



**ELIZA  
CAMPBELL**

**PORTFOLIO**

An overview of architectural work  
Completed over three years for the  
Bachelor of Architectural Design  
Degree.

PORTFOLIO

2023

ELIZA CAMPBELL

HELLO



**ELIZA CAMPBELL**  
BACHELOR OF ARCHITECTURAL DESIGN  
2022 | GRIFFITH UNIVERSITY

## S U M M A R Y

### THIRD YEAR PROJECTS

- 06** **Studio Six**  
*Binna Burra Educatation Centre*
- 05** **Studio Five**  
*Womens Transitional Facility*

### SECOND YEAR PROJECTS

- 04** **Studio Four**  
*Baden Powell Community Centre*
- 03** **Studio Three**  
*Paddington Village Shophouses*

### FIRST YEAR PROJECTS

- 02** **Studio Two**  
*IsoPod*
- 01** **Studio One**  
*Temporary Installation*



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## 06 BINNA BURRA EDUCATION CENTRE

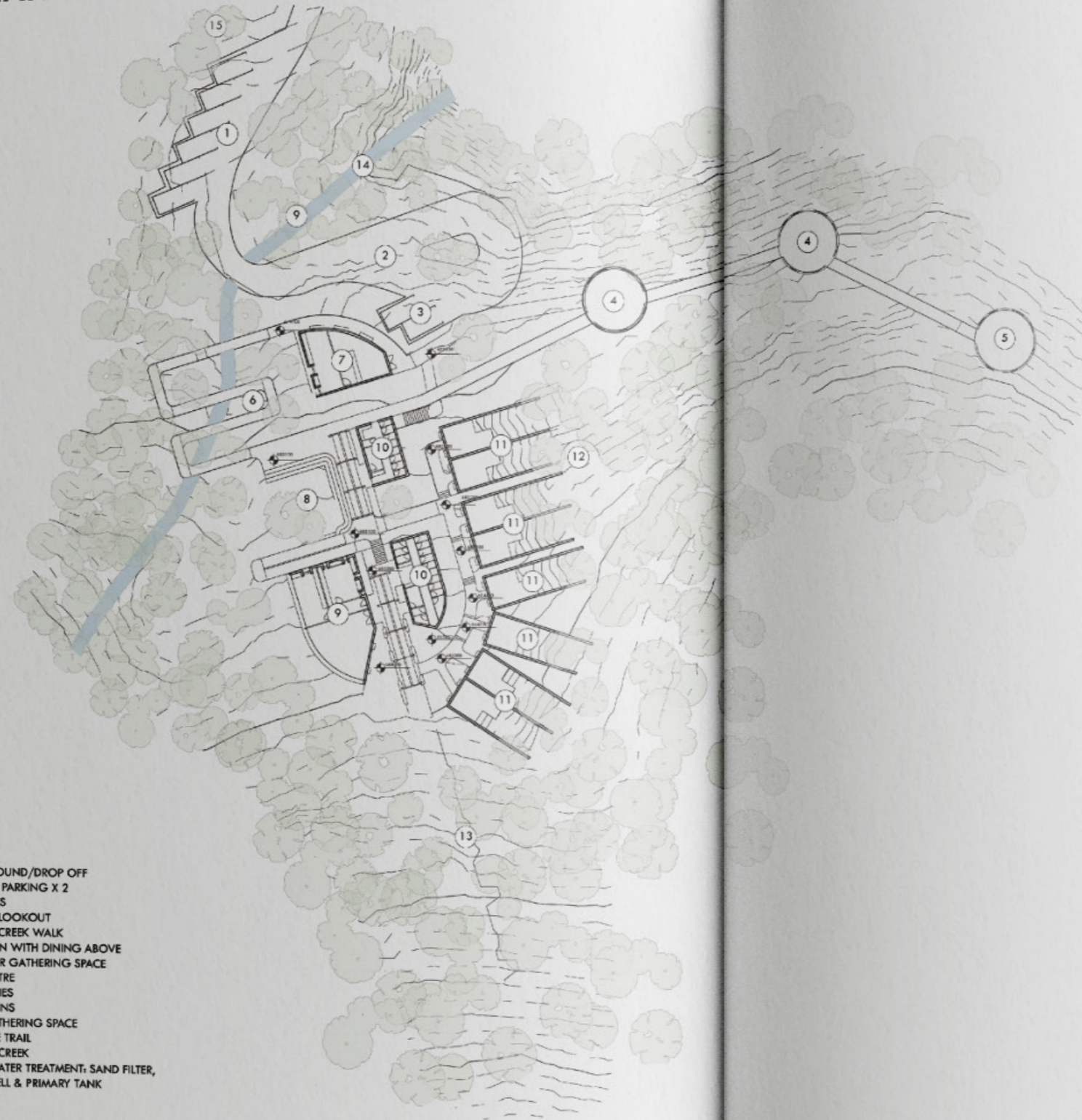
BINNA BURRA, QLD | STUDIO SIX | YEAR THREE

This project focused on the **technical** side of architecture, with an emphasis on designing practical & functional spaces that minimised land clearing and impact on the surrounding world heritage site. Additionally as the site is prone to bush fires, construction had to meet BAL requirements.

In researching the history of the site and the greater Lamington National Park, I found that the area had gone through tremendous amounts of change and had stayed resilient throughout. I wanted to integrate aspects of the natural environment which were resilient into the natural and built elements of the site. Some of the ways this resilience was integrated was through; materials such as weathered steel & fire rated timber, screening which mimics the changing tree canopies, green roofs, native & bushfire resistant vegetation.

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## SITE PLAN



### LEGEND

1. CARPARK
2. TURN AROUND/DROP OFF
3. DISABLED PARKING X 2
4. BIRD HIDES
5. BELLBIRD LOOKOUT
6. BELLBIRD CREEK WALK
7. RECEPTION WITH DINING ABOVE
8. OUTDOOR GATHERING SPACE
9. ECO CENTRE
10. AMMENITIES
11. ECO CABINS
12. BUSH GATHERING SPACE
13. BUSH FIRE TRAIL
14. BELLBIRD CREEK
15. WASTEWATER TREATMENT, SAND FILTER, PUMP WELL & PRIMARY TANK

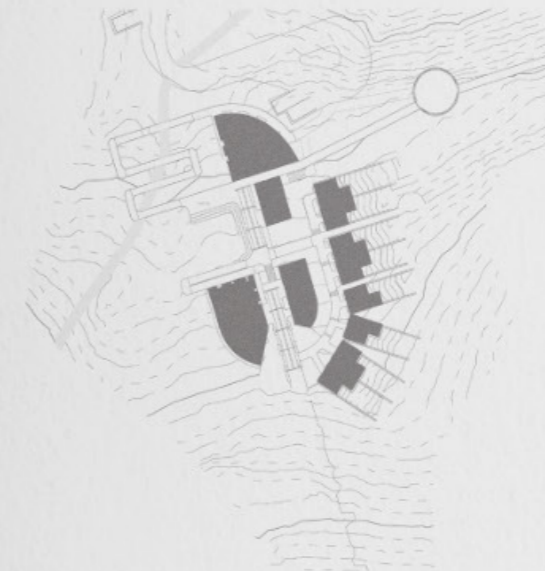
### WAYFINDING, FRAMING & MATERIALITY:

The use of weathered gantry mesh steel along key circulation paths helps in way finding while keeping connection to nature & site through the transparency



### NOLI MAPPING:

Figure ground map showing relationship & scale of built and open space. Creating a site which felt open & connected to the surrounding environment was of primary focus



## INTEGRATION OF LANDSCAPING

OPEN LAWN FOR GATHERING

ELEVATED GARDEN BED

ELEVATED MESH WALKWAYS WITH  
UNTOUCHED VEGETATION BELOW

GREEN ROOF ON CABINS

ELEVATED GARDEN BED THAT  
MEETS WITH TOPOGRAPHY

### LANDSCAPING:

Integrating of landscaping between paths & buildings,  
green roofs & elevated garden beds



OPEN, LOW DENSITY & LOW  
MAINTANCE NATIVE & FIRE  
RESISTANT SHRUBBERY



DENSER, MORE VARIABLE  
PLANTINGS, NATIVE & FIRE  
RESISTANT SPEICES



TREES, NATIVE & FIRE RESISTANT  
SPECIES TO BE PLANTED WHERE  
THERE IS NOT ALREADY EXISITING  
TREES

# PATHS & CONNECTIONS TO SITE

A. HIDE VIEW



B. HIDE VIEW



C. HIDE VIEW



D. BELLBIRD LOOK

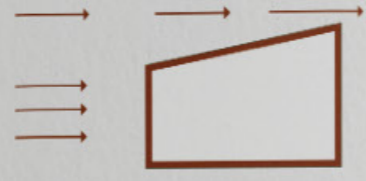


CONCEPT PERSPECTIVE:  
BELLBIRD CREEK WALK (ACCESSIBLE RAMP)



# BUSHFIRE RESILIENCE

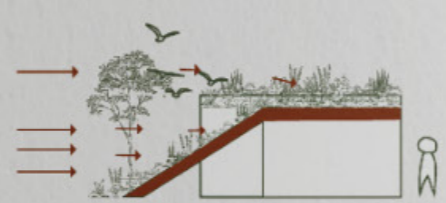
TRADITIONAL BUSHFIRE RESISTANT BUILDING



ENGAING SITE ONTO STRUCTURE



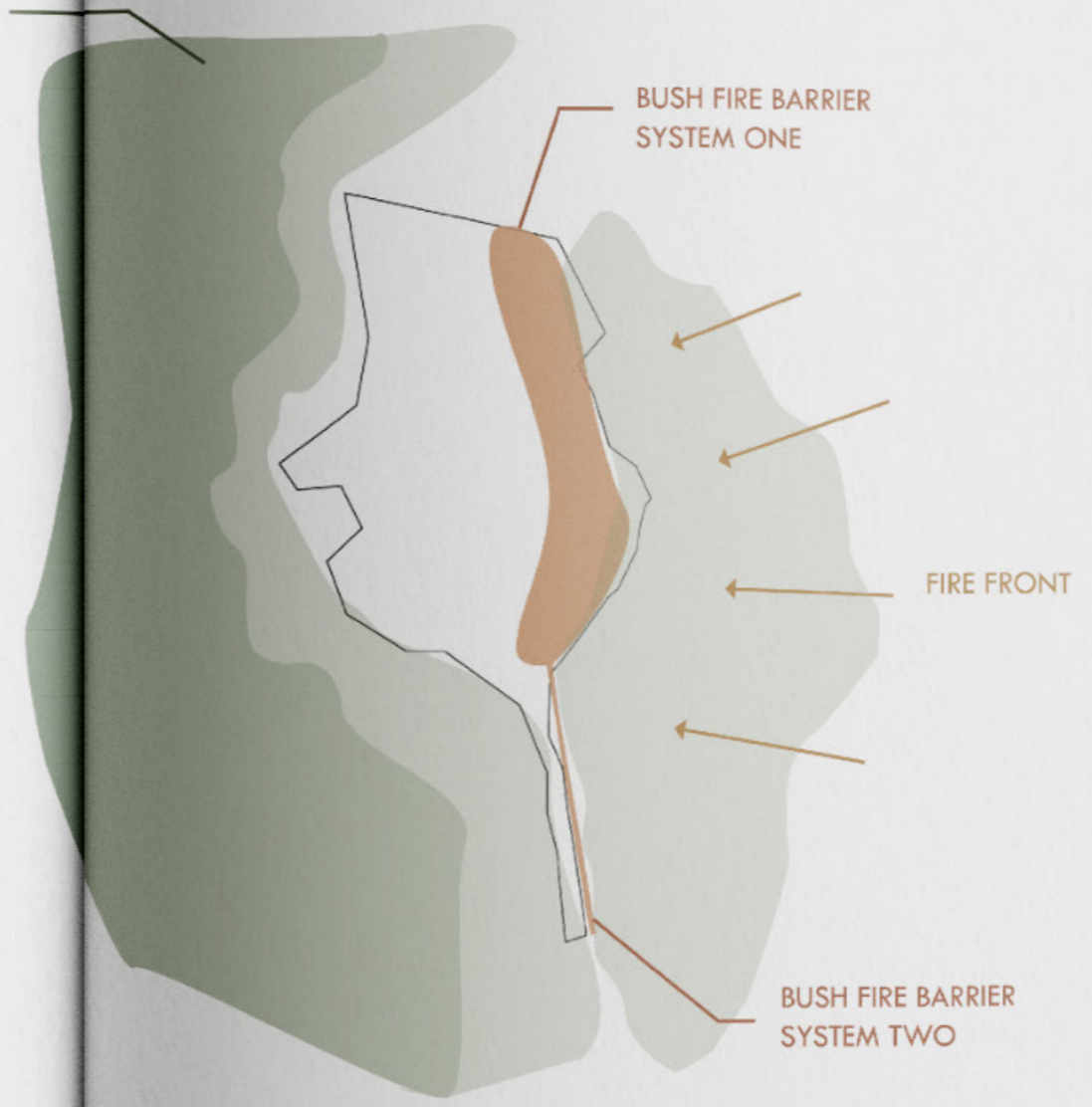
COMBINED BUILT & NATURAL RESILIENCE TO FIRE



BUSHFIRE WALL; BIRD HIDES, INFORMATION TRAIL AND FUNCTION BARRIER TO BUSHFIRE FRONT



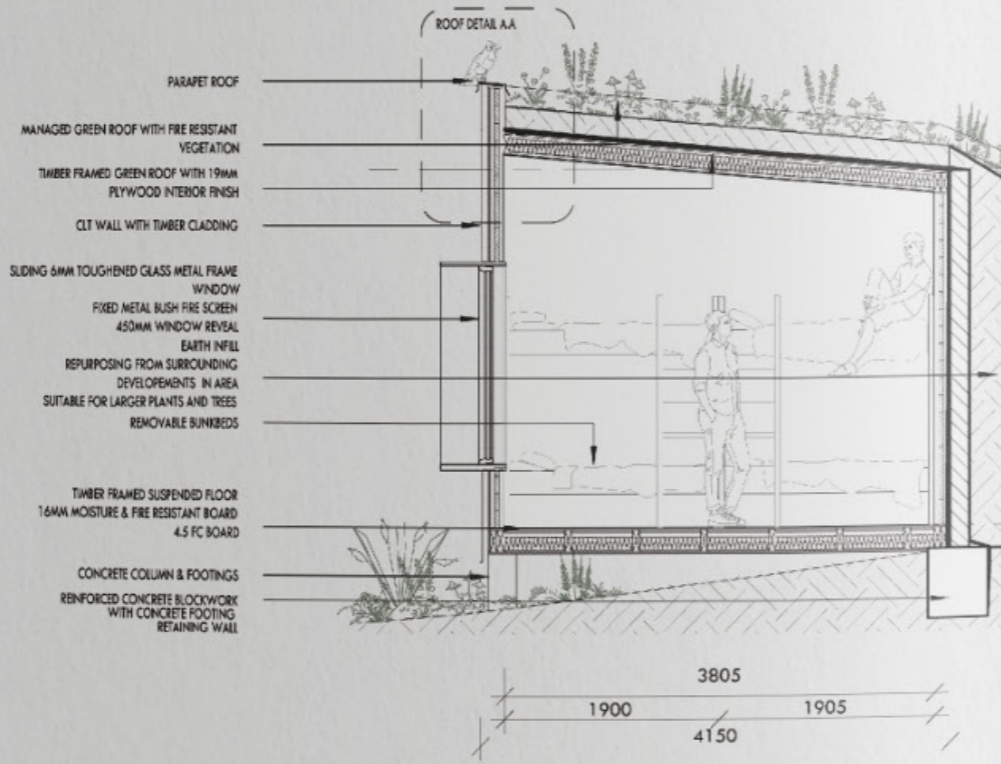
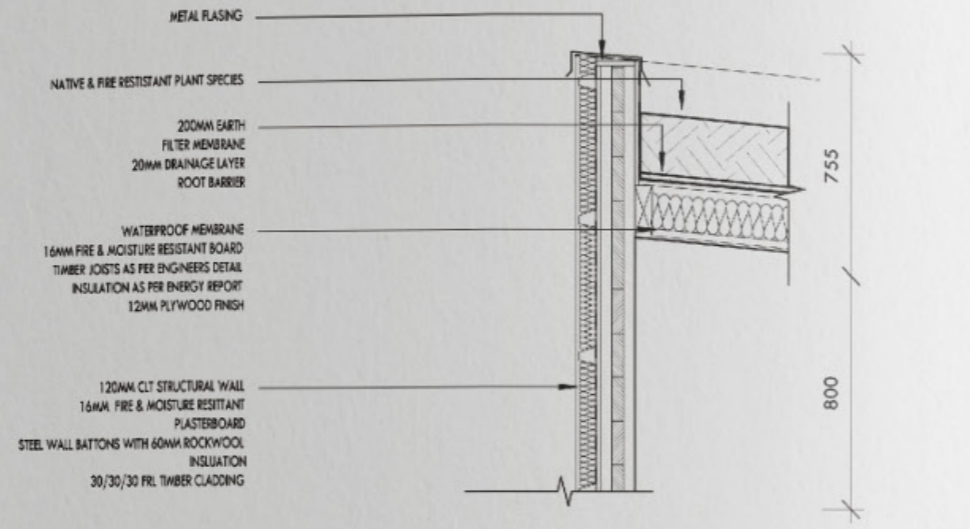
MORE RESILIENT FLORA AND FAUNA



BUSH FIRE BARRIER SYSTEM ONE

FIRE FRONT

BUSH FIRE BARRIER SYSTEM TWO



Level 2A  
688300

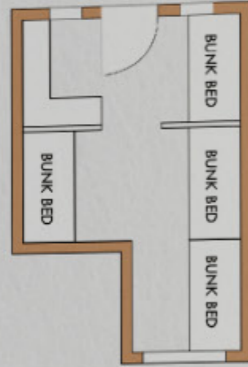


Level 2A  
688300

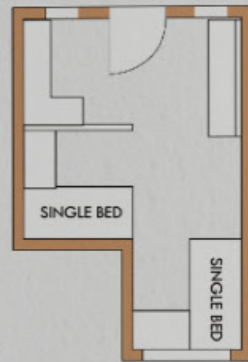
Level 1A  
685200



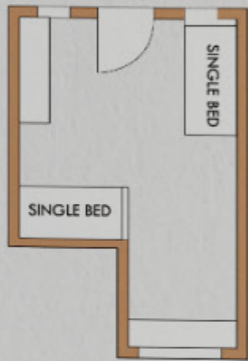
**8 PERSON CABIN X 5**  
SUITABLE FOR SHORT TERM  
SCHOOL/UNI STAYS



**2 PERSON CABIN X 2**  
SUITABLE FOR LONG TERM  
STAYS & MATURE VISITORS



**ACCESSIBLE CABIN X 1**  
3 CABINS HAVE DISABLED  
ACCESS IF REQ.

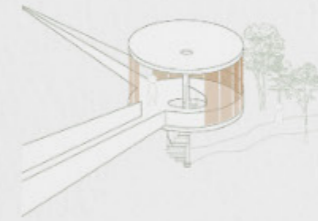
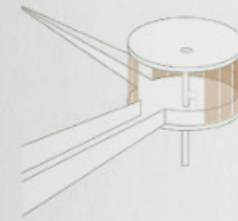
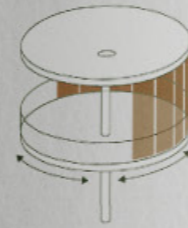


**RESILIENCE - PROGRAM & USE**

By adopting a singular & adaptable cabin shape, allows for greater flexibility and thus greater resilience. As the use and program of the site changes, the cabins can adjust along with it. The one cabin typology is suitable for short term, long term and disabled access. The only adjustment is furniture. This means it is quite functional. Up to three cabins have direct disabled access points if needed, catering for up to six people.



# TREE TOP BIRD HIDES DETAIL 1: 50



Level 2A  
688300

2100

Level 2  
686200

1000

Level 1A  
685200

2100

Level 1  
683100

3100

Level 0  
680000

COLORBOND ROOF SHEETING & SARKING

TIMBER ROOF TRUSSES AND JOISTS

GUTTER WITH MESH GUTTER GUARD

STRUCTURAL COLUMN

1050 HIGH METAL RAILING WITH CORTEN GANTRY MESH PANELS

STRUCTURAL COLUMN

STACKED SLIDING CURVED CORTEN GANTRY MESH PANELS

TIMBER DECKING ON TIMBER JOISTS AND BEAMS

SPIRAL SATIRCRASE WITH METAL RAILING

1 : 50

0 2m

2780

2780





# 05 WOMENS TRANSITIONAL FACILITY

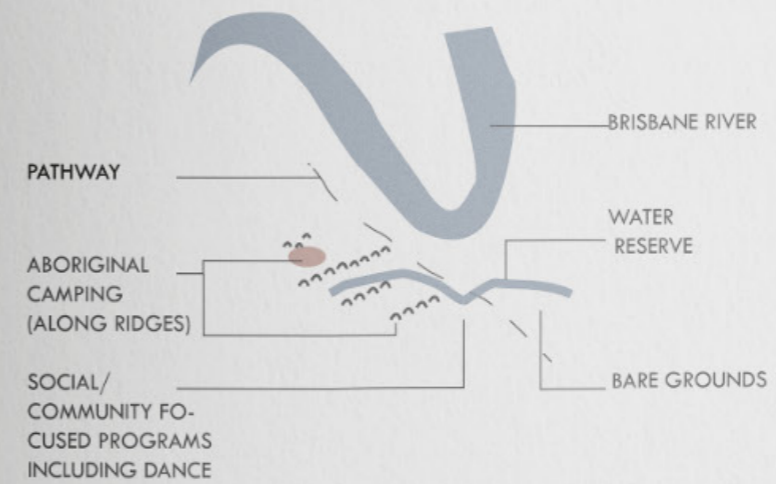
RED HILL, QLD | STUDIO FIVE | YEAR THREE | GRIFFITH UNIVERSITY

This project focused on **architecture at a city scale**. The brief asked for the site to be transformed into a transitional facility for women, creating a space which stimulated life outside of incarceration. Children up to the age of five, reside in the facility with their mothers. My aim for this project was to closely integrate the landscape into the site, so the residents and workers, felt close to the nearby creek. Indigenous culture & history was a large driver in the brief. There is a large proportion of indigenous people incarcerated, so providing a space where they could connect with the site was essential. Additionally, through using the indigenous techniques and placement of residential and community focused programs, I was able to mitigate the flooding issues, increase passive design and emphasise views.



### Cultural History

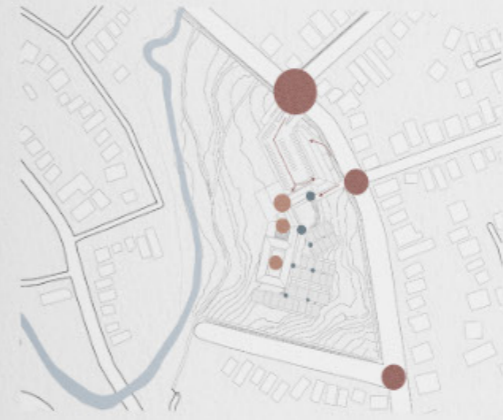
Cultural and historical connection was a major influence in the planning of the site. The placement of accommodation on the highest topography is reflective of the way in which aboriginal camping ground were placed, with social and community focused programs near the water. A connection to site & country was a large consideration as well, by using semi permeable fences, and large open courtyards, the site met the security requirements along with being open and connected to nature.



# SITE PLAN



Key Nodes And Paths



Flooding



Existing Native Flora

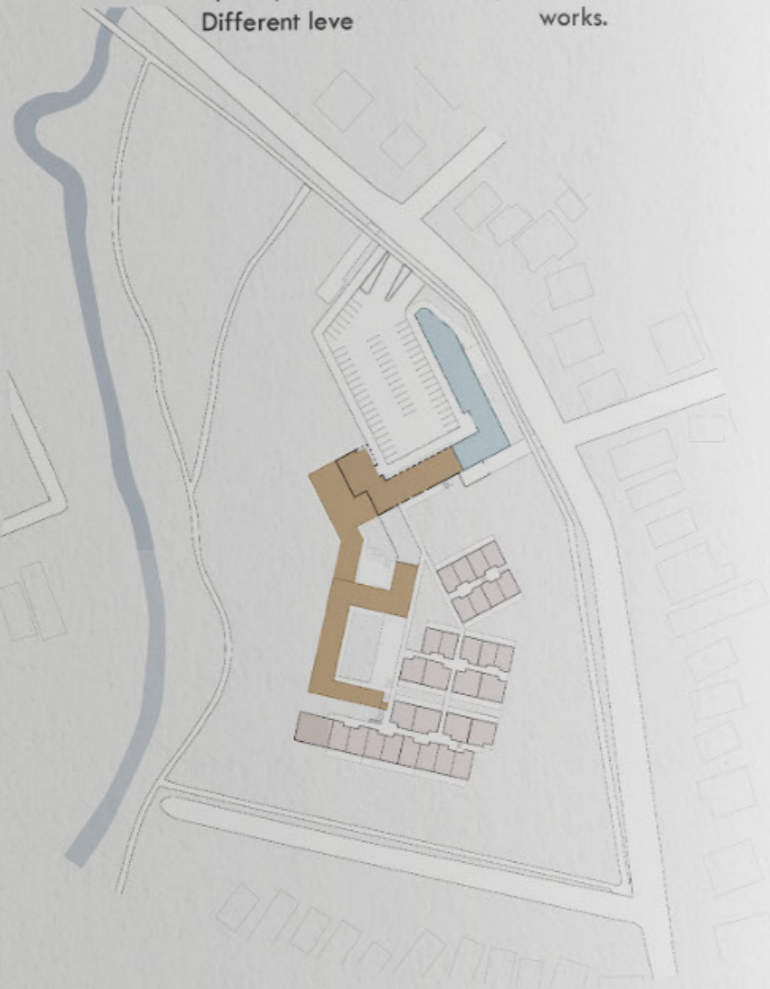


## BUILDING TYPOLOGIES

**Commerical:** Salvos Store located close to major transport nodes with high street frontage.

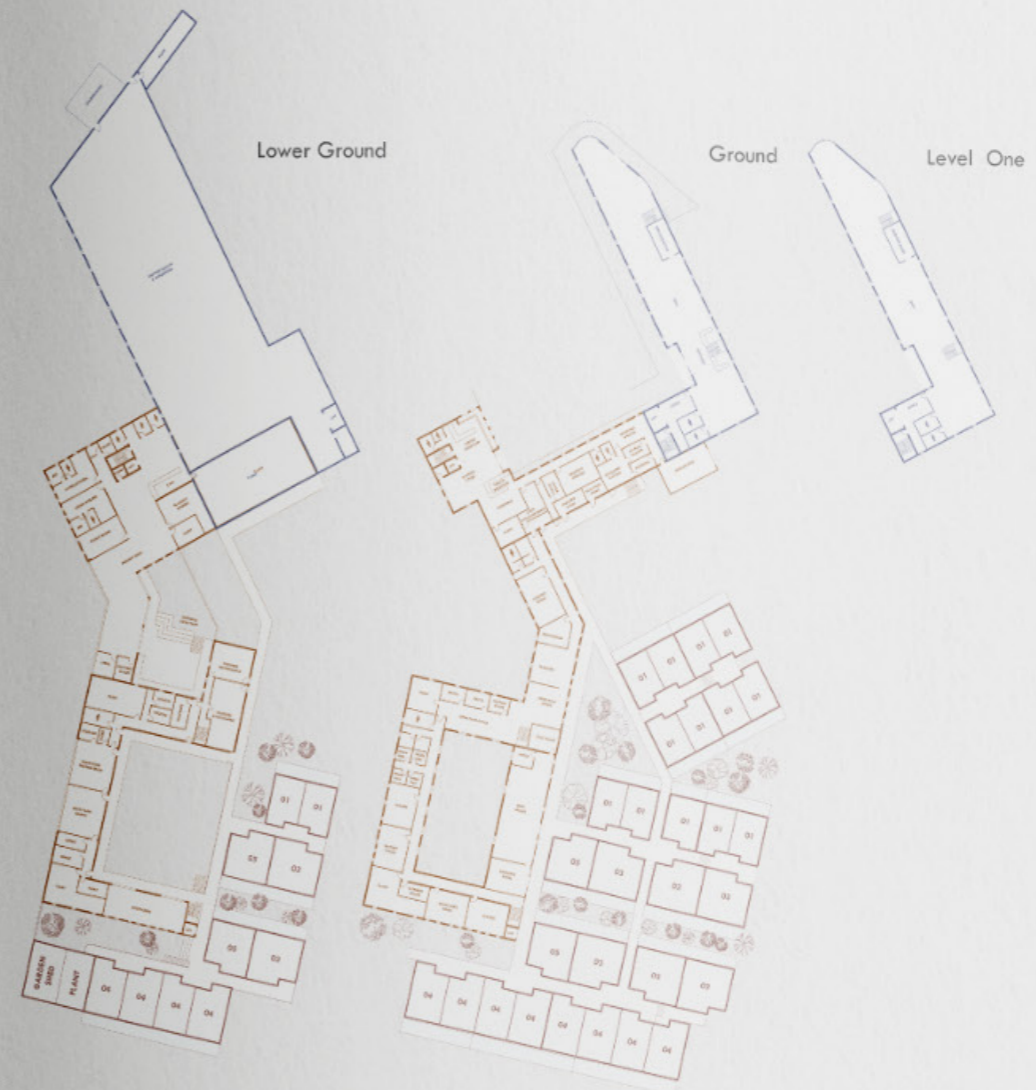
**Mixed Community:** An enclosed and secure space for the community and residents to utilise. Prioritising open spaces and gathering. Different level

**Residential:** Mixed residential accomodation, with staggered levels to maximise light and privacy. Also minimising earth works.

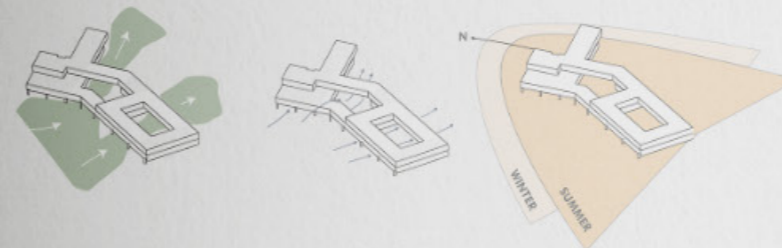


### RAISED BUILDINGS:

Further mitigates flood risks, will provide better views and is better for the ecological systems and overall sustainability of the project



### COMMUNITY TYPOLOGY & INTERACTION TO SITE

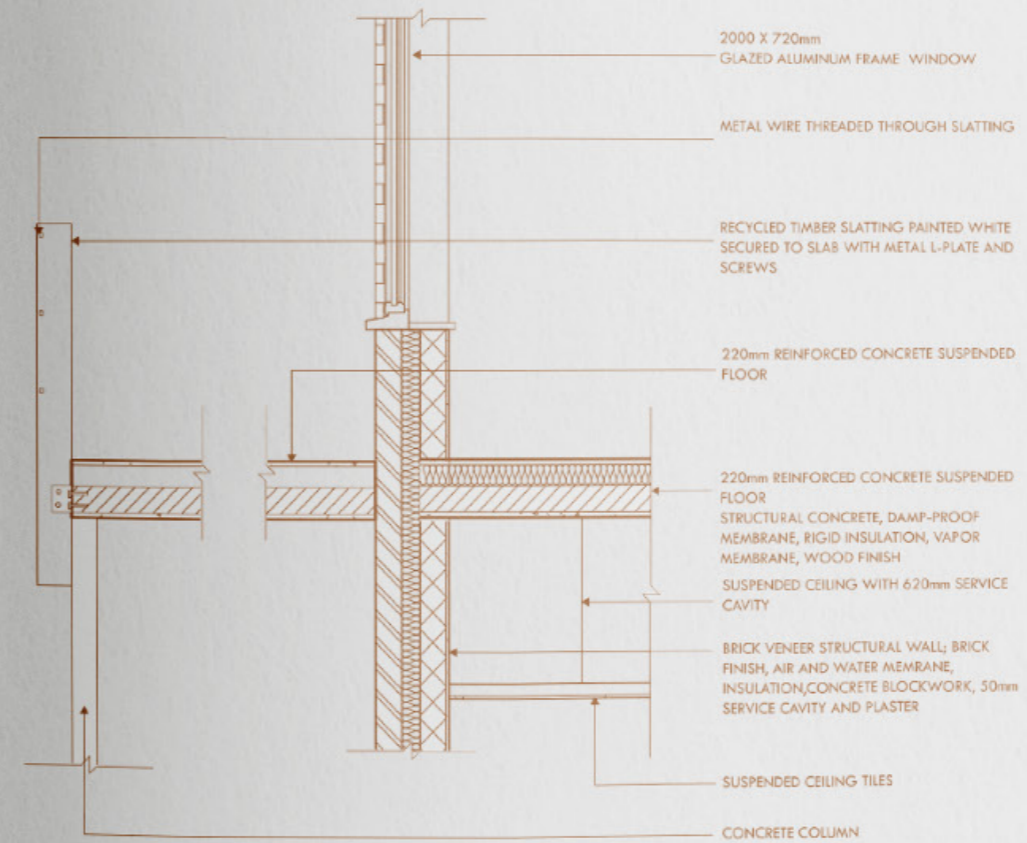


## ACCOMODATION

In designing the facility, my aim was to simulate the traditional urban typology. By creating a duplex like typology with balconies, the residence are given privacy and independent spaces in an space efficient way. Through creting dense built environments, there was more opportunites for open space and deeper connection to site.

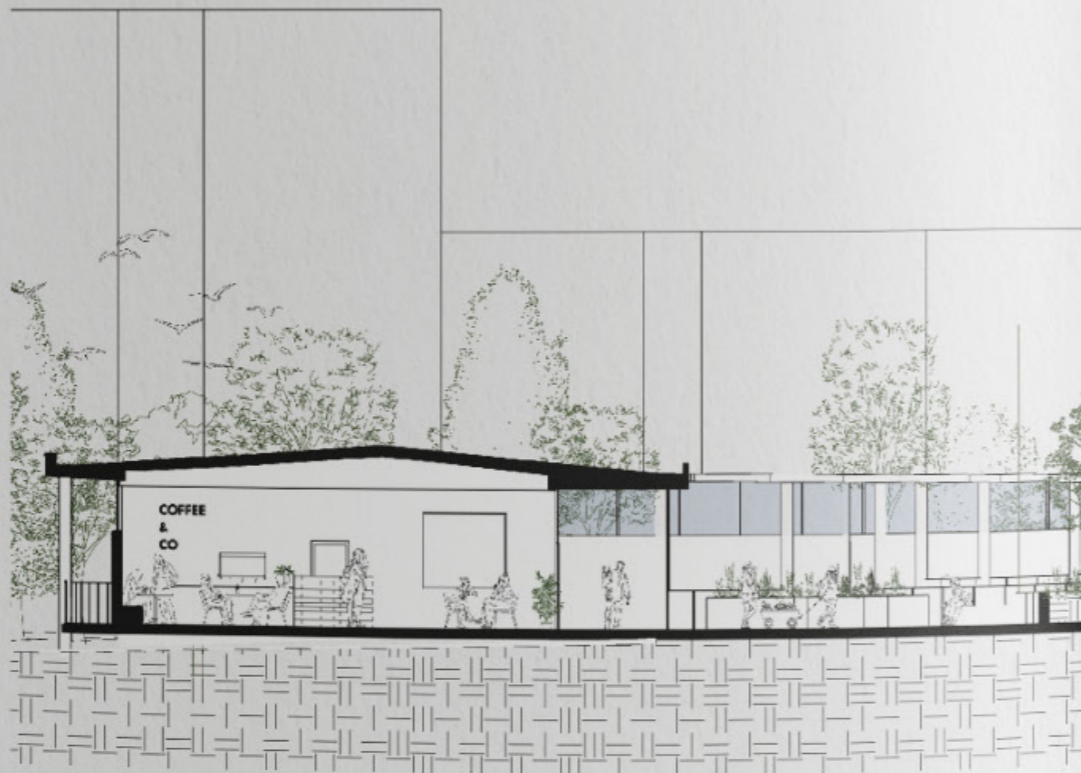


## ACCOMODATION FLOOR PLANS









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# 04

## BADEN POWELL COMMUNITY CENTRE

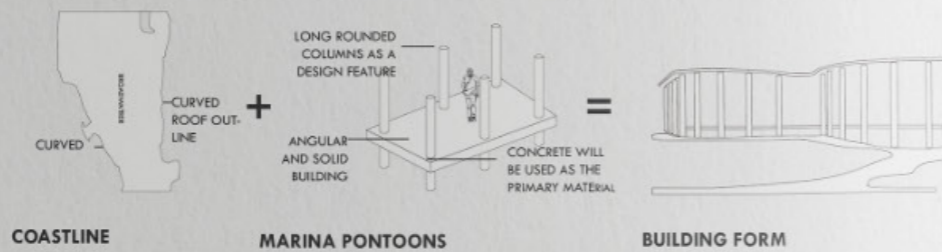
SOUTHPORT, QLD | STUDIO FOUR | YEAR TWO | GRIFFITH UNIVERSITY

This project focused on **community & accessibility** in architecture. Located in the CBD of Gold Coast, the brief was to design a community centre. The program included Able Australia offices, so creating a building which had easy and equitable access for people with disabilities was a key focus. The building is located on a park, so I wanted to ensure that the program and building did not take away the green space and park typology. As the project is in an area with a high crime rate and the main users of the site are vulnerable members of the community, a feeling of safety and security is essential.

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## DESIGN INFLUENCES

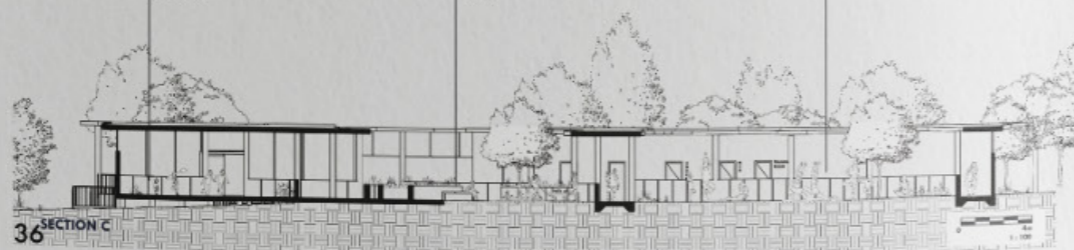
The concept of harbor was the key driver in this project, established when researching Southport and its identity as a marine centre. Surrounded by water and several marinas, southport is the hub of Australia for marine industry. Southport is known to have one of the worst crime rates on the coast. Due to this finding, the idea of a more conceptual approach of a harbor was established, creating a need for the project to be a space in which the community within would be protected and sheltered.



**INTERNAL PLAY AREA**  
Space for children to play and be supervised. Half walls ensure a line of sight into the area from the cafe, reception and main courtyard. However, these walls ensure children are enclosed and safe.

**COMMUNITY VEGETABLE GARDEN**  
Due to the med-high building density in the area, residents lack backyards or green space, the incorporation of a community garden would encourage community interaction and collaboration.

**ACTIVITY COURTYARD**  
Space for outdoor exercises and classes. Minimal slope makes it Accessible for elderly and disabled.



## HARBOR FOR BIRDS

The shallow green roof which is elevated of the primary concrete roof, creates a harbor for migratory birds. The green space provides them with an isolated and protected space to rest and inhabit within the busy & dense area of southport.



DETAILED ELEVATION 1 : 50

## HARBOR FOR HOMELESS

The external courtyard was created to provide the homeless with a safe place while still protecting the people within. As homeless are a large reason for the high crime rate it is important that they be separated. The courtyard provides a space which is shaded and undercover area with seating and security cameras for homeless to use at night and in poor weather. Will also be a useful space for ROSIES to set up.



PERSPECTIVE:  
EXTERIOR COURTYARD

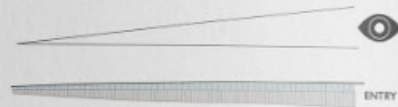


HIGH STREET ELEVATION 1 : 200

**FACADE INFLUENCES**

The Het Anker Community Centre  
Moedersheim Moonen Architects  
in Zwolle, Netherlands

This precedent was effective in creating a clear visual connection to the building and entry. This was established through the sloping of the roof and the varying use of glass.



**ADAPTION INTO DESIGN**

The building has been designed with a sloped roof which opens up to the main street and entry. Through the use of a strip of glass along the top of the walls, the building to gradually opens up visually towards the main entry. Allowing more light in and giving the surrounding people a peek into the building. This creates more privacy for the rooms at the back.

**MATERIALITY**

CONCRETE BIRCH TIMBER

The concept of a harbor was applied to the Materiality of this project. Concrete was chosen as the primary material to reflect the concrete pontoons seen in marinas. A more unfinished concrete texture will be used, to reflect the more industrial aspect seen in these marinas. The concrete is used on the external cladding, floors, roof and stair steps

Not only has the artificial elements of a harbor been incorporated into the design, but also the natural elements of not only the coastline and site. Being a park initially, retention of the natural elements is essential. This is why the secondary material unfinished timber was chosen. A lighter tone was chosen to mimic the hues of the beach.



SYKES COURT ELEVATION 1 : 200



LONG SECTION: PERSPECTIVE



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## 03 PADDINGTON SHOPHOUSES

PADDINGTON, QLD | STUDIO THREE | YEAR TWO | GRIFFITH UNIVERSITY

Located in Paddington in Brisbane, the site is surrounded by mixed typologies. There is also a lot of historically significant queenslander buildings. This project was aimed at creating a space which facilitates community, commercial and residential engagement. On a very small site, 8 shophouses needed to be included. The shophouses needed to be adaptable for a wide range of commercial purposes. In approaching the design of the site, I looked at the surrounding built and natural typologies. I wanted to bring forward the dense vegetation to the streetscape & integrate in with built environment. I also wanted to maintain a clear differentiation between public and private in terms of privacy and access.

The separation was made through assigning different programs to different levels, and adjusting the facade and screening.

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This project was largely influenced by the surrounding queenslander homes in Paddington. The traditional white timber fencing observed in the area was the main design inspiration for the white timber slatting. Additionally, the concept of regrowth and ruins was founded in the lack of vegetation seen in the area. In the project, I wanted to incorporate the vegetation back into the urban landscape through integrating it into the built environment.

**COMMERCIAL VS RESIDENTIAL TYPOLGIES**

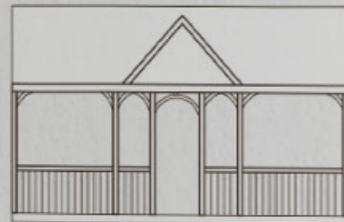


**VEGETATION DENSITY & PLACEMENT**



**EXAMPLE OF USE OF VEGETATION TO CREATE THRESHOLD AND FACADES: PADDINGTON**

VERANDA



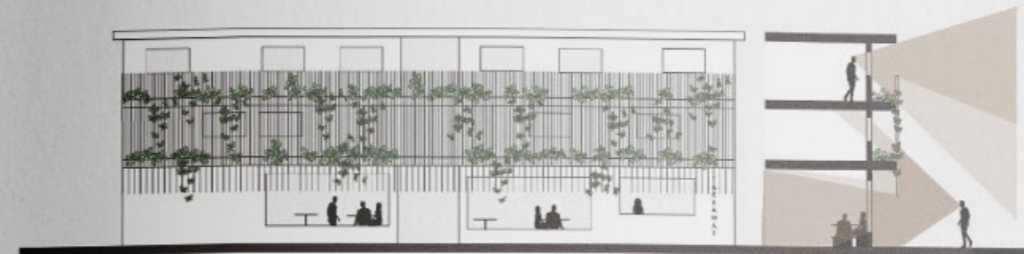
VEGETATION



FENCES



**DISTRIBUTION OF VEGETATION: SITES IN PADDINGTON**



As this project is not only commercial and community based but also for private residences, the need for clear separation between private and public spaces was an essential aspect to the designing of the facade, landscaping and floor plans. The public space is located on the lower most floor, maximizing views to the city and of nearby vegetation. The commercial shops are located on the ground floor, to maximize foot traffic and accessibility. Residential apartments are located on the first and second floors, to reduce noise

LOWER GROUND FLOOR



GROUND FLOOR  
(COMMERCIAL)



LEVEL ONE  
(RESIDENTIAL)



LEVEL TWO  
(RESIDENTIAL)



## PERSPECTIVE: PERFORMANCE SPACE





VEGETATION  
6 MONTHS



VEGETATION  
24 MONTHS

**Recycled Brick:**

- Light coloured mortar to lighten the brick texture
- Unfinished bricks to mimick ruins
- Exterior walls only, on all four levels
- Creates a dense facade hich suits the facade of Paddington

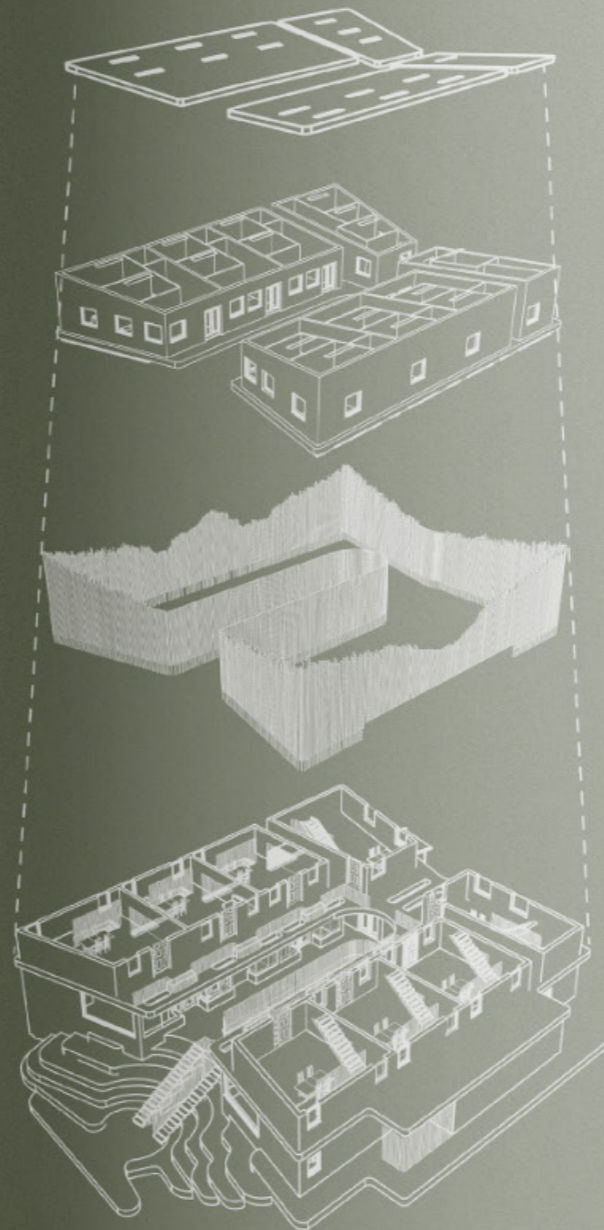


**Concrete:**

- Light coloured concrete to maximise light within the structure
- Unfinished surface to mimick the effect of time of ruins
- Floors and roads, to emphasise the use of levels to distinguish between public and private spaces



**EXPLODED AXONOMETRIC**



**Concrete roof:**

- Angled: to direct water flow to gardens
- Sky light: to maximise light and provide natural light throughout the more private level

**Primary Materials:**

- Brick: light toned brickwork will be used for the exterior walls of the building.
- Concrete on floor/roof slabs to show cohesion between the different levels, despite different levels of vegetation and facade slatting

**Facade slatting**

- Made of timber slatts (70mm wide, 20mm long)
- Allow vegetation such as vines, to grow up the faade of the building
- Creates privacy and a seperation between & private spaces.
- Most dense on first floor as this floor is closest to the road & commercial areas.

**Residential vs Commercial Threshold:**

- The residential level is setback from the commercial threshold, to allow for a more generous threshold, and greater privacy.

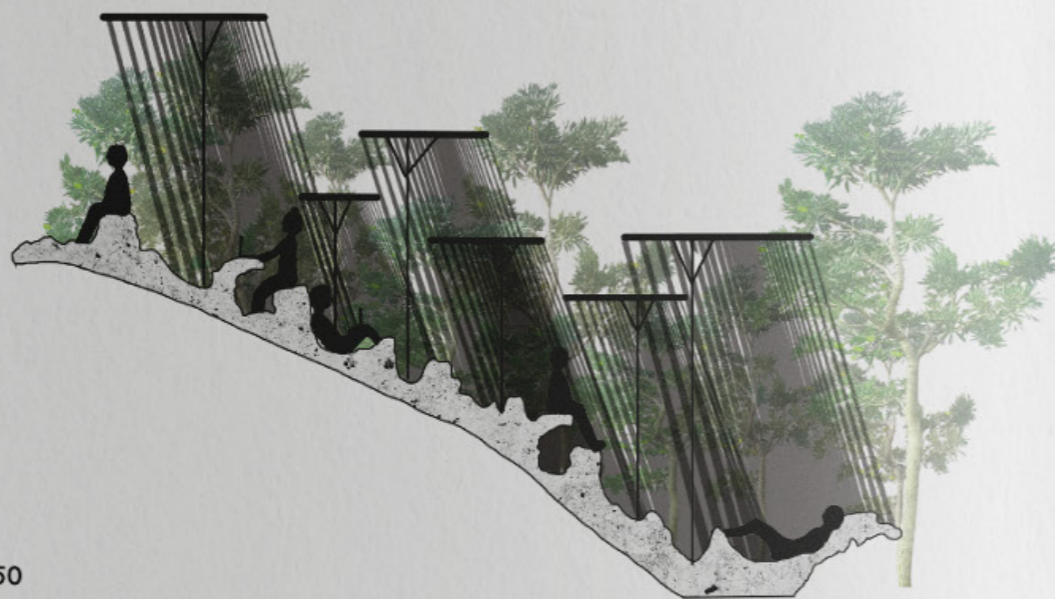
**Public Space & Promenade:**

- The change in elevation between the promenade and public space allows for greater connection to the topography of the site, maximises views and encourages community interaction by creating a destination rather than an unintentional passage.



PERSPECTIVE SECTION





## 02 ISOPOD/ FOLLY

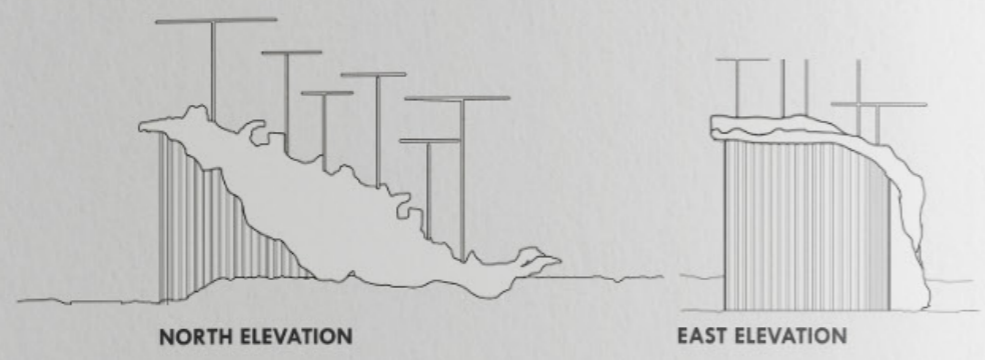
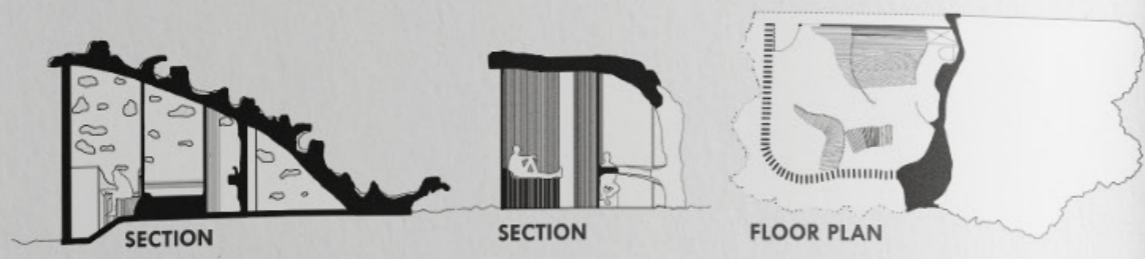
BROADBEACH, QLD | STUDIO TWO | YEAR ONE | GRIFFITH UNIVERSITY

The isopod/folly project, is a conceptual design project, taking the implications from the covid-19 pandemic and reflecting this into architectural designing.

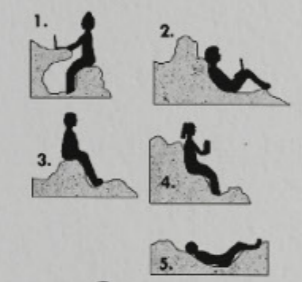
The design of the pod is inspired by the natural elements found at the site. Additionally, the use of certain materials such as glass, steel and traditional fittings and doors were prohibited.

The space needed to provide the client with a "comfortable space to inhabit while also providing a place for (socially distanced) community interaction". Additionally, creating a community function which would benefit the area and also provide safe, socially-distanced community interaction.

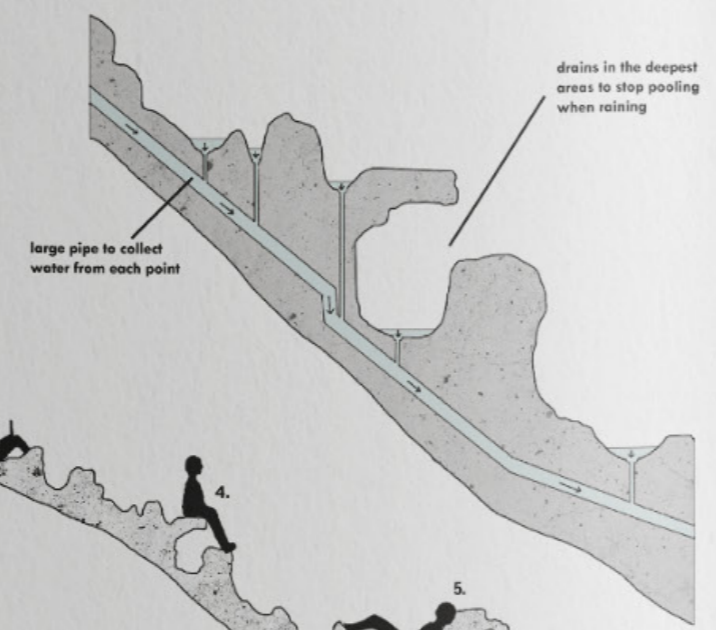
The design and organic shape of the roof and external walls was inspired by the organic forms seen in the bark from native trees surrounding the site. Additionally, the rough and textured roof, created an opportunity to create a community space for studying, resting and interaction. The gradual slope also allows users to have an elevated view of the park and distant city scape. As glass was prohibited, and i wanted to create a building in which you could control the levels of openness, i chose to incorporate adjustable louvers. The timber slatting, also acts as privacy screen, allowing light in the whole building but providing visual privacy to more private areas.



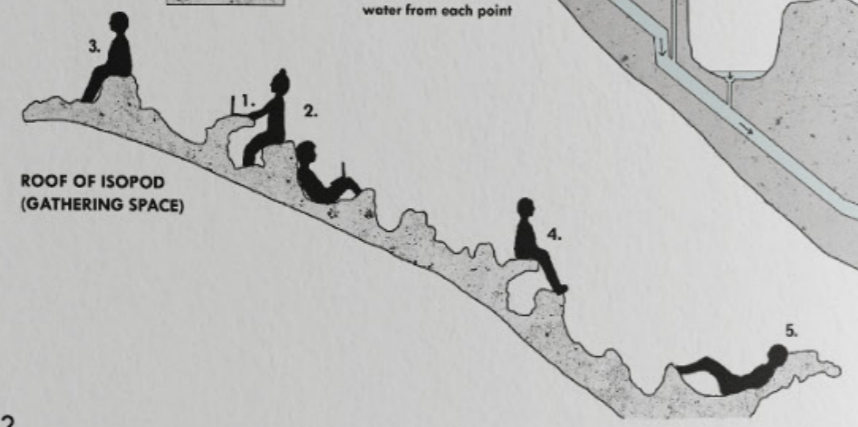
**PUBLIC SPACE: STUDY/RESTING**  
**POSSIBLE SEATING POSITIONS**



**ROOF DRAINAGE SYSTEM:**



**ROOF OF ISOPOD (GATHERING SPACE)**



PERSPECTIVE: COLLAGE



# 01 PAVILLION/ INSTALLATION

SOUTHPORT, QLD | STUDIO ONE | YEAR ONE | GRIFFITH UNIVERSITY

This project is a temporary installation project for the Griffith University Aquatic Centre. I chose to create an outdoor study space, as I found at Griffith University there was minimal outdoor study spaces which had vegetation and privacy. I also wanted to incorporate natural elements directly into the build form, choosing a fan leaf to inspire the rounded form. Additionally, I wanted to make the furniture apart of the built form, so by embedding and extending these wooden pieces, tables and benches are formed. Furthermore, the use of vegetation above, filters out any harsh light, creating a canopy like effect over the structure.

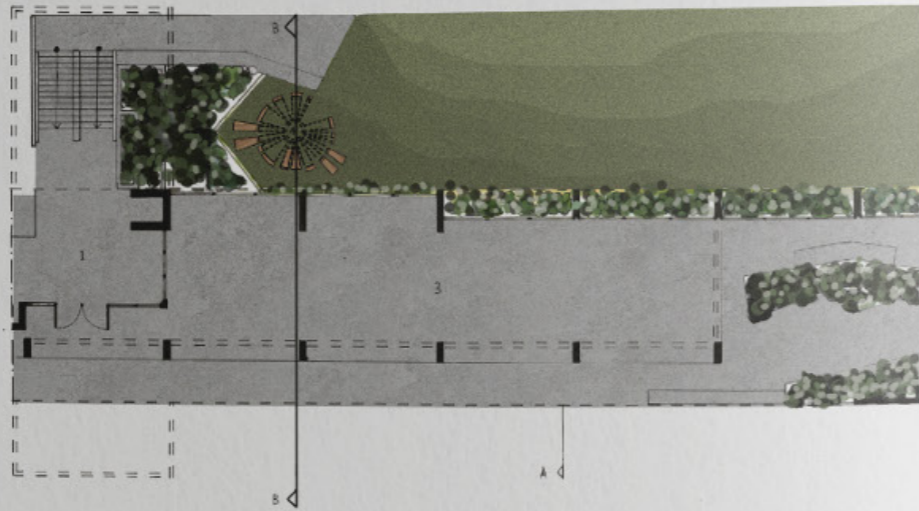
INTERIOR PERSPECTIVE



PALM LEAF INSPIRED FORM



FLOOR PLAN: INCLUDING EXISTING PAVILION



SECTION



**Thank you!**

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