

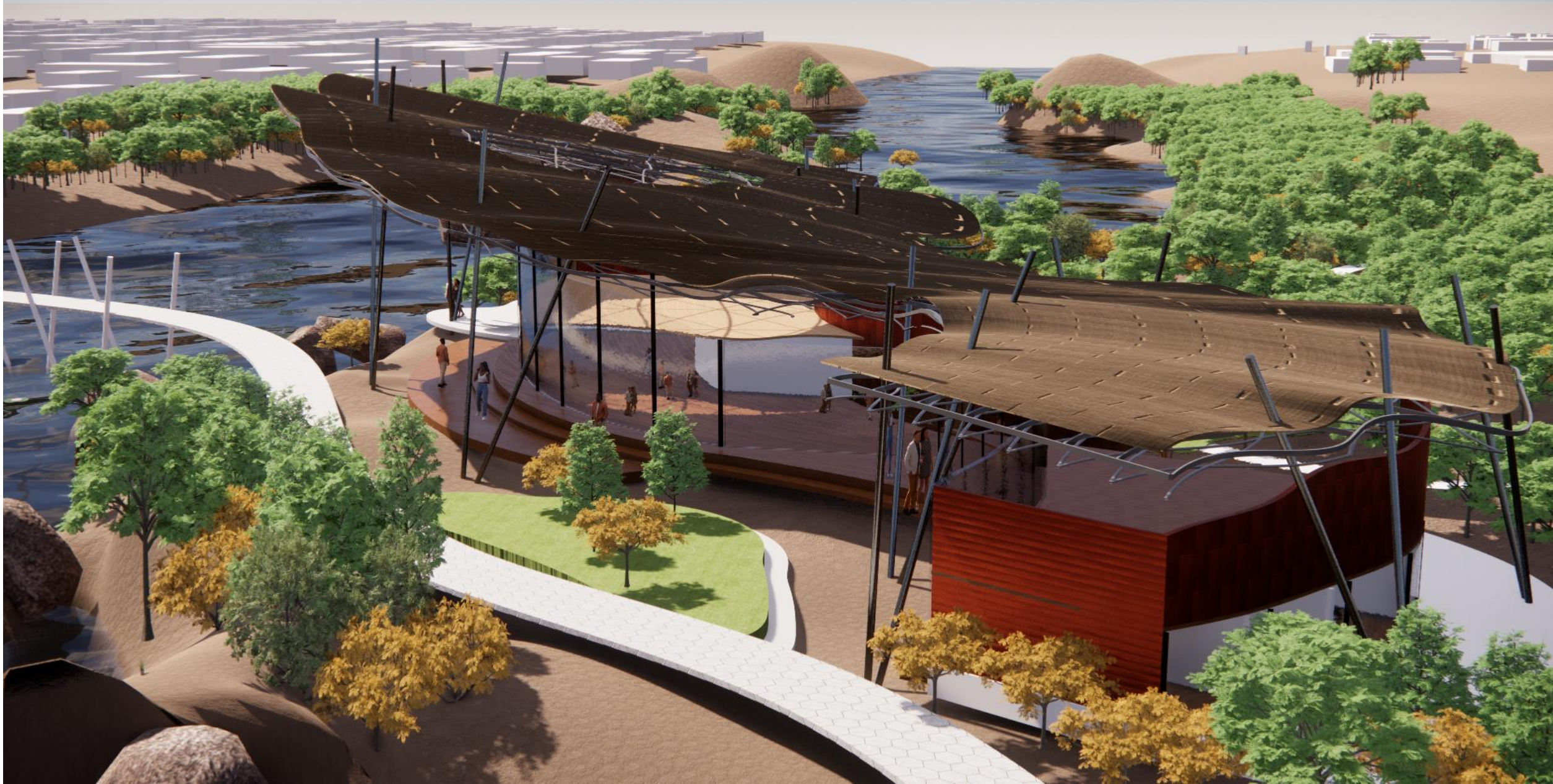
DESIGN PORTFOLIO

TSHEPHANG DIKGANG

2023



Reimagining . SEGODITSHANE RIVER



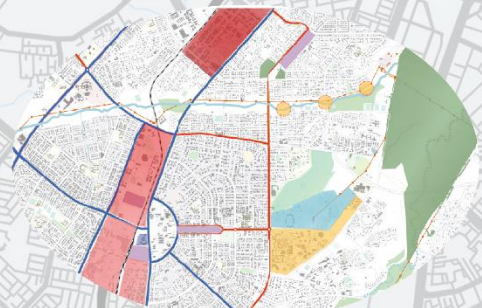
SITE ANALYSIS



NORMAL FLOW OF THE RIVER



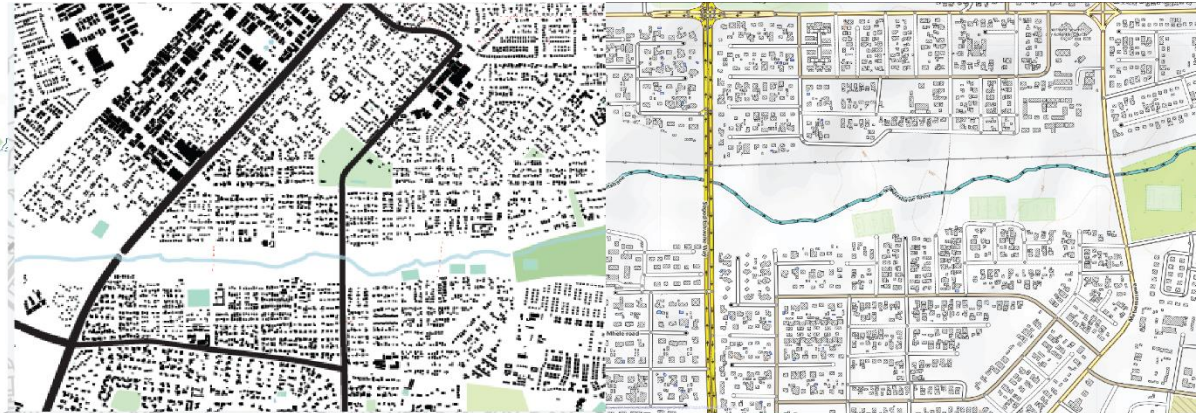
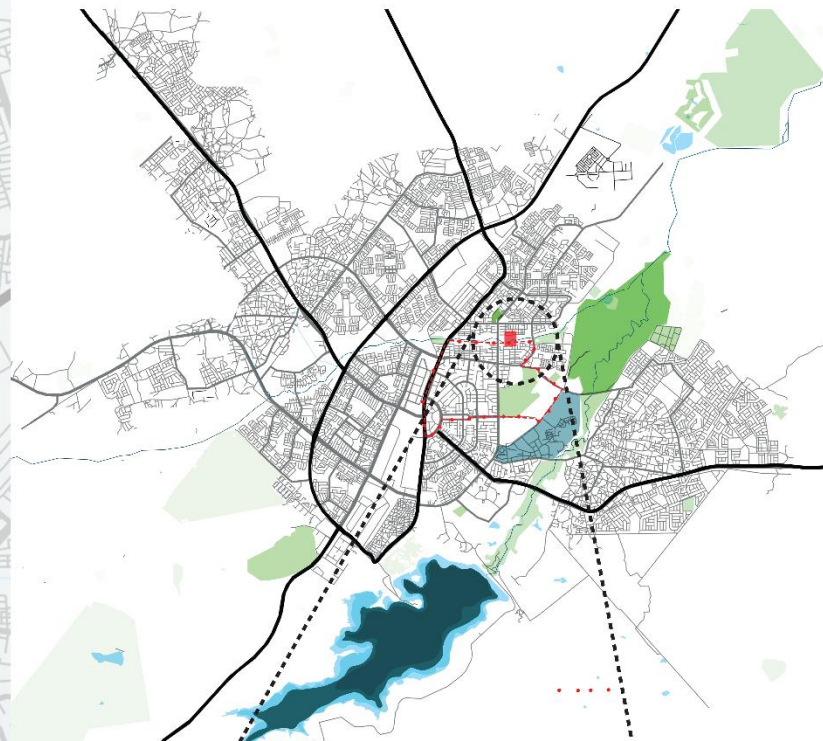
OVER FLOW OF THE RIVER



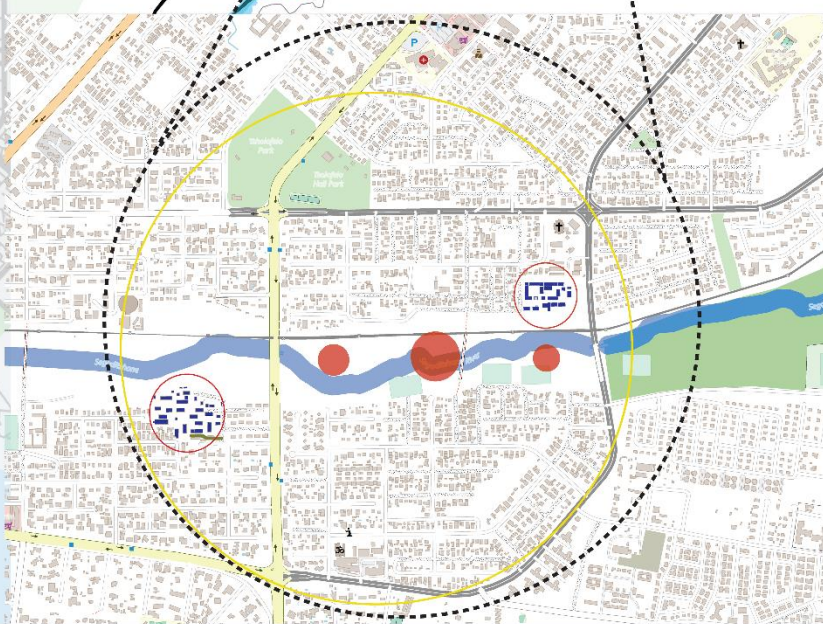
INDUSTRIAL & CENTRAL BUSINESSES



GREEN SPOTS ON SITE

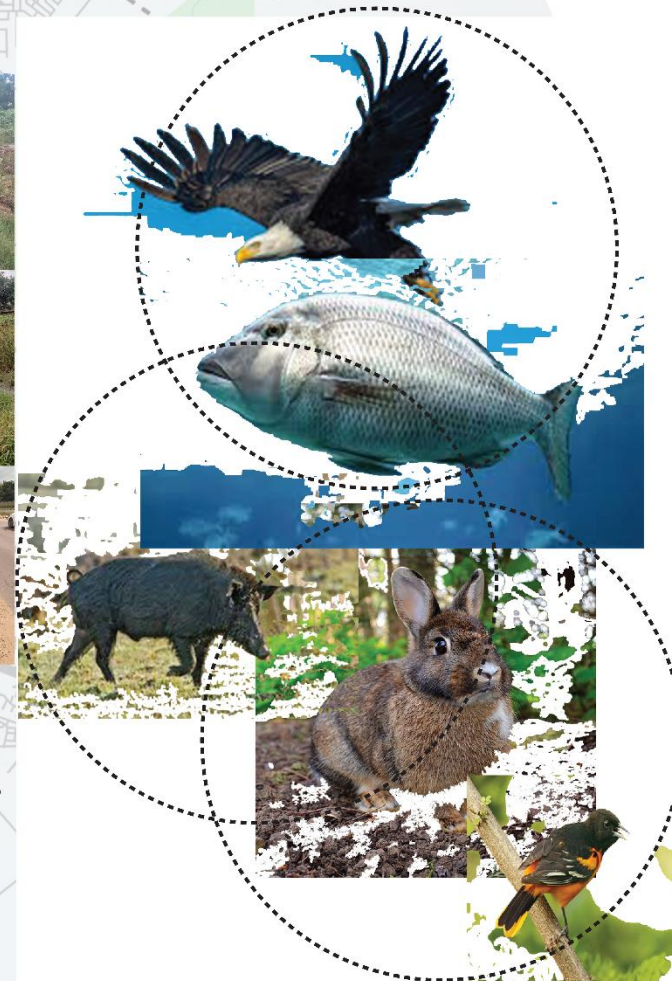


NOLI MAPS: SETTLEMENTS & ROAD NETWORKS

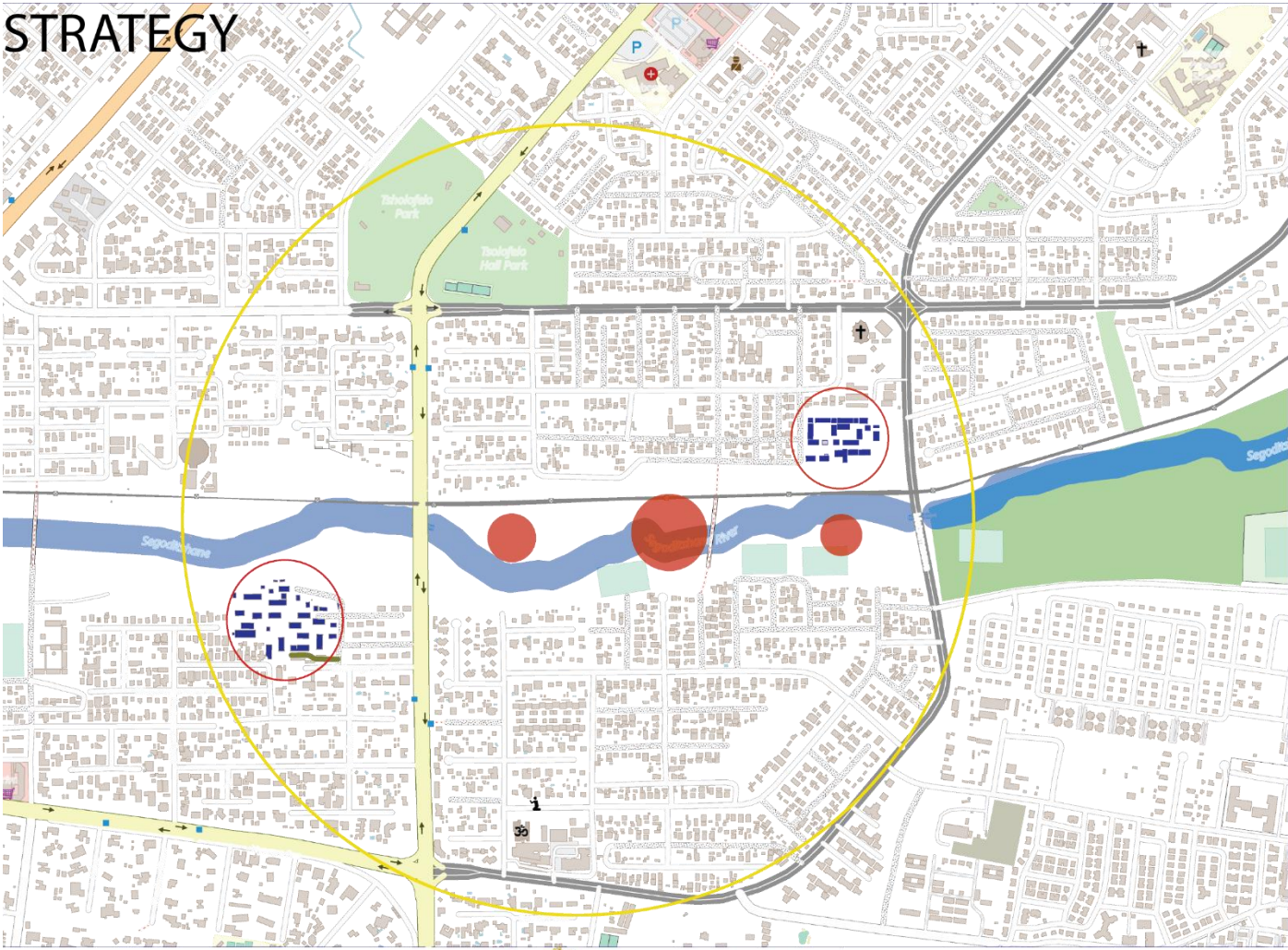


CURRENT STATE OF THE RIVER

A LOT OF WASTE AND EVEN GREY WATER FROM THE RESIDENTIALS
THERE IS A LOT OF POLLUTION TAKING PLACE ALONG THE RIVER
CUTTING DOWN OF TREES THAT CAN CAUSE DEFORESTATION
THE RIVER FLOWS WITH REASONS HENCE IT DRIES UP
POLLUTING AS WELL DESTROYING THE ECOSYSTEM



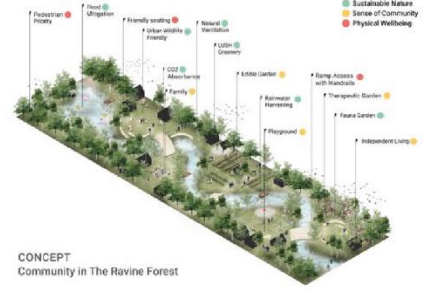
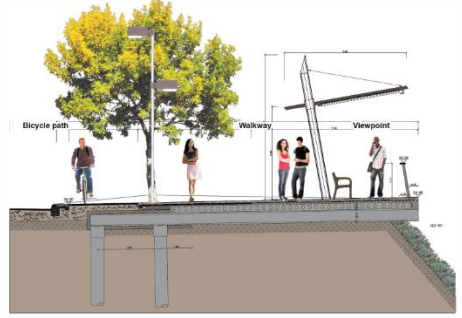
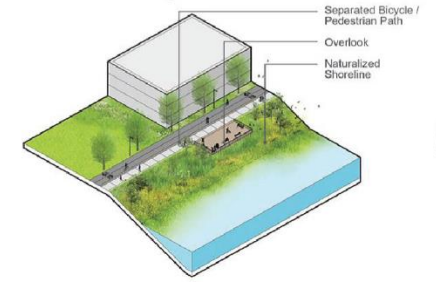
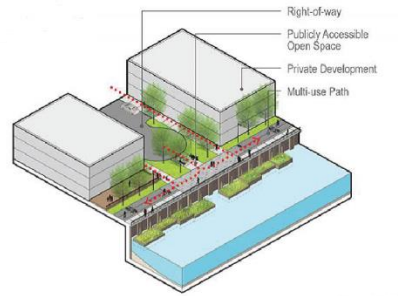
STRATEGY



CREATING WALKABLE SPACES OR PATHS ON SITE



Bioswales create streams for storm and grey water in to the river, it also allows cleaning of grey water, helps to reduce flooding.



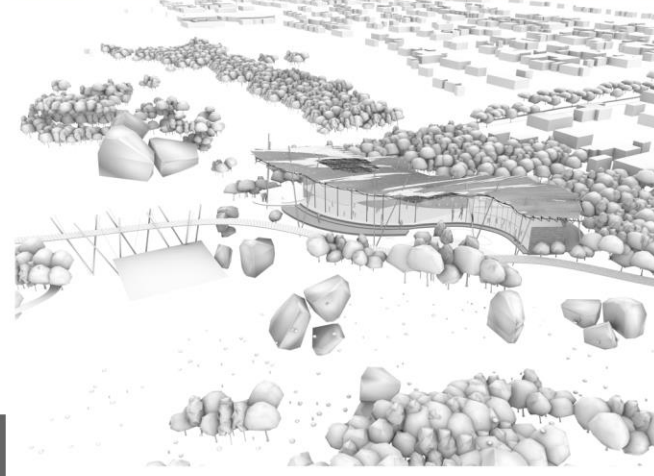
CONCEPT Community in The Ravine Forest

PROGRAM OF SPACES

CATEGORY	SPACE	NO. OF PEOPLE	AREA
PUBLIC SPACE (arrival)	Public library	50	100
	Restaurant	25	50
	aquariums	25	50
Wildlife research Centre	Classrooms	50	100
	Computer labs	25	50
	Exhibition room	25	50
	labs	25	50
Housing for graduates	Graduate acc	200	1000
	Undergraduate acc	400	1000
	Courtyard	80	150
Market place	Auditorium	50	100
	Sitting Decks/terrace	50	100
Recreational spaces	View points	25	50
	Parks		
	Fishing ponds		
	Walking & cycling paths		

Terrace reduces effects running storm water





Welcome to Ecological design, a visionary project to revitalize and diversify the existing ecosystem of the Segodishane River.

The initiative incorporates a concept known as ecological islands.

Ability to increase biodiversity and have a positive impact on the environment. By maximizing the surface area in contact with water,

We strive to build an ecosystem that continues to thrive.

Over time, human intervention affected the Segoditshane River, straightening the course of the river and greatly increasing development.

occur in that environment. As a result, the region is now facing a relapse.

A challenge to the annual flood that disrupts our daily lives. our project is looking for

To reverse this damage and restore harmony between nature and human habitats.

I want to breathe with innovative design and thoughtful planning

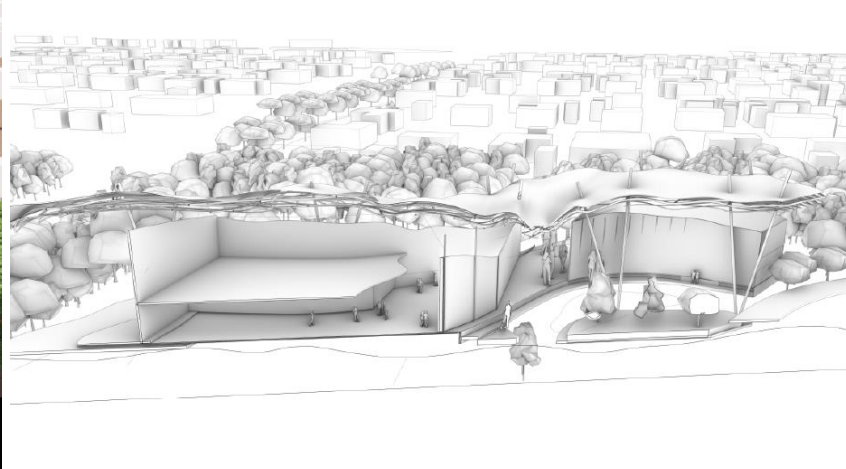
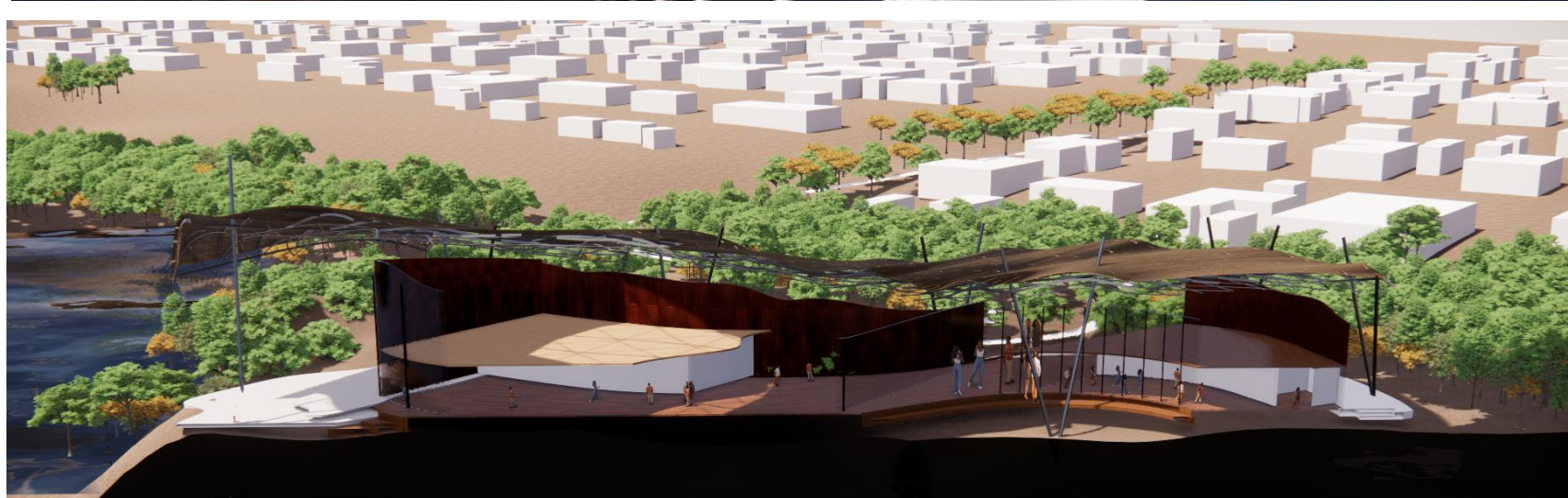
Breathe new life into the Segoditshane River. By reintroducing natural features

Our vision is to reduce flood risk and create a comfortable and resilient environment.

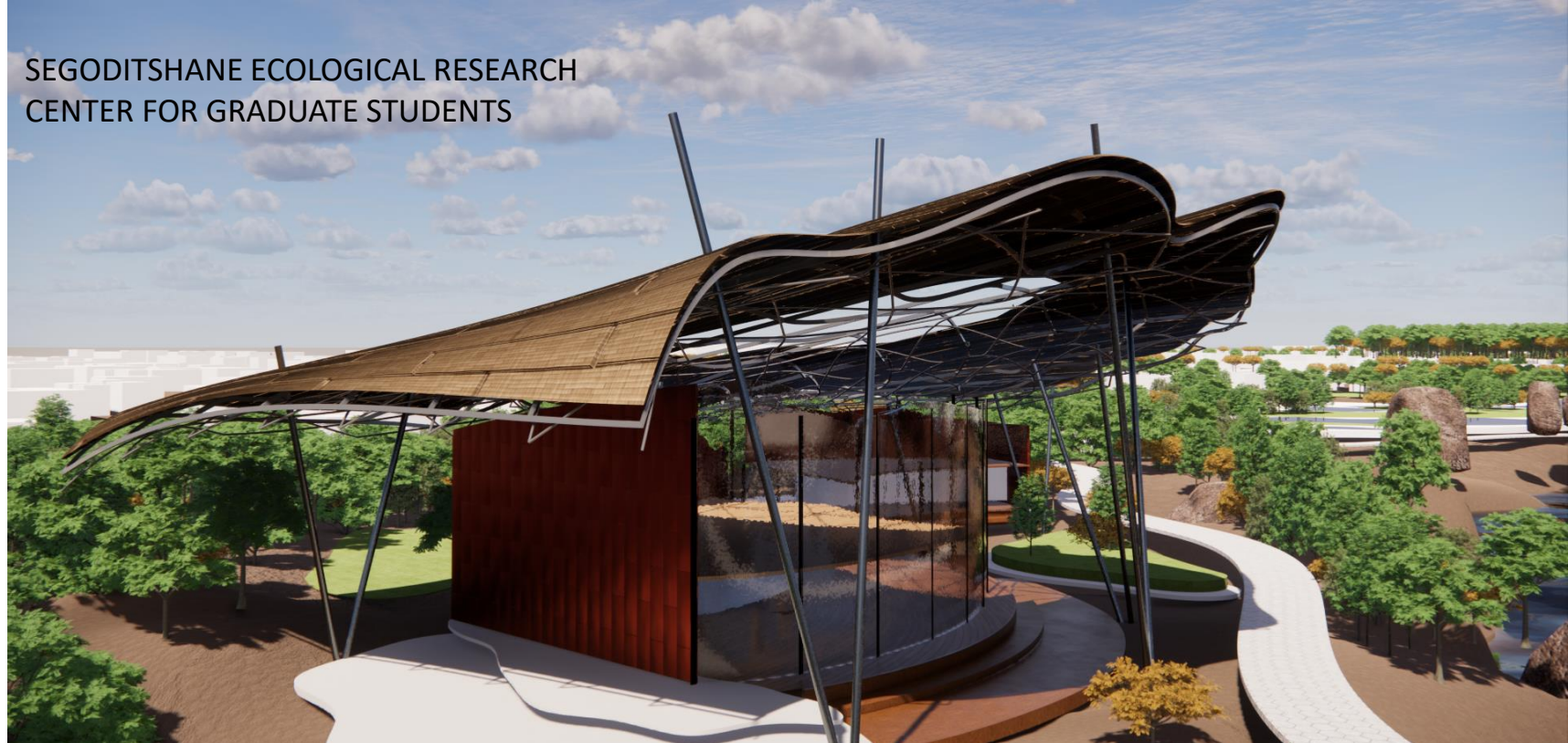
An environment that coexists with the local community. join us

This transformational journey to rediscover the potential of the Segoditshane River and envision a sustainable future for all

The design philosophy centres around ecological stewardship, where the building becomes a beacon of sustainability and respect for the environment. By implementing environmentally conscious practices in the design, construction, and operation phases, we aim to minimize the ecological impact and preserve the integrity of the Segoditshane River ecosystem. Through the use of sustainable materials, energy efficient systems, and landscape integration, the design seeks to inspire visitors to connect with nature and embrace responsible environmental practices.



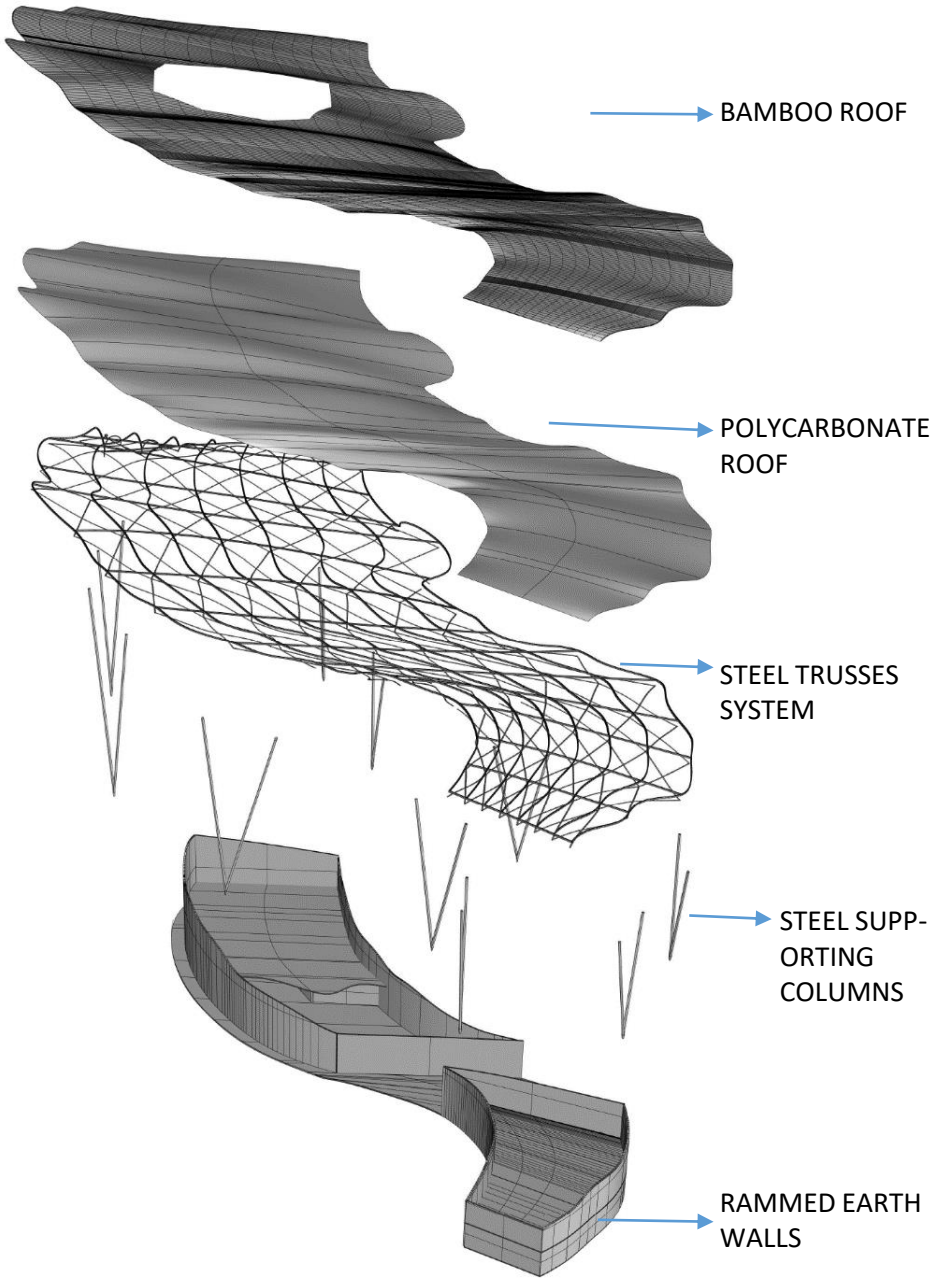
SEGODITSHANE ECOLOGICAL RESEARCH
CENTER FOR GRADUATE STUDENTS

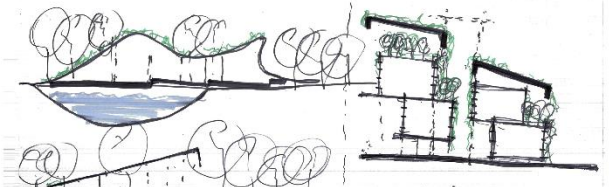
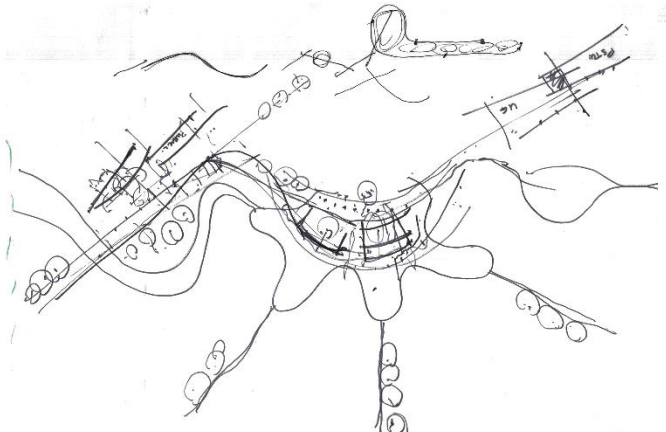
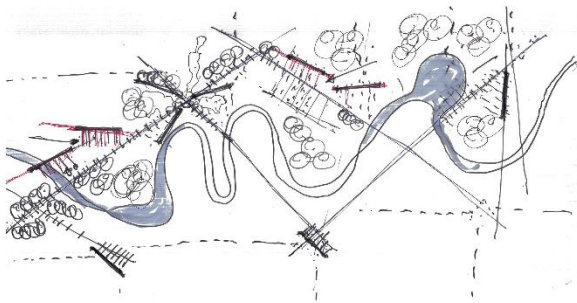
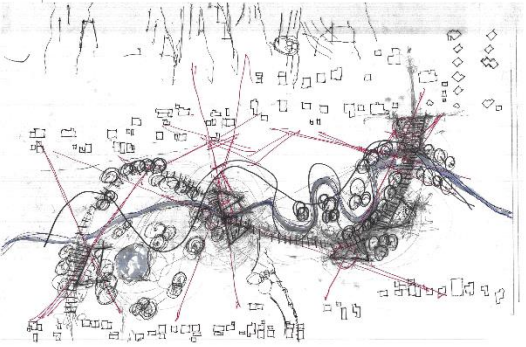
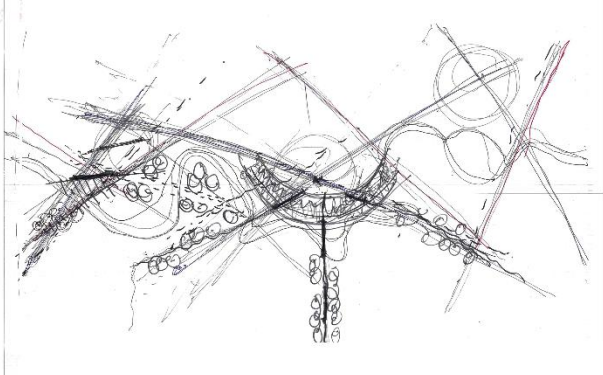
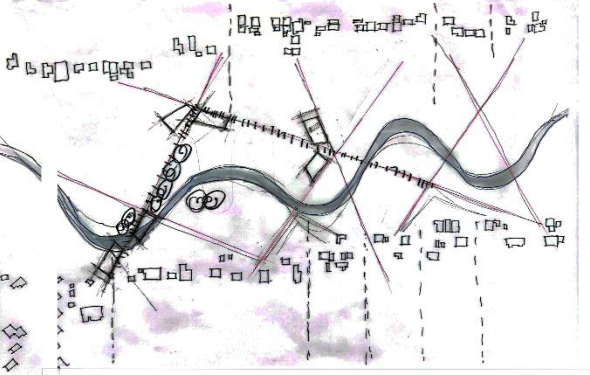
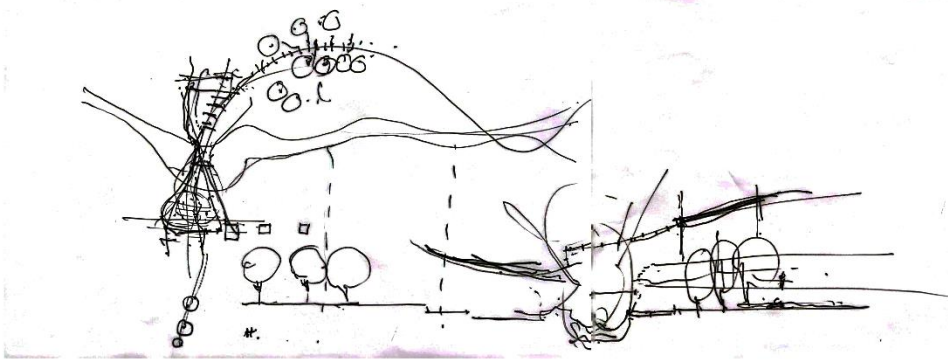
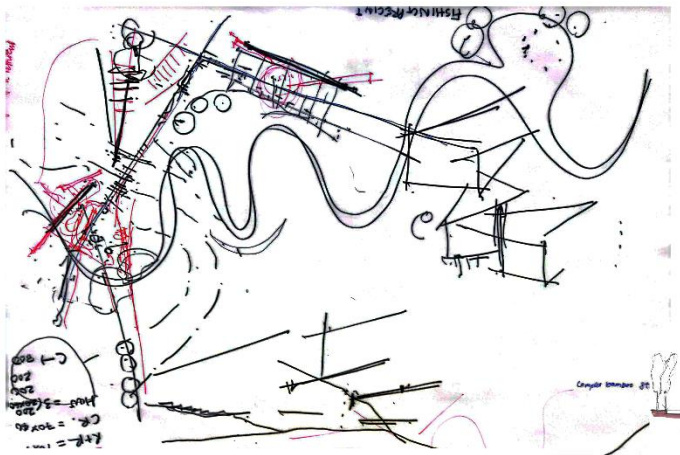
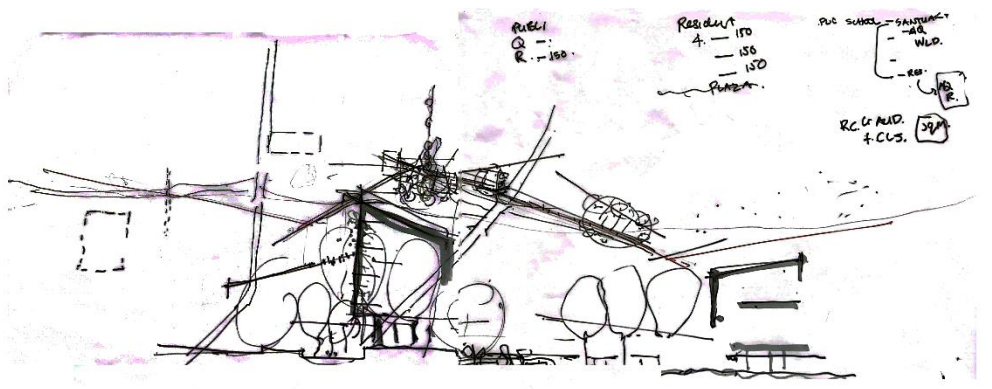
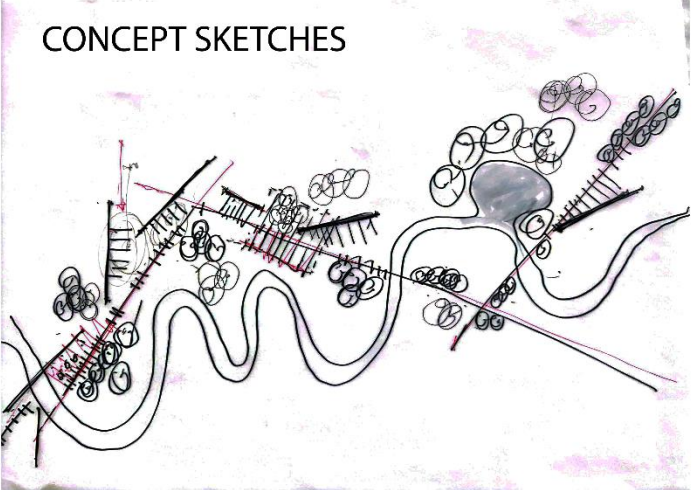


CONCEPT

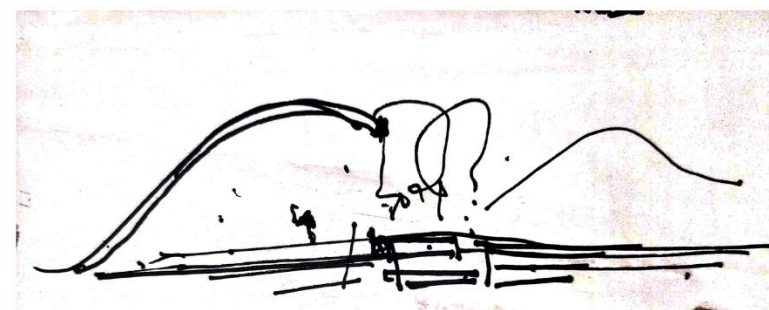
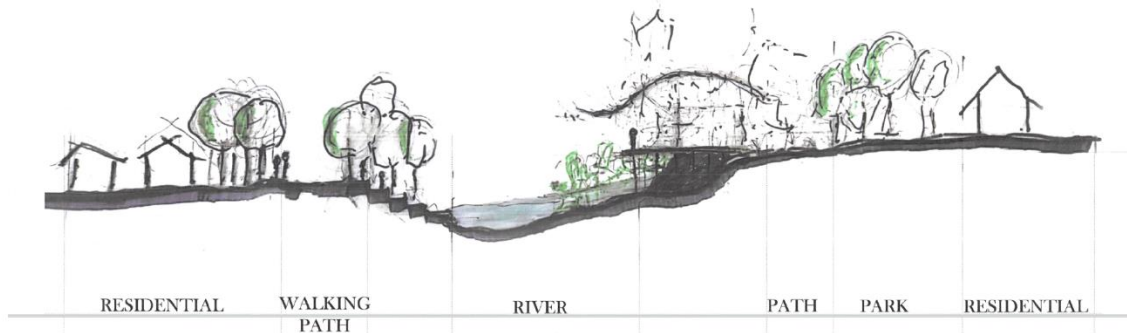
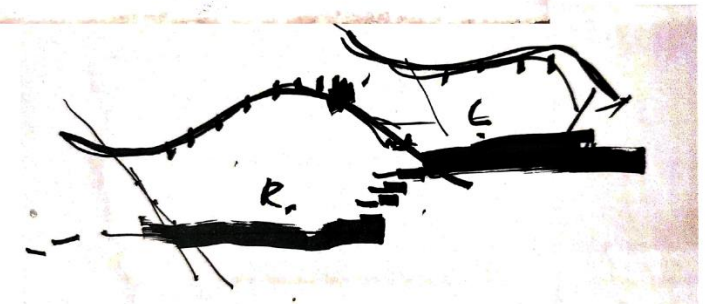
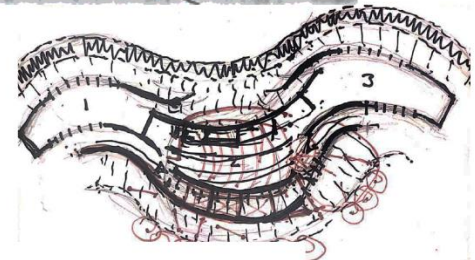
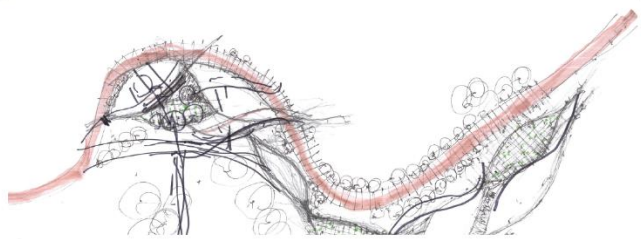
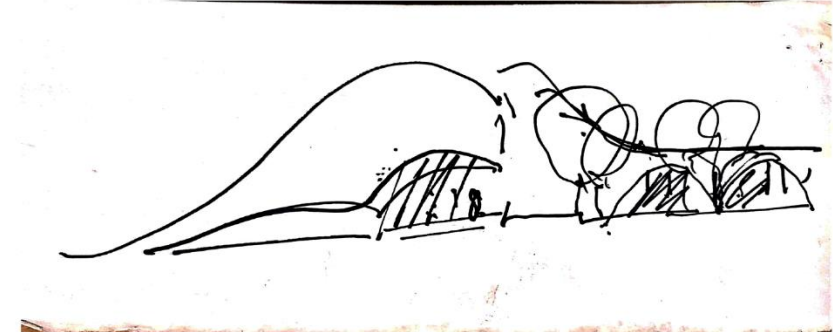
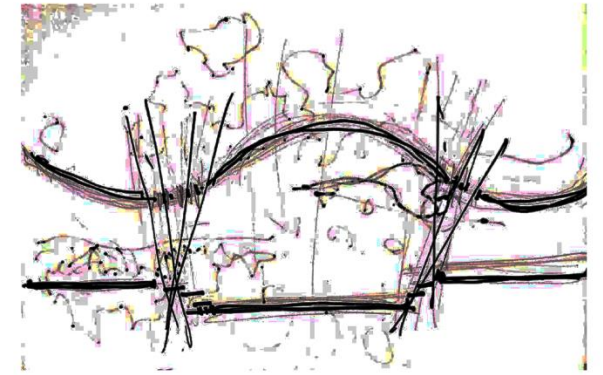
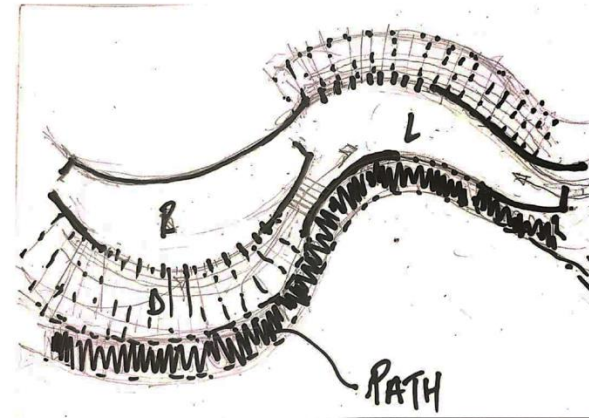
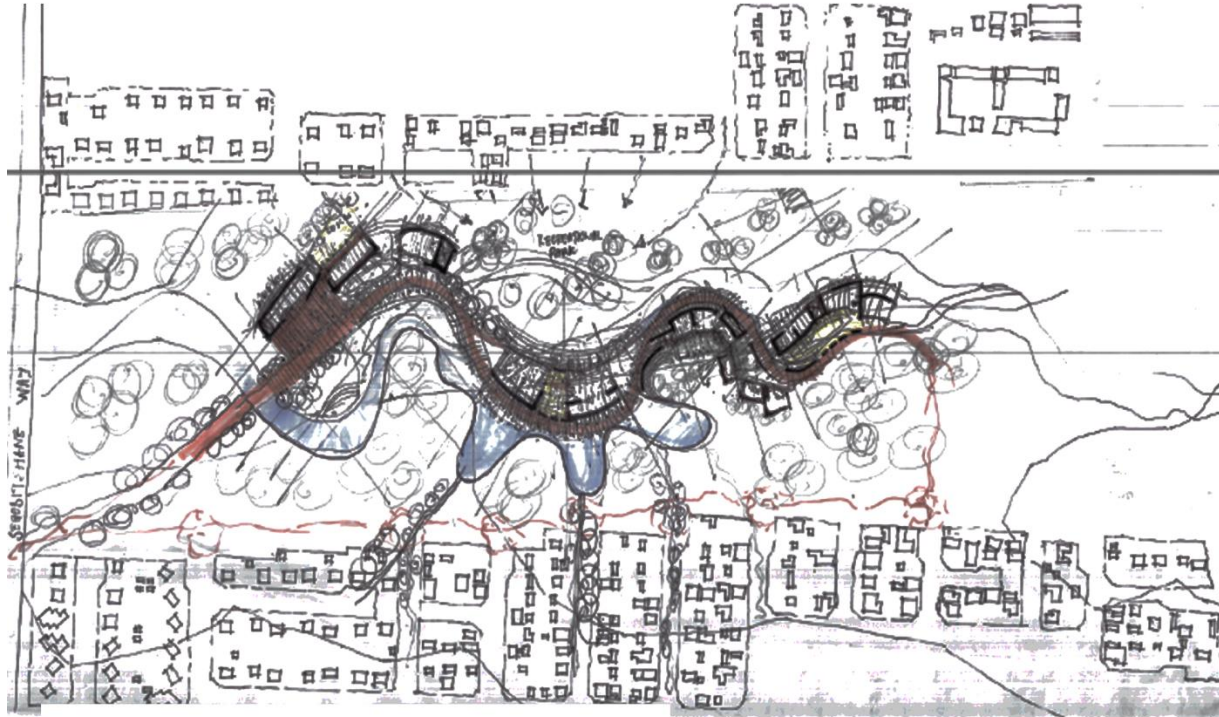
It is a bamboo roof that its form is influenced by topography of flowing water from the river supported by steel columns that represent trees trunks hence they depicts walking in the forest kind of experience, the roof shelters restaurant with mezzanine floor, admin offices and a community library. It opens up as it creates a welcoming gesture to people as they arrive.

EXPLODED ISONOMETRIC





CONCEPT SKETCHES



Personal info

As a fourth-year student at the University of Botswana, I am excited to present my architecture portfolio that showcases my passion for learning and my dedication to creating positive change through design. At the age of 22, I have already embarked on a journey of exploration, eager to absorb knowledge and push the boundaries of my capabilities.

Throughout my academic career, I have honed my skills in architectural design, spatial planning, and sustainable practices. By embracing an interdisciplinary approach, I have sought to incorporate innovative ideas from various fields, merging them with the principles of architecture. My portfolio reflects my commitment to evolve continuously as a designer, demonstrating a range of projects that exhibit my adaptability and willingness to embrace new concepts.

Personal Details

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+26772762430

Gaborone Botswana
Male

Nationality: Motswana
DOB: 14/09/2000

Languages

English: Fluent
Native Tswana: Fluent

Education

University Of Botswana
Bachelor in Architecture
2019 - Present
Moshupa senior secondary school
BGCSE
2017-2018
Baitirile CJSS
JCE
2014-2016

Skills

Graphics
Adobe Photoshop - Moderate
Adobe illustrator - Moderate
PowerPoint - Moderate

Drafting/Modeling

AutoCad - Beginner
Sketchup - Moderate
Archicad - Beginner
Rhino - moderate

3D Visualization/Rendering

Enscape - Moderate

Objectives

I seek a challenging and rewarding experience where I can learn as much as possible. To have and learn of the architecture profession in a professional set up other than in the classroom.

Experience

Internship – June – July 2022
Internship – June – August 2021

Professional Interests

Sketching
Reading architectural articles
Watching Architectural videos
Learning new software
Learning of sustainable architecture

Personal Skills

Critical thinking
Teamwork
Enjoy learning
Competitive

Personal Interests

Music
Reading
Drawing

THANK YOU