

[V.2]

# Adee Govender

Academic  
2020-2022

Architectural Portfolio



## CAREER

- 2021-2022 o PGA Architects  
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## EQ SKILLS



People Orientated



Stress Management



Mediator

## ADEE GOVENDER

"Attitude is a small thing that can make a big difference."

### ABOUT ME

I'm an enthusiastic, caring creative. Eager to learn and excellent under stress; I perform best through a variety of software and adventurous design exploration.

"I am a part of all those I have met."

## CONTACT

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## EDUCATION

- o 70% GPA | 2022  
M.Arch(Prof) | UCT

- o 72% GPA | 2021  
BAS(Hons) | UCT

- o 66% GPA | 2020  
BAS | UCT

- o 6 DISTINCTIONS | 2016  
IEB | CRAWFORD COLLEGE

## CERTIFICATIONS

- Graphics Design Specialization  
UCLA | Coursera

- Van Gogh Award  
For Exceptional Art | Crawford

- Dale Carnegie  
Public speaking | uMhlanga

- Spirit Adv.  
Leadership Course

## TECH STACK PROFICIENCY



REVIT



AUTOCAD



ADOBE SUITE



RHINO



H.FILM EXPRESS

## HOBBIES



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2020

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2020

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2020

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2020

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Cultural Community Centre  
2020

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[01]

# WAA

Wittebome Arts Academy  
Arts school with theatre and gallery  
2019

Keywords:

Connective tissue  
Context driven  
Spectacle



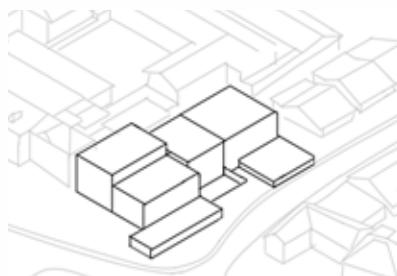
# WITTEBOMME

The site is an existing parking lot adjacent to a school. It is sited along a busy main road full of commerce and community activities of different scales. A Lowscale Fabric of 1-2 storey buildings dominate the area with the school being a domineering institute of 3 storeys. The Pre-existing fabric is complex and vibrant however surrounding building upkeep is poor with plaster chipping off the walls. Thus durable materials with low maintenance should be considered.



## ROADS

The suburb is boxed by four main roads with another, Ottery road, splitting through as a diagonal.



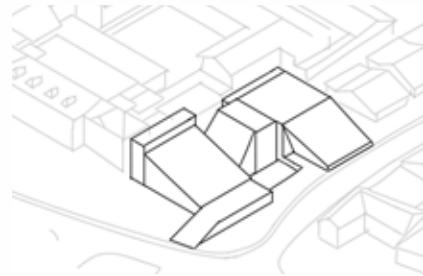
## MASS EVOLUTION

The mass responds to the fabric. Tall volumes near the school that peter-off towards residential units. The entrance is sublevel to accommodate extra height.



## ACTIVITY

The street activity drops around the site calling for a public building to be erected to stimulate street activity.

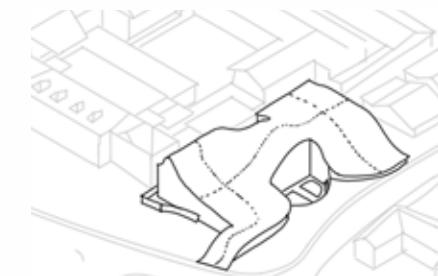


To soften the harshness of the masses, gradients are introduced, this reduces sever and institutional vibes.



## BUILT FABRIC

Large scale developments occupy the main roads, except for Ottery. Densification of activity is needed.

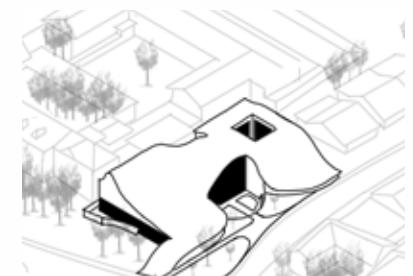


The roof is a cretecote layer to create a seamless connective tissue that seemingly joins to the existing fabric like a cloth draping over the urban scheme

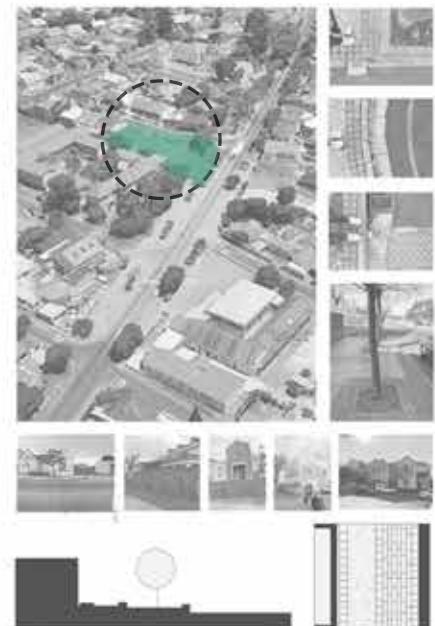


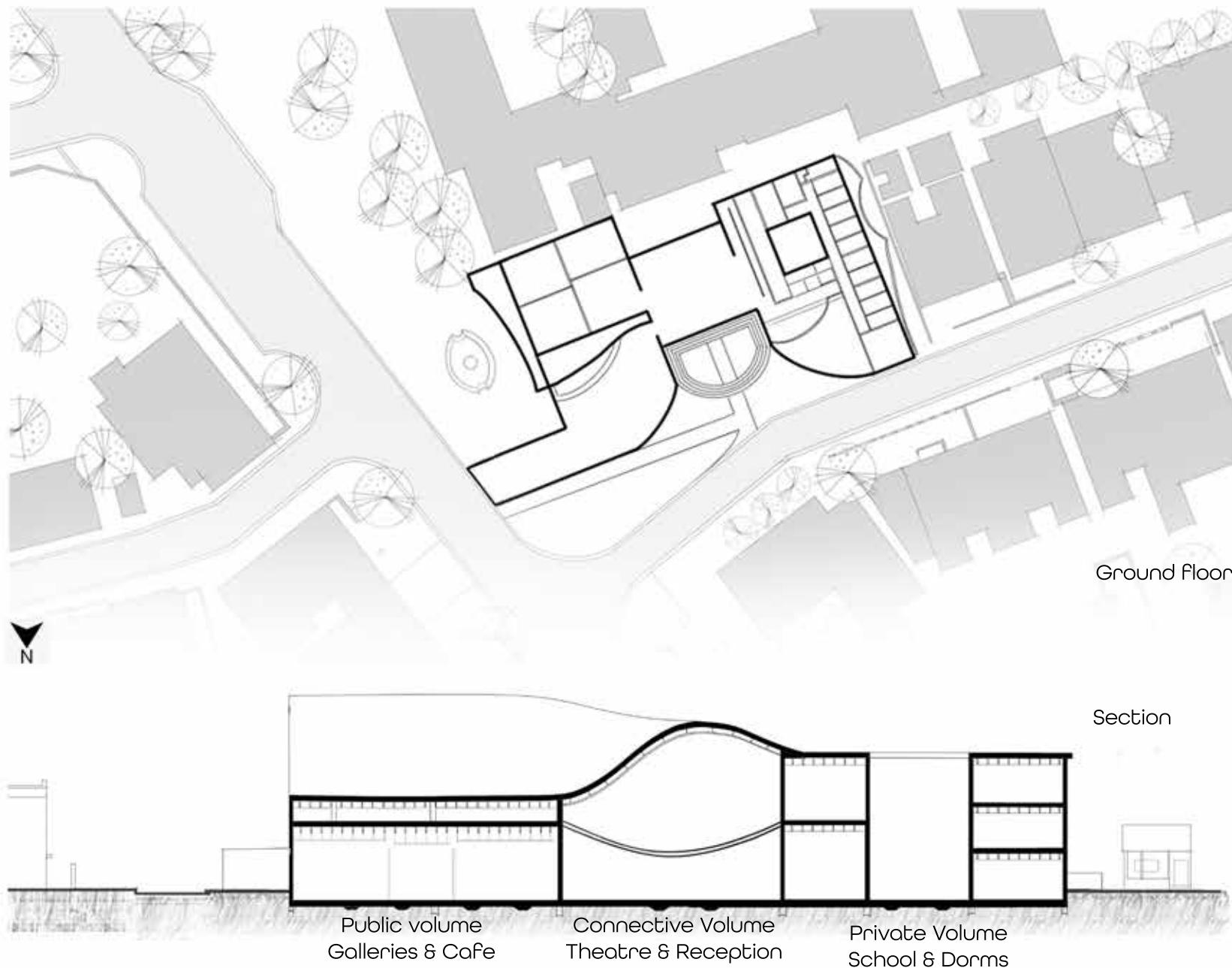
## CLIMATE

The site is protected from the harsh winds from the surrounding fabrics. Green space is lacking nearby.



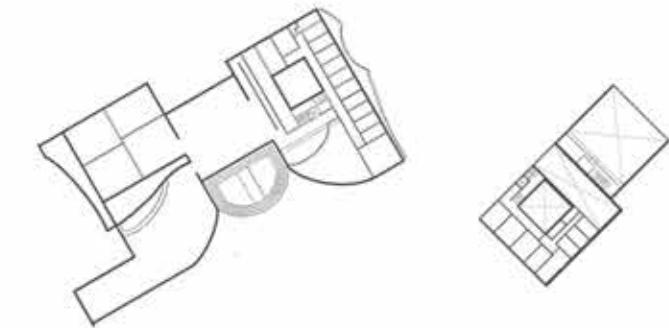
A large fenestration encourages people to watch the performance from outside. Permeation and courtyards are devised for air circulation and natural light.





## The Design

The design is a fluid structure consisting of a public volume for cafes and exhibitions and a private school volume with classes, dorm rooms, bathrooms and offices. The private and public volumes are connected through a CLT floating theatre joint in the centre of the design. The edges of the theatre are glass, and allows for people outside to be connected inside.



Second floor

Third floor





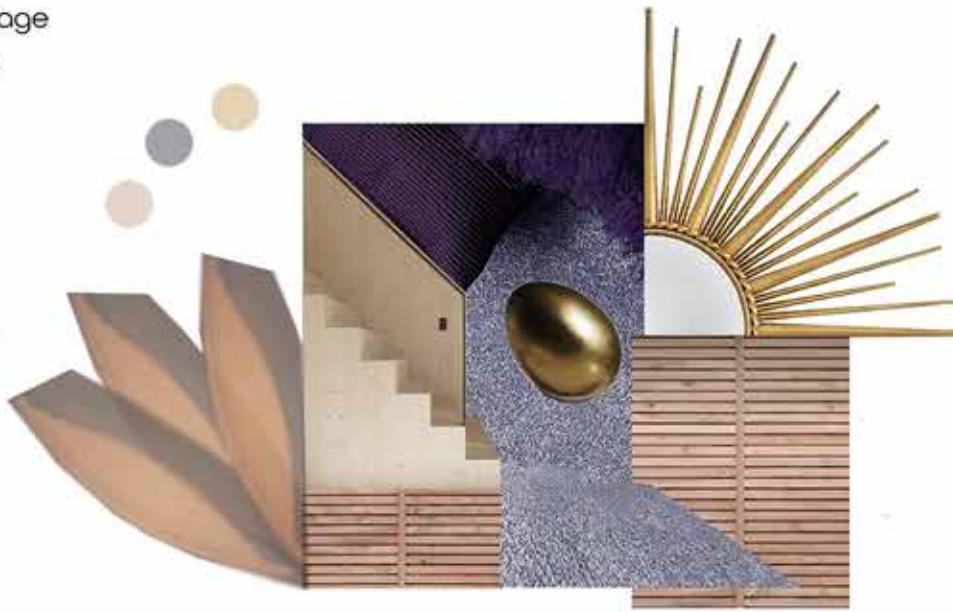
Interior Concept Collage  
**Public Cafe**

1. Polished concrete
2. SA Pine Glulam arches and timber slats
3. Variegated salmon pink and emerald tiles
4. Gold accents and ring chandeliers
5. Pink pillar candles and emerald/pink decor and planters



Interior Concept Collage  
**Small Theatre**

1. CLT acoustics
2. Steambent post and backer rail stained birch cladding
3. Navy blue carpets and plush step cushions
4. Polish brass accents and radial featurettes





[02]

# Reclaim

Trafalgar Park  
Macro design of a park  
with micro design of a public library  
2021

Keywords:  
Softening Boundaries  
Spatial Justice  
Activity and Amenitiy

Scan this QR code  
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a video walkthrough  
of this project >



# TRAFALAGR PARK

## Analysis

Trafalgar park is a contested space full on nostalgic memories for existing residences. But over the years, through shifting zoning regulations and gentrification in the area, the park has seemingly lost its magic.

To interrogate how Trafalgar Park has lost its magic, a set of analyses were undertaken to unpack underlying issues.

## Challenges & Opportunities

From these analyses an understanding of how it lost its magic surfaced. Recent commercial zoning resulted in an 8-5 workspace and left the park unguarded by pedestrian activity throughout the day and on the weekends.

This, along with unfriendly, hard and closed off edges has created insecurity within the park and a loss of activity.

## Proposal

It is proposed to transform the park by addressing the harsh edge conditions through a public garden farm fence and pedestrian activity through amenities and better, clearer and safer wayfinding.

## PHYSICAL INFLUENCES



EDUCATIONAL  
INDUSTRIAL  
MIXED USE  
COMMERCIAL  
RESIDENTIAL  
PUBLIC SERVICES



Types of spaces around Trafalgar park, highlighting densities of spatial and functional relationships surrounding and in the park



N2/M4  
DEFINING ARTERIALS  
OUTER PARK FENCE  
INNER PARK FENCE  
DEFINED SPACES/ SLOPE  
SPECIFIC SPATIAL THINGS



Separating elements of Trafalgar park, fences, boundaries and other features that close the park off from the urban fabric



Access routes into Trafalgar park, showcasing the limiting effect of current entrances in relationship to related spaces

EDUCATIONAL  
INDUSTRIAL  
MIXED USE  
COMMERCIAL  
RESIDENTIAL  
PUBLIC SERVICES  
ACCESS  
TREES



## SOCIO-CULTURAL INFLUENCES



USERS AROUND AND IN THE PARK, POINTS OF USER INTEREST AND REFLECTING DEAD ZONES OF WORKING-WEEKENDS

ANTI SOCIAL BEHAVIOURED  
INFORMAL TRADERS  
RECREATIONAL USERS  
CHILDREN/FAMILIES  
POOL GOERS  
DEAD-ZONE WEEKEND OFFICES



ZONING OF SPACES REFLECTED DENSITIES, MAPPING ASSUMPTIONS OF GENTRIFICATION

OLDER FABRIC LOW RESIDENTIAL  
NEWER FABRIC APARTMENT  
NEWER FABRIC MIXED-USE  
NEWER FABRIC COMMERCIAL  
NEWER FABRIC OFFICES/SCHOOL



BUILT FORM REFLECTING LACK OF SELF-IDENTIFYING STAKE-HOLDERS OF TRAFALGAR PARK (NEIGHBOURHOOD OWNERSHIP)

RESIDENTIAL INTERFACE ✓  
COMMERCIAL INTERFACE ✓  
COMMERCIAL INTERFACE ✗  
APARTMENT INTERFACE ✗

## USE-DERIVED INFLUENCES



EXISTING SITES THAT PRESENT OPPORTUNITIES FOR NEW VEHICLES OF USE TO INTERACT AND IMPROVE RELATIONSHIP WITH SITE

EDUCATIONAL SITES  
RESIDENTIAL SITES  
COMMERCIAL SITES  
GREEN BELT SITES



SUCCESS INDICATION OF CURRENT ZONED SPATIAL USES DELEGATED BY PRE-EXISTING HARD BOUNDARIES

TOP PARK: HIGH USE  
LOWER PARK: MILD USE  
PARKING LOT: HIGH USE  
SWIMMING POOL: MILD USE  
HERITAGE PARK: LOW USE

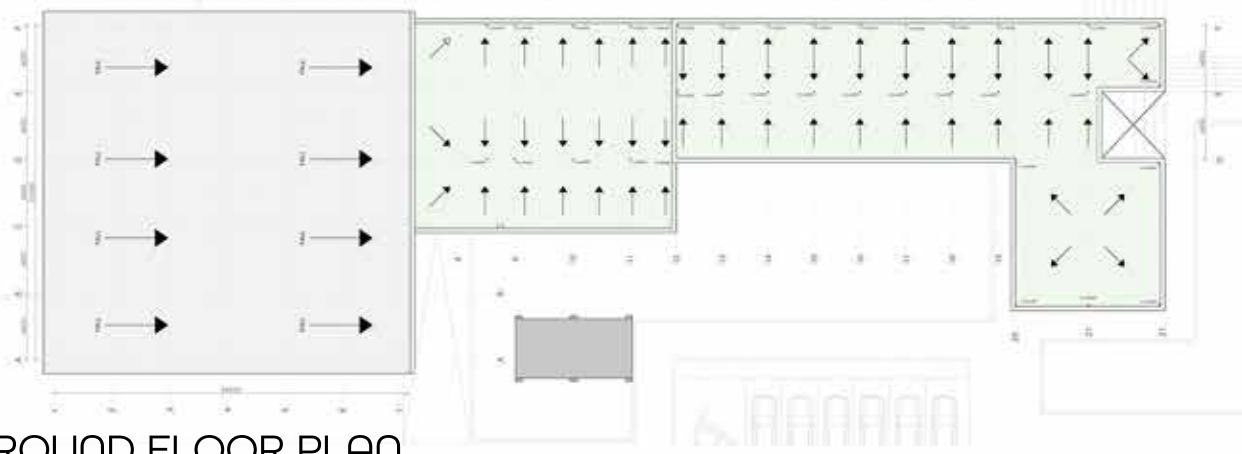


EXISTING ARTIFACTS THAT PRESENT OPPORTUNITIES TO FURTHER ENHANCE SITE USE-QUALITY

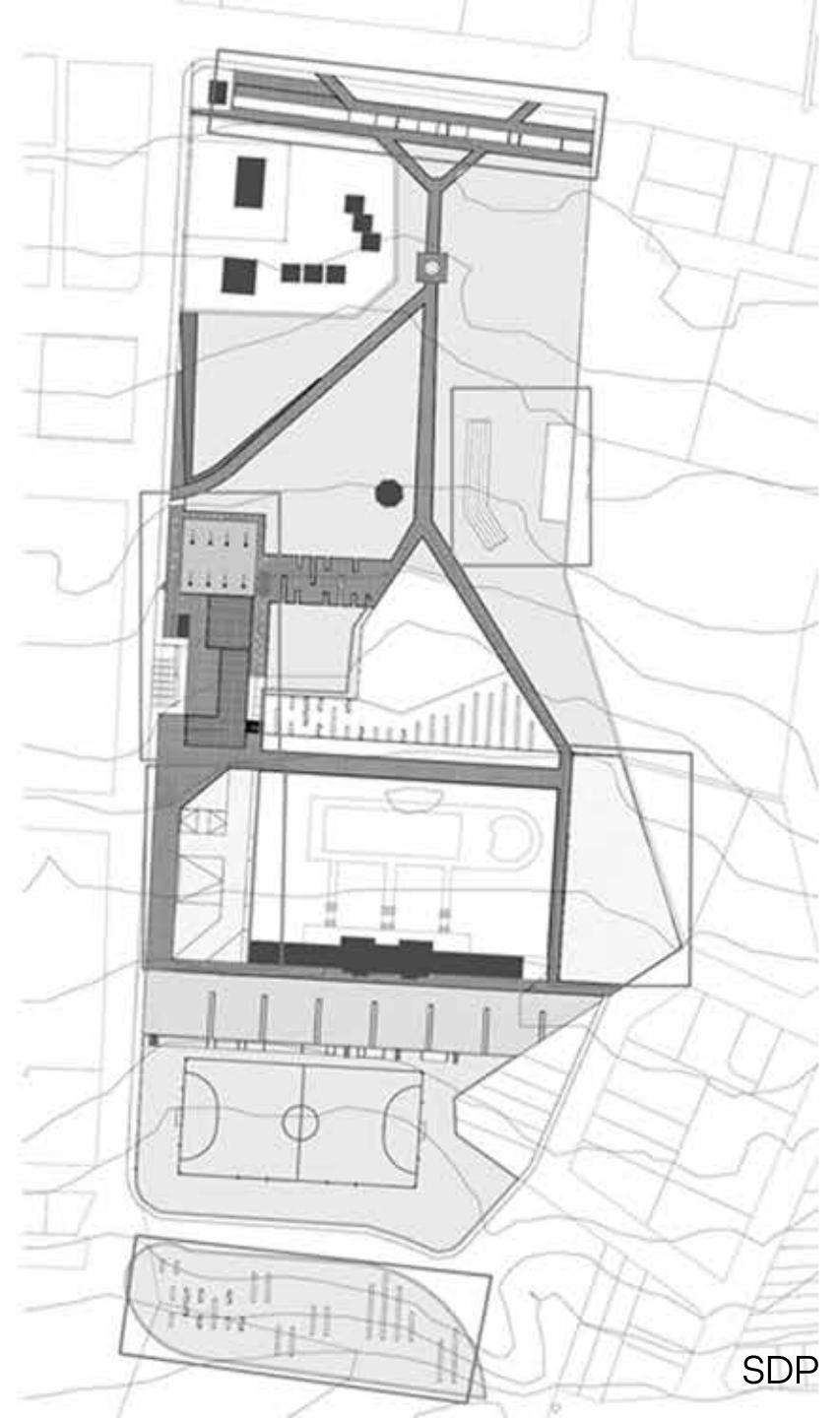
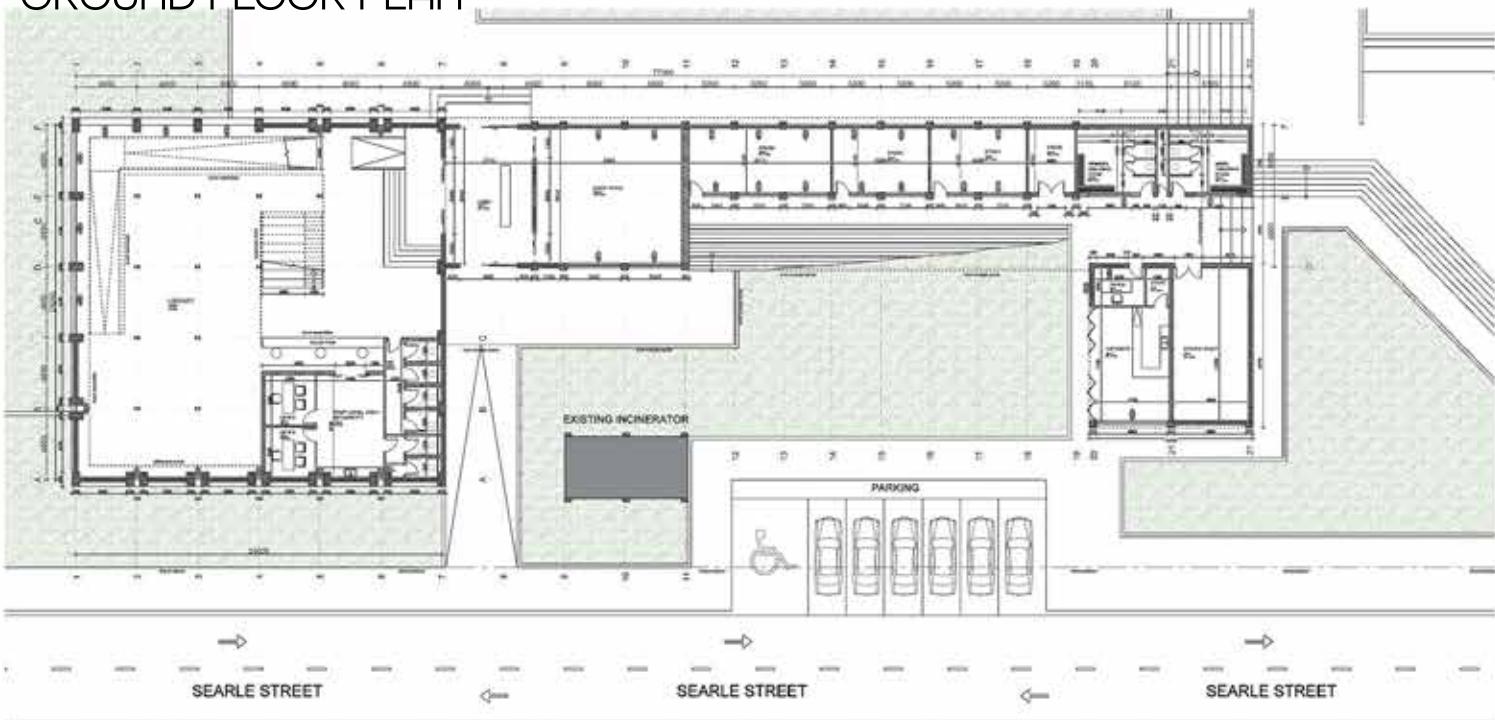
RESIDENTIAL ZONE  
ADJACENT GREEN BUFFER  
TOP PARK  
COMMERCIAL ARTEFACTS  
SWIMMING POOL ENTRANCE  
PLAYGROUND AMENITIES  
SWIMMING POOL  
PARKING LOT  
EX-FRENCH REDOUT  
PAVILION

# PARK AND PUBLIC LIBRARY

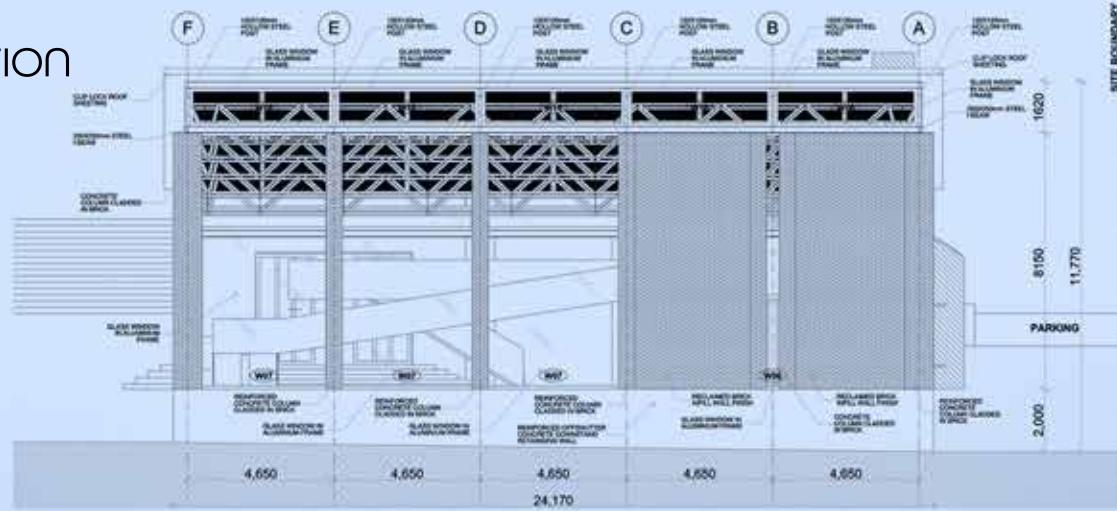
## ROOF TOP PLAN



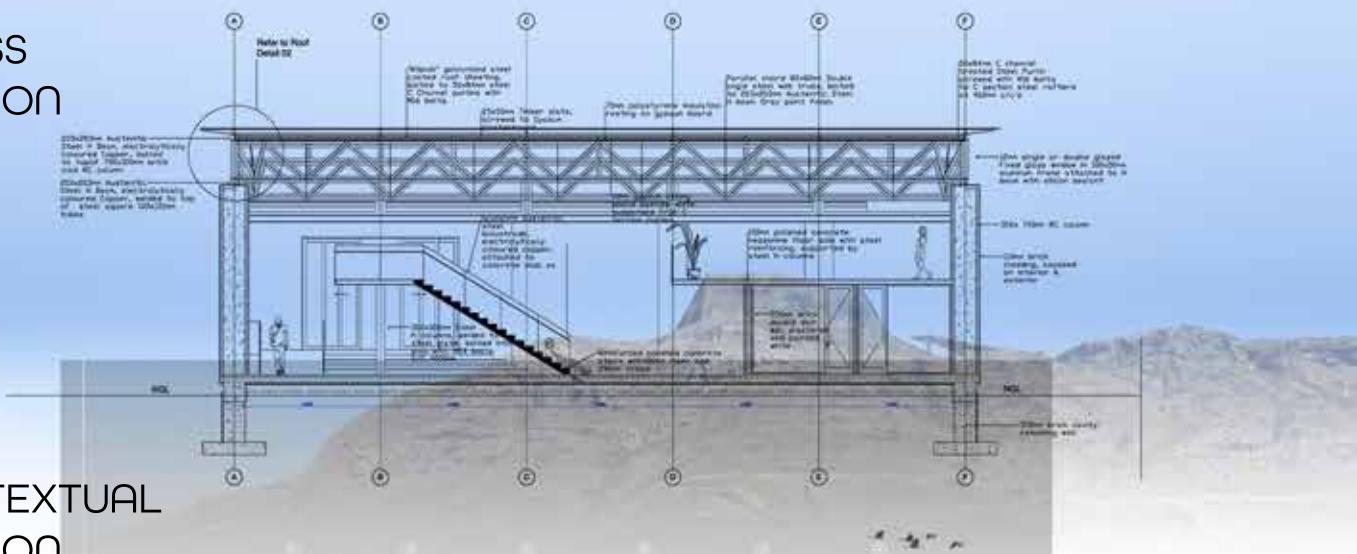
## GROUND FLOOR PLAN



## ELEVATION



## CROSS SECTION



## CONTEXTUAL SECTION

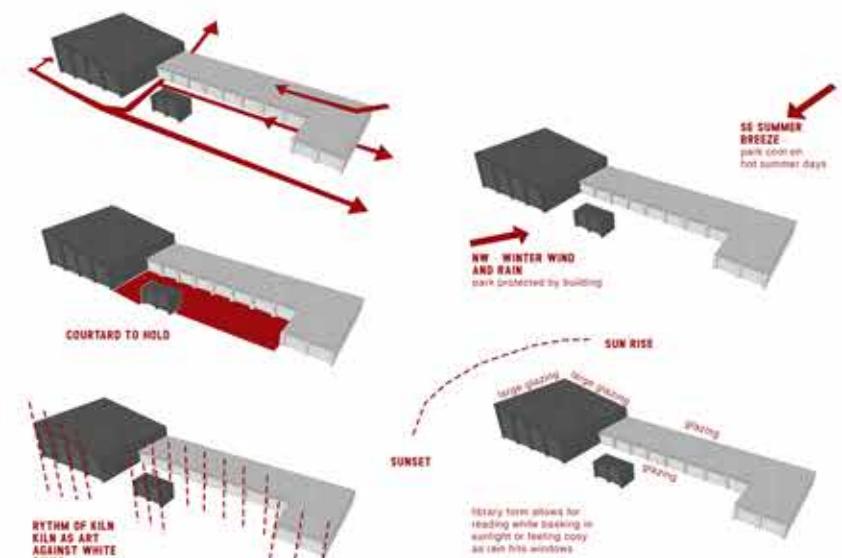


## The Public Library

Though a variety of amenities, ranging from a skatepark to taxi rank to splash ponds exist, the park is held together by a solid stereotomic spine, which is the Public Library.

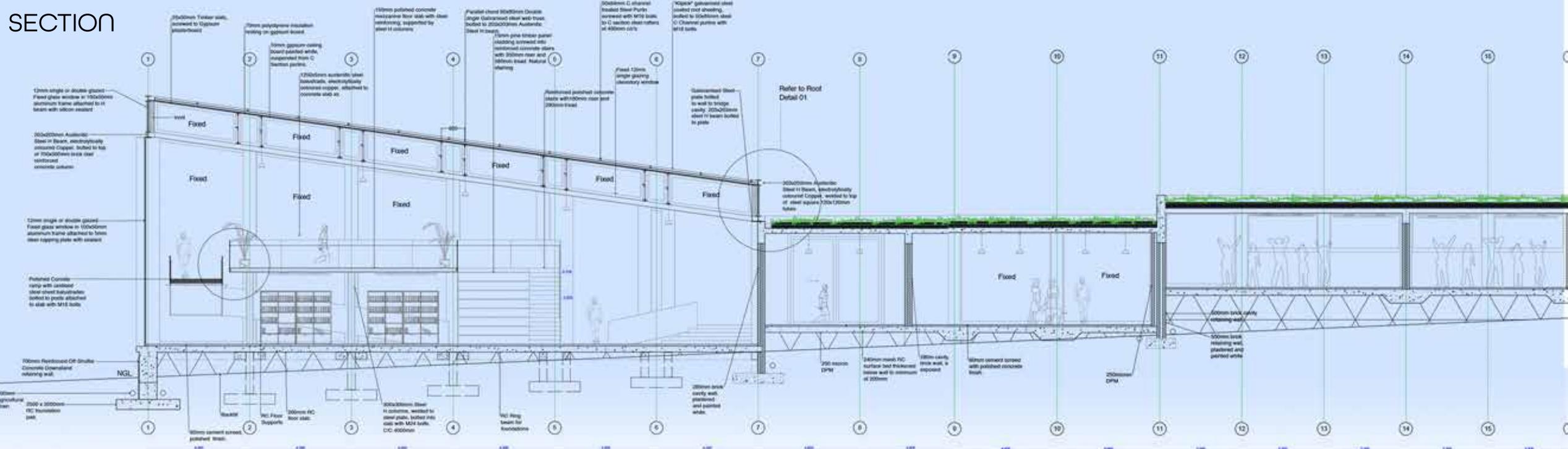
It is designed to be a bold statement, bringing senses of stability and trust to the park. Clerestory windows and large fenestrations illuminate the park at night, turning the library into a gorgoeus lantern made from brick and coppery warm accents.

The library is formed from a large head, full of books and tables for students after school, and a tail, full of supporting services from offices to rentable-mixed-use spaces, bathrooms and a plant room.



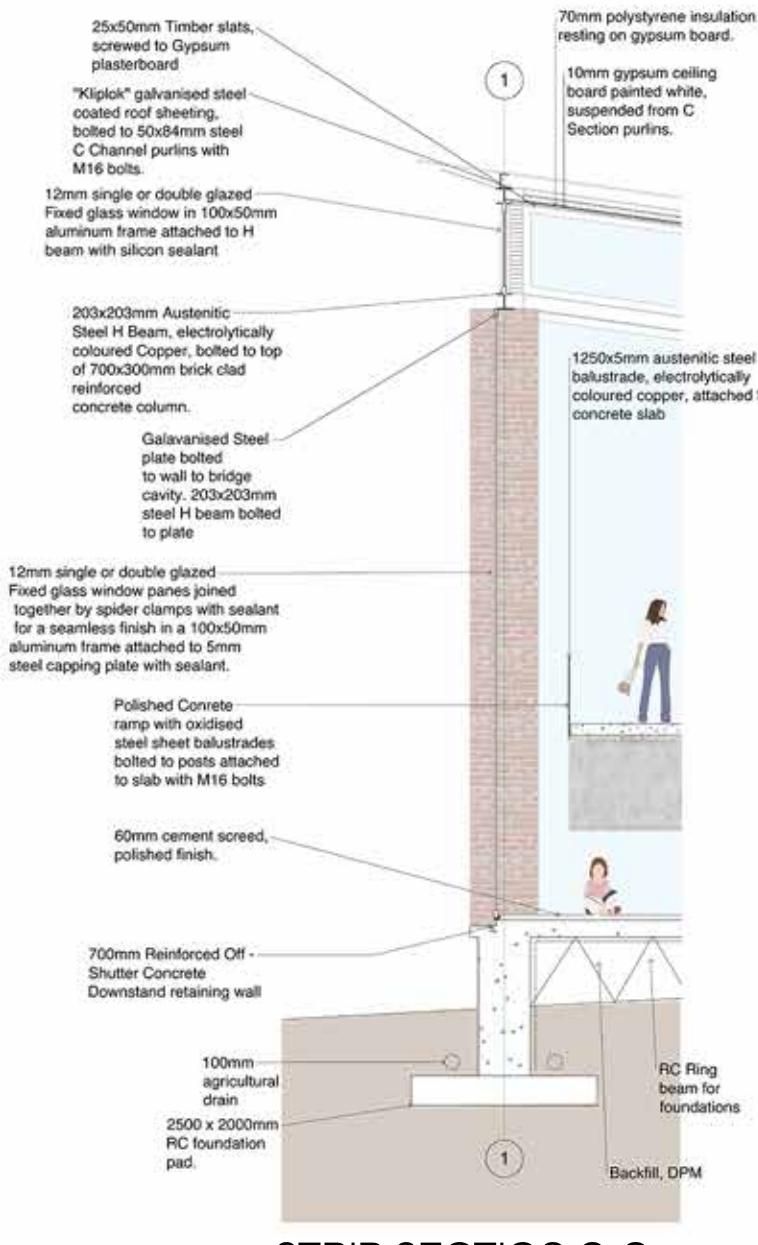
## STRATEGY DIAGRAMS

# LONGITUDINAL SECTION

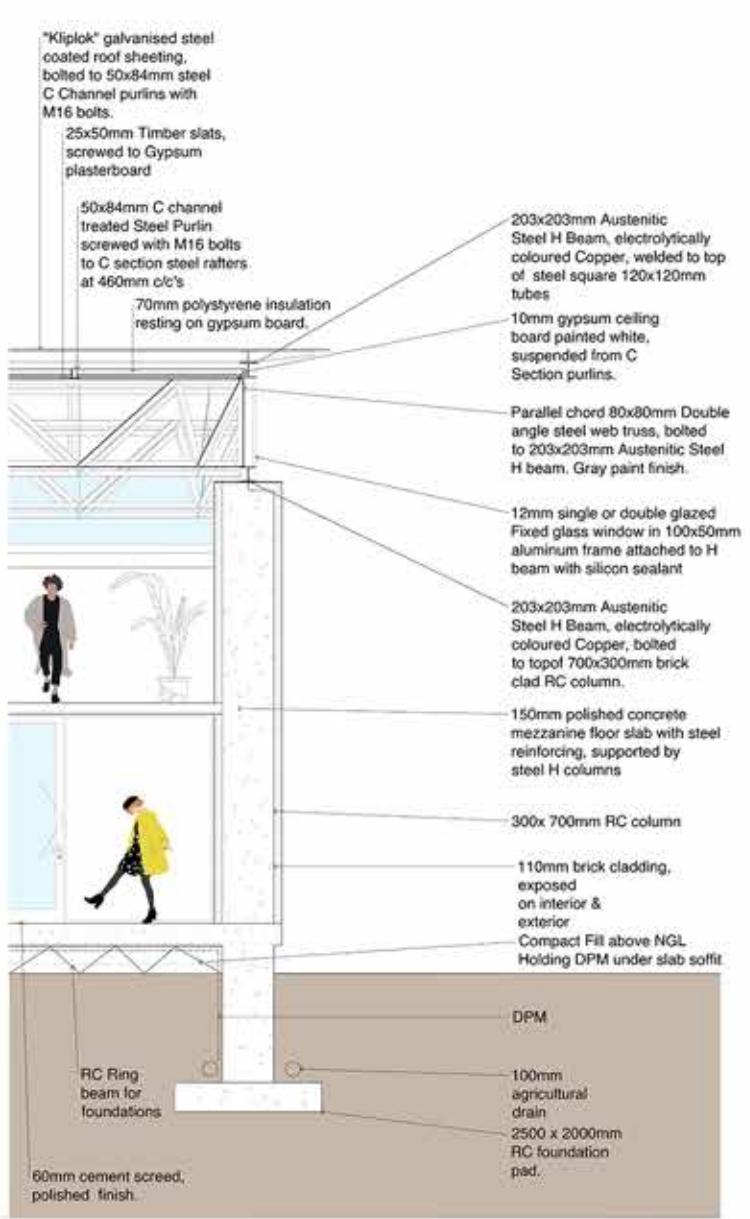


## LONGITUDINAL ELEVATION

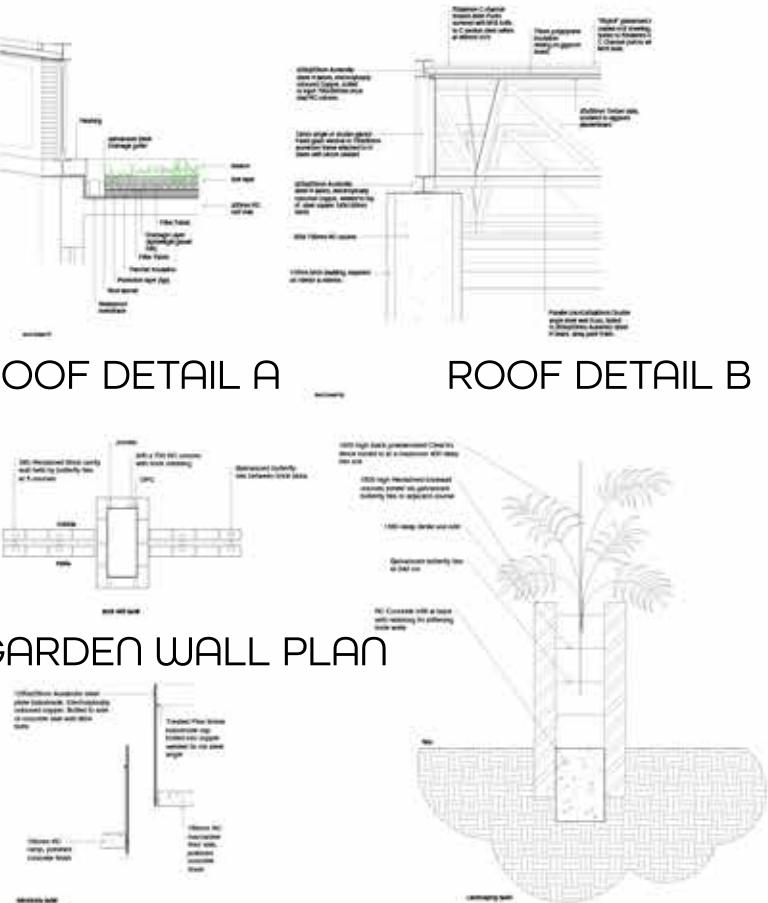




## STRIP SECTION A-A



## STRIP SECTION B-B



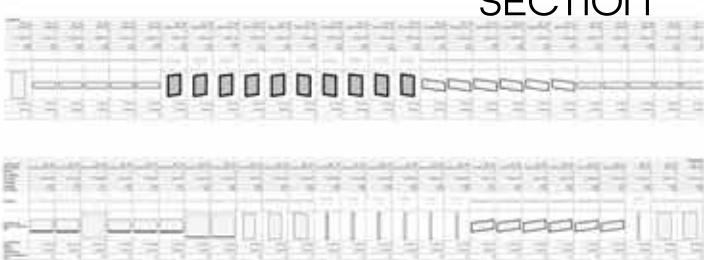
## ROOF DETAIL A

## ROOF DETAIL B

## GARDEN WALL PLAN

## BALUSTRADE DETAIL

## GARDEN WALL SECTION



## WINDOW SCHEDULE



[03]

# SANCTUARY

LGBT+ centred mass housing & homeless shelter:  
Mass Housing Rowhouses  
2019

Keywords:

Protection  
Frame-Construction  
Generative Power



# SALT RIVER

## 1900s

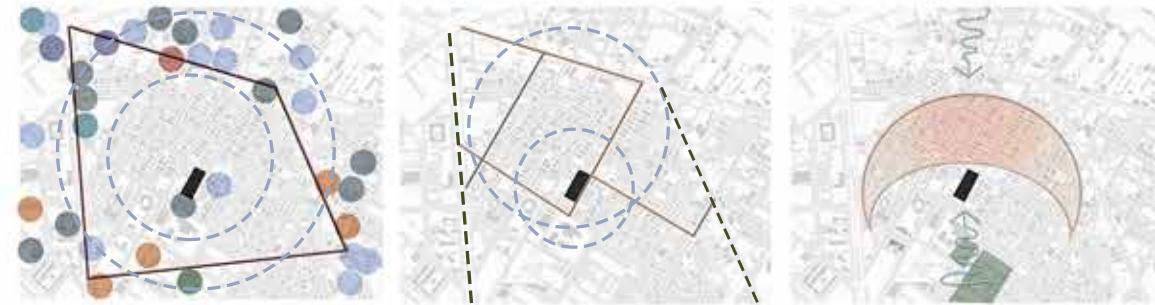
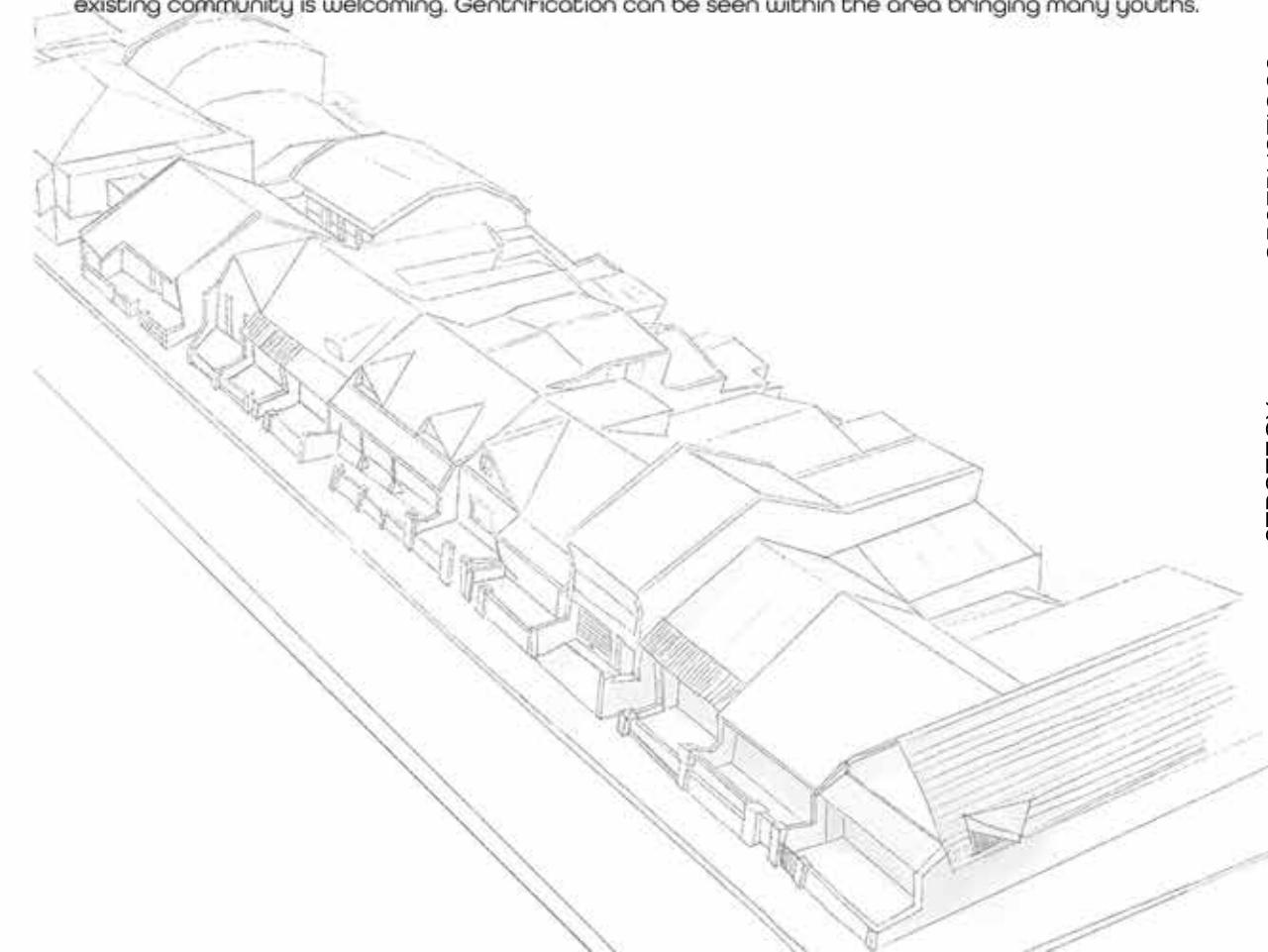
Industrial history and railways lead to rapid development. 2 dominant primary routes structure the area: Albert road and Victoria road. A secondary structuring element is the grid iron residential sub divisions.

## Late 1900s

Salt River became a popular suburb for the working class Cape Malay and Coloured demographics due to the proximity to manufacturing plants even before the Force removals of District 6. Interestingly, the Coloured populace could own property but other races couldn't. Islam and Christianity coexisted in the space.

## Today

Salt river is now a part of South Africa's R20bn city development scheme. Despite urban regress, the existing community is welcoming. Gentrification can be seen within the area bringing many youths.



## OBSERVATIONS



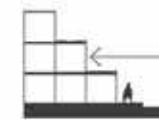
- Common 1 storey
- Uncommon 2 storey
- Varying styles & colours



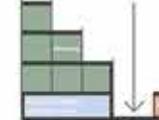
- Victorian/Neoclassical styles
- Commercial spaces are more decorated homes



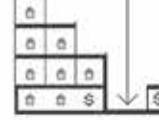
- Complex thresholds
- Eyes on the street
- Permeation



Residential Densification and height offset for scale from street

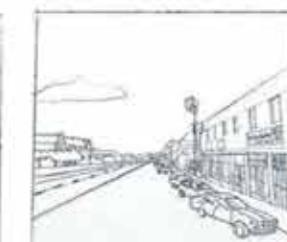
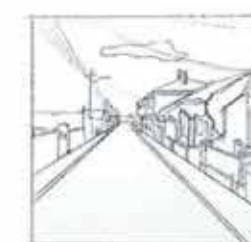


Mixed-income households with shelter below to combat youth homeless crisis in Cape Town.



Mixed-use development that upskills and reinvents mom-and-pa shop typology.

## STRATEGY



Site sketches

# The Design

## Shipping Containers and Variation

The Design is a RDP typology to occupy the whole sight. Created through varying shipping containers painted different colours and insulated with garden roofs of different specific vegetations for diversity

## Valleys, Bridges and Mountains to connect us all

The project offsets from the street and the ground, creating a valley and a bridge to connect to more private residential spaces and provide a safe, commercial valley sub-level from the street.

Here shops, cafes and trade exist and allows for the people in the shelters to be upskilled and sell their things in a safe mixed-use community.



Longitudinal Section



Street Elevation



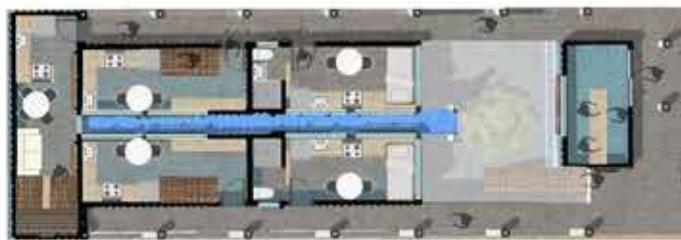
Sub-street Elevation

Bathrooms  
1 bedroom  
Shops  
Sublv1 cafe  
Admin unit



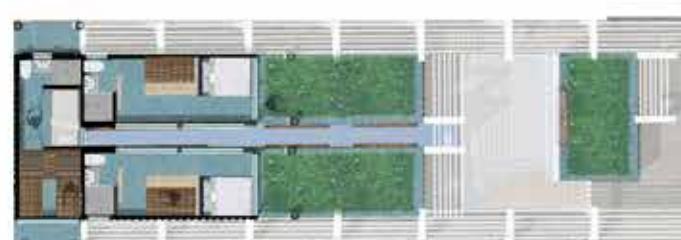
SUBLEVEL PLAN

2 bed family  
1 bed couple  
Studio unit  
Guard hut



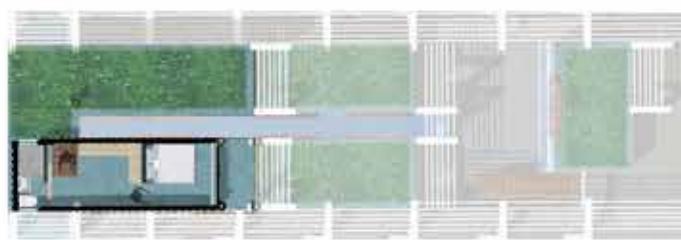
GROUND FLOOR PLAN

2 bed family  
1 bed couple



FIRST FLOOR PLAN

2 bed family



SECOND FLOOR PLAN



#### Structural logic

Concrete frame of arches to evoke sanctuary  
Shipping container infills set upon a concrete constructed basement.



[04]

# Vessels for Cartharsis

Student Respite Pods  
2018

Keywords

Womb

Renew/Recoup/Restore

Treehouse





## ESCAPE FROM THE BUSTLE OF LIFE

### THE PROJECT

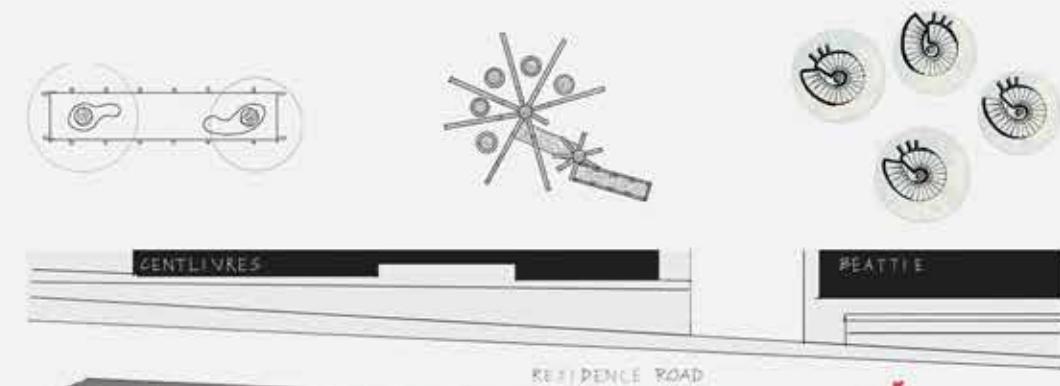
The rapidly developing social and technological world has created no need for students to retreat and ground themselves whilst on campus in the name for better mental health. This project focuses on the provision of wellness pods within the University of Cape Town.

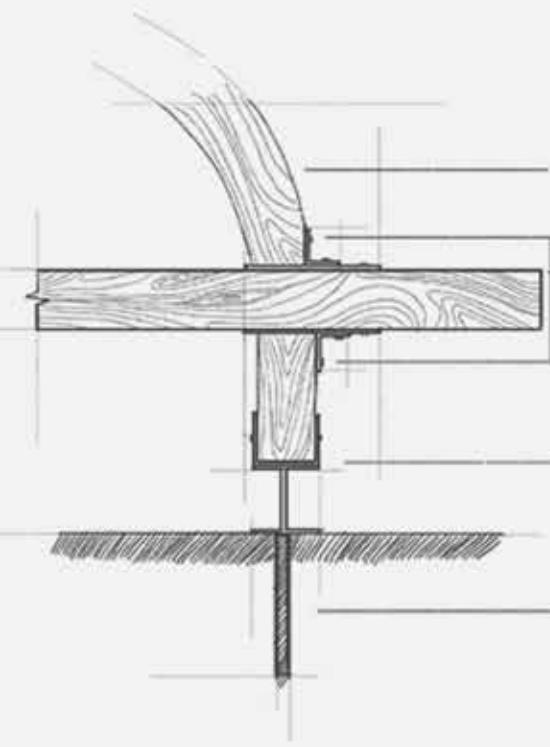
### THE SITE

The site is located in Fuller Gardens, amidst an old victorian garden of hedge walls and tall oak trees. Perfect for reflection and escape.

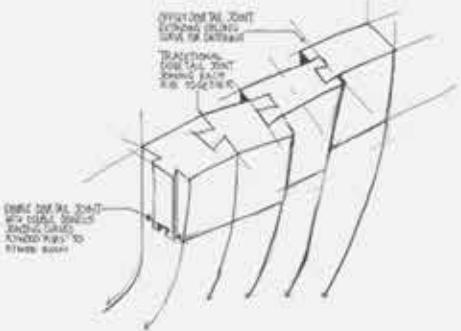
### DESIGN PROCESS

The design began as a simple linear bench between two trees, evolving into a jungle gym-like pavilion for play before reaching the solution; a set of dispersed pods for privacy with skylights.



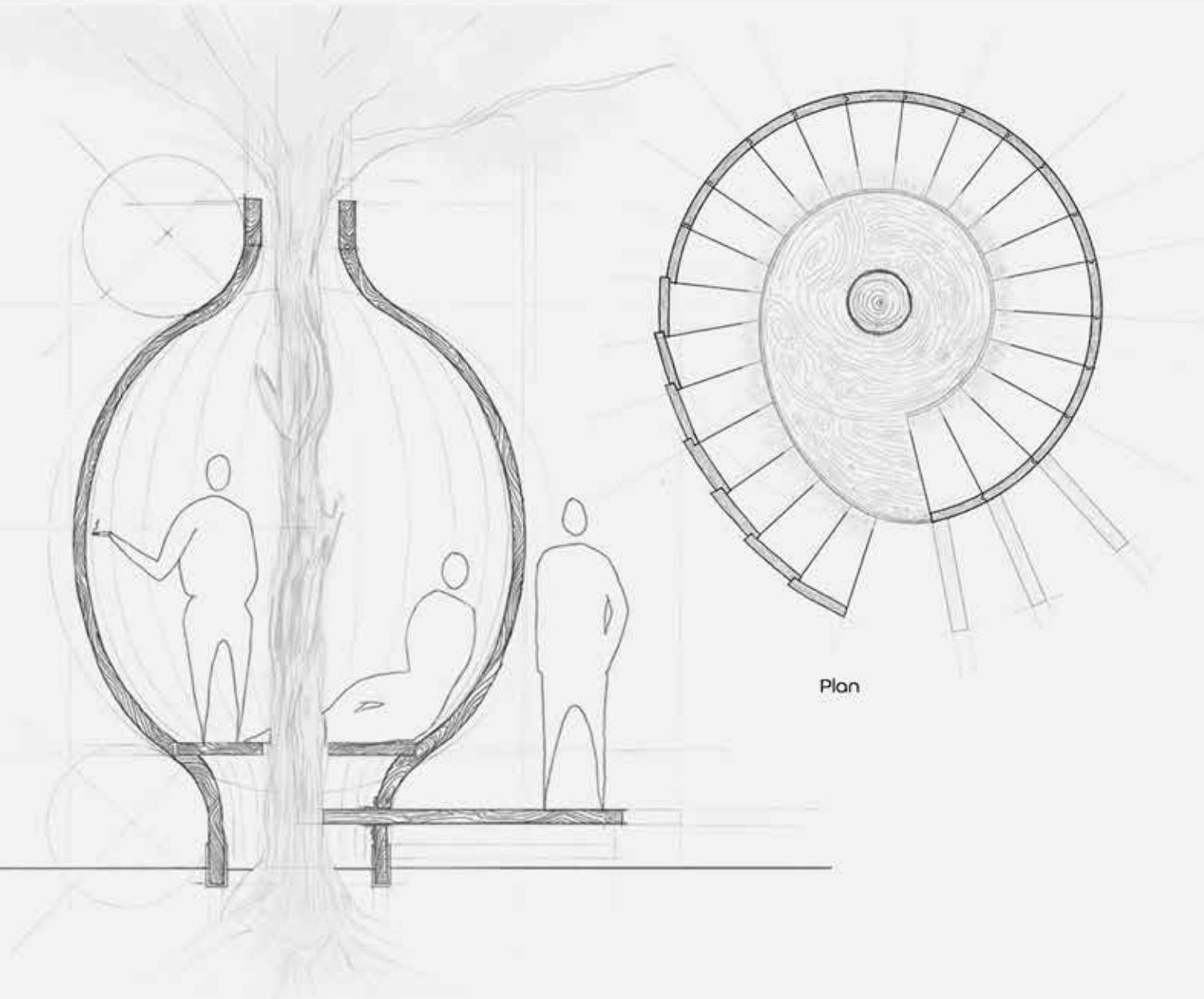


Ground joinery detail



Section

Dovetail shell joinery





[05]

# Connective Tectonics

The Kunye Cultural Community Centre  
Weaving People Space and Time  
2022

Keywords:

Connection  
Roof  
Tectonic  
Cultural Networks

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to flip through this design  
dissertation online >



# CONNECTIVE TECTONICS

How have we lost our connection to timber?

The climate crisis acted as a driver for my masters project.

It prompted an investigation into how we lost our ontological connection to timber.

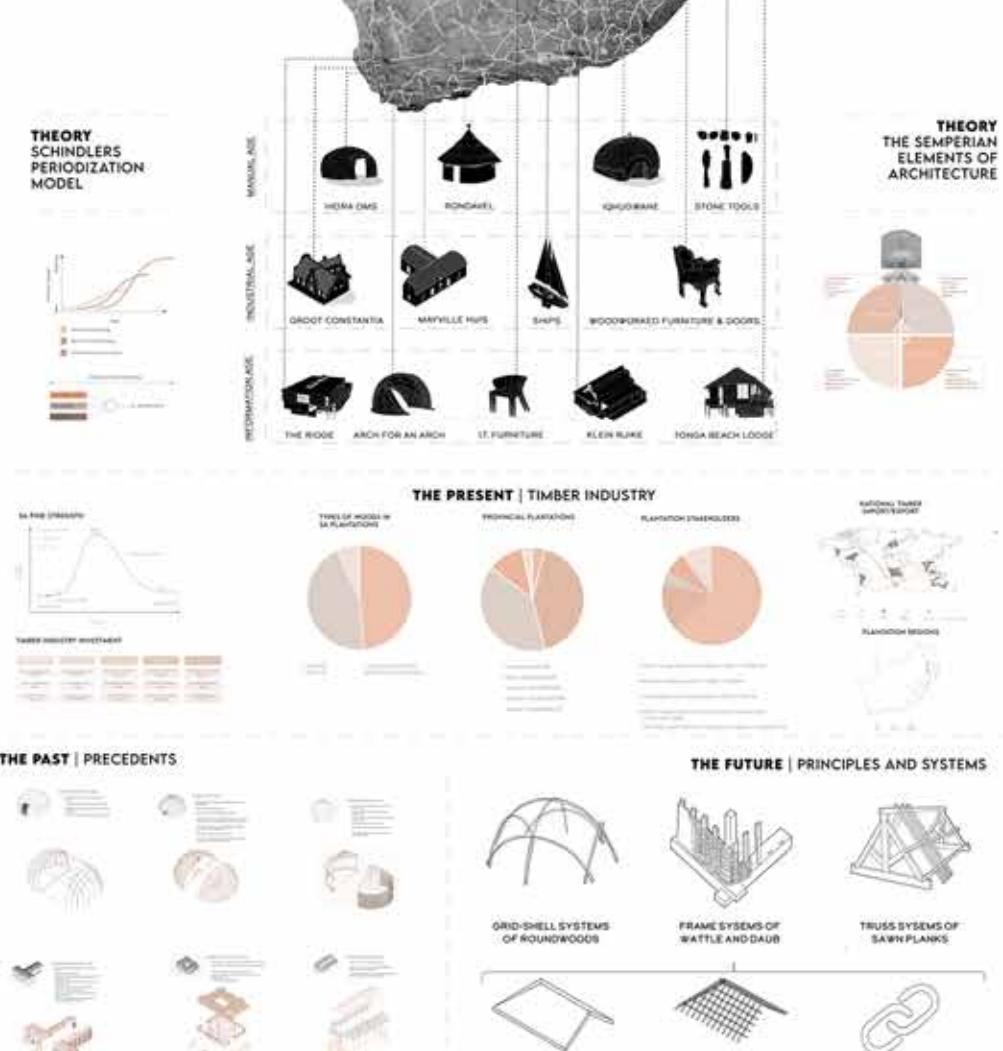
This was explored through tracing timber trajectories from following the timber industry history in South Africa, to myriads of drawings on vernacular architecture to speculating principals of the Roof, Tectonic and Connection as design principals that were derived from these analyses.

## A Speculative Timber Future

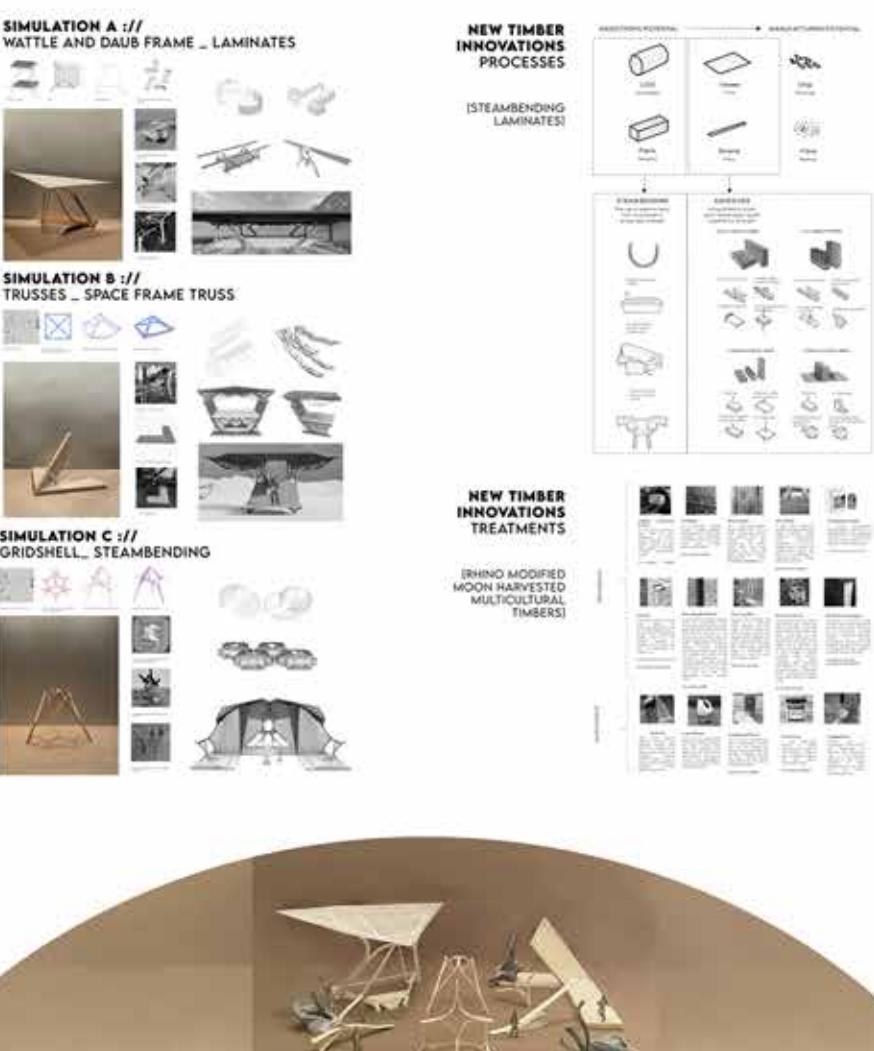
An exploration simulating reinterpretations of past timber practice was undertaken to explore the material of timber and gain an understanding of how to reference the past without copying.

The experiments explored parametric design and structural optimization through Rhino Coding before being made into physical prototypes.

## THE STUDY TRACING TIMBER TRAJECTORIES



## THE SIMULATION TRANSLATING TIMBER TRAJECTORIES





# THE STRATEGY TUNING TIMBER TRAJECTORIES

## DESIGN STRATEGY

### PROGRAMME

Local tours and a guide helped unpack what the community needs within IY.

The programme is of a learning community centre that taps into a local NGO, the lalela project, to educate the youth and community about cultural arts for upliftment.

The brief is of a gallery, theatre, studios and a community centre for the residents of IY. The cultural facilities accommodate a hearth for the existing cultural activities in Hout Bay.

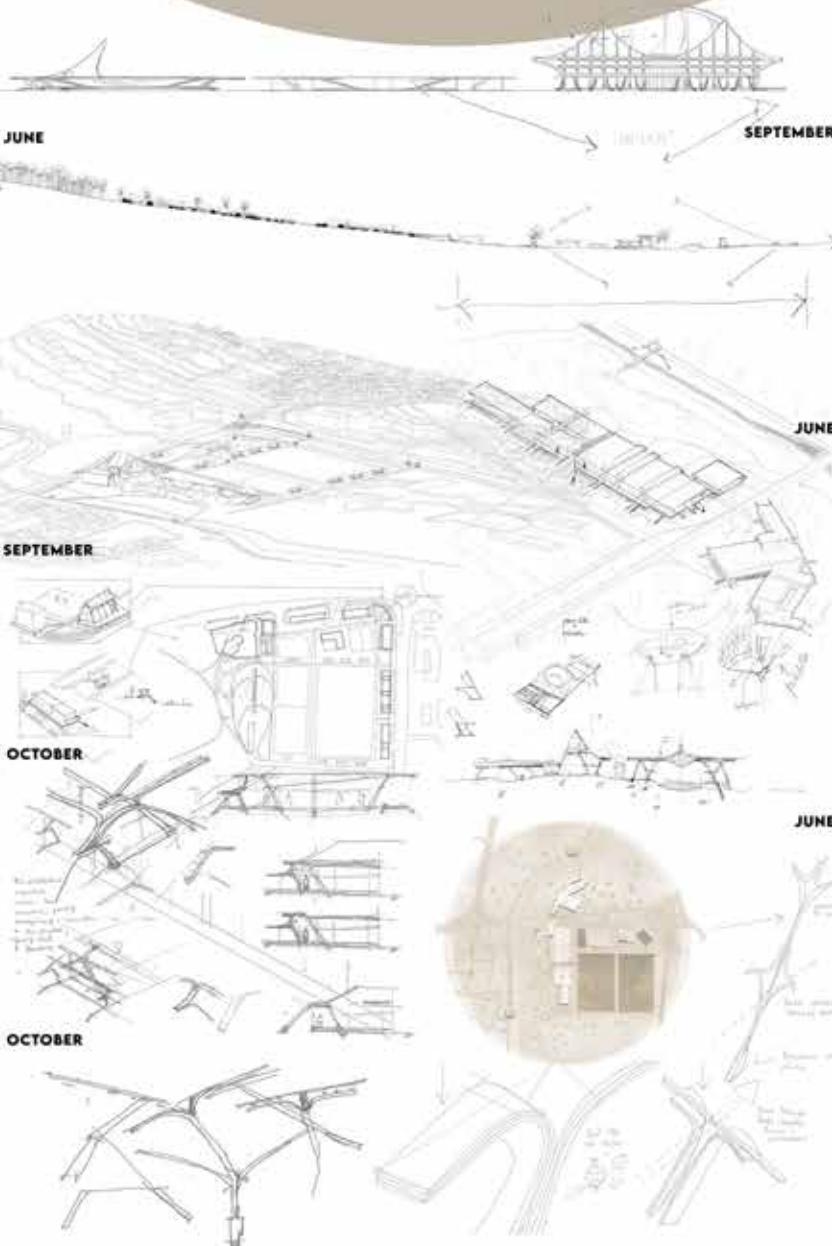
### ANALYSIS

The analysis and design response was derived along 3 lines of connection; what is the site, how do we perceive the site and what have we done to the site.

These were explored and answered along 3 respective analyses, the geographical, the metaphysical and the built Fabric.



# THE SKETCHES TESTING TIMBER TRAJECTORIES



# DESIGN STRATEGY

## THE DESIGN

Blending aprocentric Fantasies and site-specific nautical historical references of ship hulls, the deisng consists of a series of detached buildings that culminate into a theatrical crescendo of performance node of exhibition galleries, theatre space and we-work study cafe,

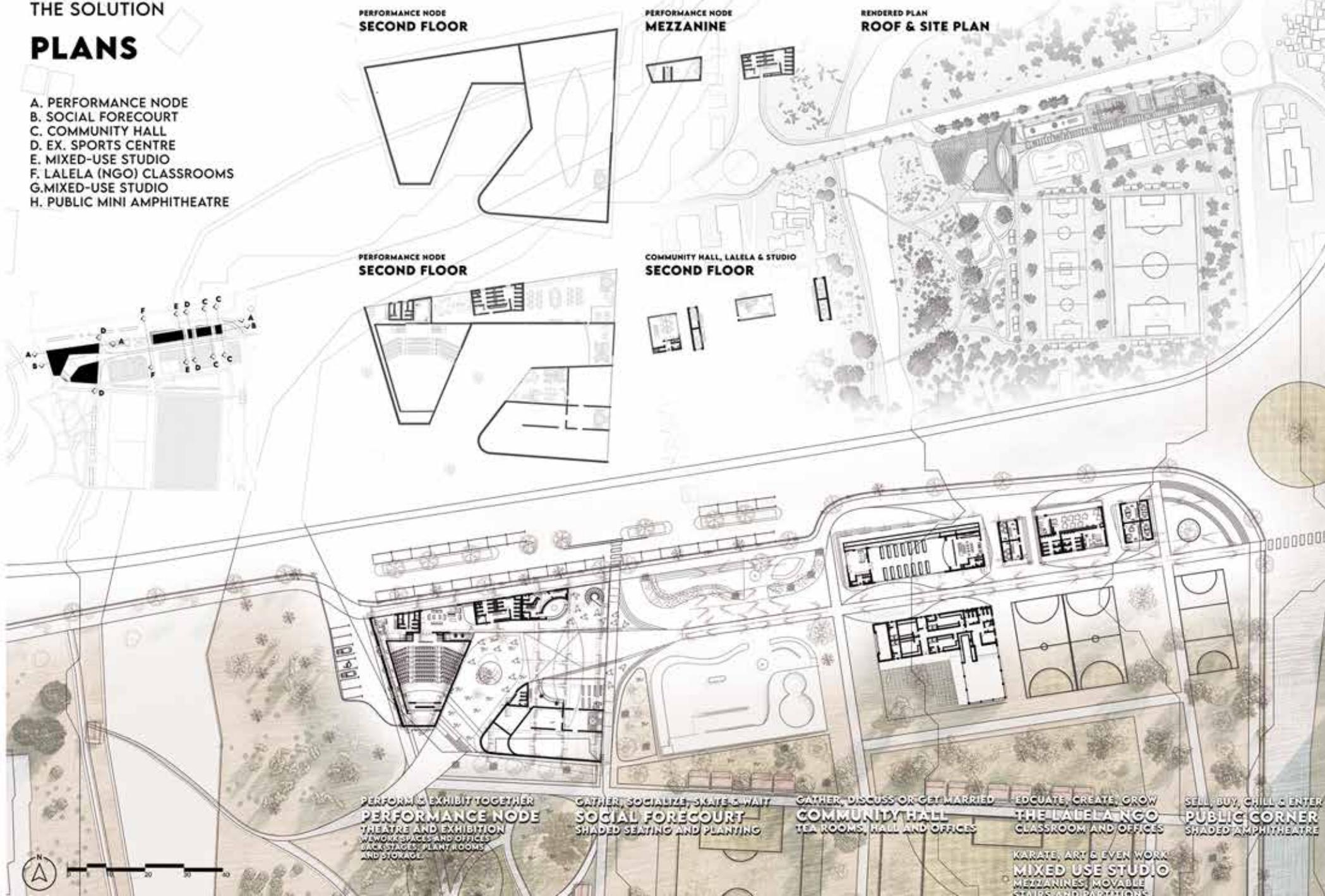
## A SERIES OF BUILDINGS

The site is large and widely unused. As such, the project's intention was to activate the whole site for the community to use. This resulted in a series of services being designed from a public garden to aditional soccer fields, a social Forecourt and better pathfinding with bridges and shaded pavillions and benches to watch sports and enjoy nature.

## THE SOLUTION

### PLANS

- A. PERFORMANCE NODE
- B. SOCIAL FORECOURT
- C. COMMUNITY HALL
- D. EX. SPORTS CENTRE
- E. MIXED-USE STUDIO
- F. LALELA (NGO) CLASSROOMS
- G. MIXED-USE STUDIO
- H. PUBLIC MINI AMPHITHEATRE



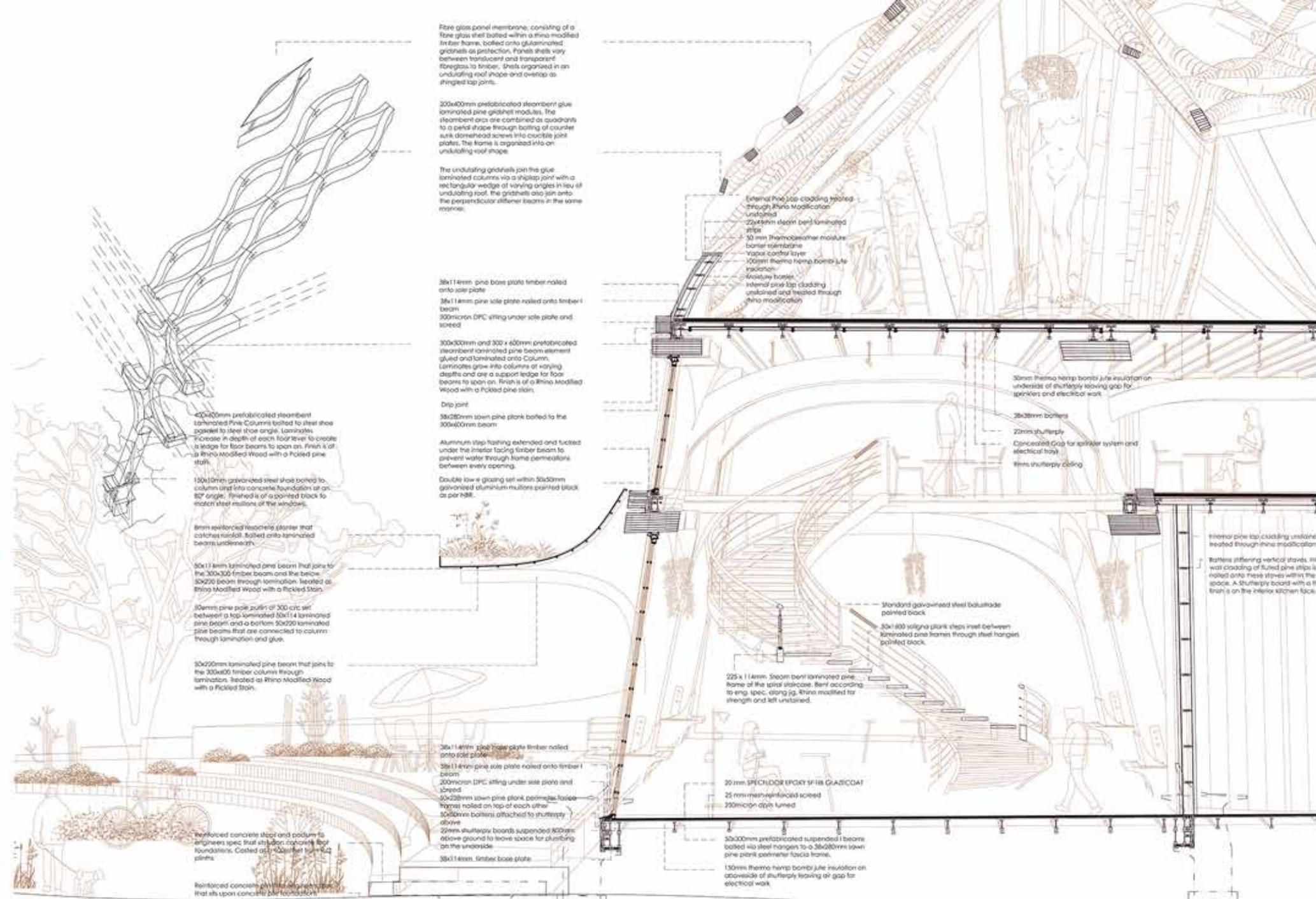
# STRUCTURE

## INSPIRED BY INNOVATION

Architectural decisions were also informed by the choice of using timber and the investigations of the possibilities of timber innovations in our contemporary times. Steambending and lamination were an intrinsic part of the design exploration and bore carefully crafted buildings and pavilions along the site.

## CULMINATION OF PRECEDENTS PAST, PRESENT AND FUTURE.

The structure took inspiration from the past vernacular buildings and became roof dominated buildings for which people could gather under to share ideas, learn and create art. The contemporary nature of its tectonics were inspired by international case studies such as the Van Dusen Botanic Centre and the Lincoln Park Pavilion.



# STRUCTURAL ASSEMBLIES

## INTERNATIONAL PRECEDENT STUDIES



SOURCE: PERKINS AND WILSON

SOURCE: STUDIO DANG

## VAN DUSEN BOTANICAL CENTRE



SOURCE: PERKINS AND WILSON

## LINCOLN PARK PAVILION



SOURCE: STUDIO DANG

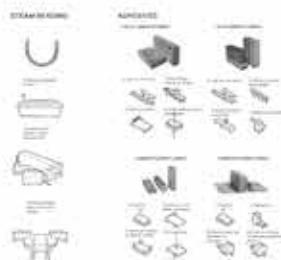
## DETAIL STUDY



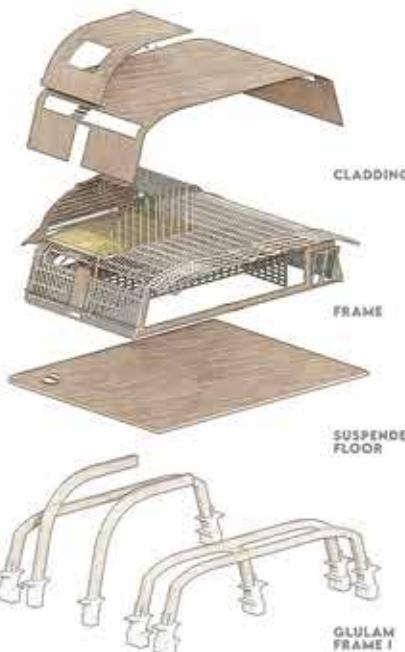
## EXPLODED ASSEMBLIES MIXED USE STUDIO I & II



## FORM COMPLEXITY EXPLORATION THROUGH ANISOTROPIC ADDITION



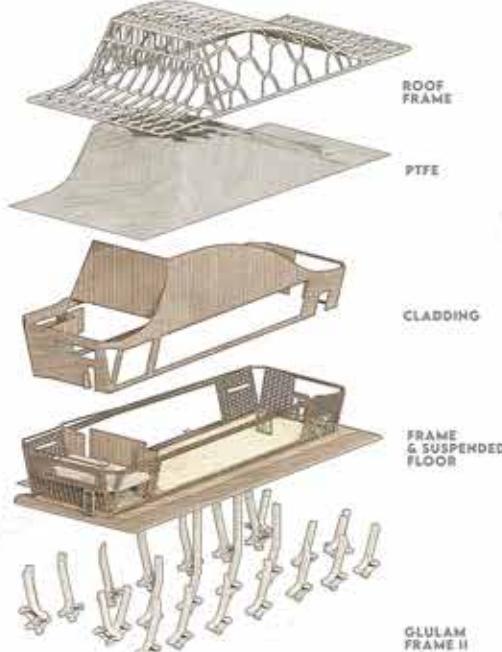
## LALELA FOUNDATION



## GLULAM FRAME TYPOLOGY I



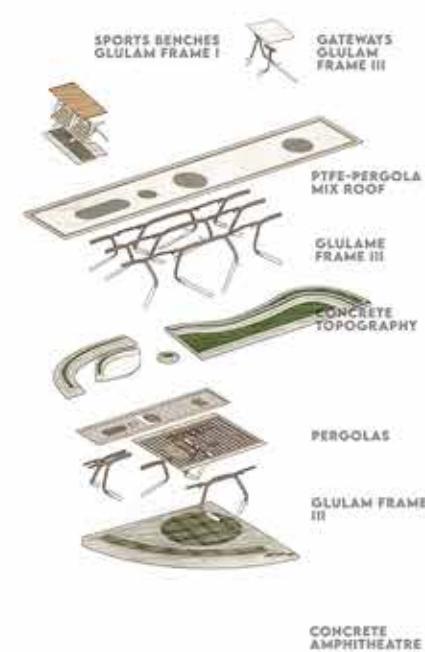
## COMMUNITY HALL



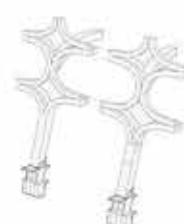
## GLULAM FRAME TYPOLOGY



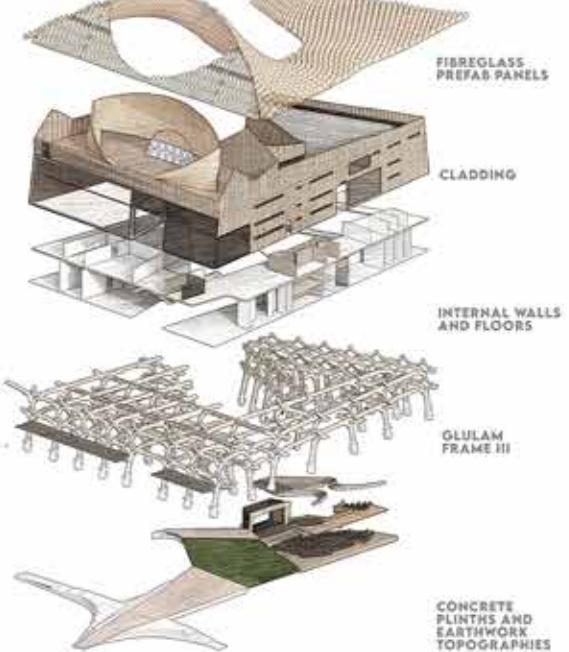
## STANDS, GATEWAYS, SHADING



## GLULAM FRAME TYPOLOGY III



## PERFORMANCE NODE



# CROSS SECTIONS

CROSS SECTION D-D  
**MIXED USE STUDIO II**



CROSS SECTION E-E  
**LALELA FOUNDATION**



CROSS SECTION G-G  
**SOCIAL FORECOURT**



CROSS SECTION F-F  
**COMMUNITY HALL**



AERIAL SHOT



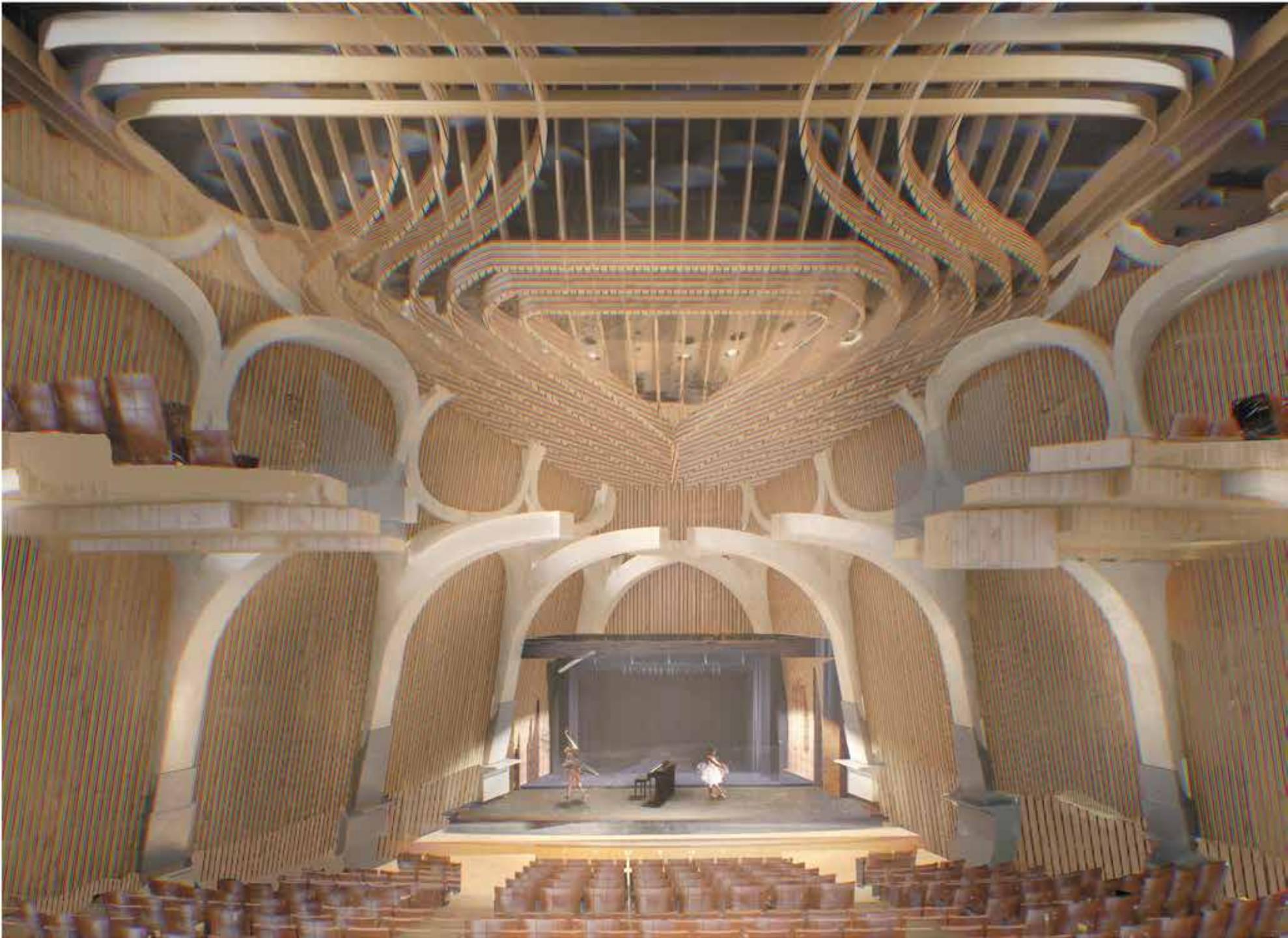
# PERFORMANCE NODE APPROACH



ROOF  
EXHIBITION  
ROOM



# THEATRE



# COMMUNITY HALL



