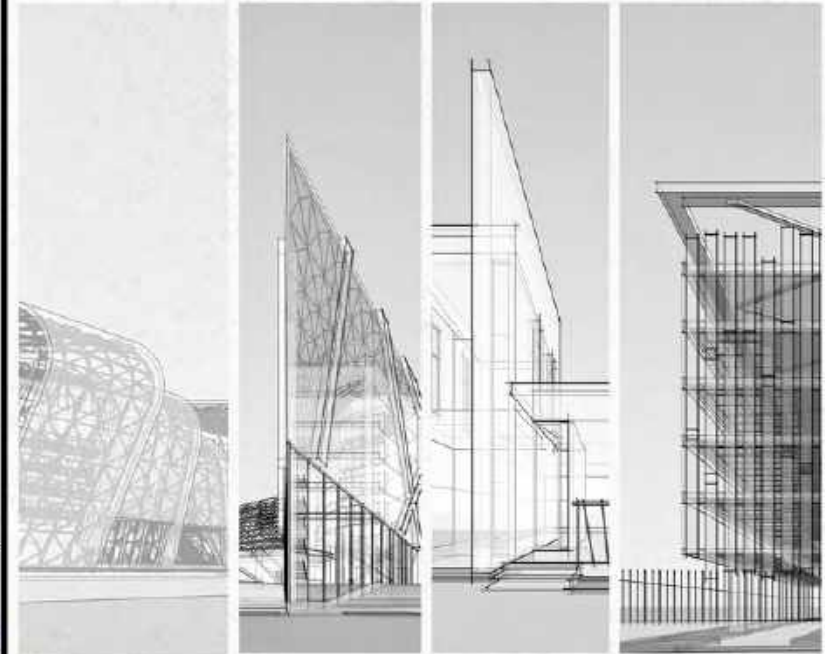


CHIMEH R.C.
architectural portfolio



transportation hub

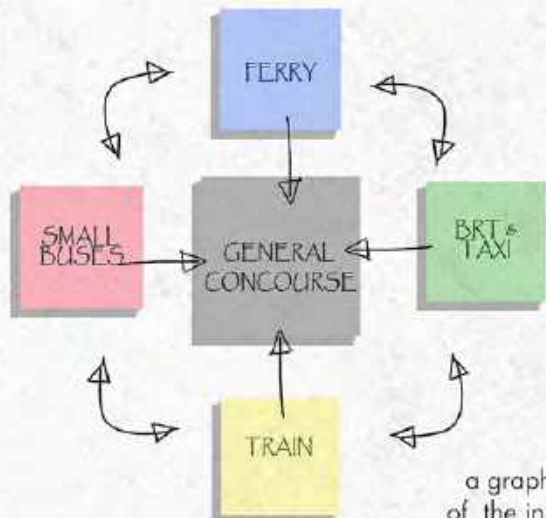
A transportation hub is a place where passengers and cargo exchange between transport modes. As represented below, it consists of two or more modes of transport.

In this project, located at Church Mission Society, Lagos, four modes of transportation have been represented; Rail, BRT, Commercial (Danfo) bus and Ferry.

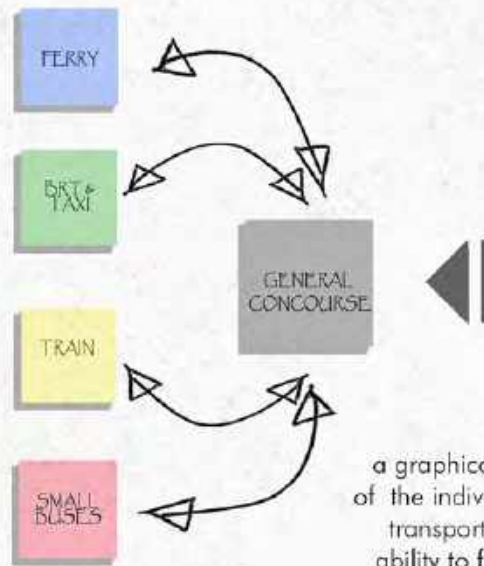
The aim of this project is to design an transportation hub that will serve Lagos efficiently seeing as the site is located at a commercial zone of Lagos Island.

The concept of the design is to develop a simple transport system with various modes working independent of each other and simultaneously in unity

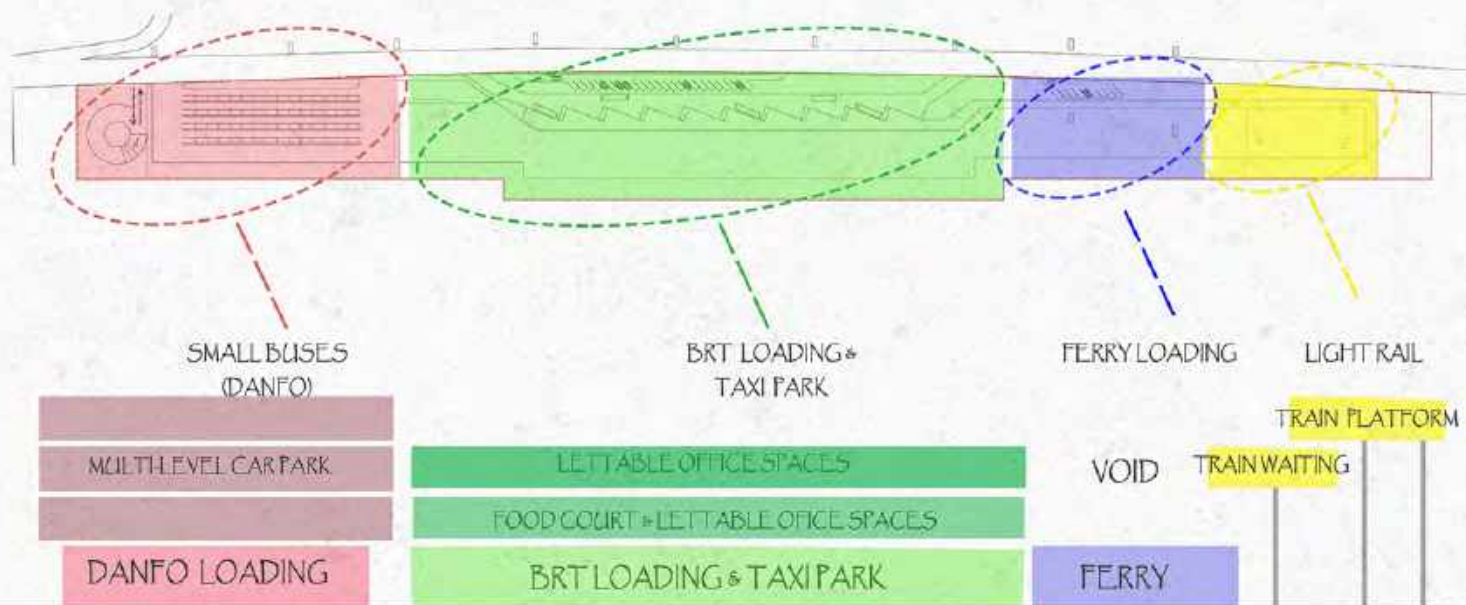




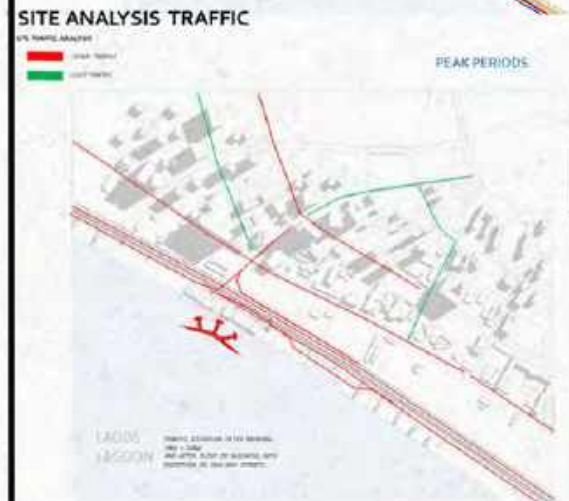
a graphical representation of the individual modes of transportation, and their ability to function independently.



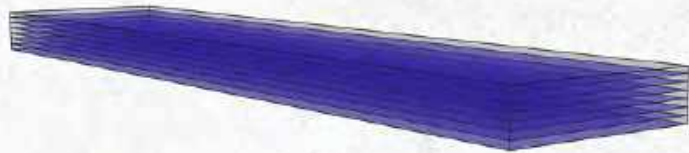
a graphical representation of the individual modes of transportation, and their ability to function together as a wholesome system.



transportation hub analysis



transportation hub form development



1. Due to the nature of the site given(Ring Road), a linear form was assumed to begin development..



2. Considering the intermodal nature of the brief,the structure was divided into parts as a sign of variation, but still functions as a whole.



3. Levels were given to each section of the structure, to determine their vertical height, especially for the overhead light rail section.



4. A shell like cover was added,to be used as a cover for the structure, in order to signify that the sections still function together.



5. The shell structure was divided into sections, to enable light penetrate into the building, and to enable its users appreciate the ocean view.



6. Variations of the curve pattern of shell structure were added to enhance lighting, aesthetics and to signify the undulating waves of the ocean.

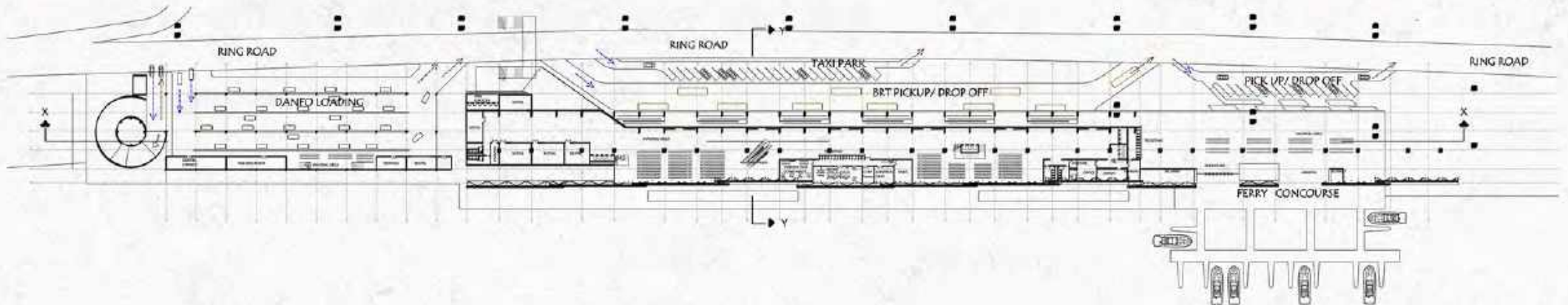


7. The final form of the design has been attained. All the necessary structural members from steel roof trusses to concrete and steel columns have been put in place for the structure to be sound.

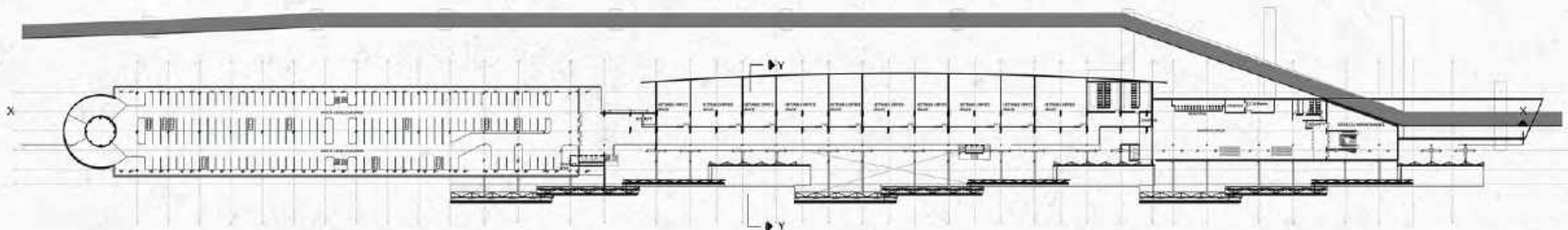
transportation hub



site block layout

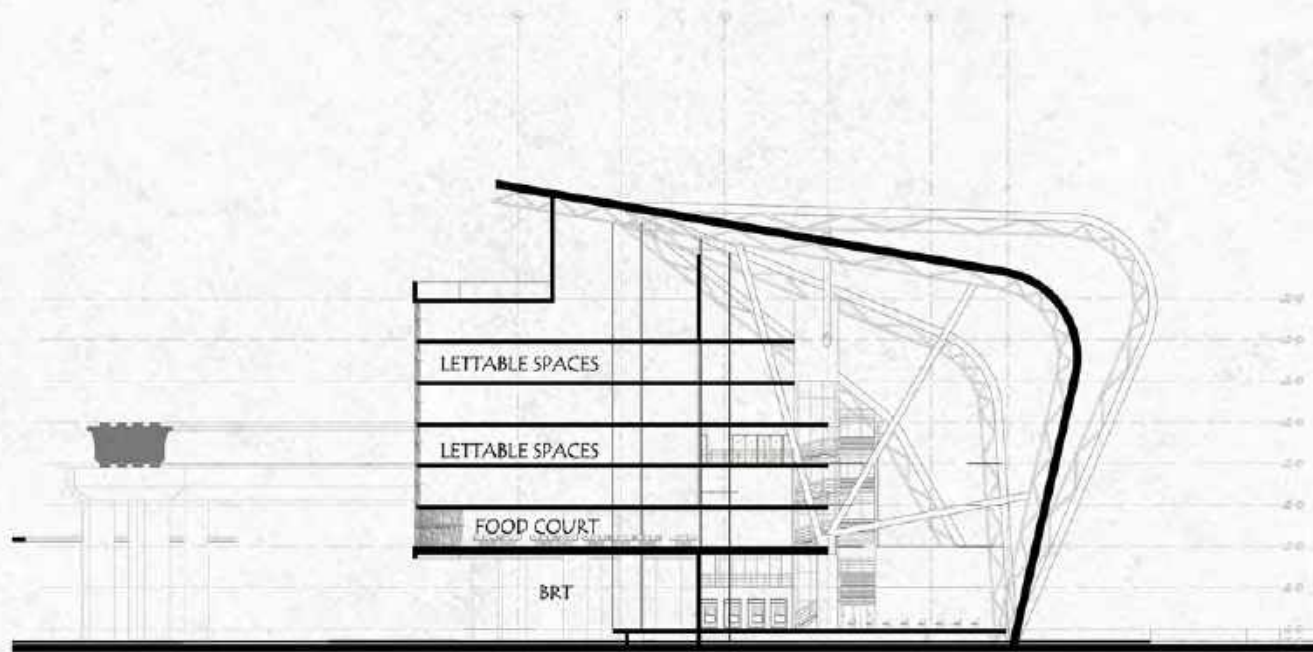


ground floor

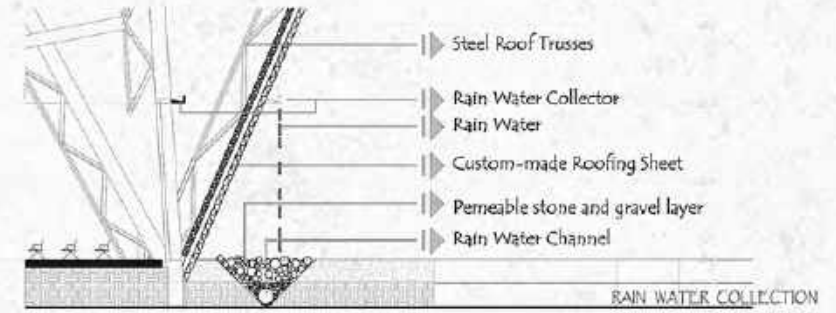


train platform floor

transportation hub



section



detail



3d views



history museum

A National History Museum is an institution dedicated to presenting artifacts and exhibits reflecting the history of a nation

This project is located at Central Business District Abuja, in the heart of the city, to enable ease of access.

The aim of this project is to design a Museum that adequately supports the display of artworks and artifacts, that tells the Nigerian story effectively,

The concept of the design is to experience the history chronologically as should be, and ensure a user friendly tour.

history museum analysis



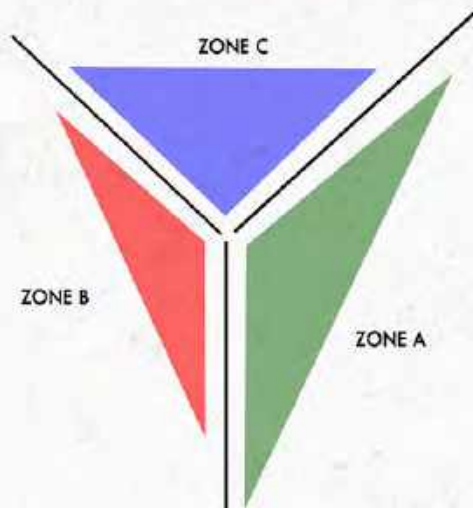
PEAK PERIODS



OFF PEAK PERIODS

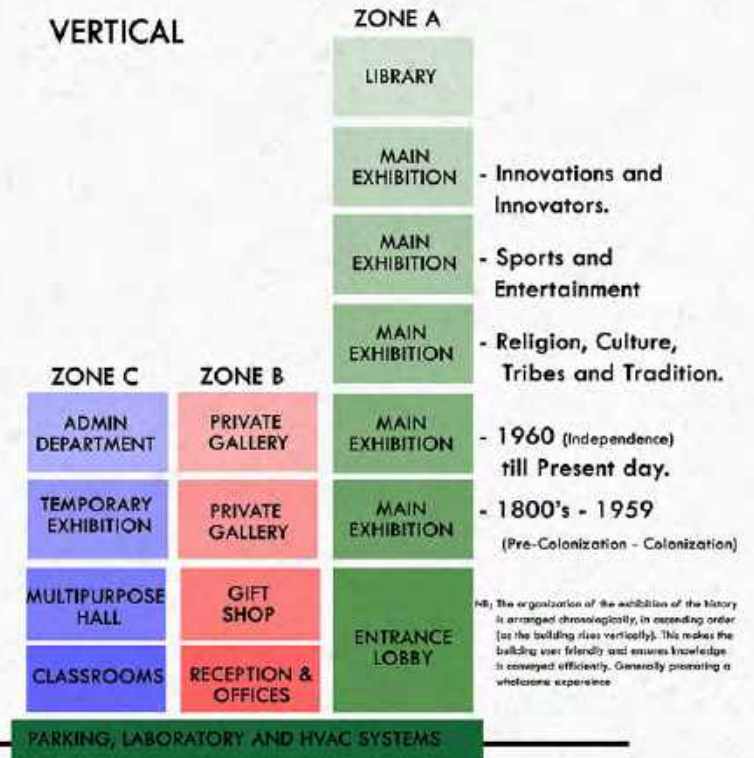
HEAVY TRAFFIC
LIGHT TRAFFIC

HORIZONTAL



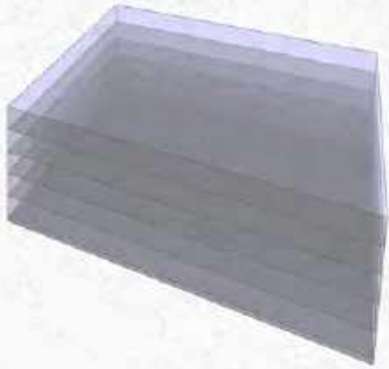
- ZONE A** - Most Important zone; Permanent Exhibitions and supporting facilities like Audio Rooms.
- ZONE B** - Private Galleries and Show Rooms with supporting facilities like restrooms.
- ZONE C** - Administration and Multipurpose Hall with supporting facilities like Classrooms.

VERTICAL

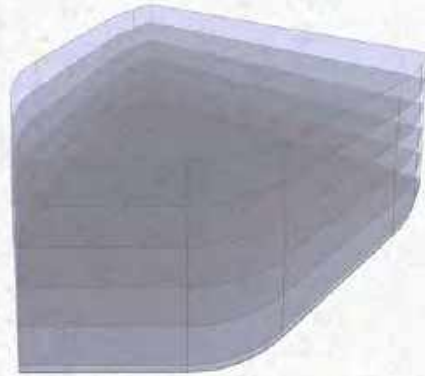


NB: The organization of the exhibition of the history is arranged chronologically, in ascending order (as the building rises vertically). This makes the building user friendly and ensures knowledge is conveyed efficiently. Generally promoting a wholesome experience.

history museum form development



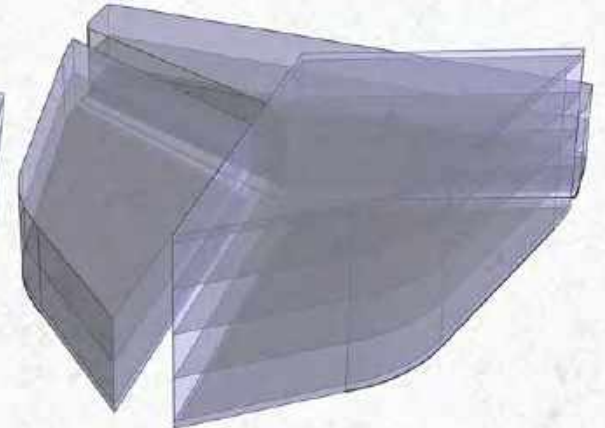
1. Started with a regular rectangular form, as simple in order to further develop it.



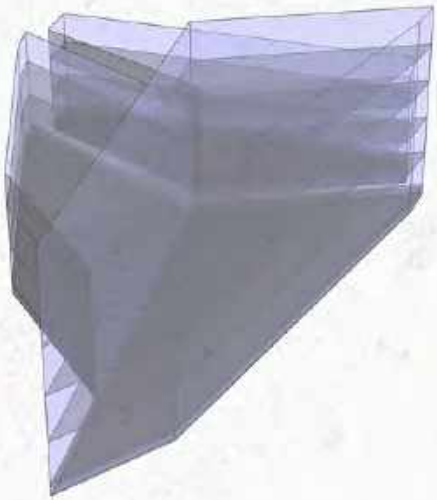
2. Modified to the shape of the coat of arms, gives of sign of strength.



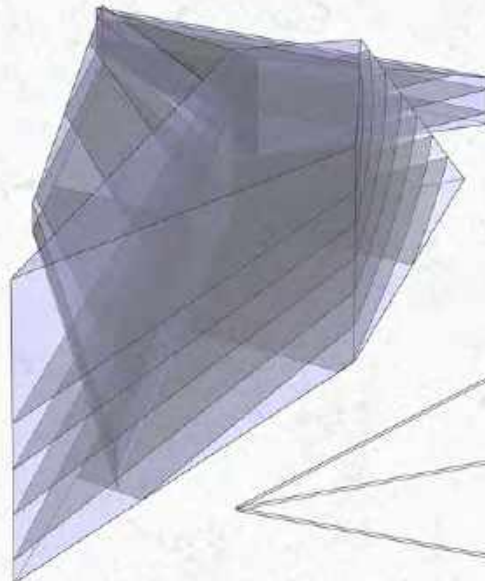
3. Divided the form to different sections, to assist in planning the spaces of the building in separate zones.



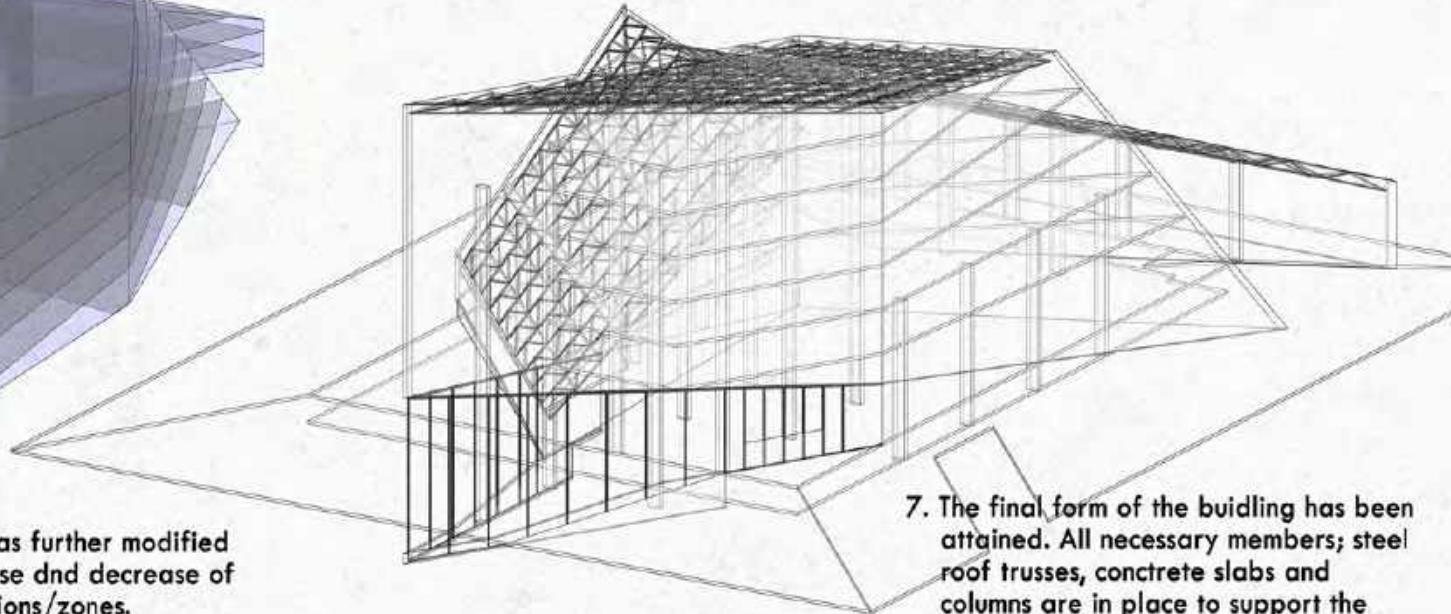
4. Levels we allocated to the various sections depending on their functions to determine the buildings' height.



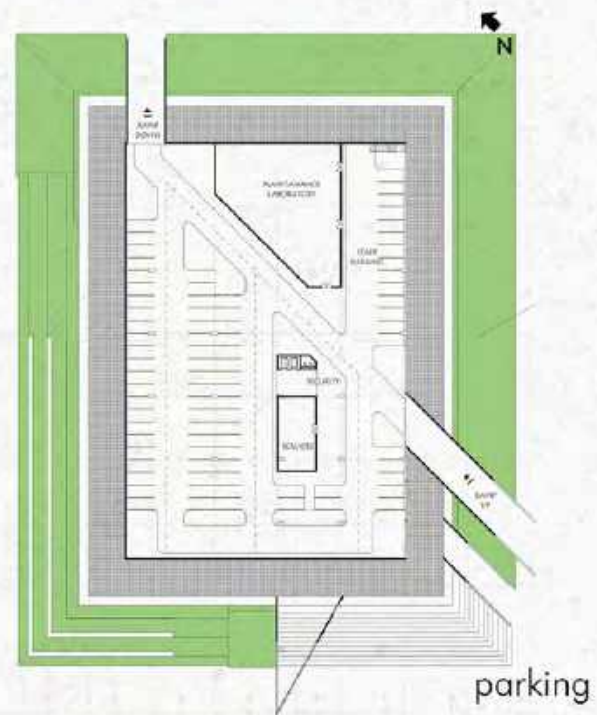
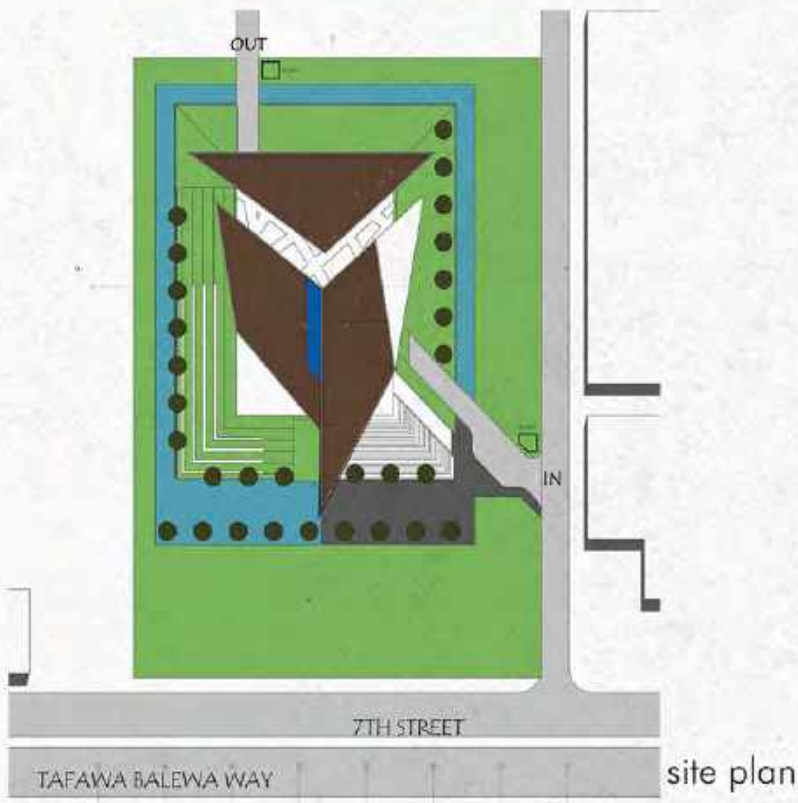
5. The general form was modified by slanting the walls and roofs to as enhance lighting as aesthetics.



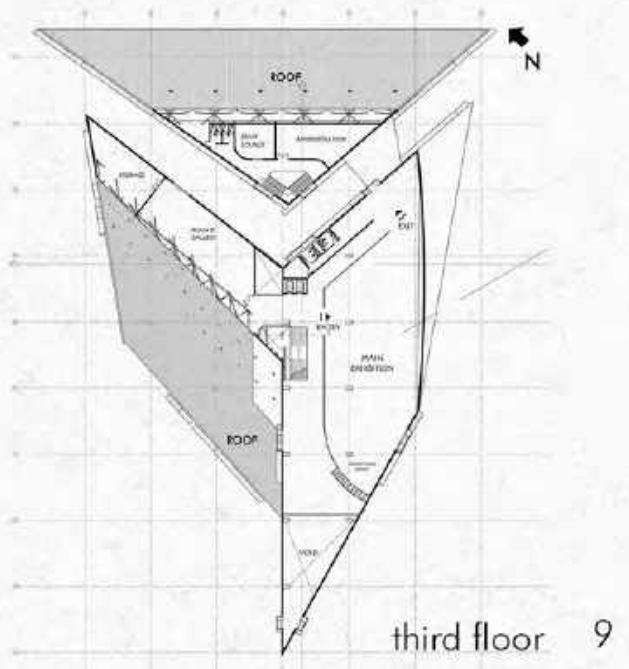
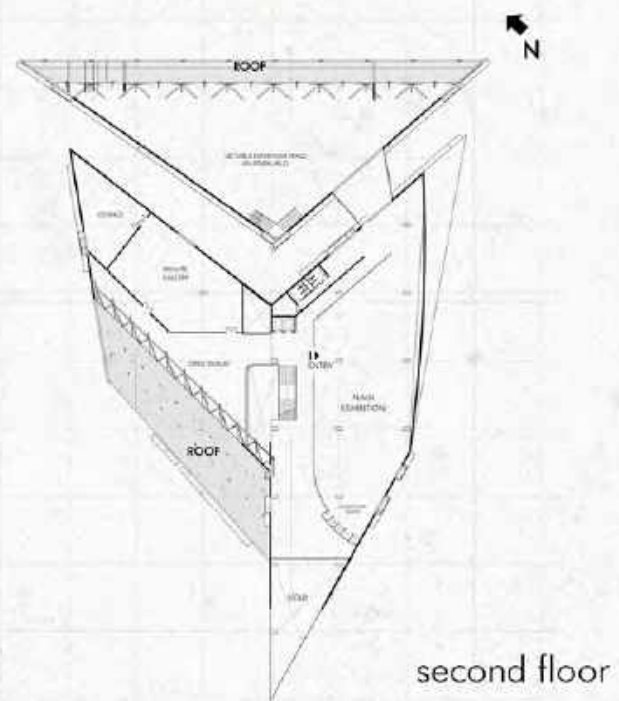
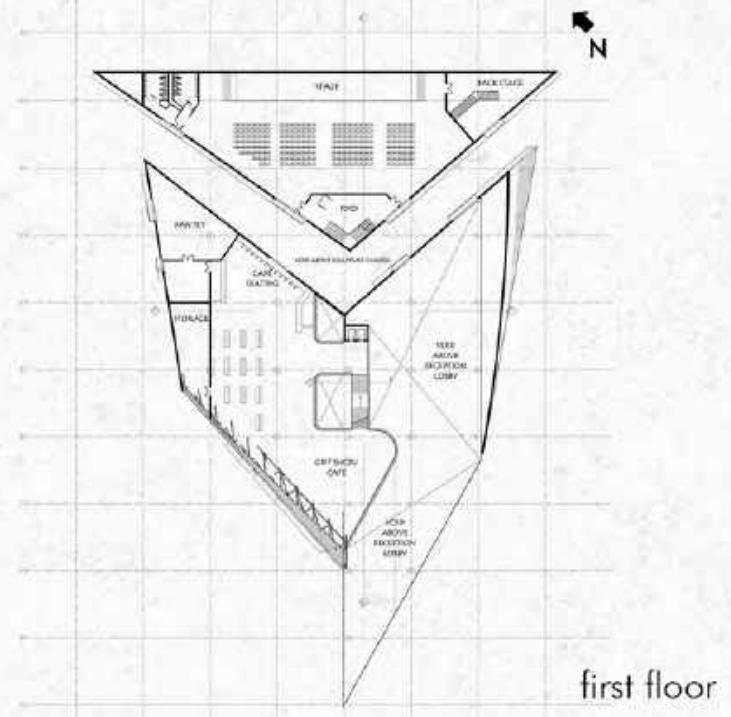
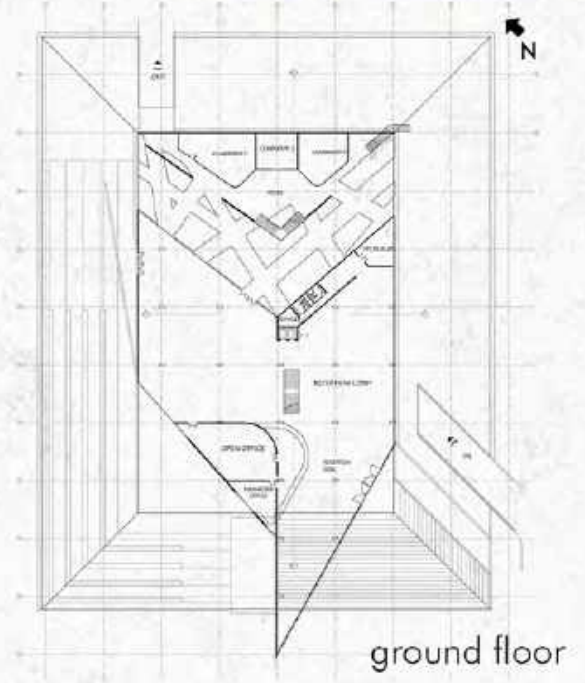
6. The building was further modified with the increase and decrease of different sections/zones.



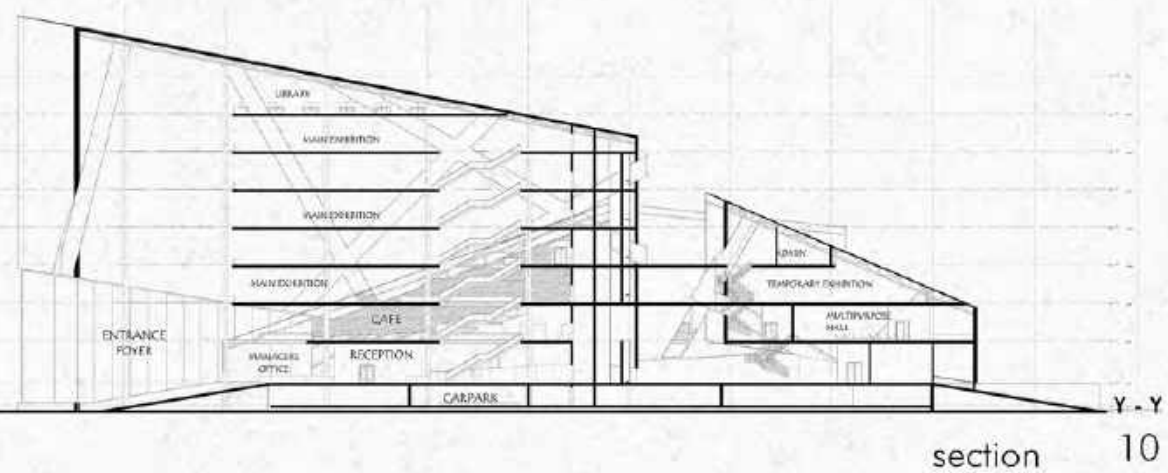
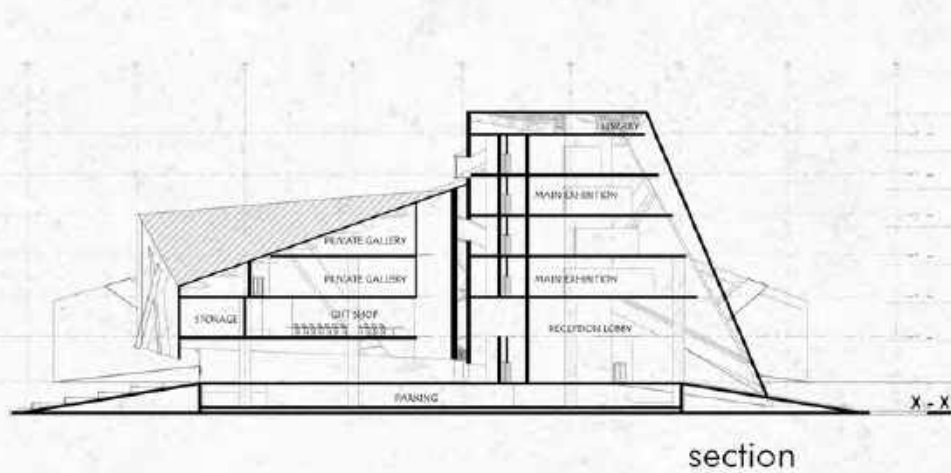
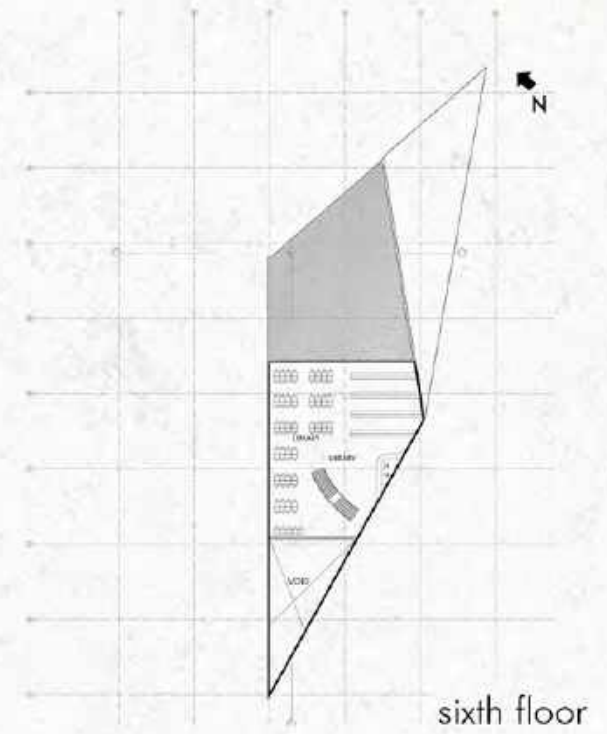
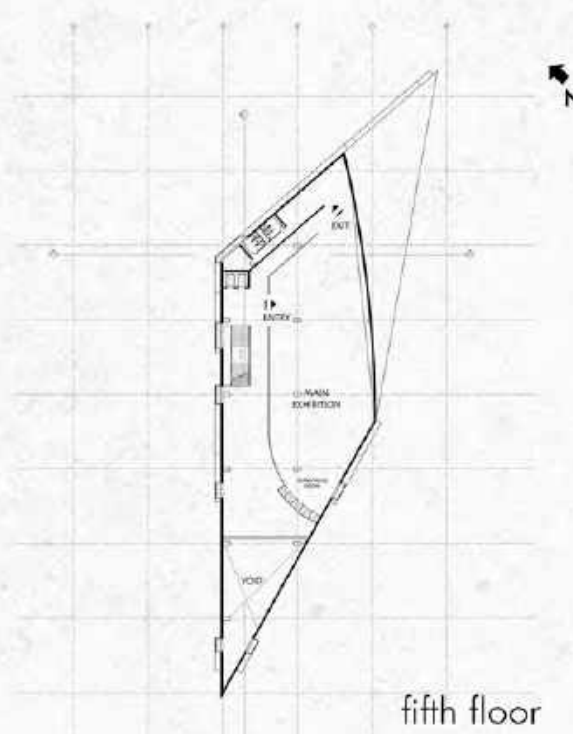
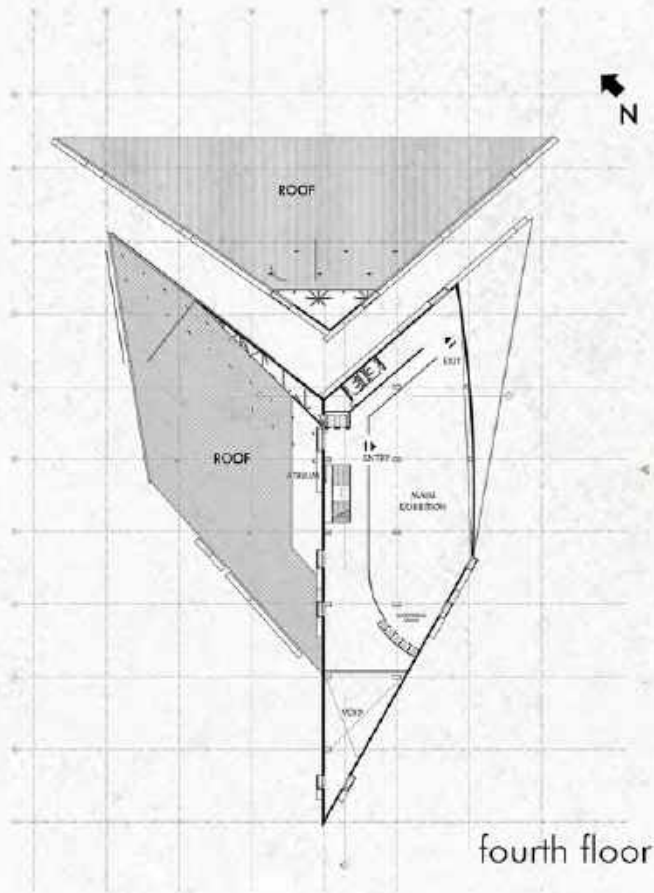
7. The final form of the building has been attained. All necessary members; steel roof trusses, concrete slabs and columns are in place to support the structure.



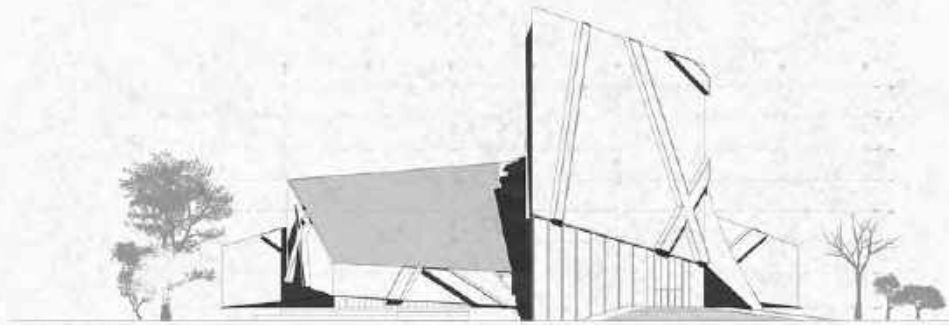
history museum



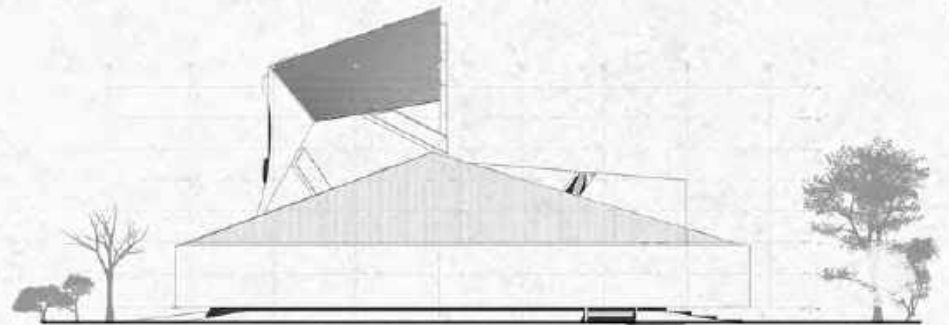
history museum



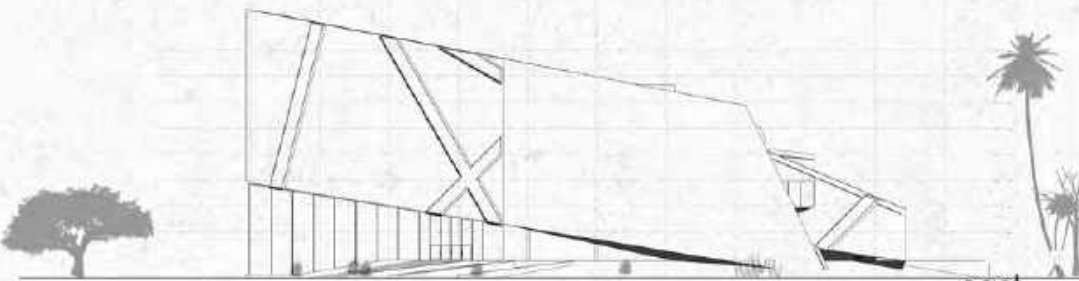
history museum



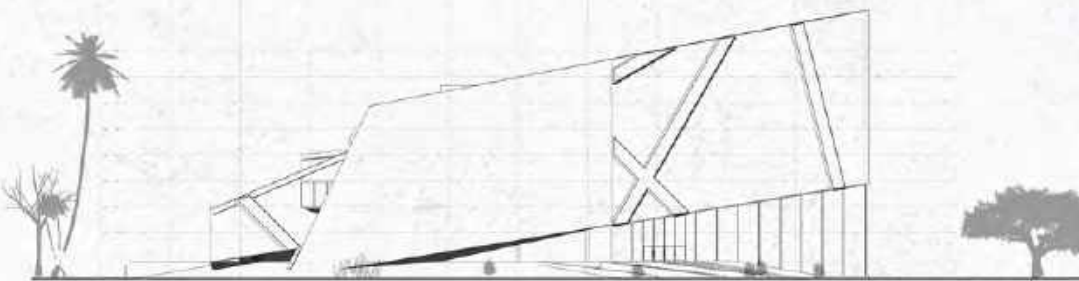
north



south



east



west



3d view



3d view



3d view

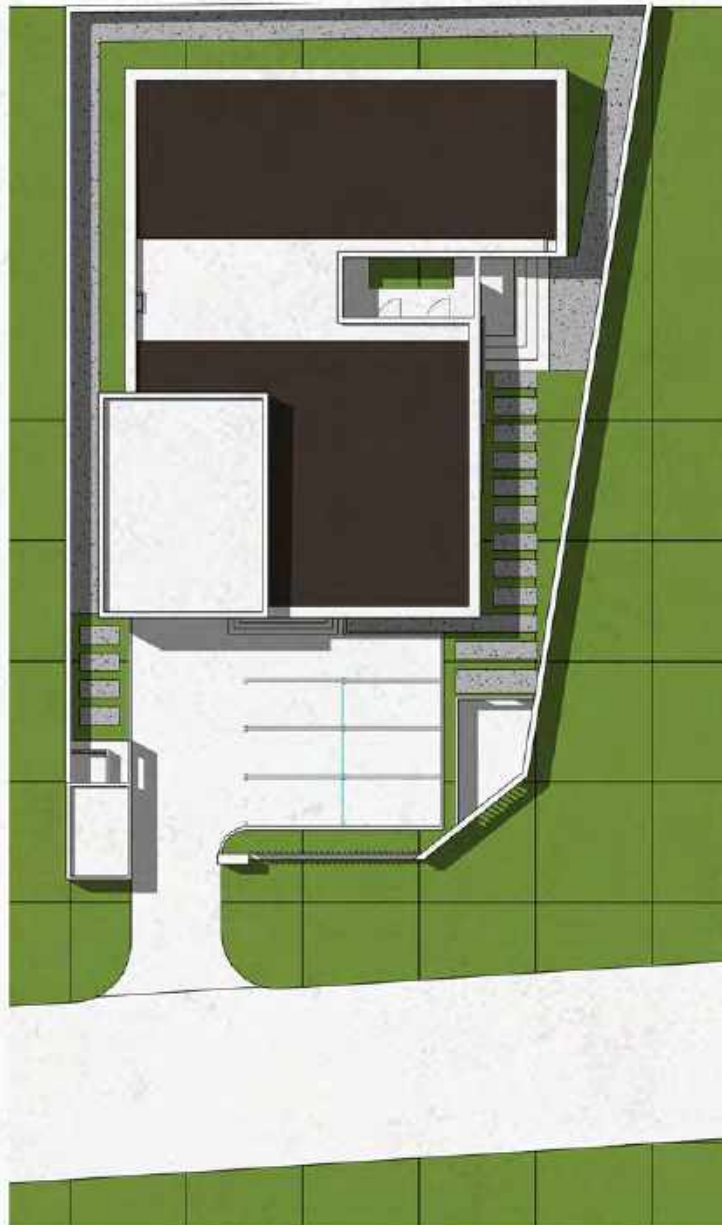
family residence



A family residence is usually a stand alone building designed for a nuclear or single family unit.

This project is located at Independence layout, Enugu. The choice of location was made by the client.

The aim of this project is to build a family home for the client, that will suit his familys' taste and comfort.

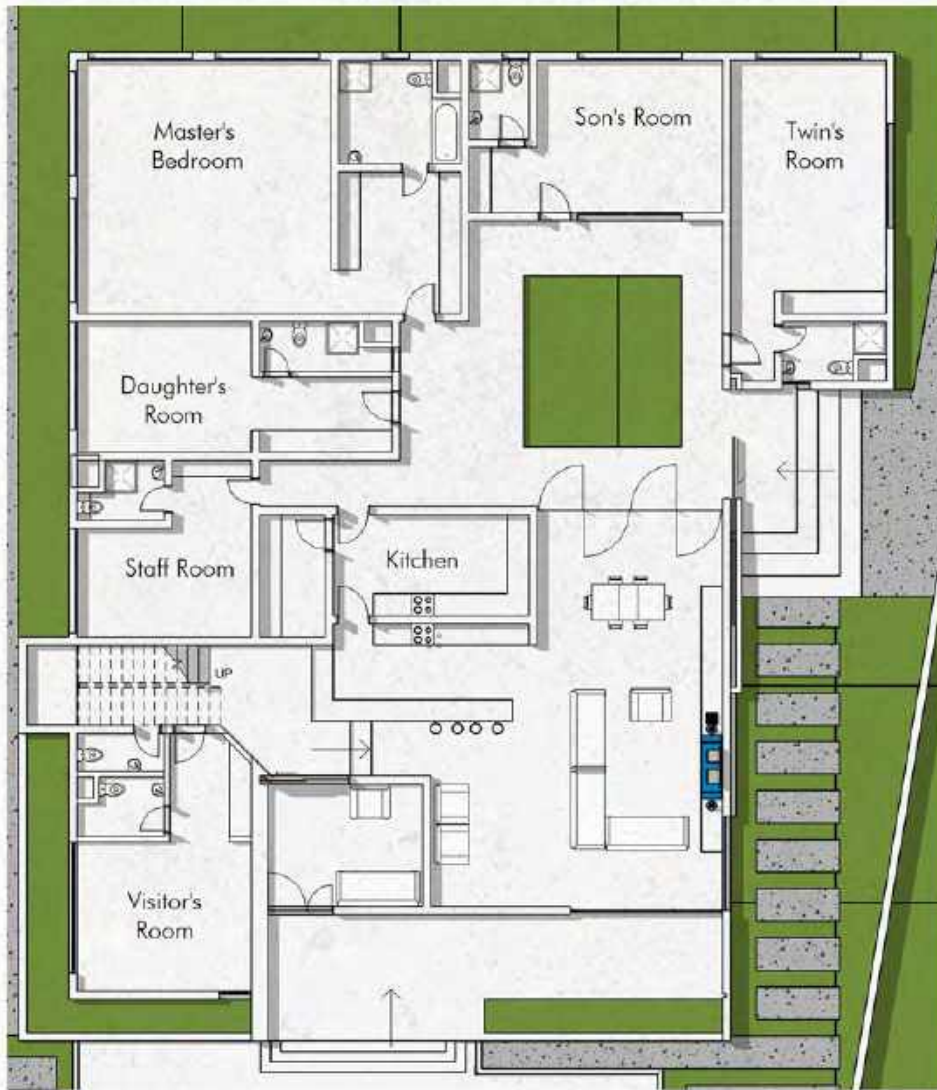


aerial view

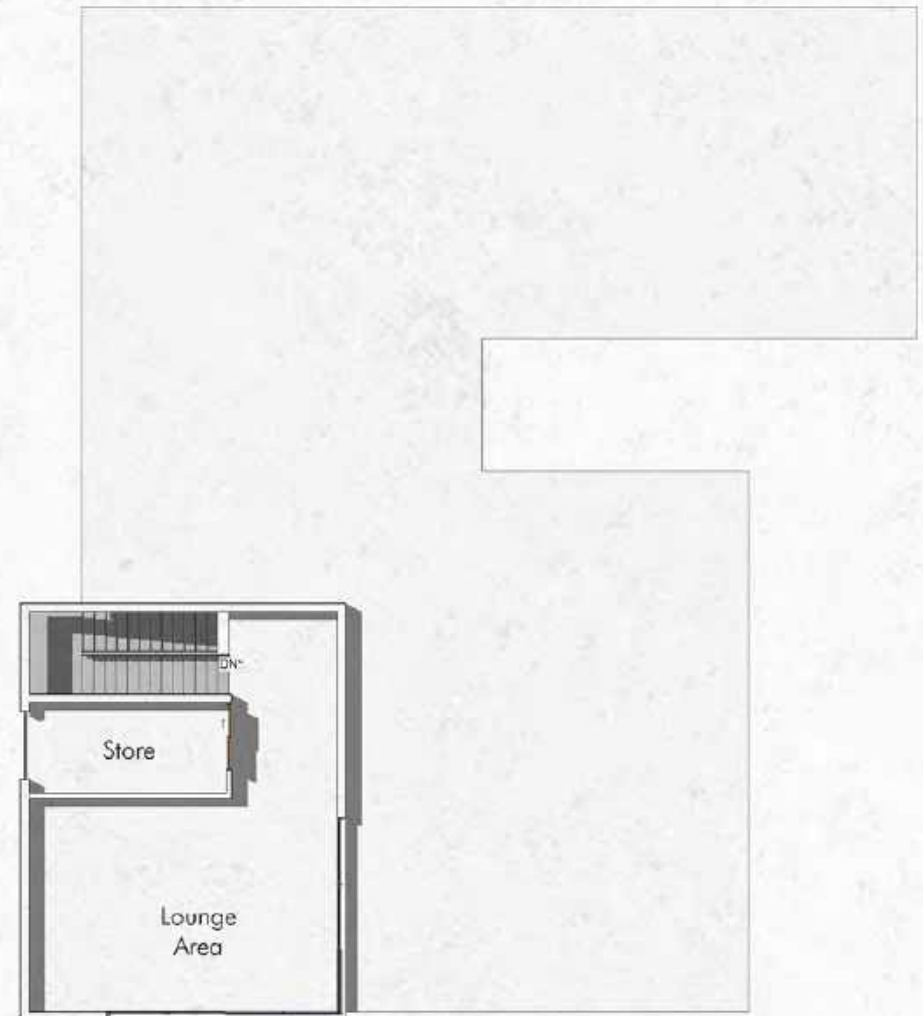


site plan

family residence

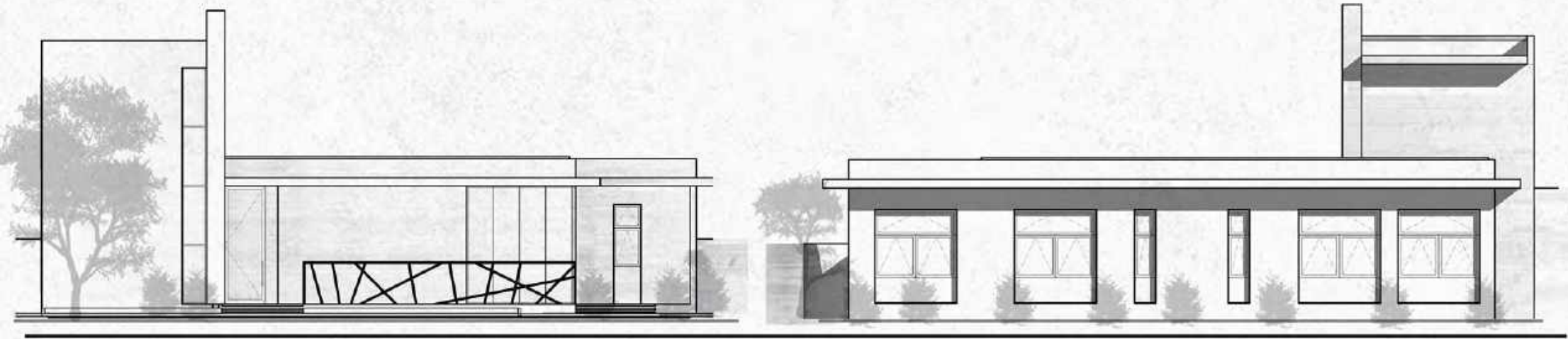


ground floor



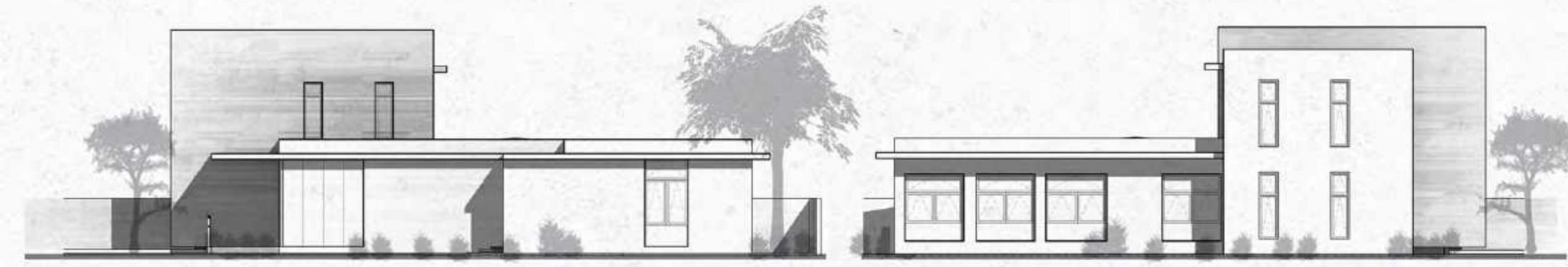
first floor

family residence



north

south



east

west

family residence



3d views

multi-level car park

A Multi-level Car Park is a building designed for car parking and where there are a number of floors or levels on which parking takes place.

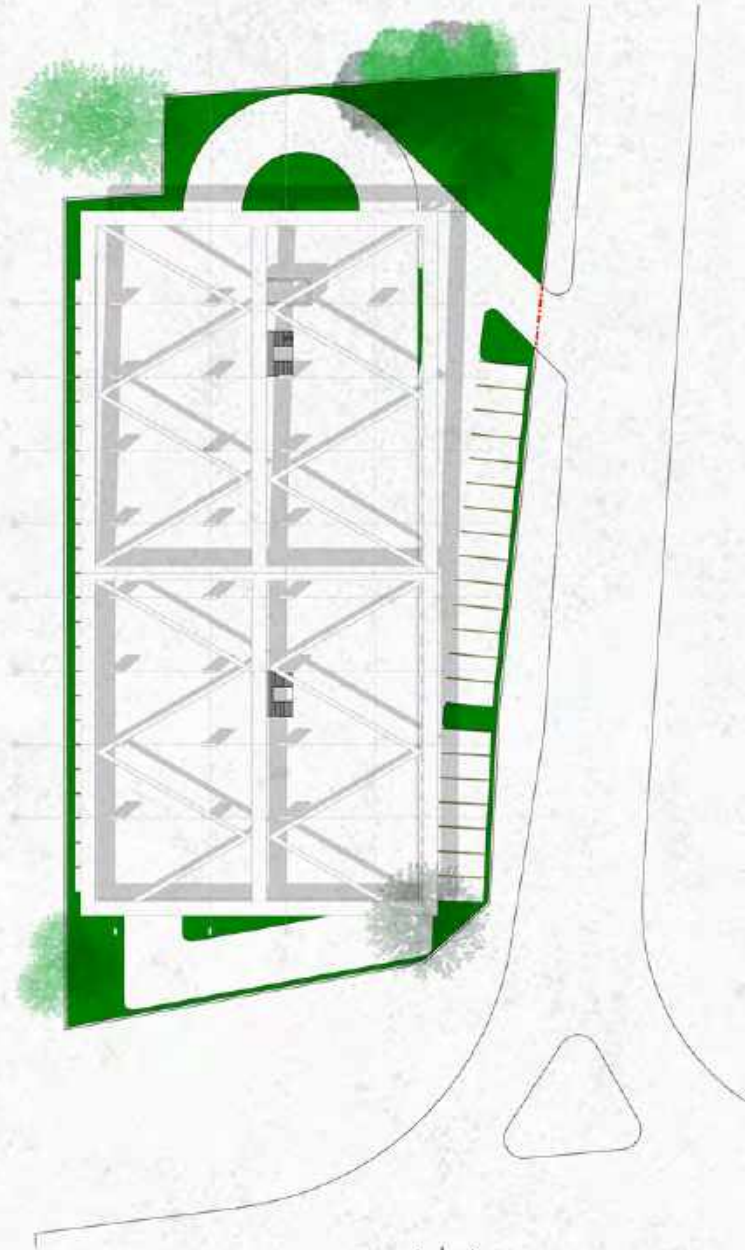
This Lagos Government project is located at Alausa Ikeja. This is a very commercial and administrative zone, hence the need for such facility.

The aim of this project is to enable car owners park their cars with a entrusted level of security at any time of the day.

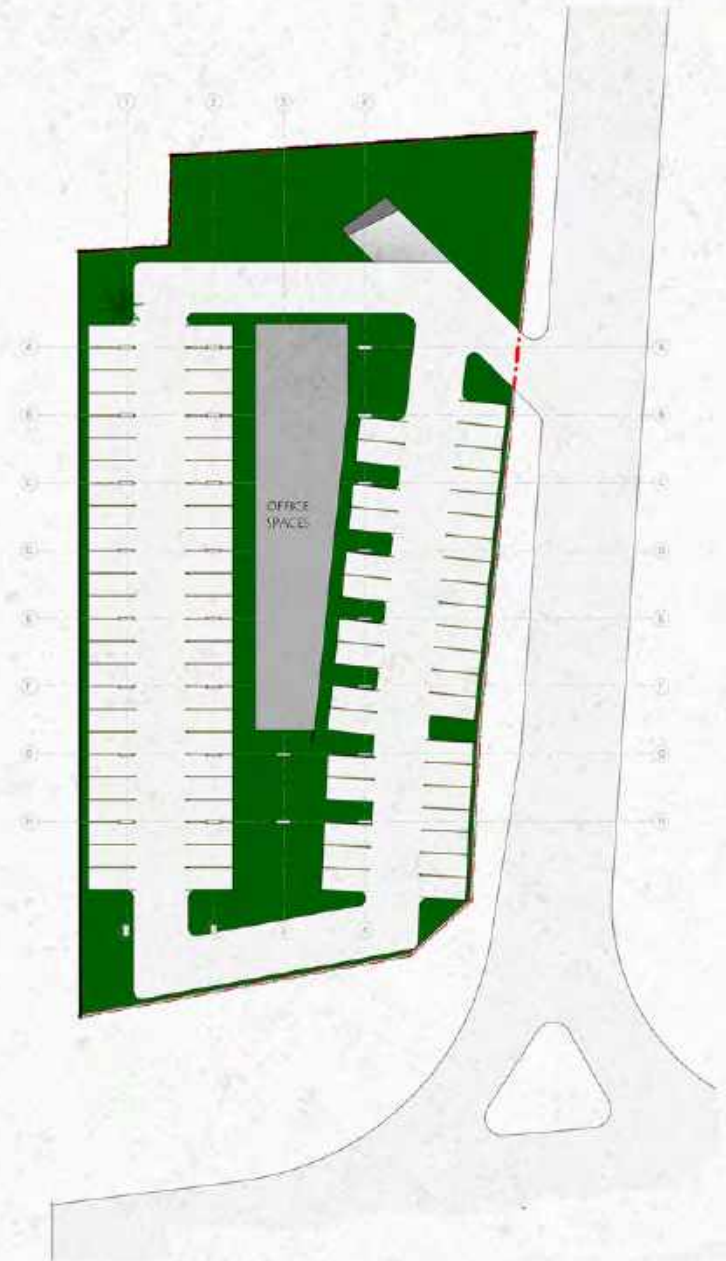
The concept of the design is the use of panels to shield sunlight and generate electricity.



multi-level car park



aerial view

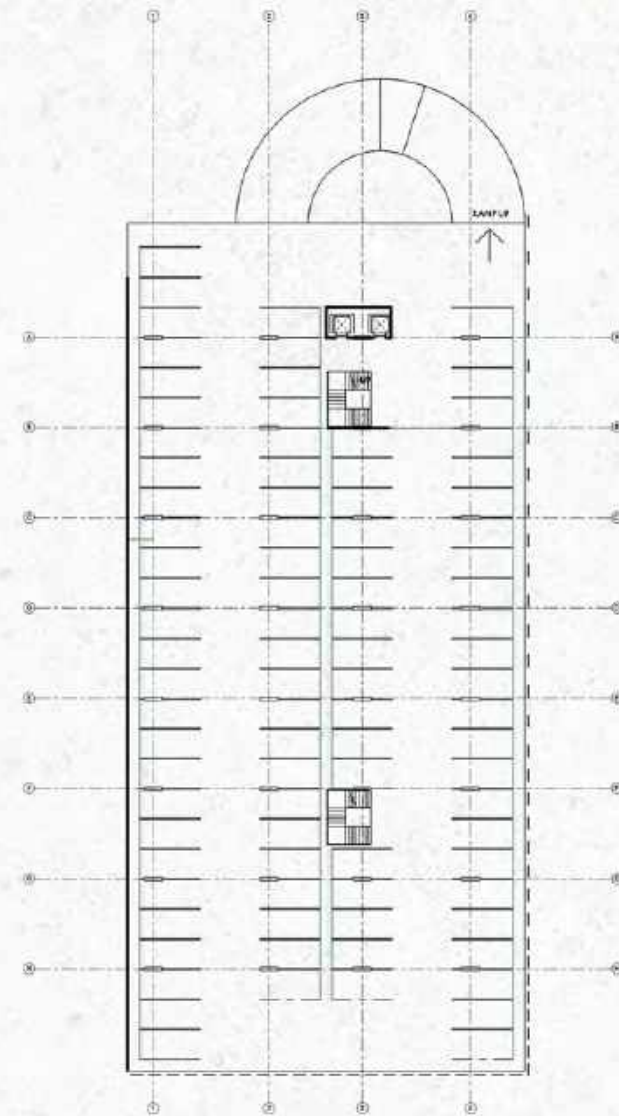


site plan

multi-level carpark



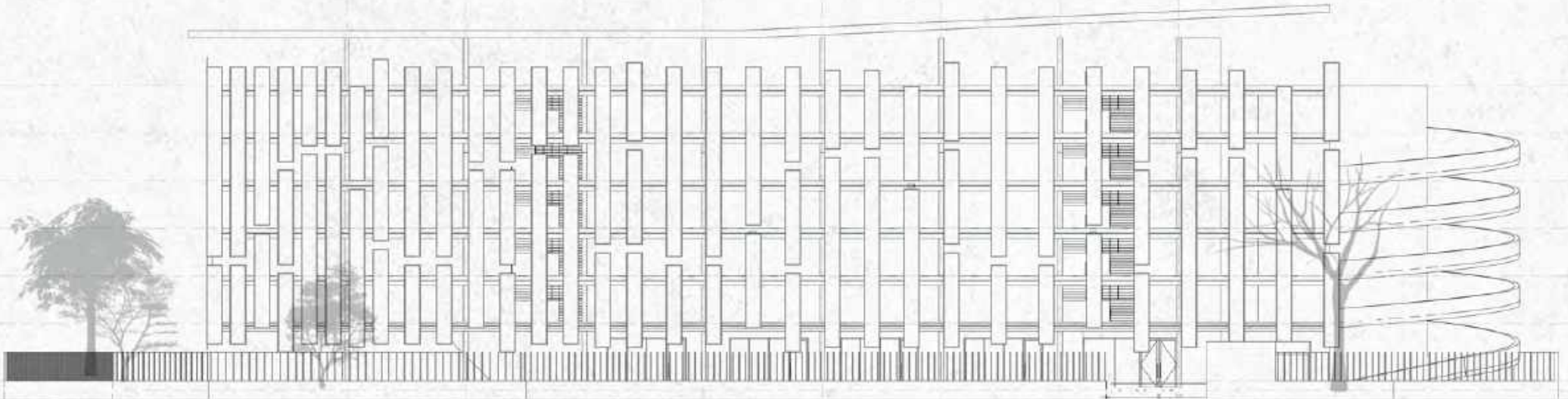
ground floor plan



first -fifth floor plan

multi-level carpark

K C E G I C E A



east



north



3d views

CHIMEH R.C.
bukychimeh@gmail.com

