

PORTFOLIO

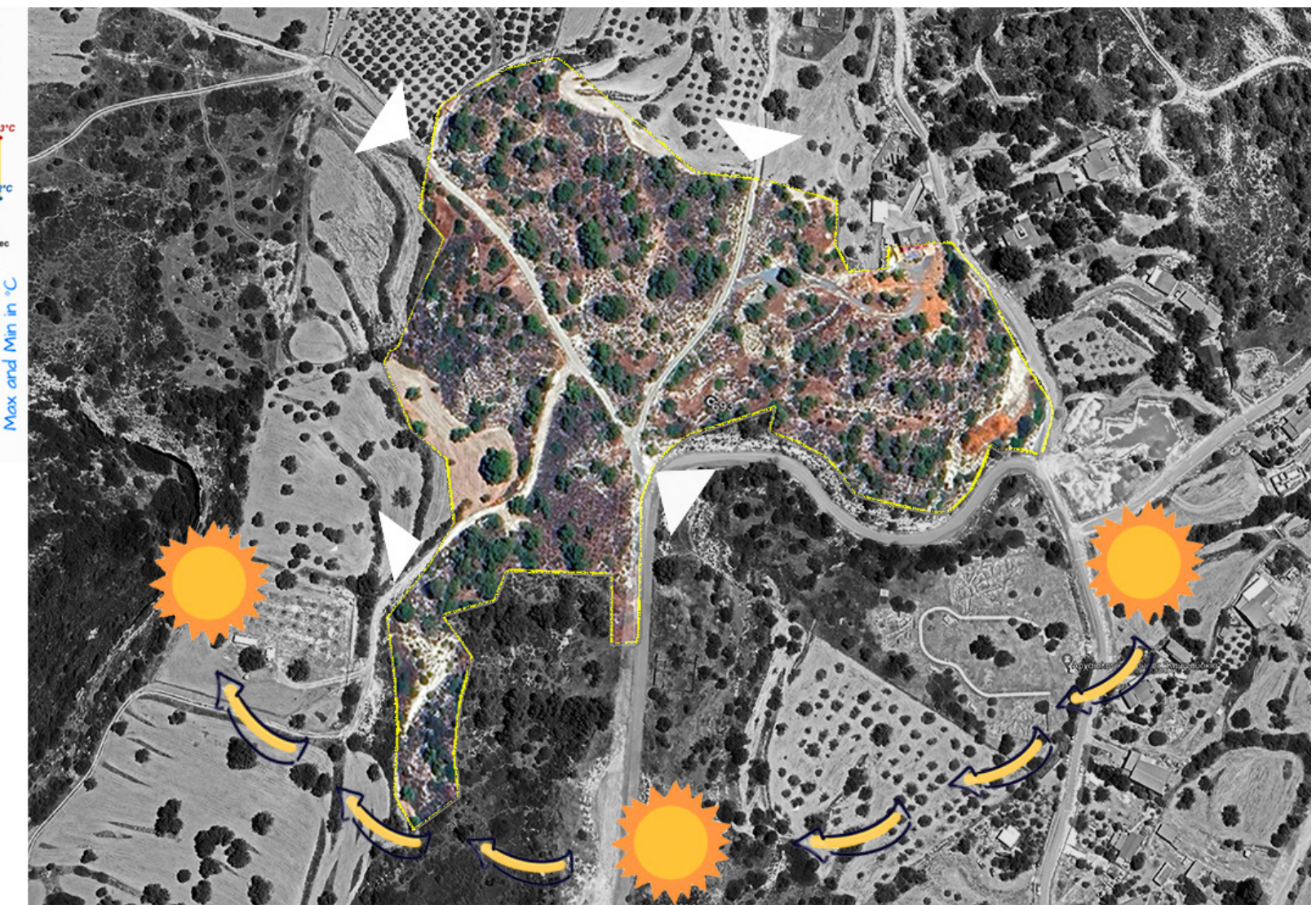
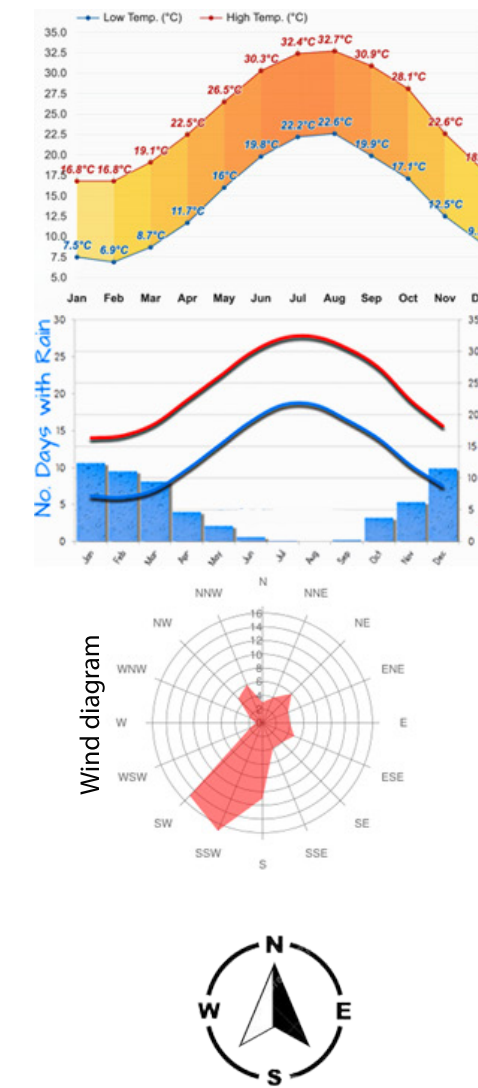
ARCH-202 Architectural Design III

MUSEUM OF NATURAL HISTORY

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PHOTOS OF THE SITE

We visited the location site for this museum in Sotira, Cyprus and examined various elements of the environment that would act as the inspiring base of our project. As a group we researched different techniques and materiality to generate a design that will accommodate the requirements for the museum.

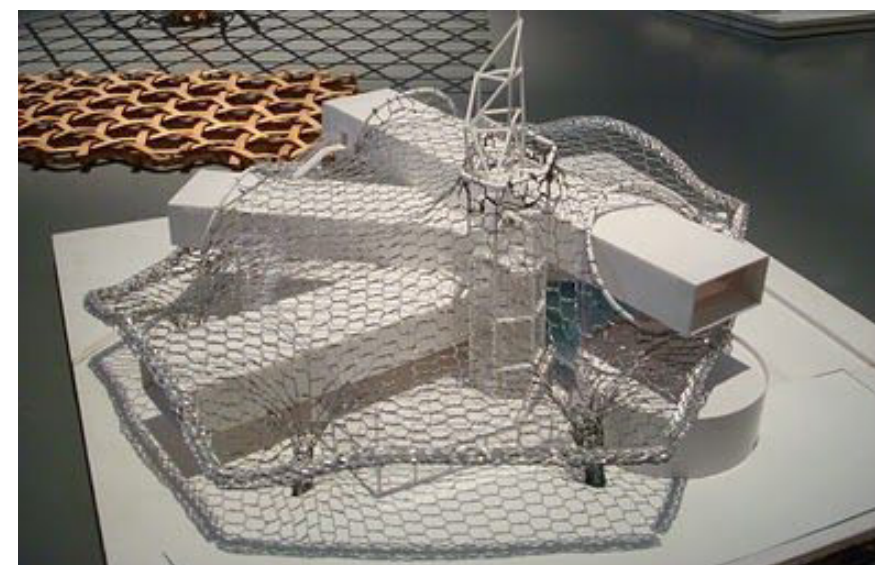


SITE ANALYSIS

The site is in Sotira, Town in Famagusta, Cyprus. There are 4 roads leading in to the site. The landscape is a bit hilly. The wind mostly flows from South-West and South. In the summer the area does not get rain and in the winter it usually rains eleven days a month. The temperature in winter time is usually around 8 degrees celsius and in summer it's around 33 degrees celsius.

REFERENCES

German Pavilion, Expo '67 / Frei Otto and Rolf Gutbrod
House NA by sou fujimoto architects
Skysong at ASU Campus / FTL Design Engineering Studio

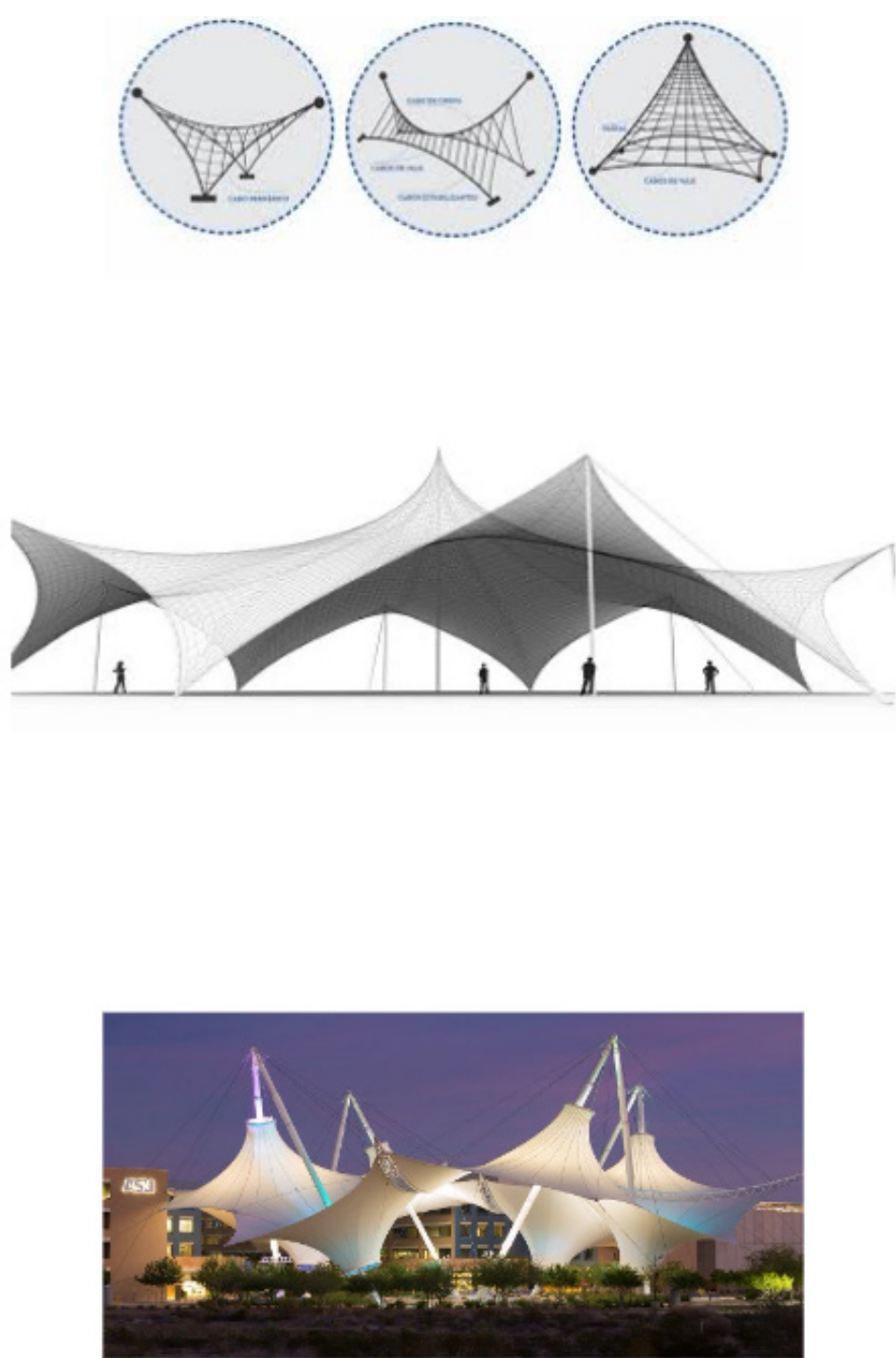
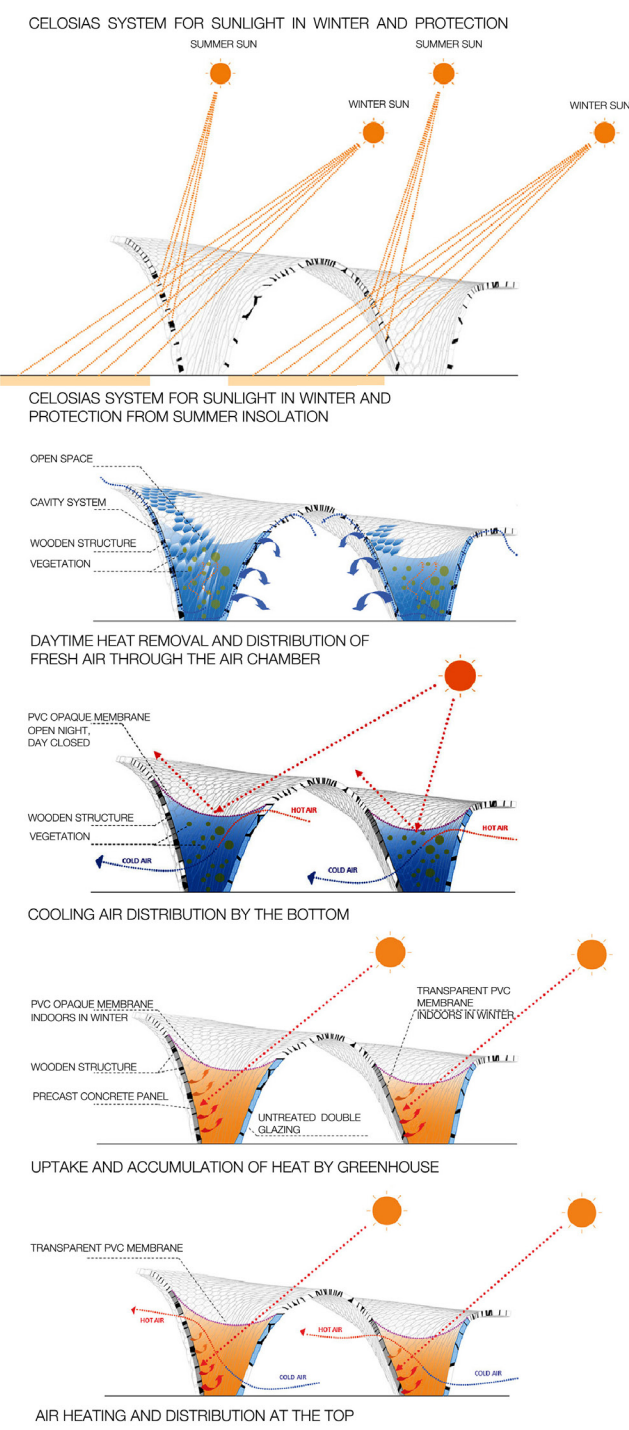
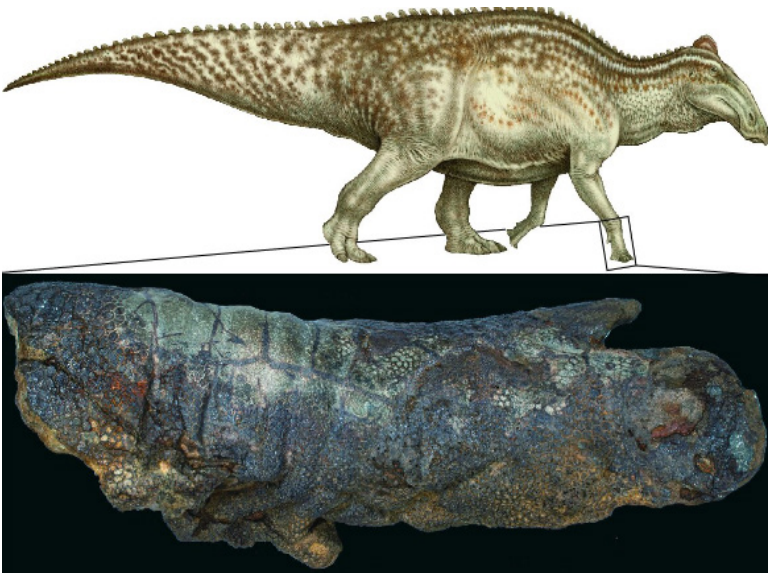


MATERIALITY INSPIRATION - SKIN IMITATION

The design for our Dinosaur Museum came from the idea of replicating the framework of an animal. This would be achieved by using a stretchy skin-like material for our roof to cover the interior supports and spaces which would be the bones of our structure.

Using a tensile membrane roofing material will enable the museum to utilize the surrounding environmental properties. This material will allow sunlight and airflow to penetrate through the openings and materiality of the roofing.

The roofing material will also serve as a watering distribution system which will be used to water the museum's vegetation. Due to the flexibility of tensile membranes, the roofing will have water collecting pockets which will flow to nurture the surrounding greenery.



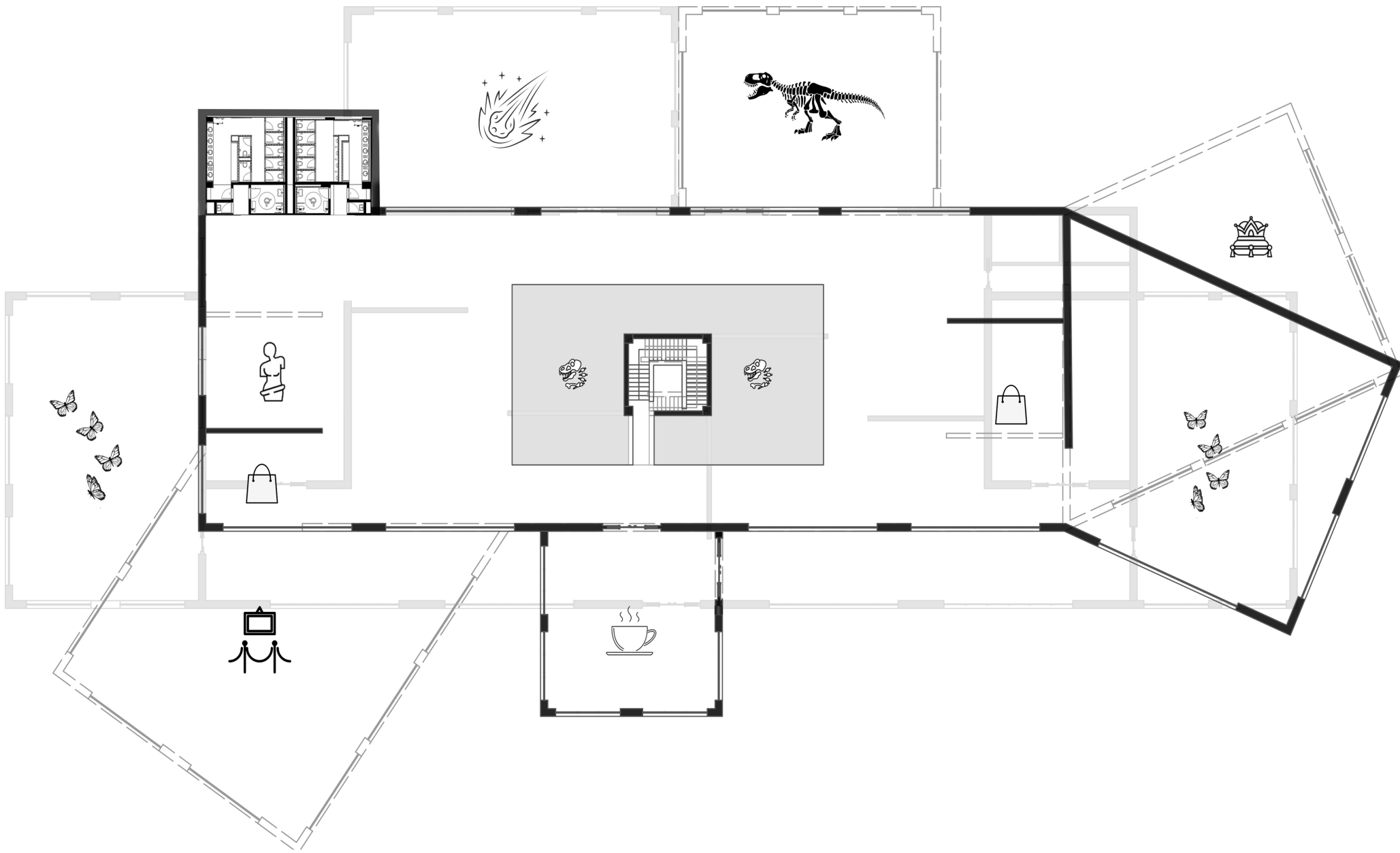
MATERIALITY - TENSILE MEMBRANE ROOFING

The main structure of our museum uses a tensile membrane style of roofing which covers the different exhibits and programs within the area.

Tensile membranes are a stretchable material which can embody many different shapes spanning across large distances. This is essential to our project as this material will better accommodate the various exhibition sizes and the vastness of the site location. This material can be used to create unique and organic spaces.

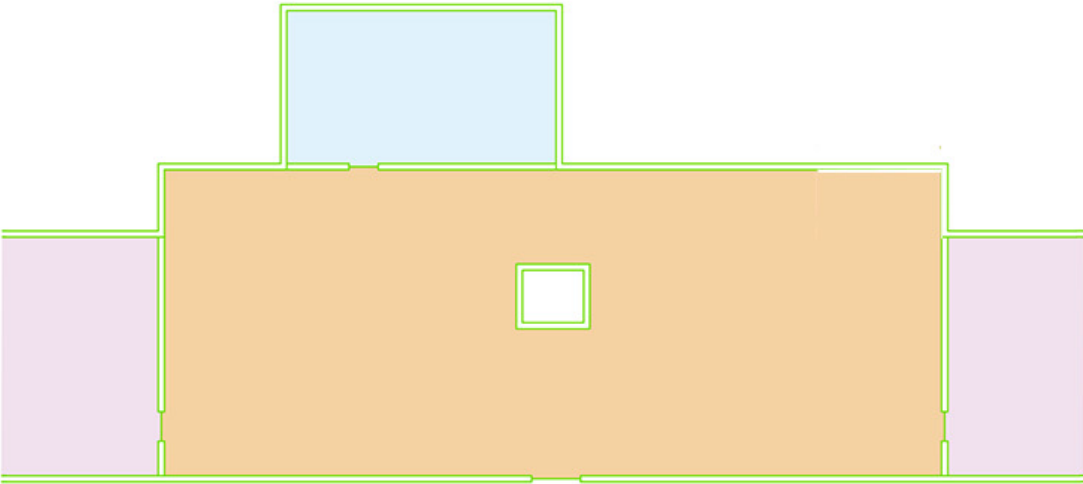
PROGRAM

The purpose of Natural History museum is to propose a design for a museum that will preserve and display dinosaur artifacts, alongside other items, and information to educate visitors on the history of nature's past across different time periods.



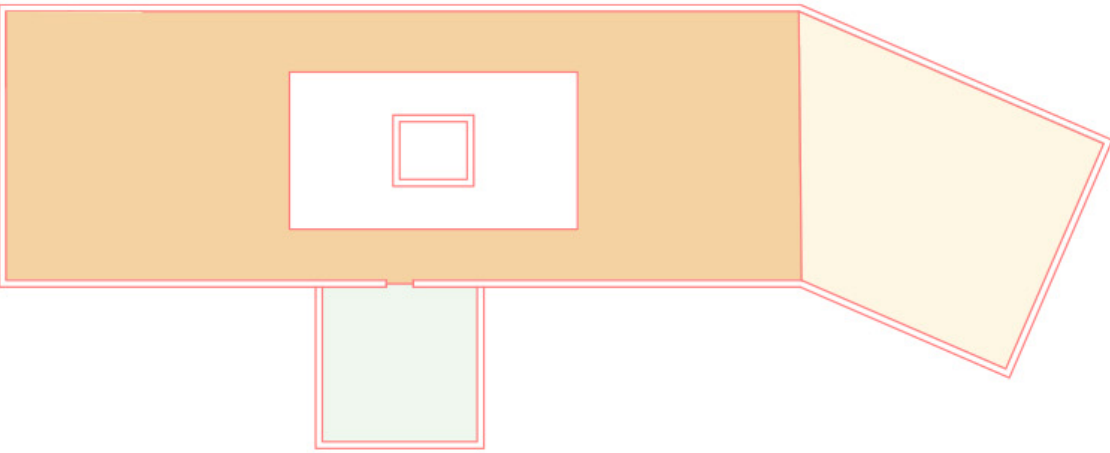
Ground floor

- Seminar and training
- Antiquities and meteorites
- Multi - use
- Common spaces (toilets, storage, services room, shops, fossils)



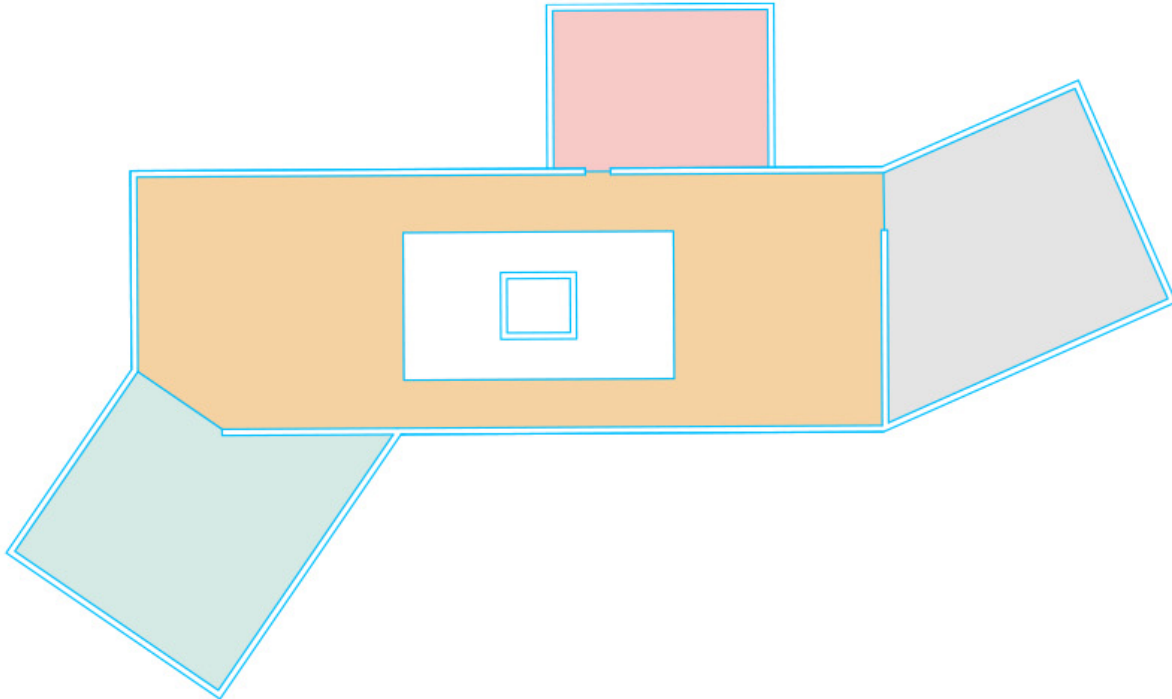
First floor

- Restaurant
- Interactive learning, screening, periodical library
- Common spaces (toilets, storage, services room, shops)



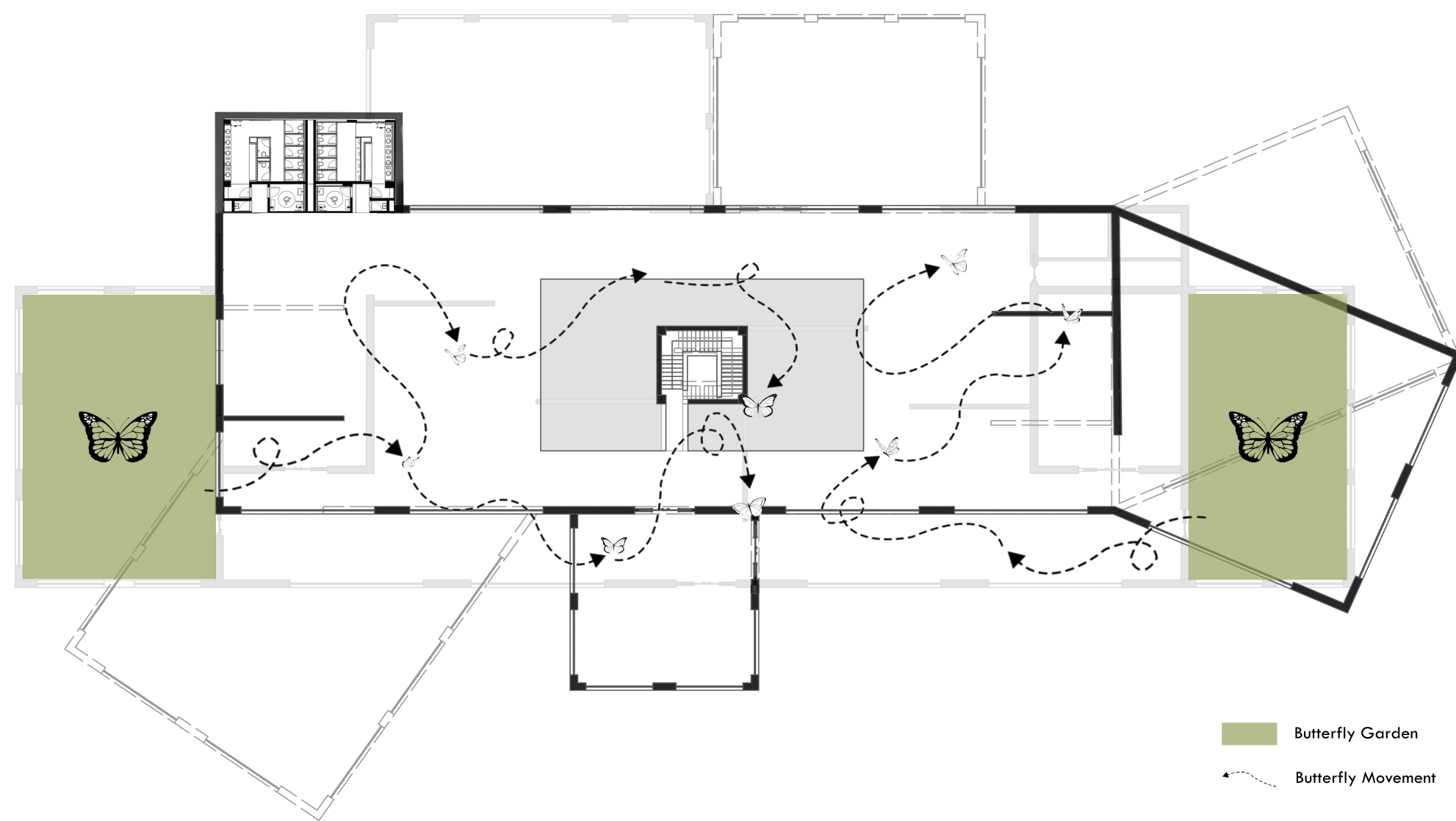
Second floor

- Seminar and training
- Antiquities and meteorites
- Multi - use
- Common spaces (toilets, storage, services room, shops)

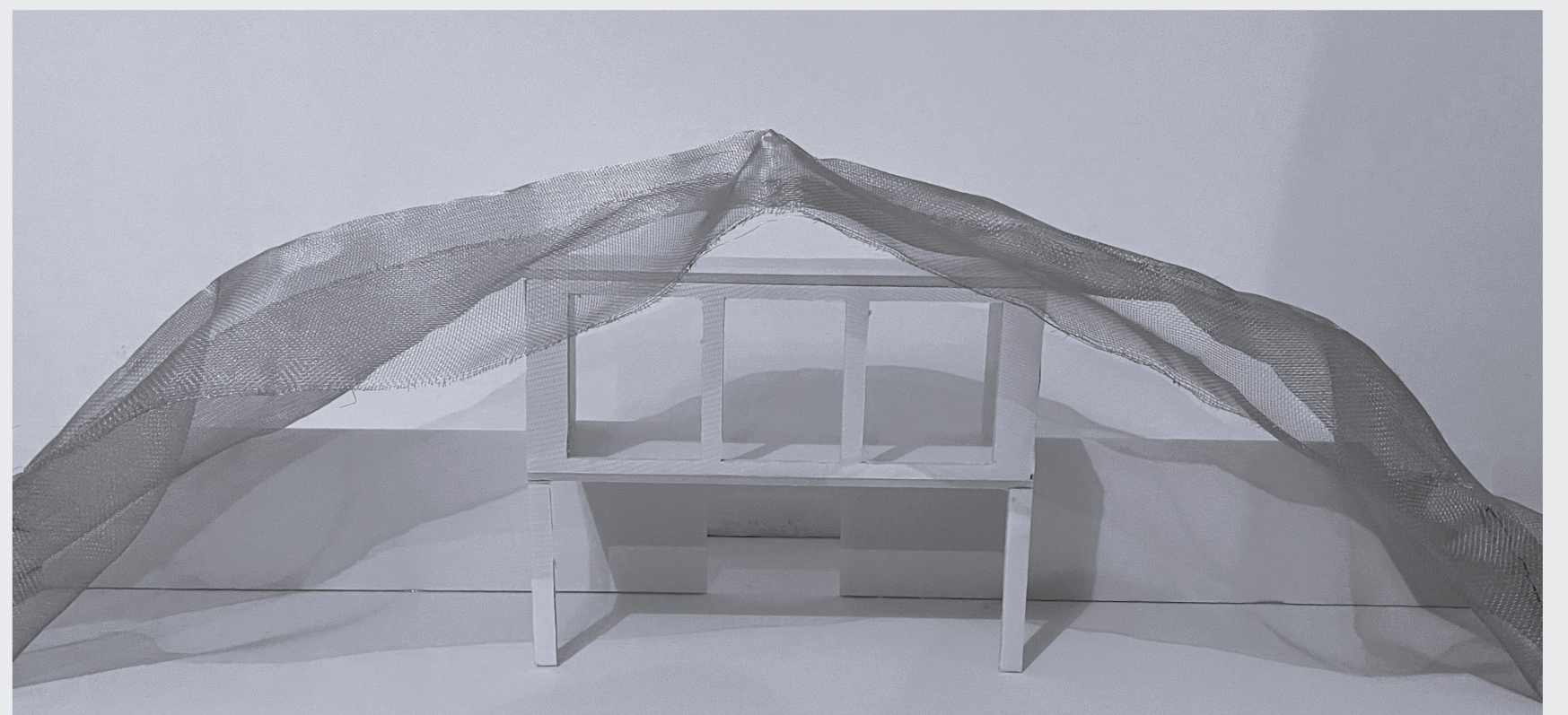
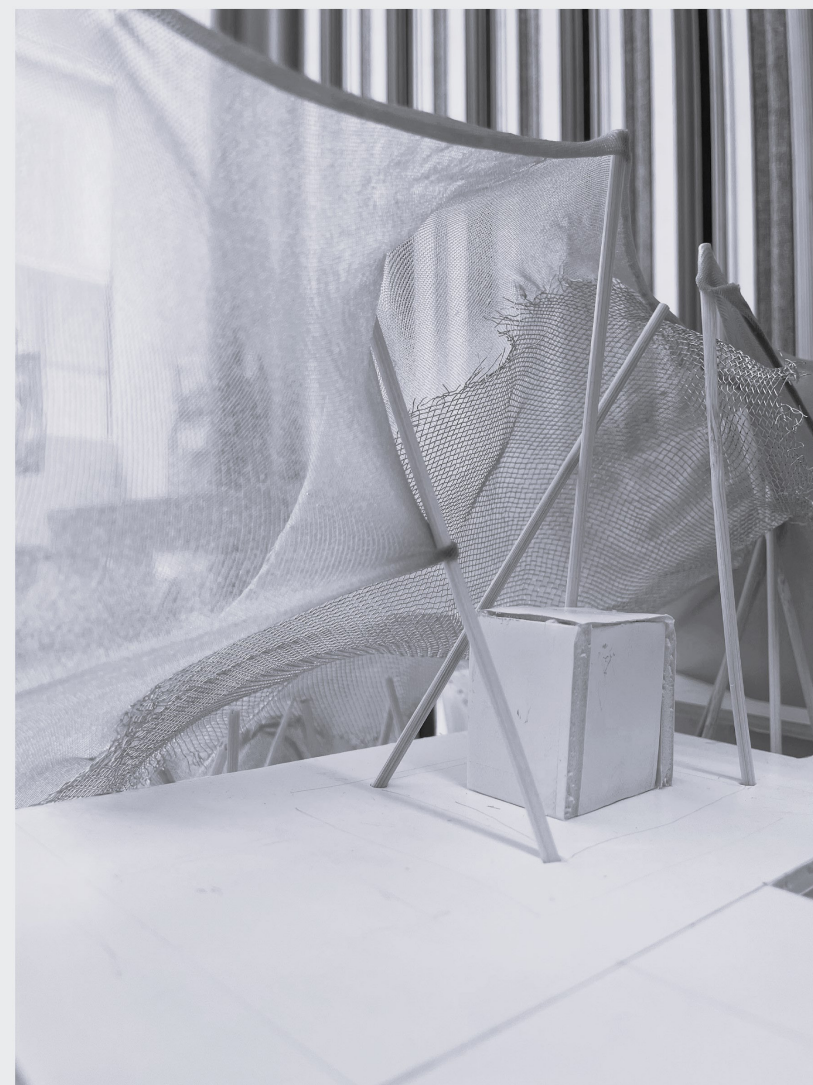


PROGRAM

Additional program of the natural history museum is a butterfly garden. It is an interactive experience the the visitors can be surrounded by butterflies. The butterflies are from the aria, they are taken care of and preserved. The insected fly around the whole of the museum and are kind of partb of the exhibits. They cand rotated around becouse there are spots all over the building where the butterflies can land and feed.

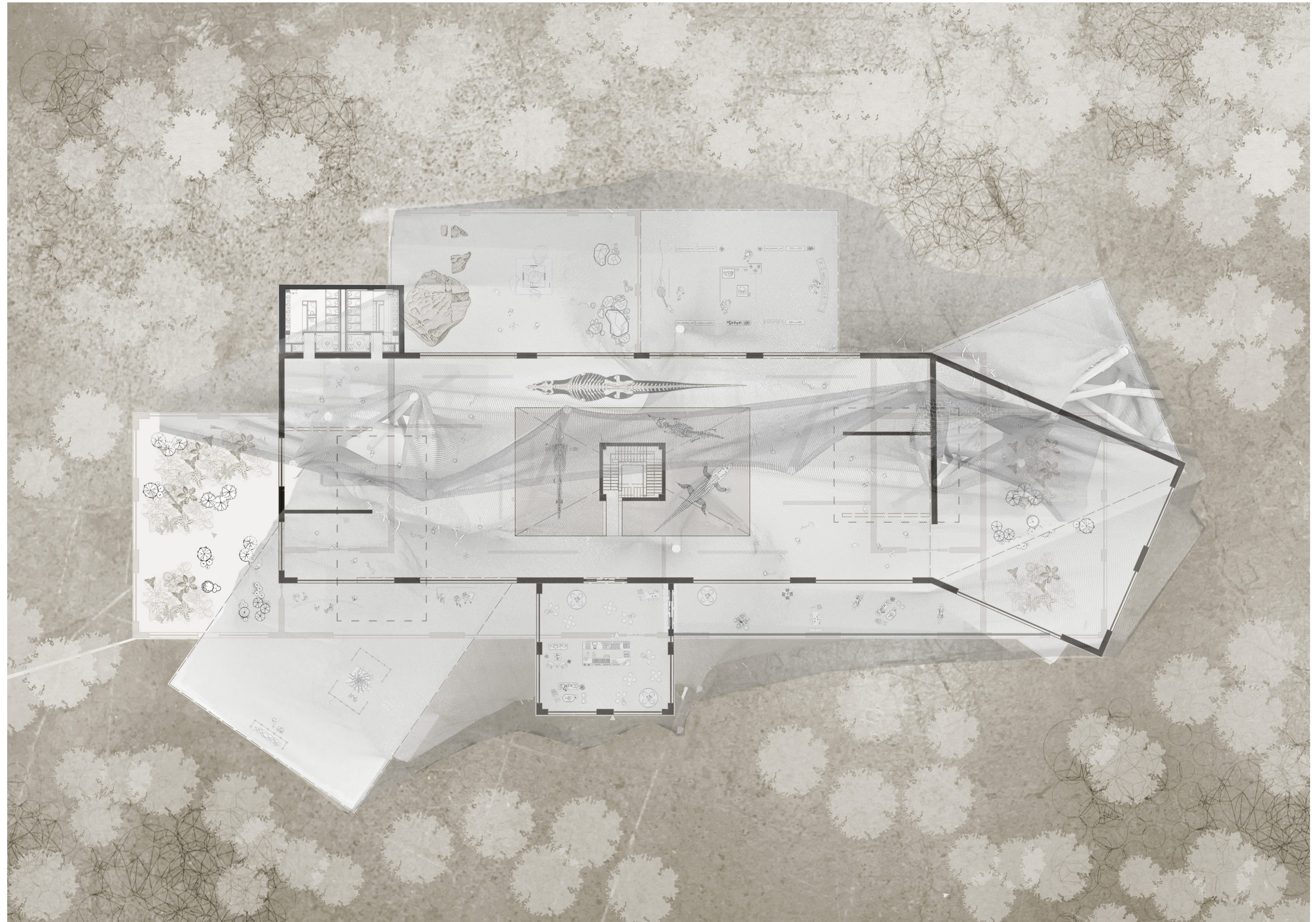


PHOTOS OF THE SCRTACH MODELS

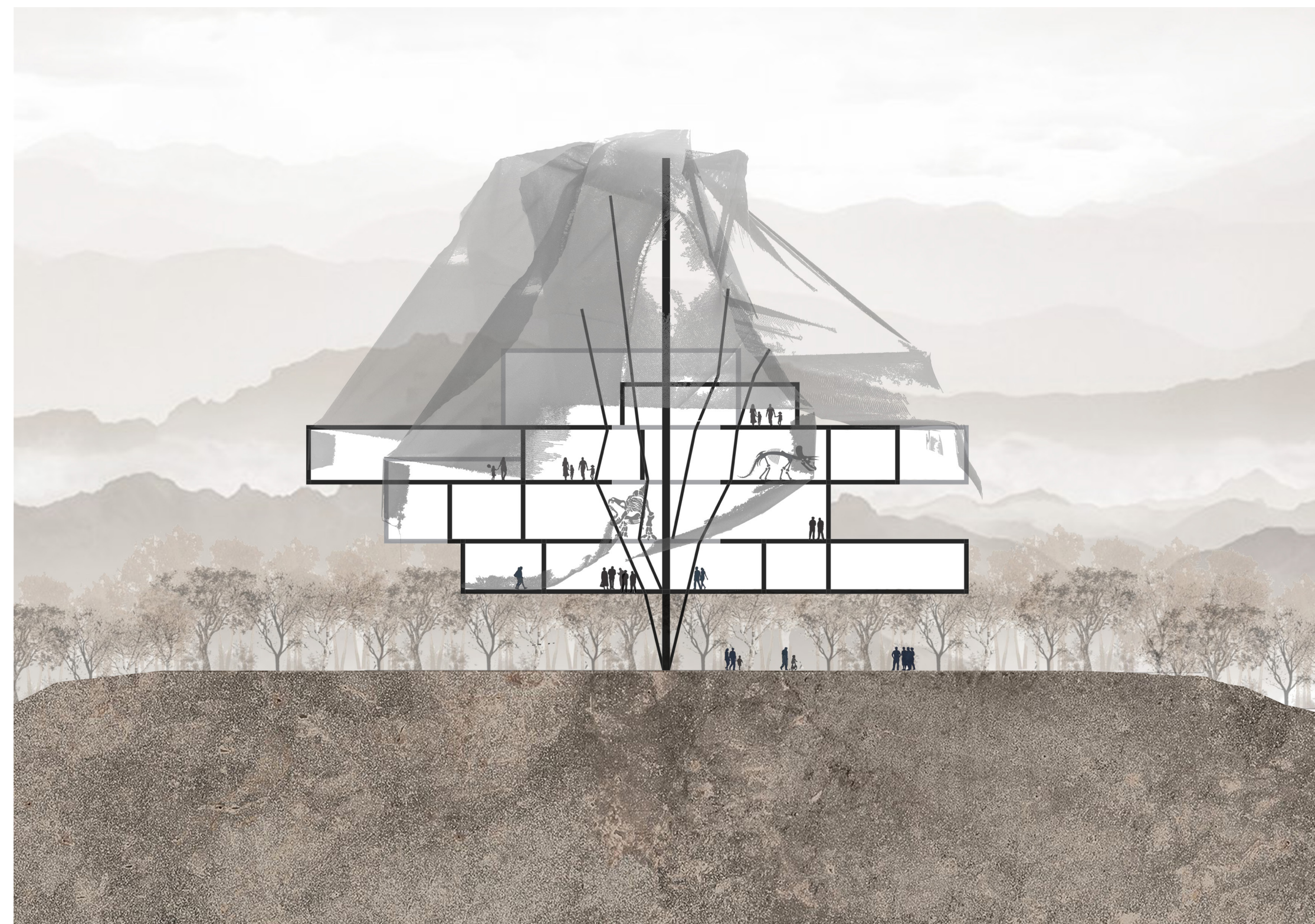
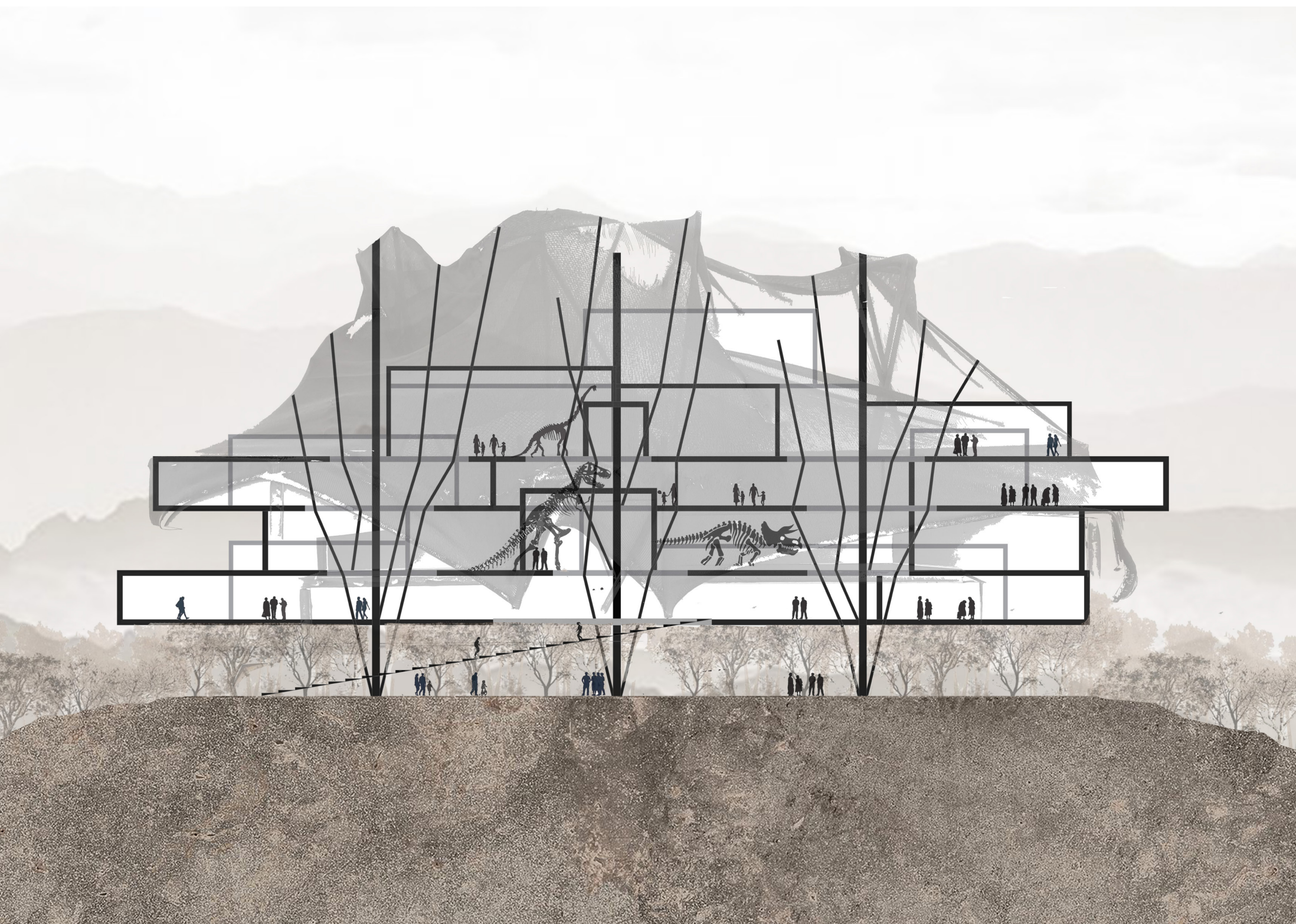


PLAN

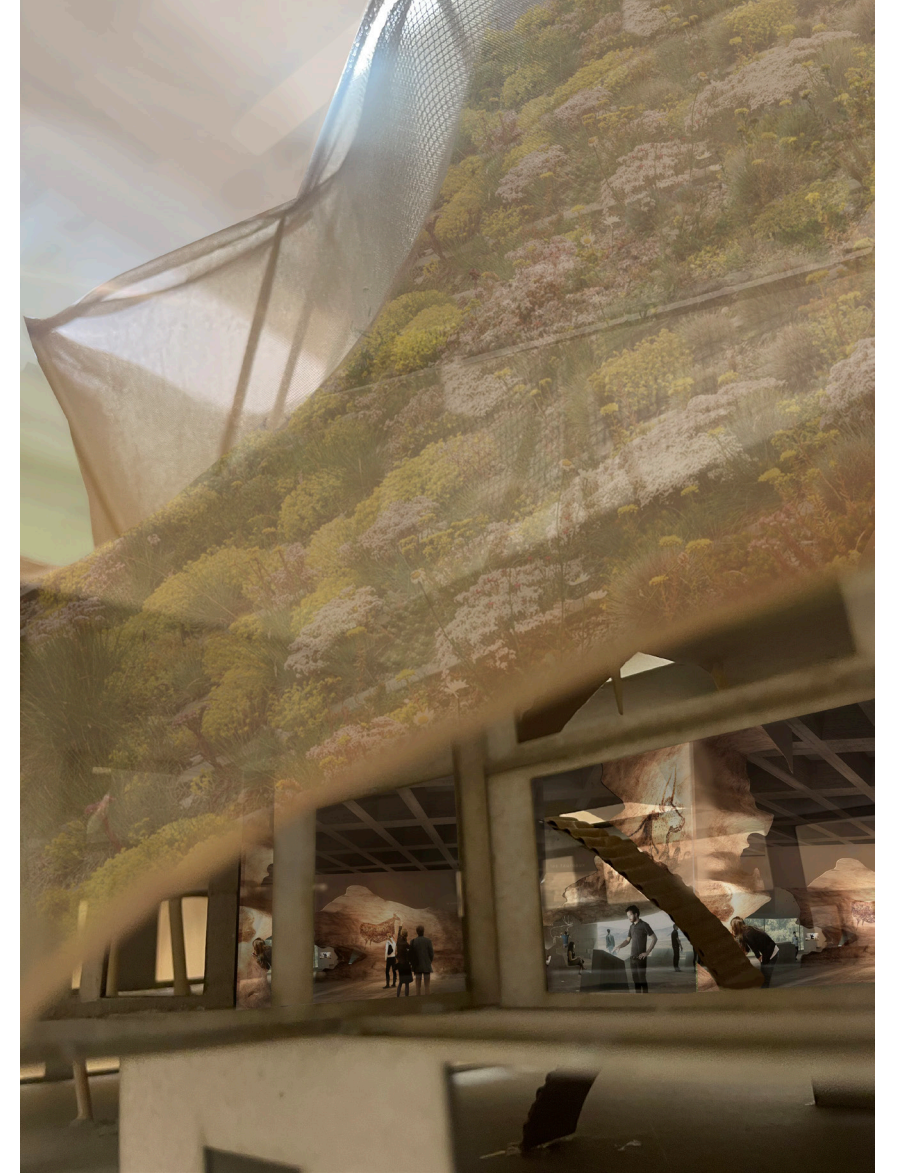
The plan of the Natural History museum designed in a kind of circular movement it creates spaces that are easily accessible. The building is arranged and expanded to all directions of the site so that it is mirrorinG it and it's layout.



SECTIONS AND ELEVATION



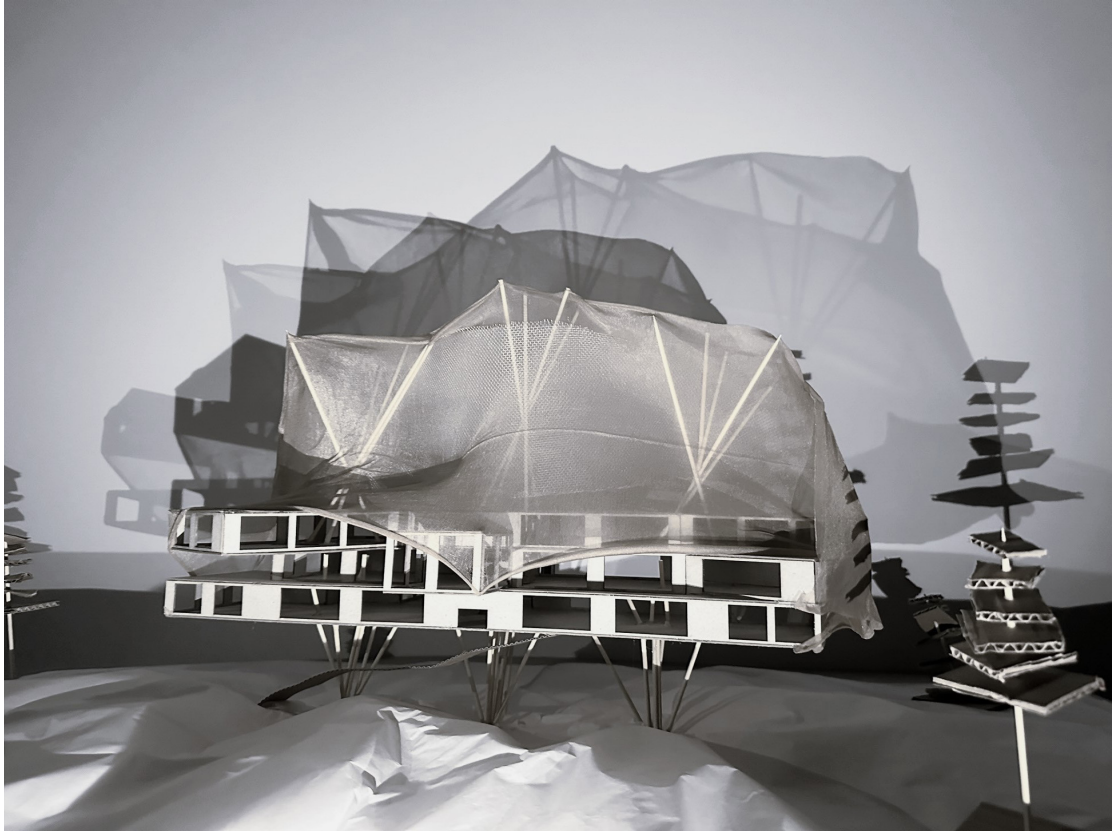
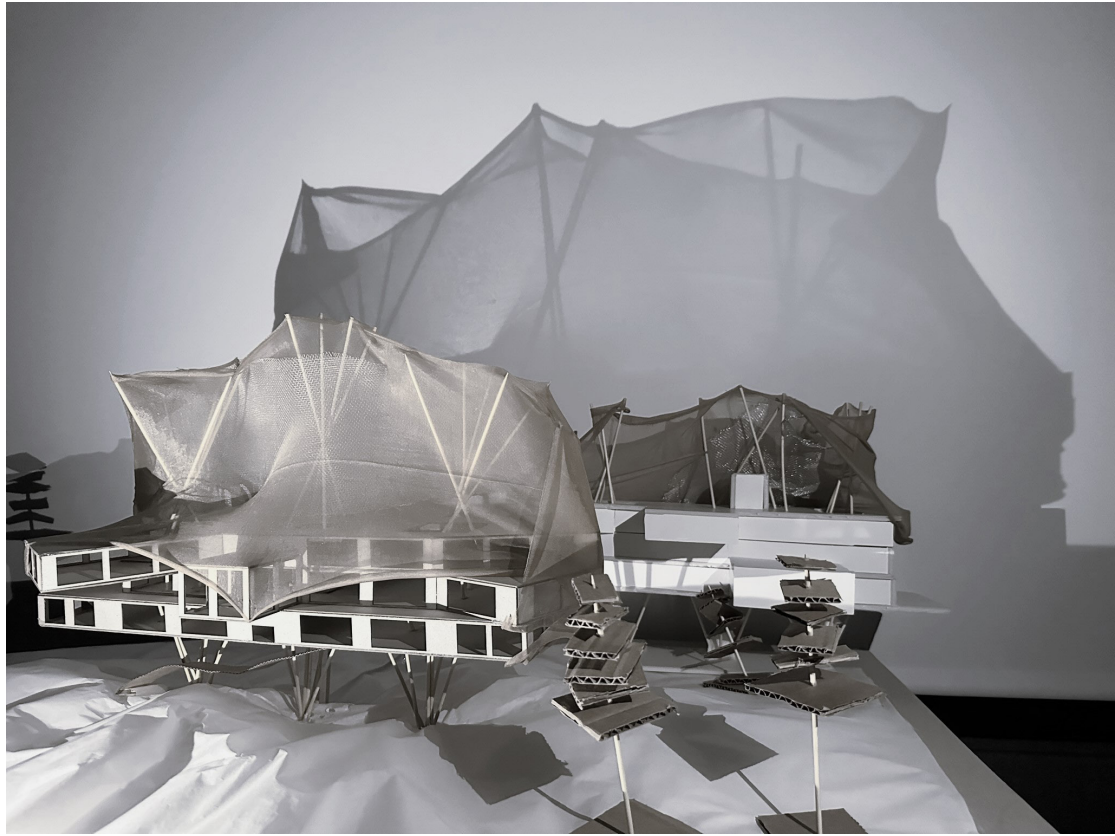
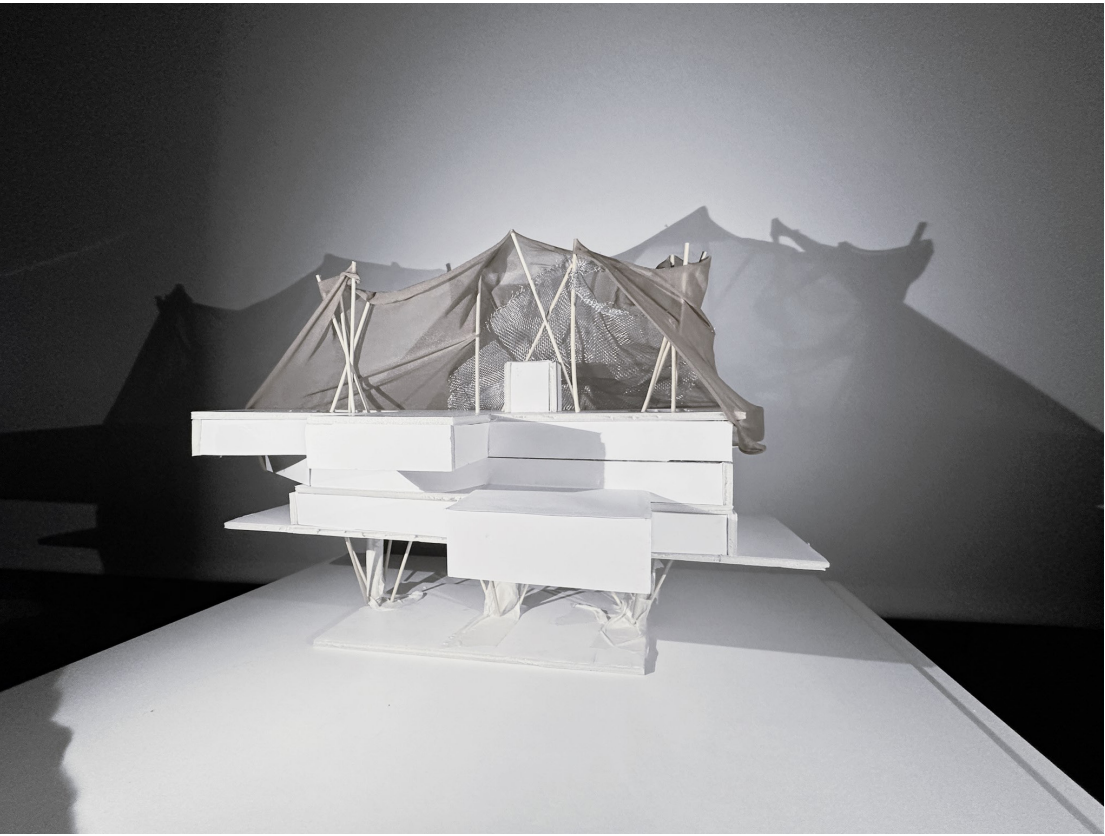
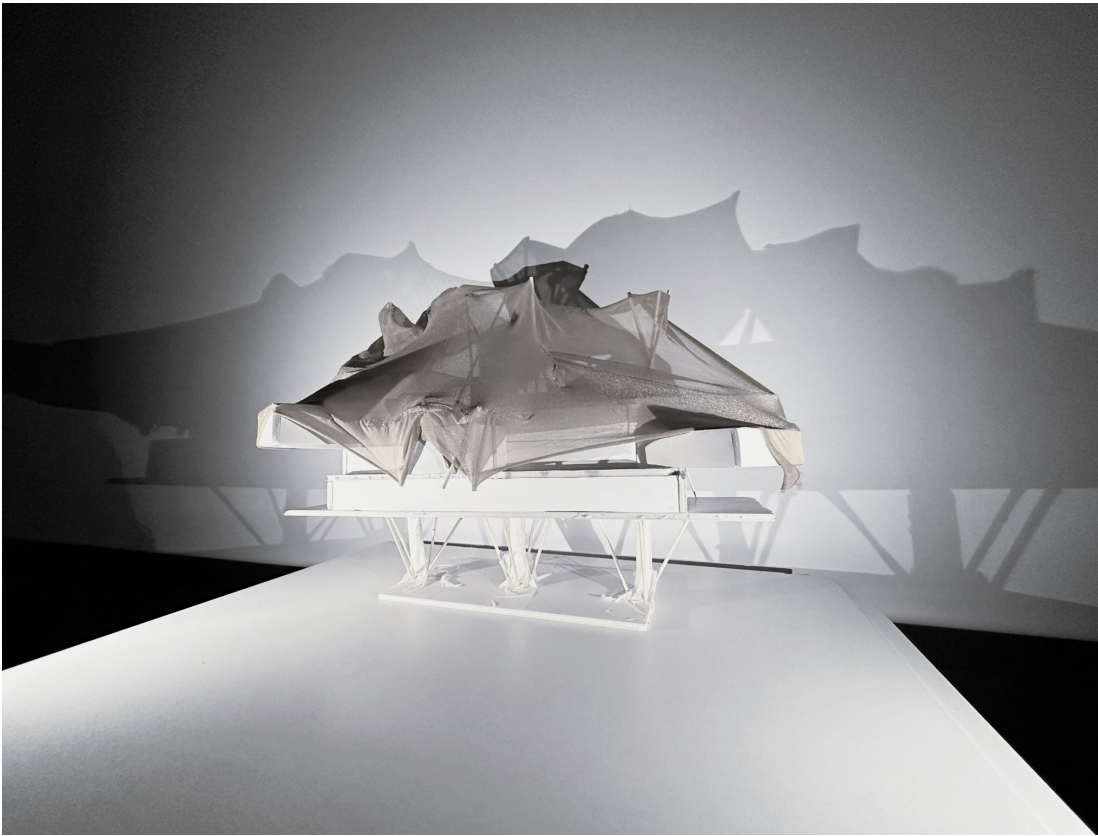
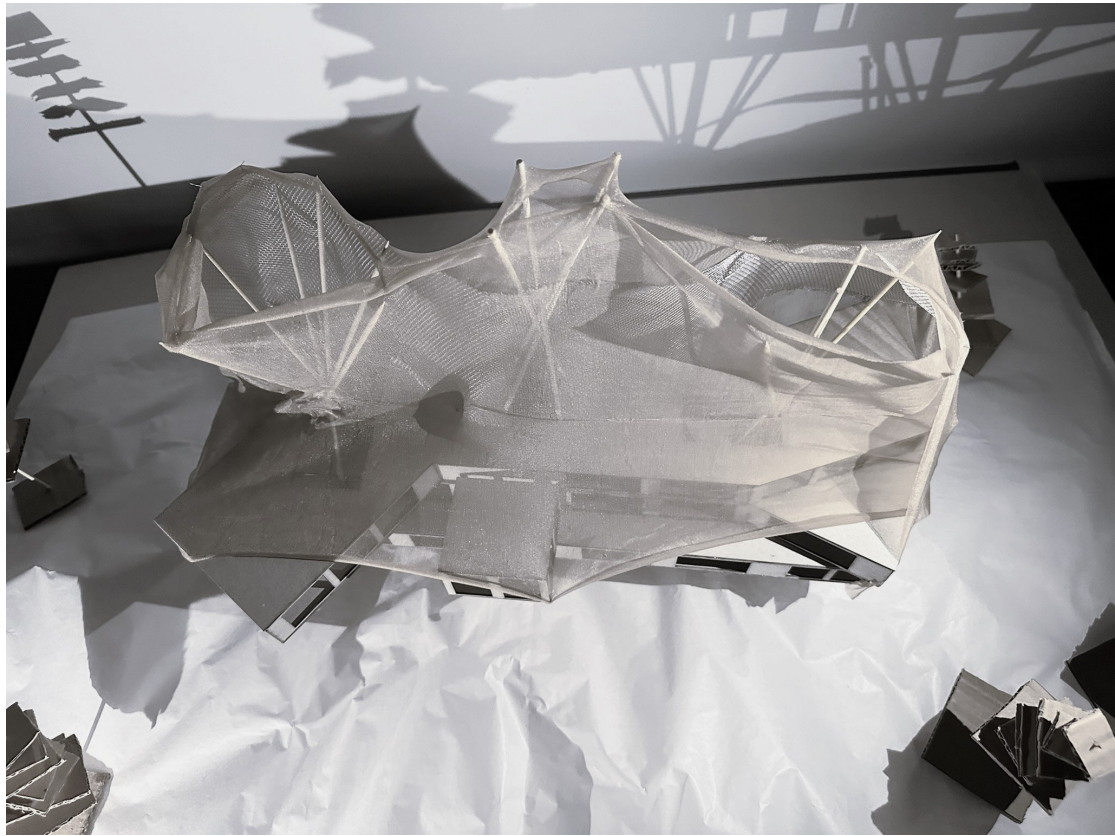
PHOTOSHOPED IMAGES OF THE MODEL



RENDERS WITH ADDITIONAL
AI IMPROVEMENT



PHOTOS OF THE FINAL MODEL



PHOTOS OF THE FINAL MODEL
