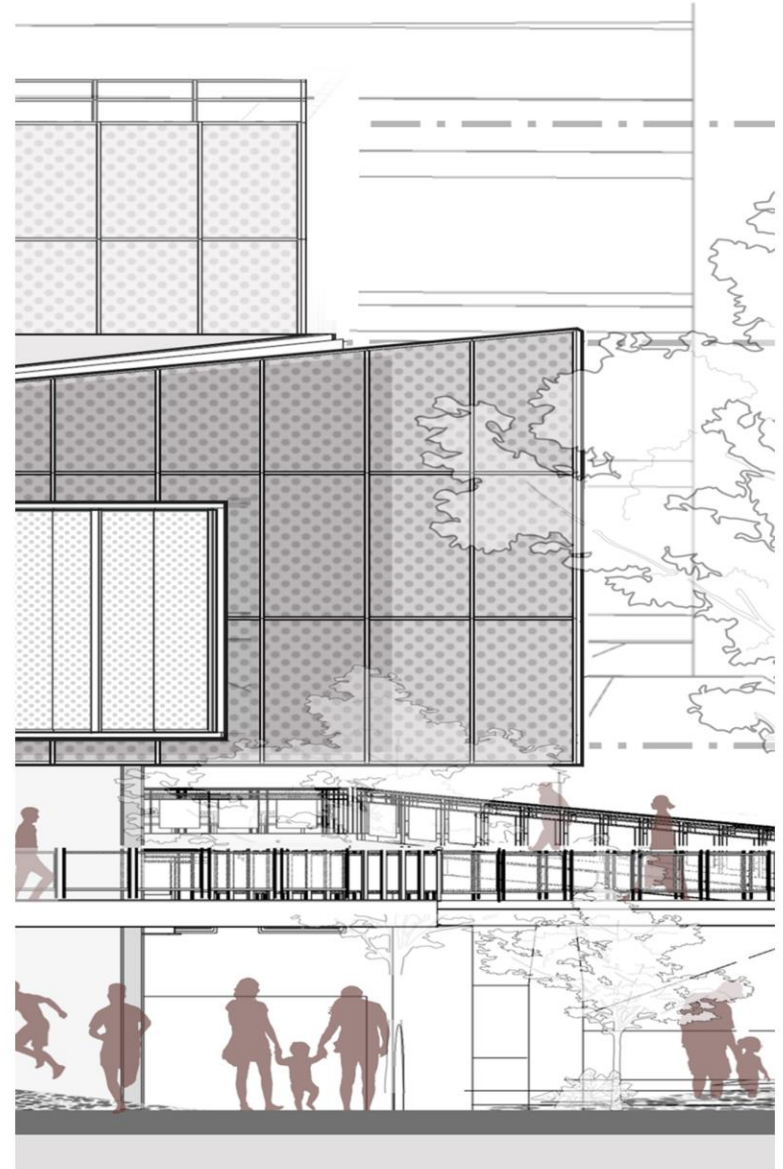
A space for the transit group to sit & stay. Users capture an overview of the three incubators.





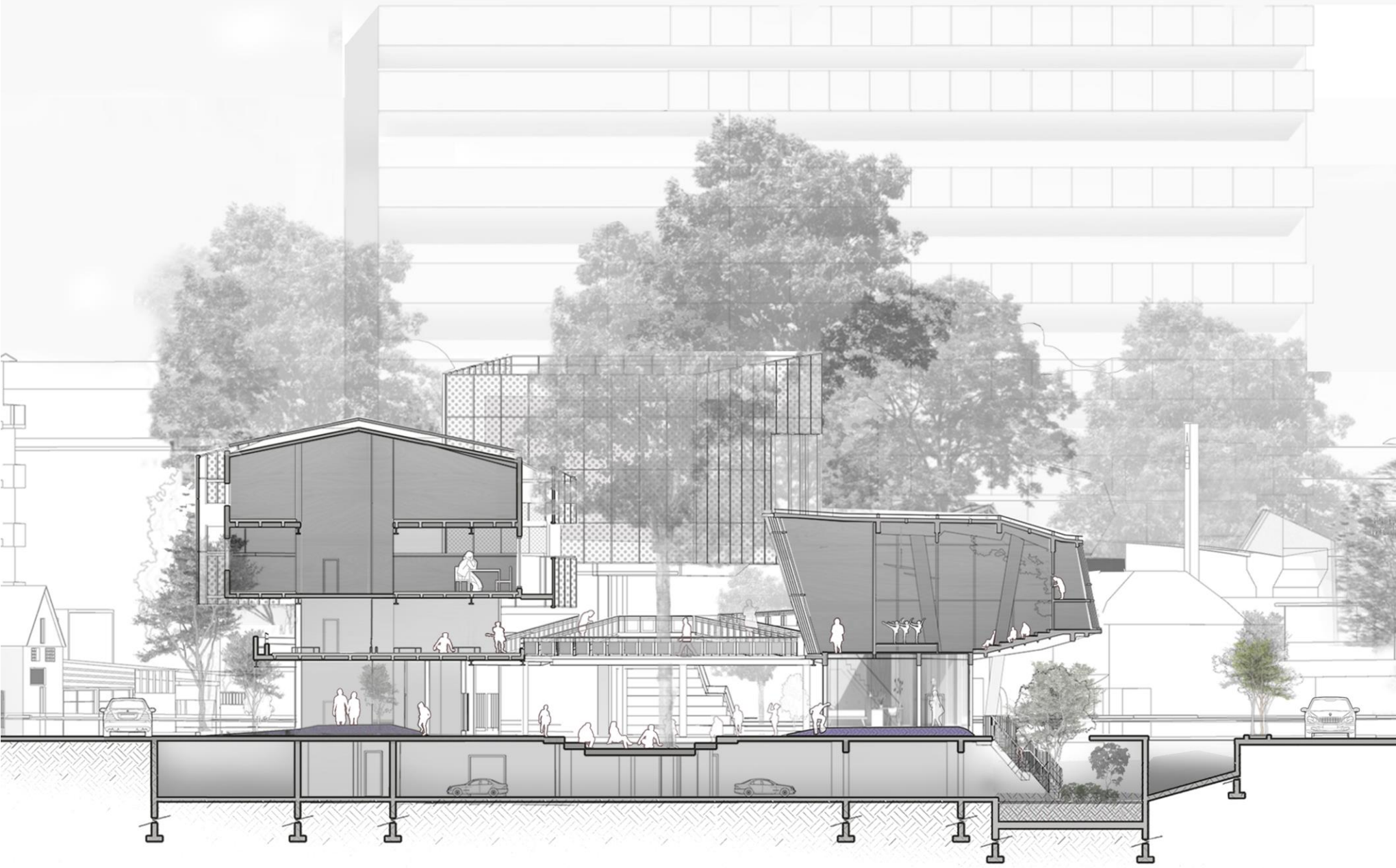
Callout Structural Details

Steel structure intruduces more flexibility navigating the construction around the expanding tree branches.



Materials & Spatial Quality

Perforated metal façade utilized to link the inside to the surrounding urban context & grdualy vanishes into nature.



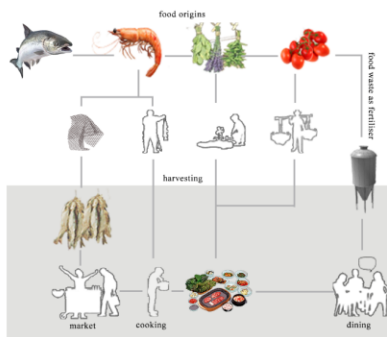
THE LIFE & FOOD CYCLE MARKET

NEIGHBOURHOOD MARKET & FOOD COURT

STUDIO IV | INDIVIDUAL | PASAR LAMA BANGI | 2020

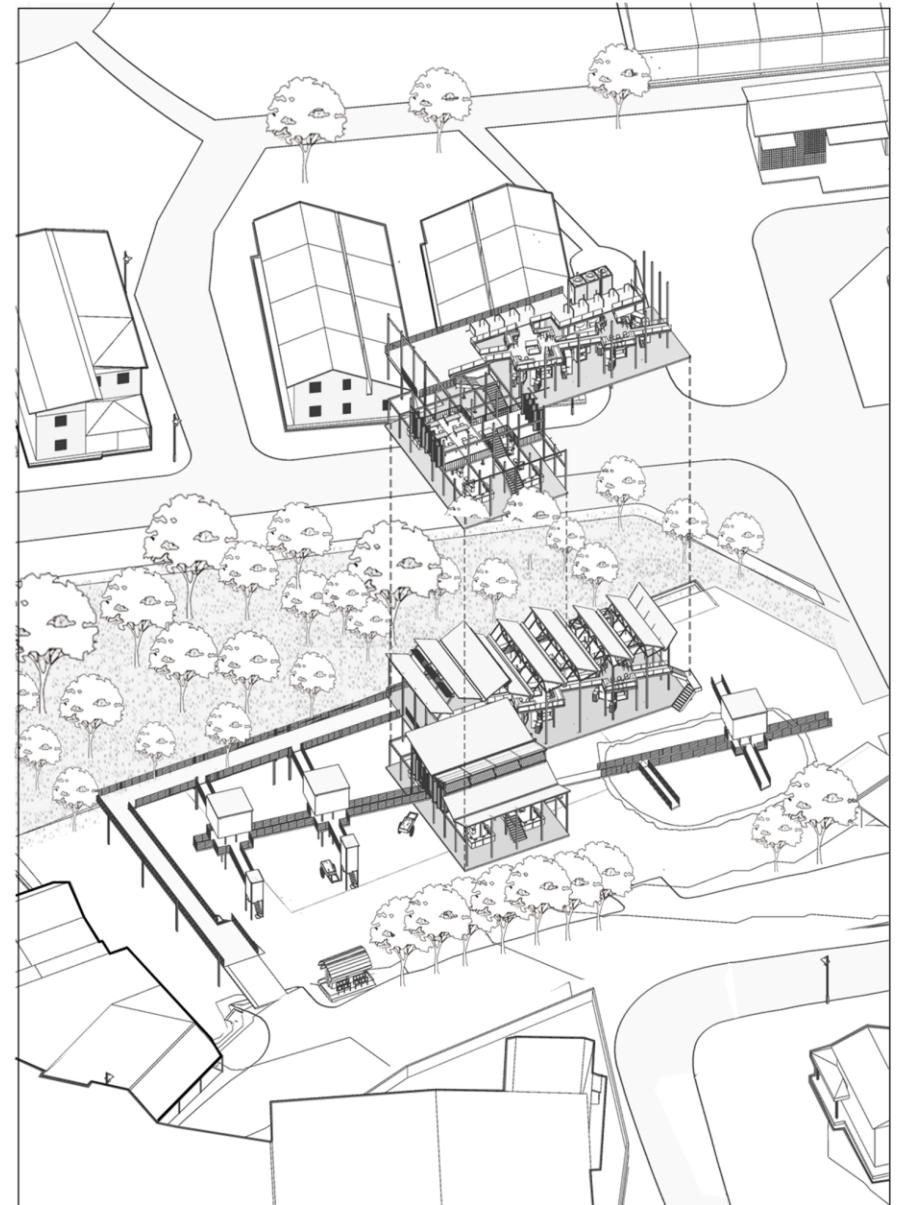
Pasar Bangi Lama is a market building in Pekan Lama Bangi that serve 146 capacity but now only caters 6 operating stalls. The vendor activities often operate in isolation. Market such as *Pasar Basah Bandar Baru Bangi* predominantly serve locals and have become neighbourhood icon. The market building in Pekan Lama Bangi has the potential to do the same. The idea is to regenerate the site conditions by revitalise the old market building into an educational ground & community market.

A community garden extends the landscape and forms an urban farmland for sustainable farming by locals. The design takes full advantage of landscape to increase user connectivity to natural environment through the proposed urban farming & biophilic pond to ensure food are "fresh on site". Most importantly, the architecture is designed to exposed entire food cycle, from it's origin till decompose. It is aim to be porous & transparent to maximize integration between Bangi Lama



CONCEPT DIAGRAM

The Life & Food Cycle





ZONING
Block shifted allow visual expansion from 1st floor.



LET THE GARDEN IN
Expand landscape from community garden into the site.



PATH AS SPACE
2 point of interest through interlocking mass.



FREE-ING ARCHITECTURE
Post & beam structural emphasis overall visual porosity.



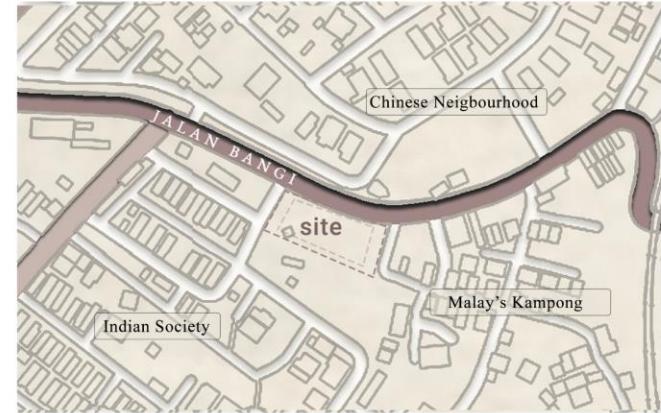
INSIDE OUTSIDE RELATIONSHIP
Similar interior layout from inside and outside.



LIFE & FOOD CYCLE MARKET
Experience each stages of food production in the market.

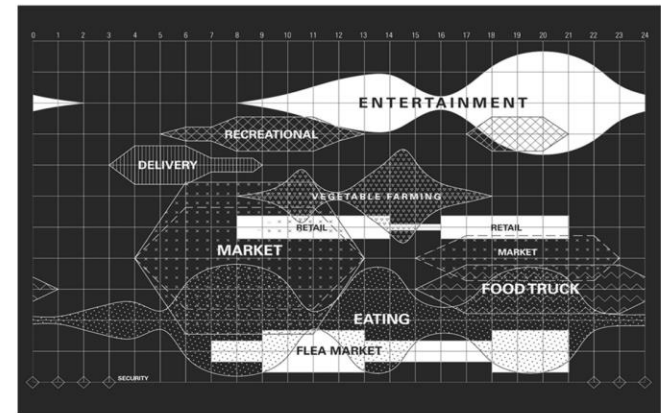
MASSING DEVELOPMENT

Model making as a tool to visualise the different countour level in site context.



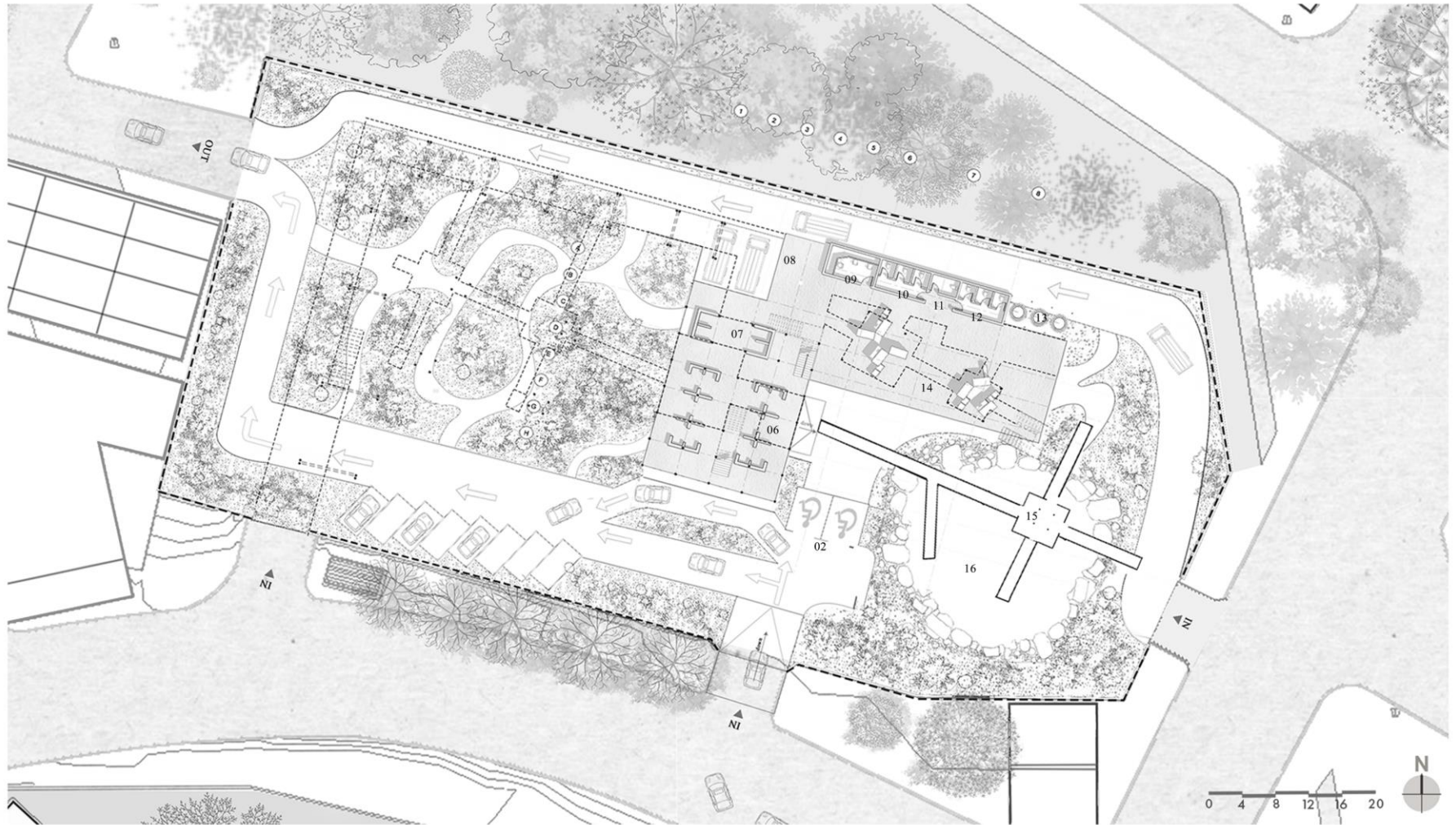
BANGI LAMA SITE PLAN

Site in situate at the center of the 3 Bangi Lama's Neighbourhood community.



PEAK HOURS & PROGRAMS

A combination of new & existing programs to suit the local Bangi Lama's community.



THE LIFE & FOOD CYCLE MARKET

GROUND FLOOR PLAN

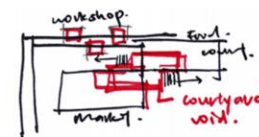
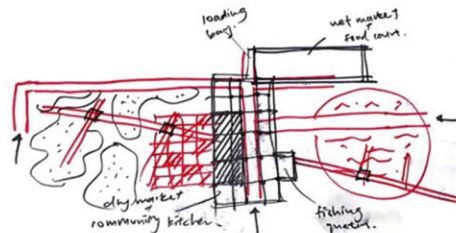
The aim for this project is to expose the entire food cycle & dramatized by the building. All members of the Bangi Lama community help to complete each stage, allowing the market to become a platform for group learning and gathering activities. Community participation extends and completes the life cycle of local foods, which is a symbiotic relationship.

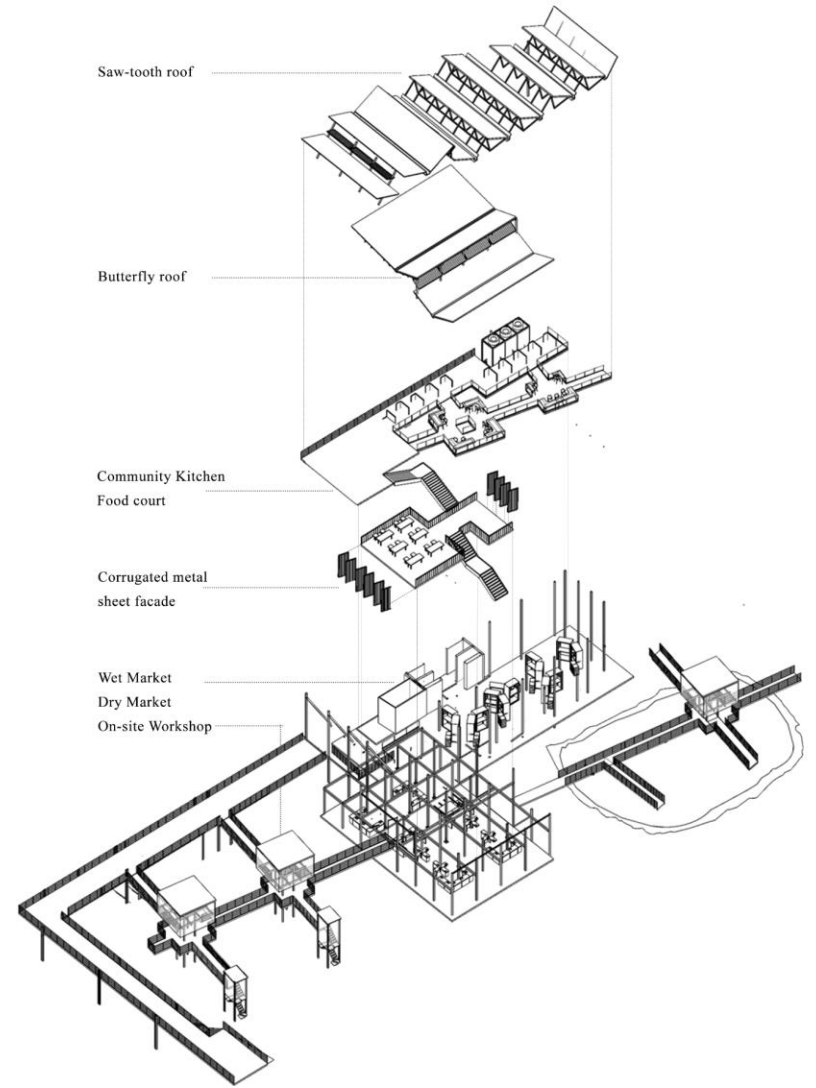
A life cycle for people and food in the market, & a market for people and food.



THE LIFE & FOOD CYCLE MARKET

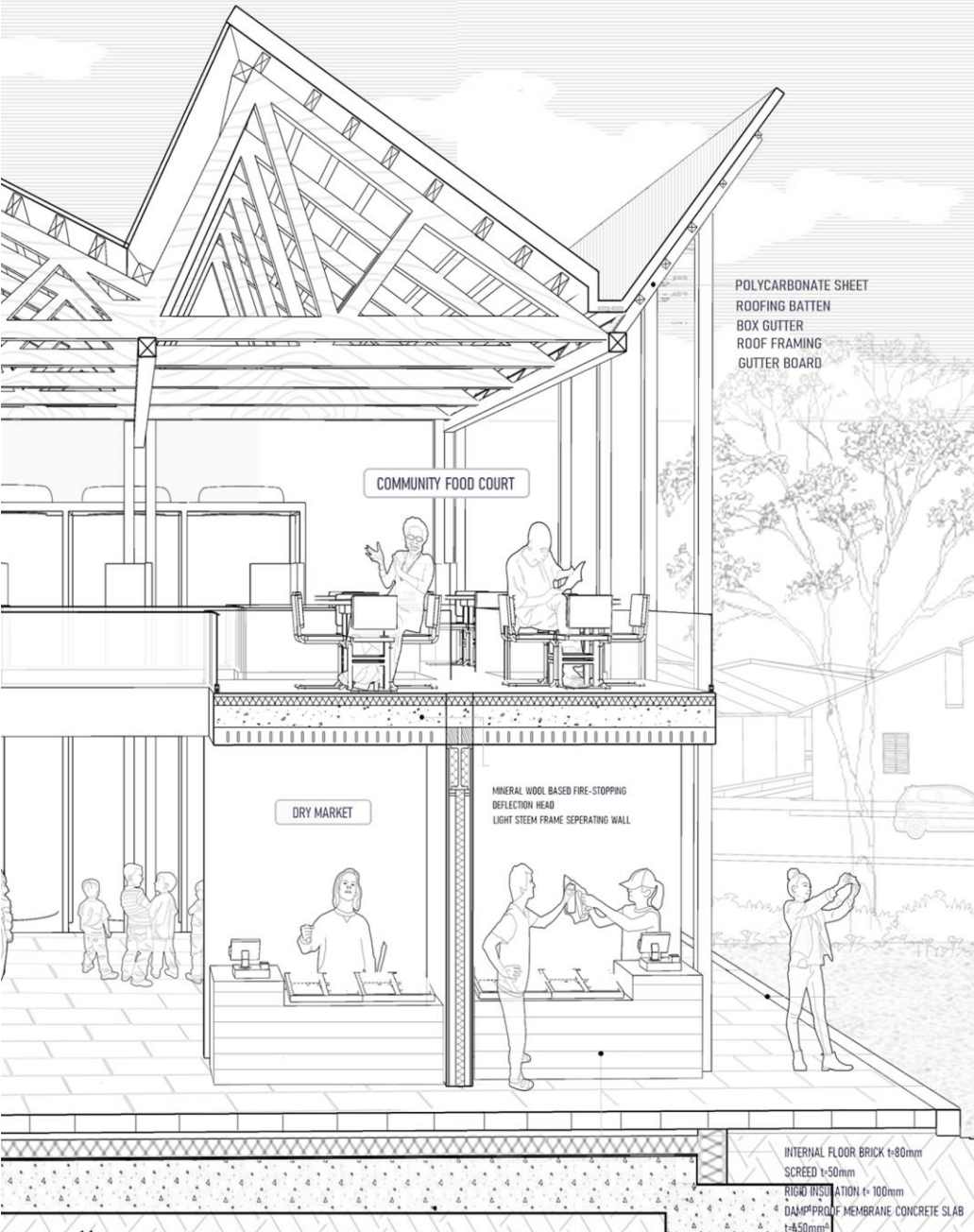
FIRST FLOOR PLAN





EXPLODED AXONOMETRIC

New programatic relationships established & each space has a constant connection to the outdoors.



Materiality & Spatial Quality

Food court (above), Dry Market (ground)
 Perspective

THE LOOP TECTONIC

1:1 BAMBOO TECTONIC INSTALLATION

STUDIO I | GROUP INSTALLATION | 2019

Collaborator: Ng Si Hao, Wong Hao Nam, Lim Hong Xiang,

Alya Sofia, Soon YI Herng

Role in team: Group Member

Main works in group: Bamboo Research (70%)/ Prototypes (80%)/

Installation (90%)/ Photography (50%)

Instead of form finding physics and human anthropometry, our strategy took the reserve approach by first designing the final form, and then implement a structural system that would stiffen to achieve desire spatial performance. The chosen banal activity was lying, connecting banal behaviour and ergonomics. A smooth and curve surface is suitable for human comfort when performing a lying posture. We break down further the complexity of rigid structure with bamboo and opt for a more fluid structure that best

suits for human lying posture. The concept of *loop* is intentionally to spark *face-to-face* conversations between the users. Bamboo poles are used for base structure and support. Bambo strips are used as weaving and facade materials. Weaving pattern offers aesthetic shadow pattern into the interior. My significant contribution to the project includes design development, final bamboo installation production, 2D Orthographic drawings as well as photographing.

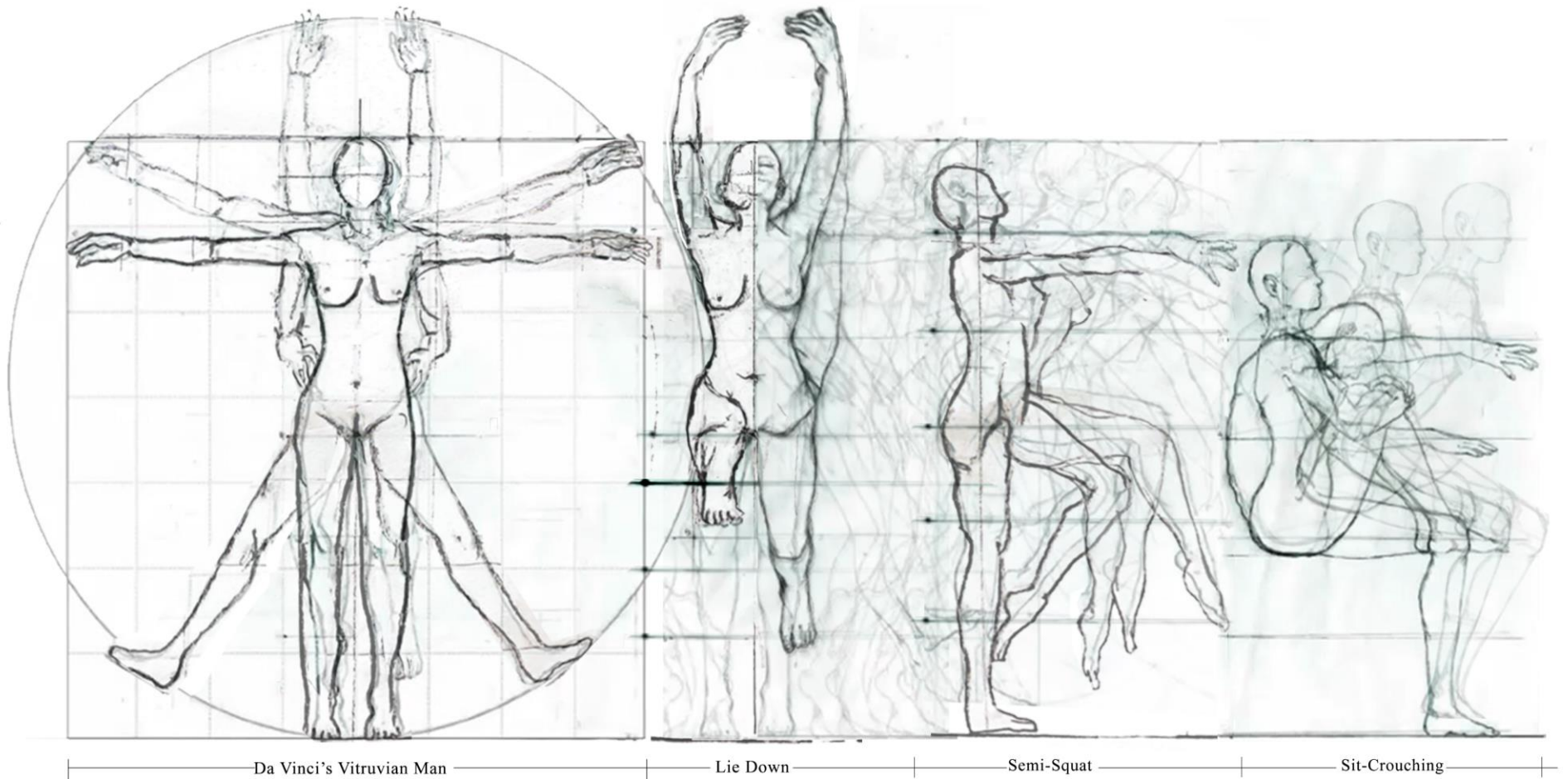


PHYSICAL MODEL

BAMBOO TECTONIC INSTALLATION

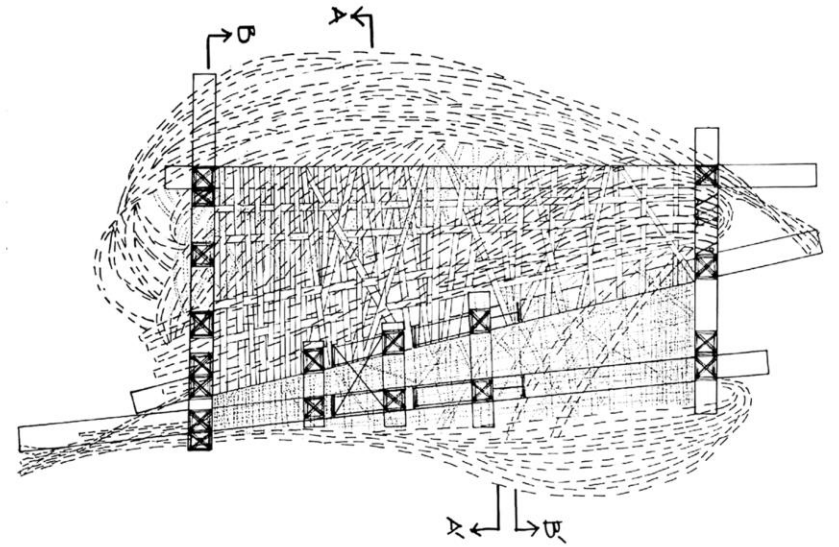


Human Ergonomics & Anthropometry



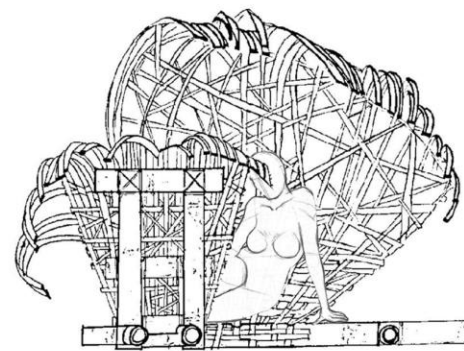
Banal Activities for the Tectonic Structure

Hand Sketches illustrate the *movement process of a human entering/ exit the bamboo tectonic structure*. It serve as an inspiration and basis knowledge undertandig human body in micro-space.

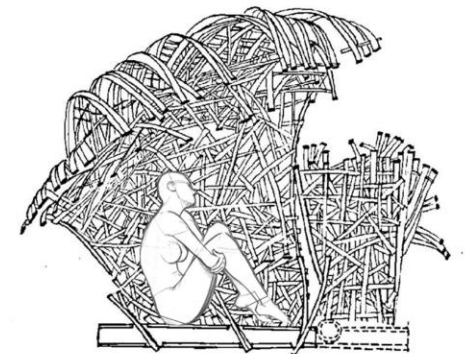


Bamboo Tectonic Plan

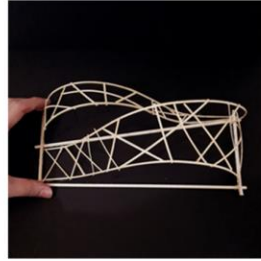
Bamboo Splines stripped and poles used as the main supporting structure. Facade and seating platform were installed by weaving the bambo strips.



Bamboo Section A-A'

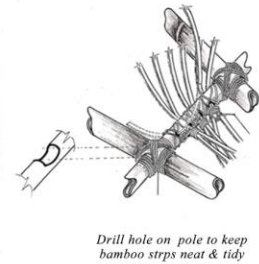
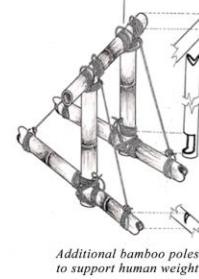
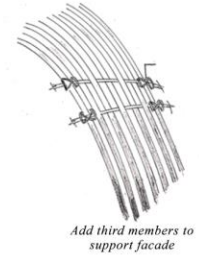
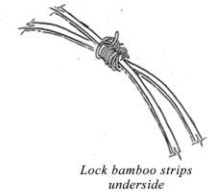
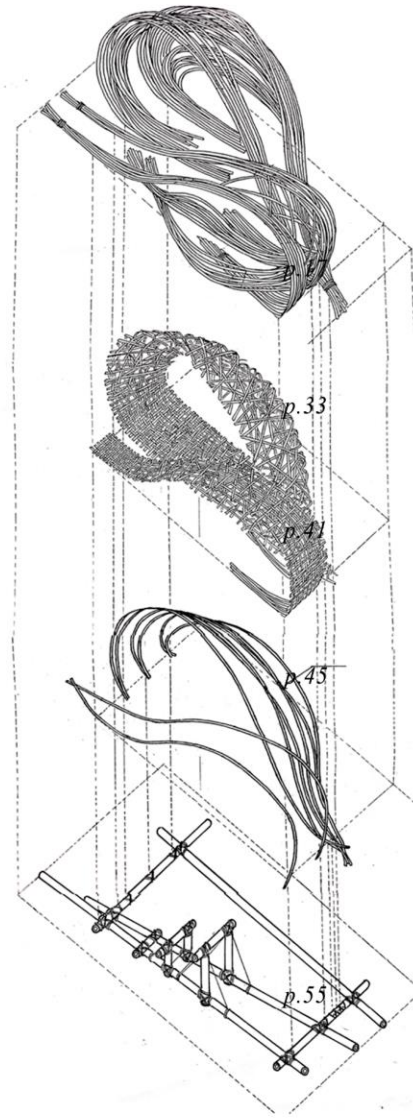


Bamboo Section B-B'



1. Mark test model intersections
2. Weaving bamboo strips
3. Initial form exploration
4. Pop up grid at base
5. Lock bamboo pole underside
6. Tighten bamboo connections
7. Perspective from interior
8. Add facade as outer skin
9. 1:1 Bamboo Tectonic

| | | |
|---|---|---|
| 1 | 2 | 3 |
| 4 | 5 | 6 |
| 7 | 8 | 9 |



EXPLODED AXONOMETRIC

Exploded axonometri drawing shows bamboo joinery & construction details



THE MINIATURE SHELTER

EXPLORE NATURE AND ARCHITECTURE

DESIGN WORKSHOP | JANDA BAIK, PAHANG | 2018

Collaborator: Alicia Sew ZiYin, Lee Zheng Yi, Celvin Choong

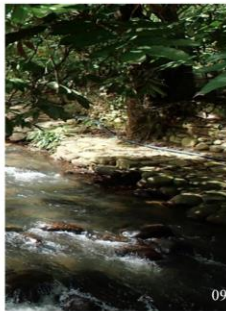
Role in team: Group Member

Main works in group: Site Research (80%) / Prototypes (70%) /

Installation (90%) / Photography (50%)

This Design workshop led me to discover the relationship of man to nature and of architecture. The elements of the natural world are useful in shaping architectural design. Architecture built within the natural landscape represents a certain kind of poetic exploration. I marvelled at those design's intergration with nature, which guides me during the development of this miniature shelter. We explore the theme of softscape, water and architecture. In this exercise, we were to built a miniature shelter for a given carton character only using natural elements . By utilizing the natural tree vines & leaves from site and the exploration on character's characteristics & behaviour, we developed a hanging shelter by the riverside.





- 1,2 Nature elements from site : **leaves, water, tree vines.**
3. Record site measurements and set a boundary.
- 4,5 Assemble fallen leaves. Initial form begin to form.
6. Knit & knotting trees vines to support the shelter.
- 7,8,9 Panoramic view from the site landscape.



FINAL OUTCOME INSTALLATION

Considerations of character's leaping ability, the shelter is intentionally hang on tree. Extra tree vines to secure the shelter & prevent prevailing wind from destroying the shelter.

[DETAILED PORTFOLIO]



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