

CEC
CULTURAL AND EXHIBITION
CENTER

ANDREA LIZETH
DIAZ PINEDA

BRITISH EMBASSY
OF MEXICO CITY

2024



INDEX

01. CONTEXT

04. CONCEPT

09. ARCHITECTURAL PLANS

16. RENDERS

23. REFERENCES

CONTEXT

CULTURAL AND EXHIBITION CENTER

MUSEUM CÁRCAMO DE DOLORES CDMX

One of the greatest lost treasures in Mexico city is located in the second section of Chapultepec, the museum of "Cárcamo de Dolores". This place holds one of the most interesting works made by the engineers Eduardo Molina Arévalo, Guillermo Torres, the artist Ariel Guzik and the great Mexican muralist Diego Rivera.

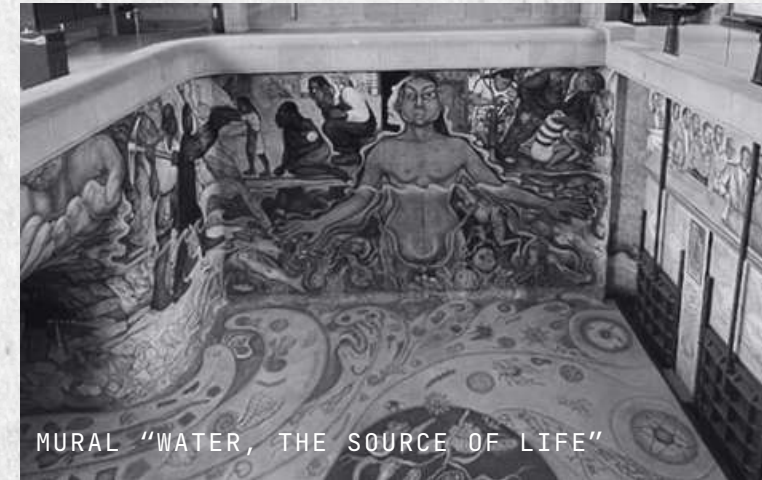
This place is dedicated to commemorate the hydraulic system of Lerma, but the most interesting pieces are the works made by Diego Rivera: The fountain of Tláloc and the mural called "Water, source of life", the only underwater mural in the world with more than 200m².

¿WHAT IS THE MAIN PROBLEM?

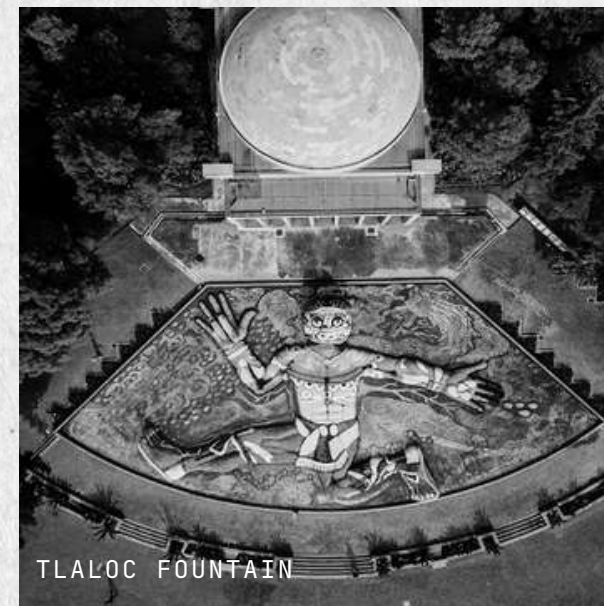
Unfortunately this space, in addition to possessing great Mexican treasures and a rich mexican history, has been forgotten by many visitors and today, although it is not in total abandonment, it shows a certain degree of carelessness.

OBJECTIVE

The main objective is to reactivate the activity of the space and its surroundings creating a space dedicated to culture and art exhibition, where users feel in an atmosphere of inclusion, nature and appreciation. As well as to create a space integrated to the forest where the Tláloc fountain and the museum of the carcamo can be appreciated , also integrate it with the existing hydraulic system.



MURAL "WATER, THE SOURCE OF LIFE"



TLALOC FOUNTAIN



MUSEUM "CÁRCAMO DE DOLORES"

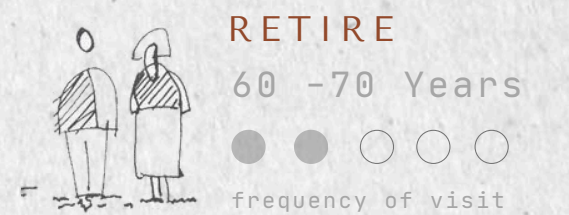
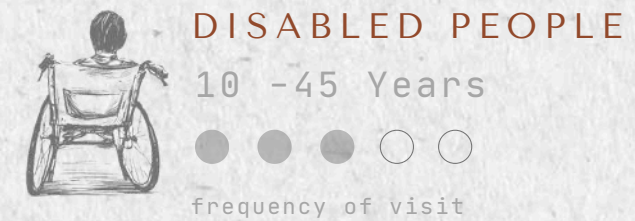
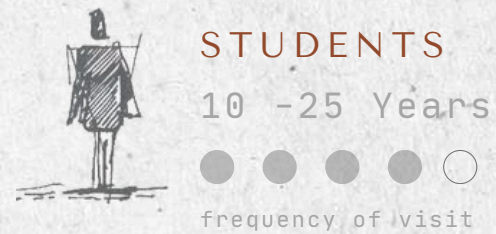


LOCATION



Av. Rodolfo Neri Vela, Bosque de Chapultepec
II Secc, Miguel Hidalgo, 11100 CDMX

WHO WOULD USE THIS PLACE?



IN ALL CATEGORIES ARE WELCOME USERS OF ANY NATIONALITY, GENDER OR AGE. NO DISCRIMINATION HERE

HOW DO YOU GET THERE?



WHY A CULTURAL CENTER?

Cultural centers can perform a variety of functions, such as:

A place for learning.

A space for freedom and expression.

A sphere of control.

A place for social integration.

Strengthening the community's identity.

CONCEPT

CULTURAL AND EXHIBITION CENTER

WHO IS THE MAIN EXPONENT OF BRITISH ARCHITECTURE?



NORMAN FOSTER

BRITISH ARCHITECT

"As an architect, you design for the present, with an awareness of the past, for a future which is essentially unknown"

Integrating a modern environment with the historical legacy. Always in constant evolution.

Conservation and nature integration.

Planning as a key to the future. Innovation, technology and sustainability.

The greatest exponent of HIGH TECH architecture

HIGH TECH

ARCHITECTURE

Created in the 70's, this architectural style focuses on integrate advanced technology into architectural design, applying aesthetics, materials and industrial techniques.

Exteriors with metallic and shiny surfaces, as well as exposed construction systems.

Integration of architectural design with nature.

WHO ARE OTHER BRITISH INFLUENCES ON ARCHITECTURE?

DAVID CHIPPERFIELD

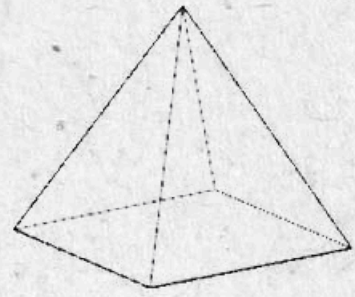
BRITISH ARCHITECT

CAPABILITY BROWN

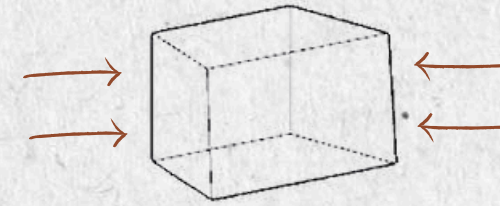
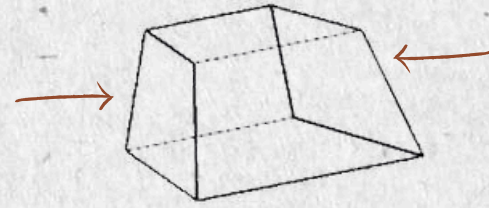
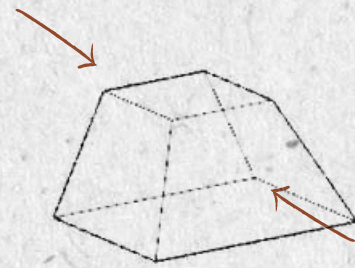
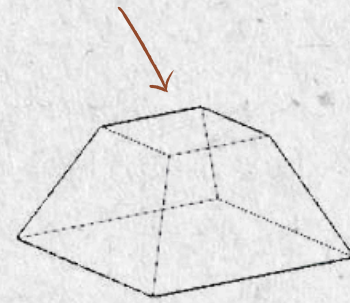
BRITISH ARCHITECT



¿HOW THE SHAPE WAS CREATED?

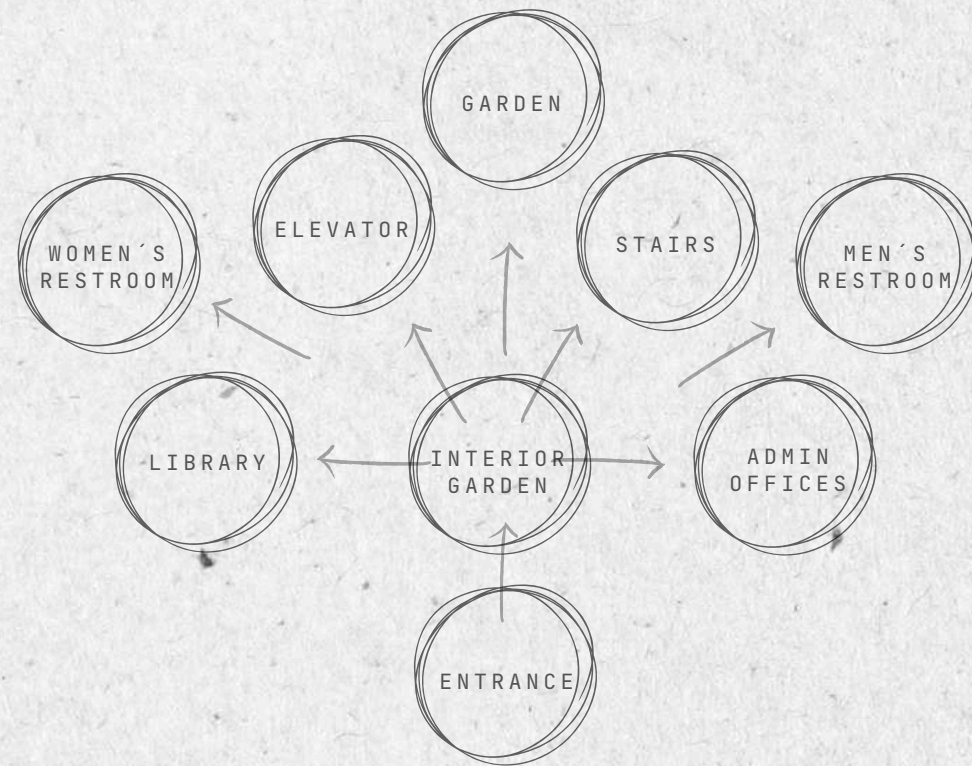


THE PYRAMID IS ONE OF THE MOST IMPORTANT ICONS IN LATIN AMERICA.

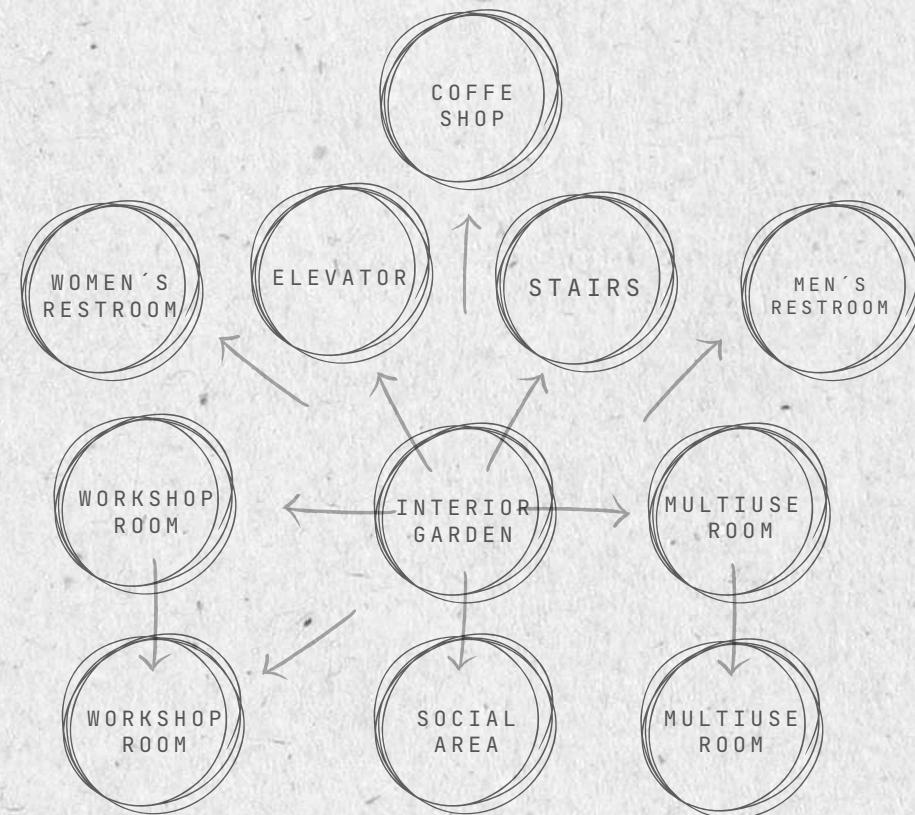


THE OBJECT IS TRANSFORMED UNTIL IT FULFILLS THEIR NEEDS

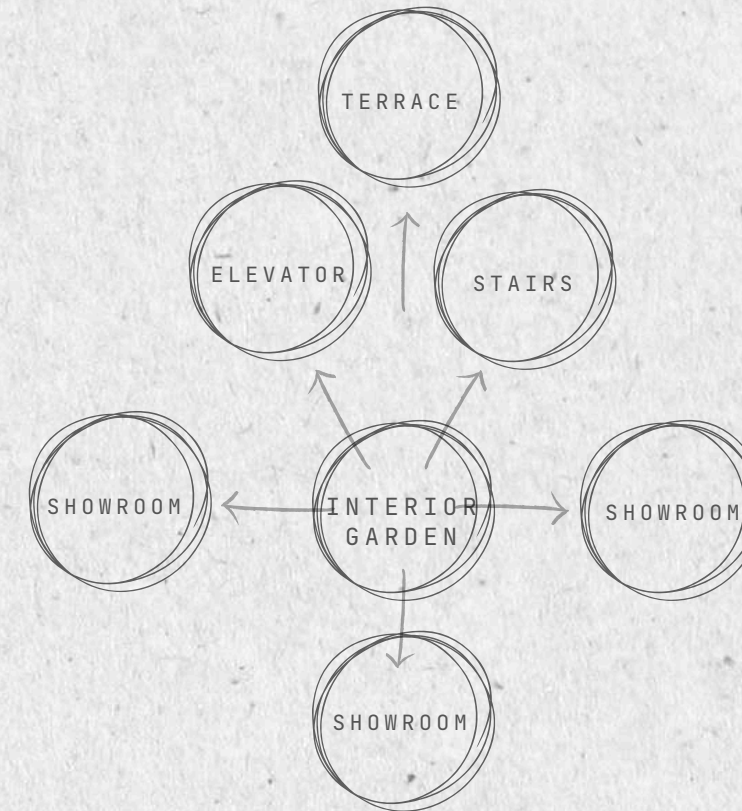
FLOW DIAGRAM



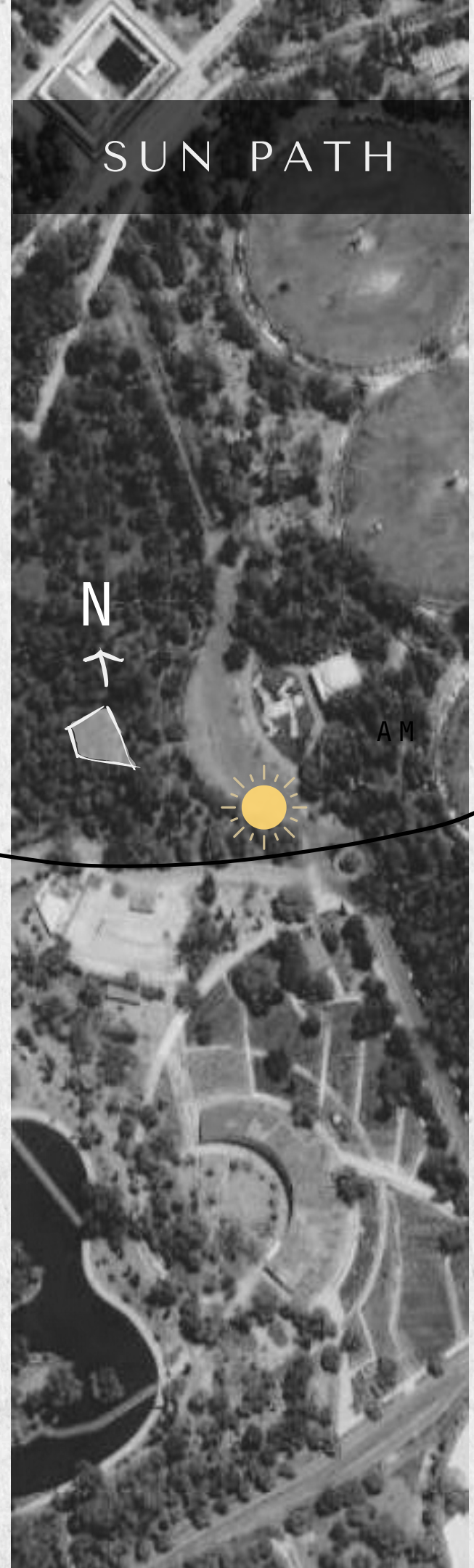
FIRST LEVEL



SECOND LEVEL



THIRD LEVEL

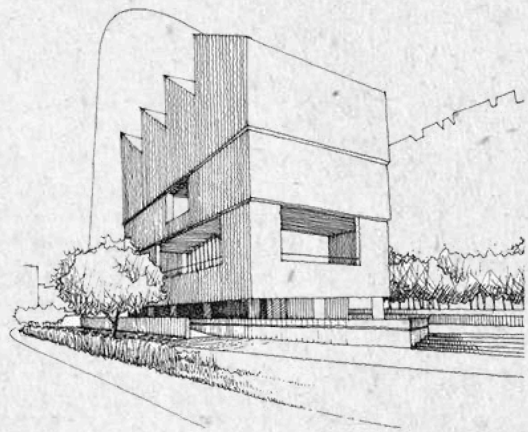


SUN PATH

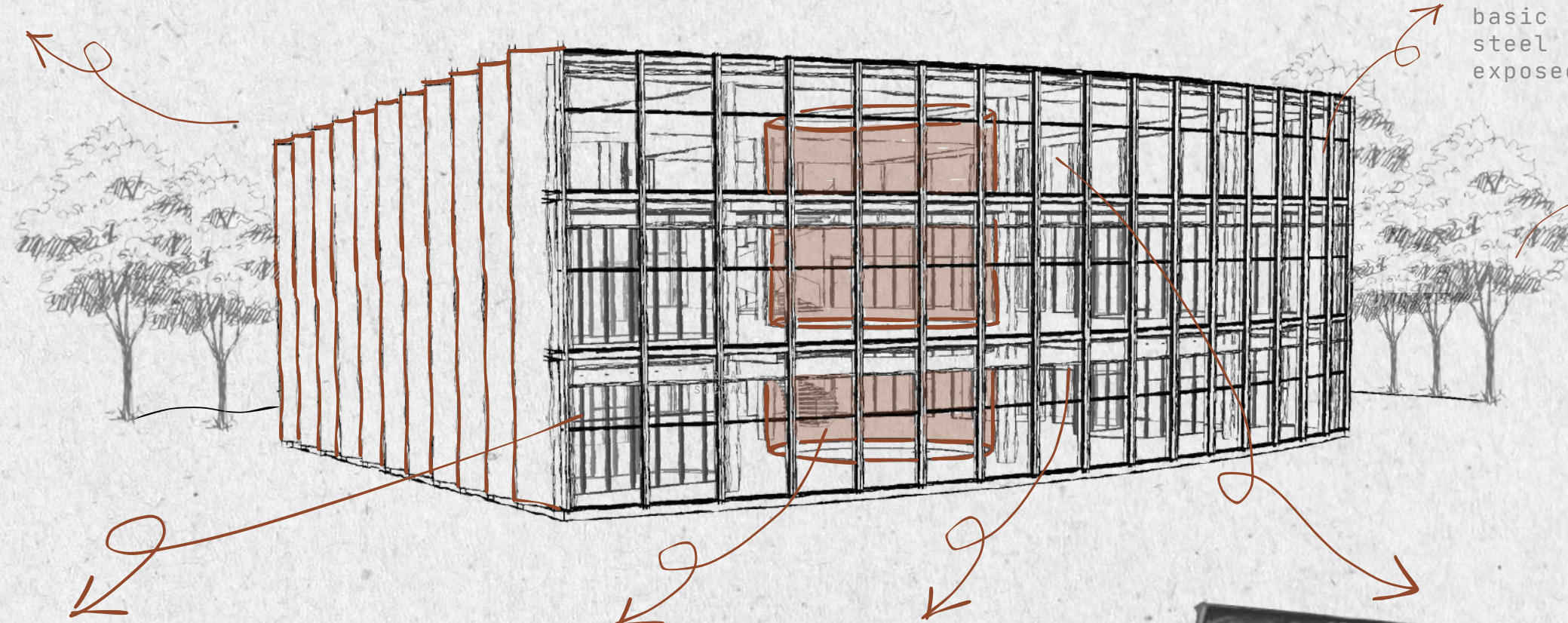


WHAT WAS THE MAIN INSPIRATION?

The stepped shape of the side facades is a solution for the entrance of natural light and ventilation for the interior. This technique was inspired by the British architect **David Chipperfield** in some of his works, This technique has also been used by Mexican architects such as **Teodoro González de León** in the construction of the CENART.



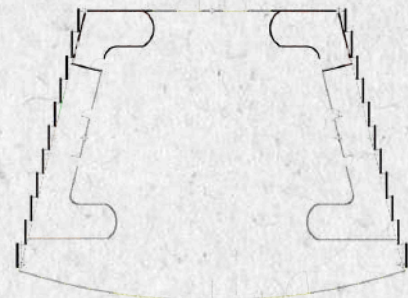
JUMEX MUSEUM, CDMX
BY: DAVID CHIPPERFIELD



The main facade is based on the basic characteristics of **HIGH TECH**, steel and glass, as well as its exposed construction systems.

Integrating architecture with nature while respecting the environment.

All interior spaces will be organically designed with glass and steel materials in order to create an illuminated, integrated space with a high-tech style. As well as furniture in the color of the flag of UK, also highlighting the "Rosa Barragan" spiral staircase, representative of the BBVA tower designed by **Richard Rogers**, another icon of British architecture.

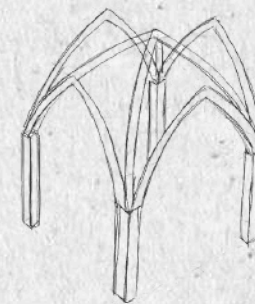


Skylight to illuminate the space and create an interior flow. Inside will be designed an interior garden inspired by the British architect **Capability Brown**.



THE HEDGE MAZE AT BLENHEIM PALACE
BY:CAPABILITY BROWN

The interior lighting will be inspired by the ribbed vaults of English Gothic architecture.



Peripheral view of the museum of the cárcamo and the Tláloc fountain.

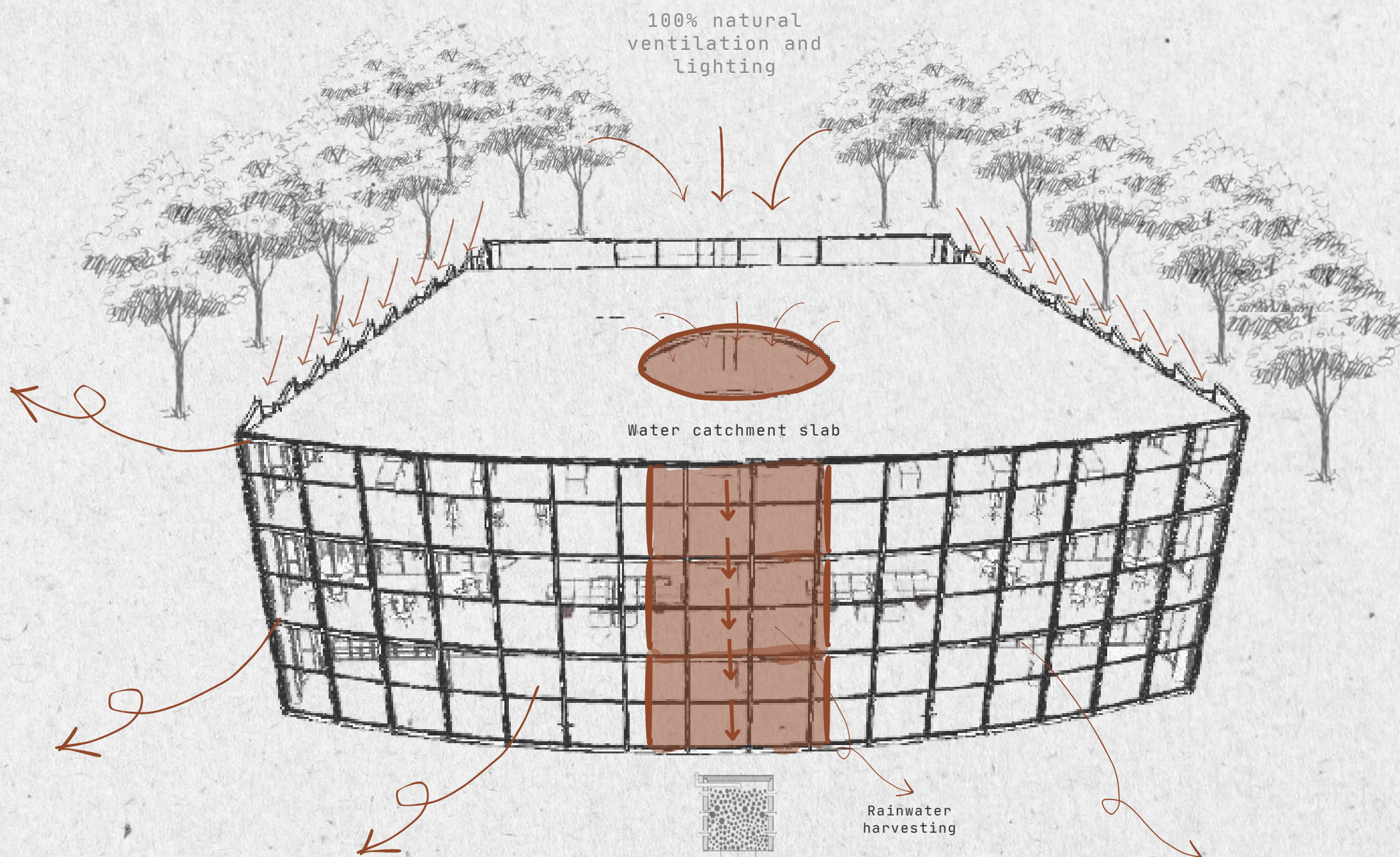


HOW DOES IT WORK SUSTAINABLY?

All materials used are 100% local, so it helps reduce the environmental impact by reducing its carbon footprint thanks to its lower transportation costs, supports the local economy and integrates the culture and identity of the region:

- Travertine marble from Xalapa, Veracruz.
- Apparent white concrete
- Recinto
- Glass
- Steel
- Representative vegetation of Mexico

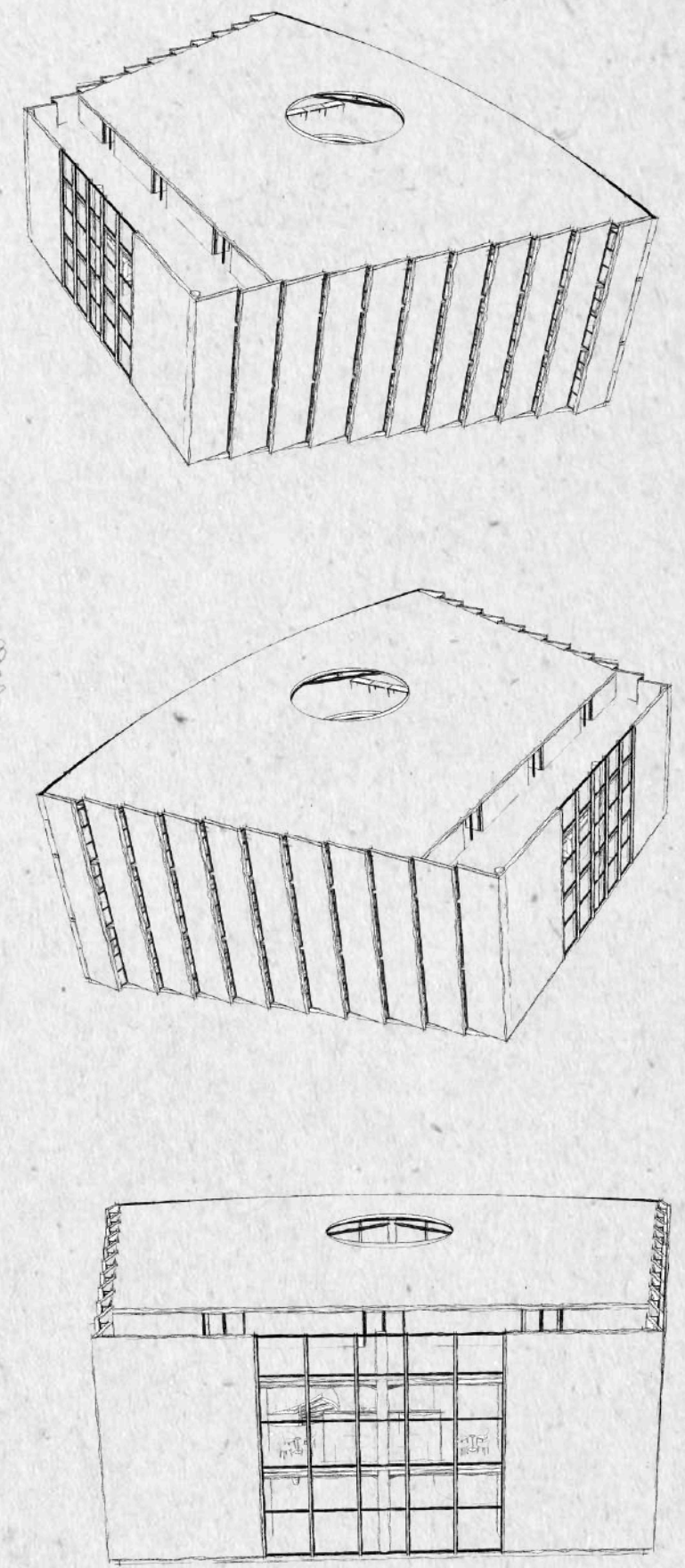
The design of the space responds to the needs of solar orientation, providing areas with greater solar exposure but allowing natural light and ventilation allowing for a warm and welcoming atmosphere.



The interior design consists of a space without walls, which allows 100% natural lighting and ventilation, reducing energy consumption by 20%.

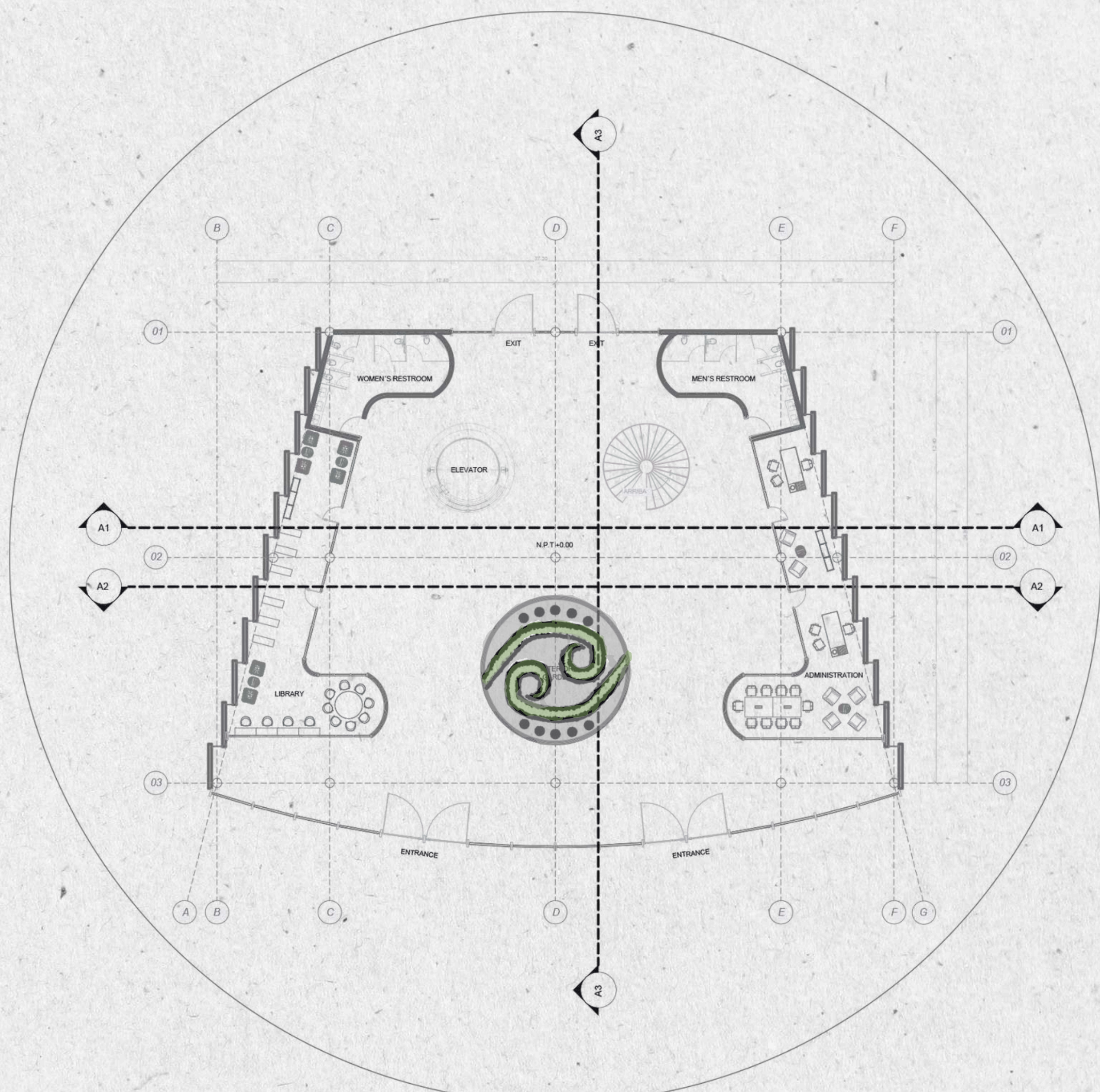
Absorption well that will connect to the Lerma hydraulic system.

All the glass used will be double glazed, which improves the acoustic and thermal insulation of the space, and also generates more safety for the users.

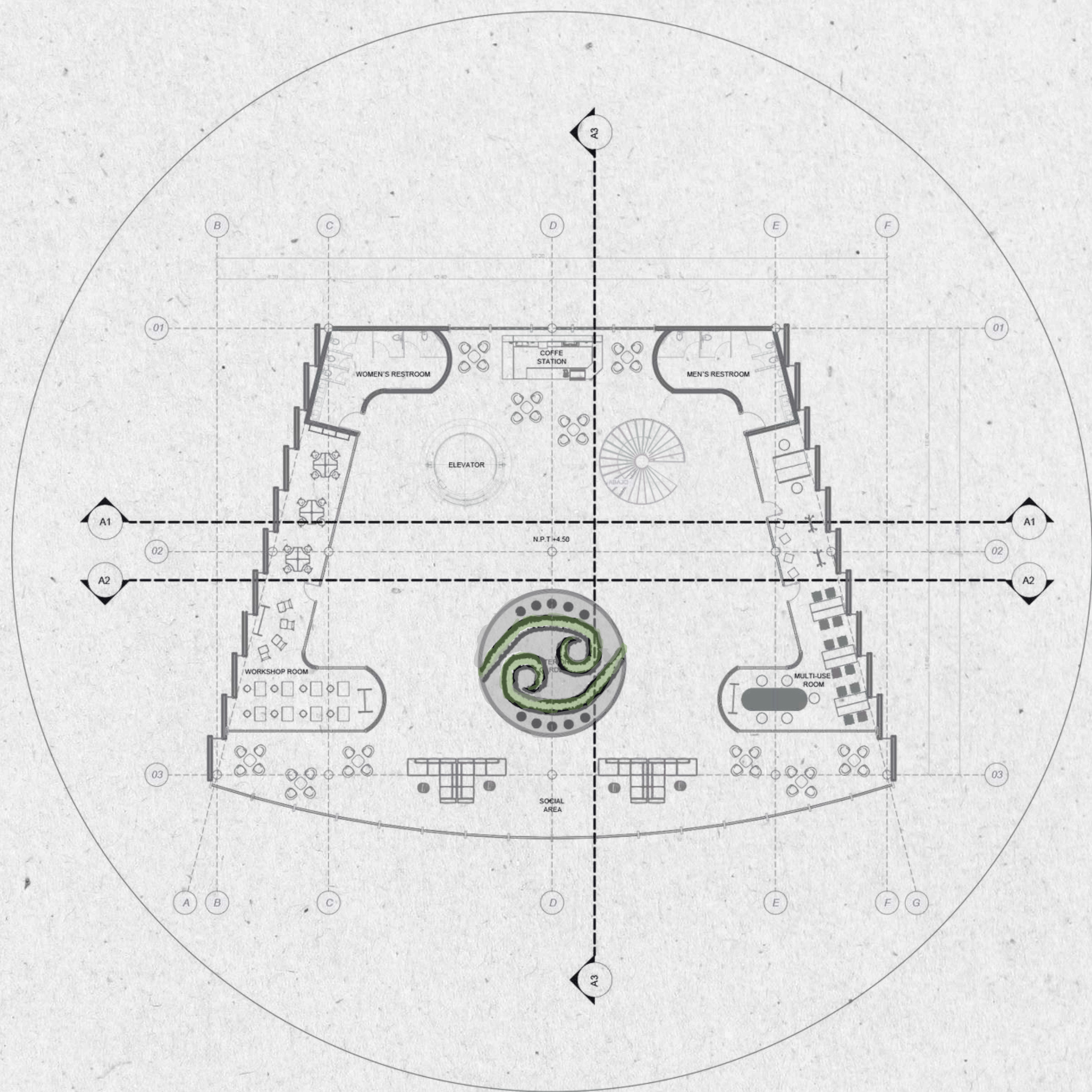


ARCHITECTURAL PLANS

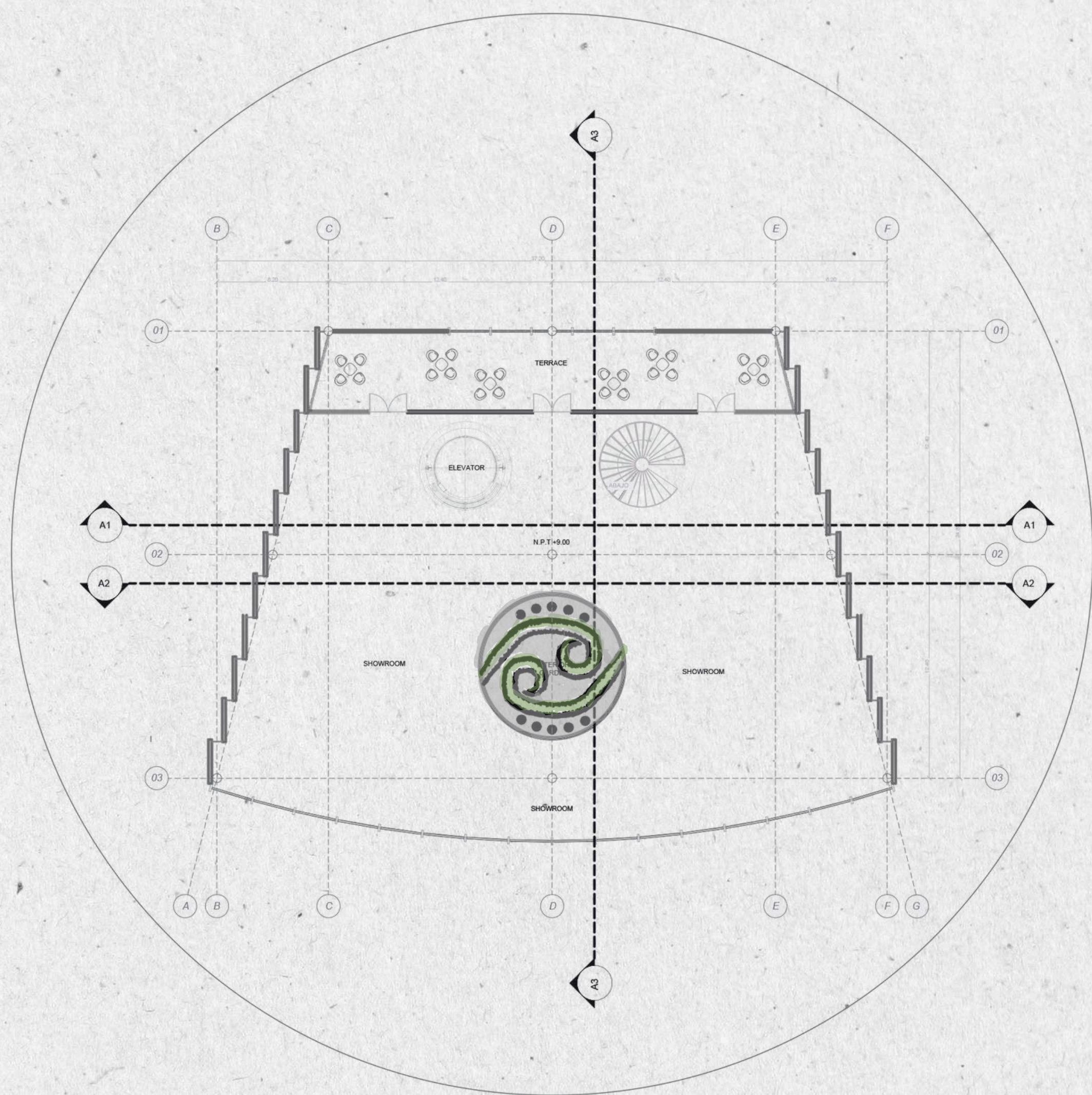
CULTURAL AND EXHIBITION CENTER



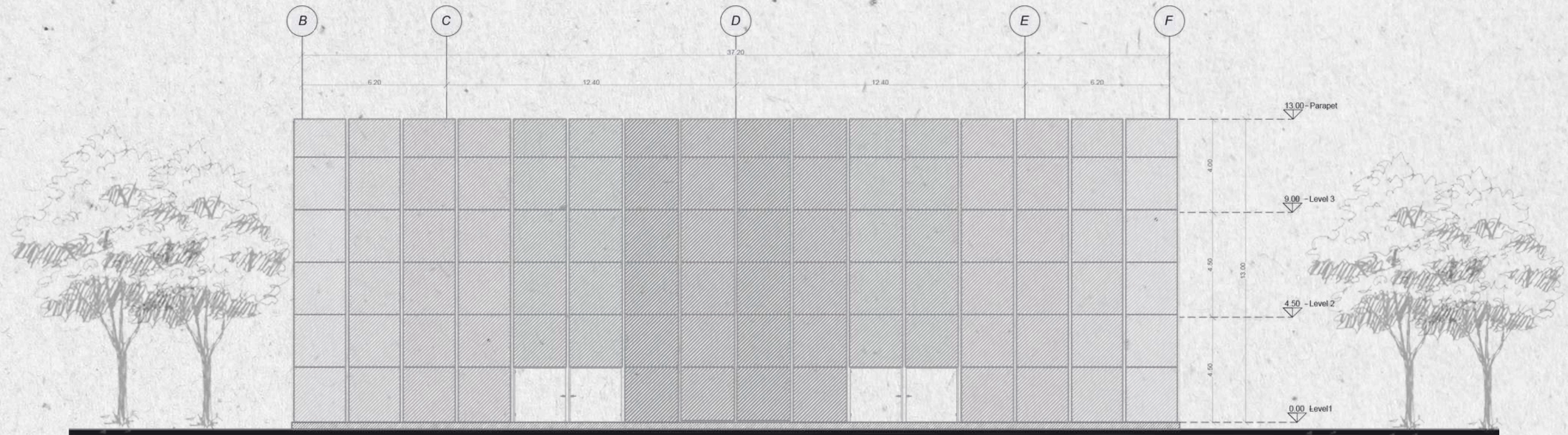
FIRST LEVEL



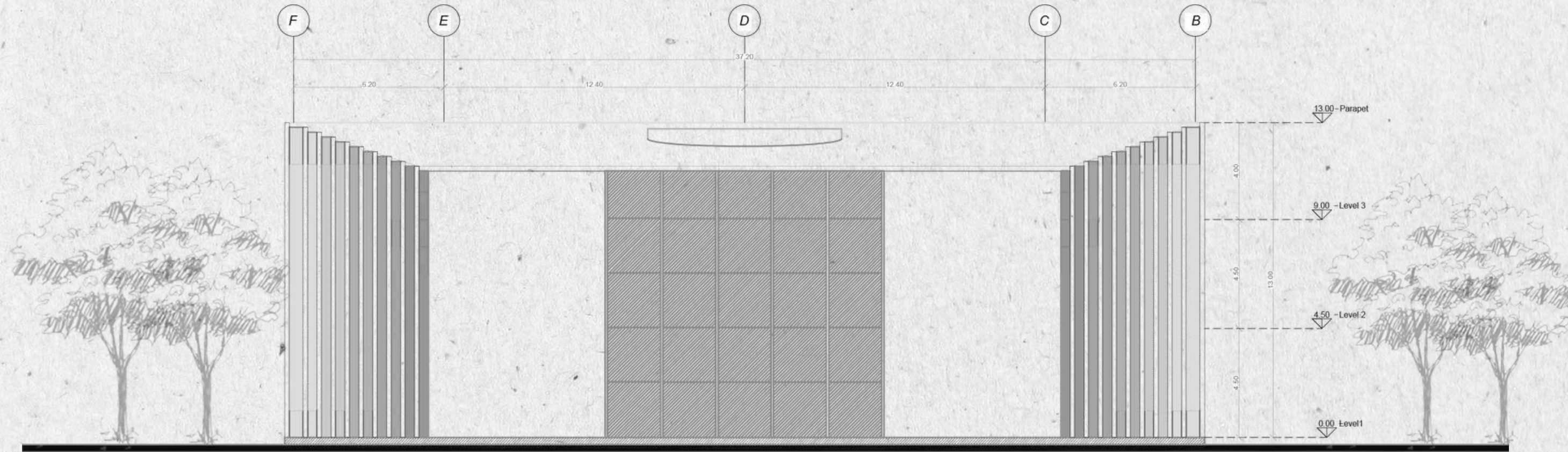
SECOND LEVEL



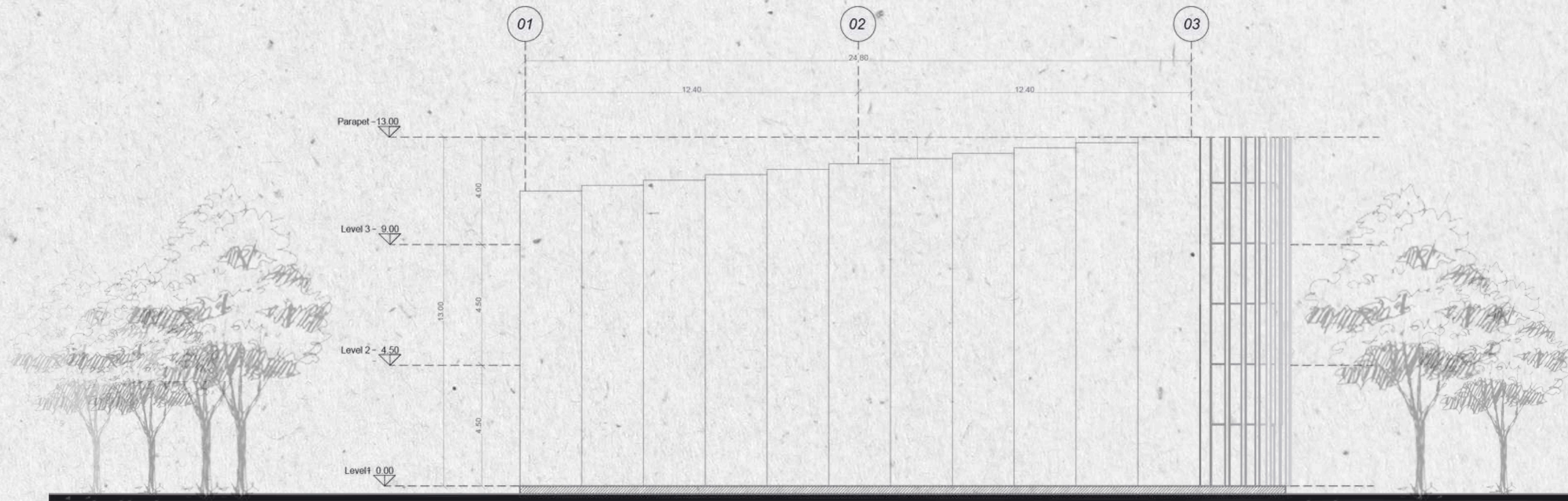
THIRD LEVEL



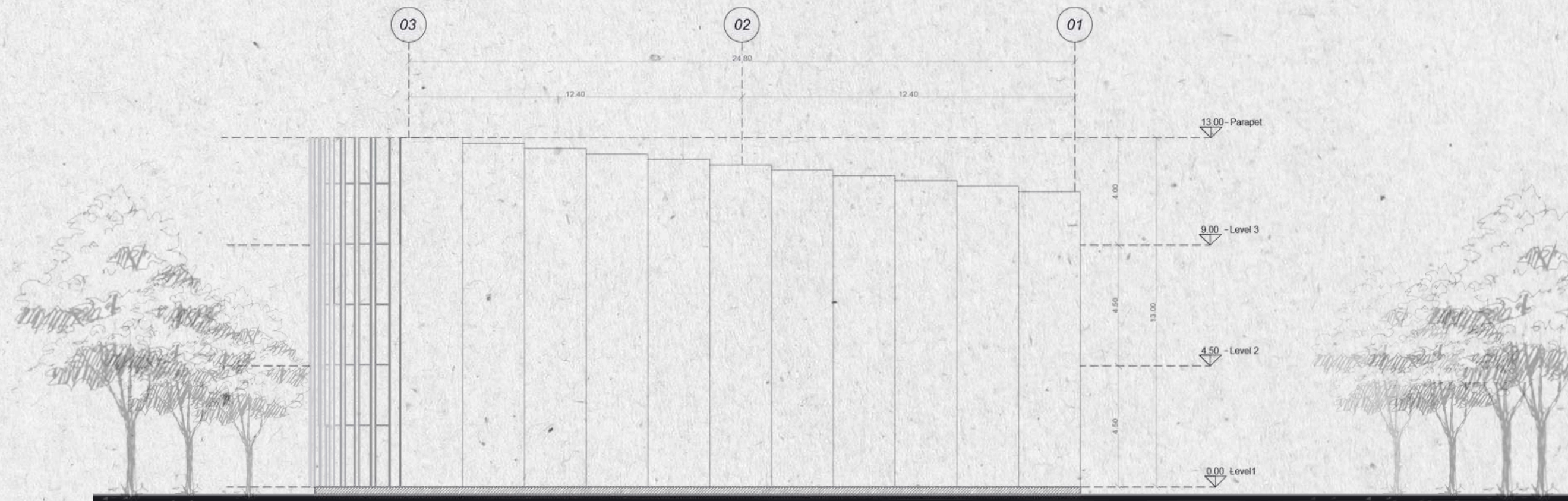
EAST FACADE



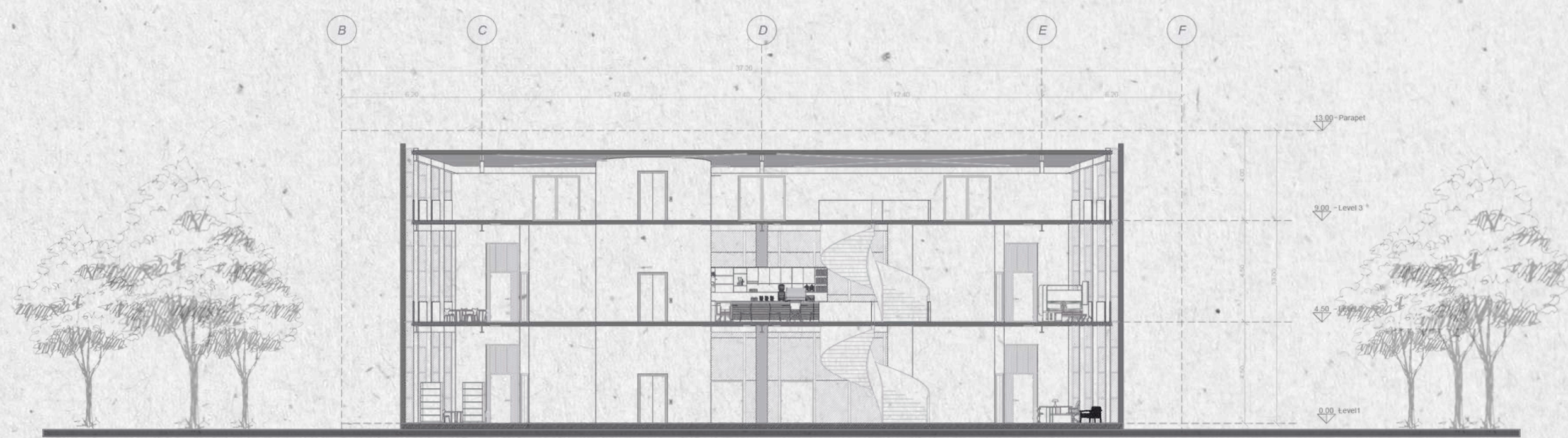
WEST FACADE



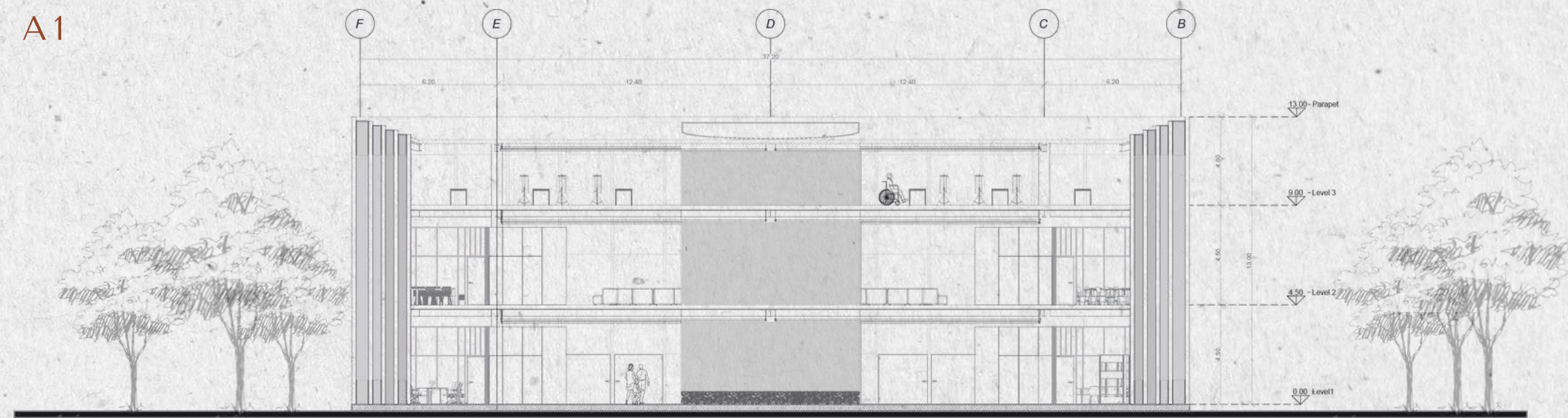
NORTH FACADE



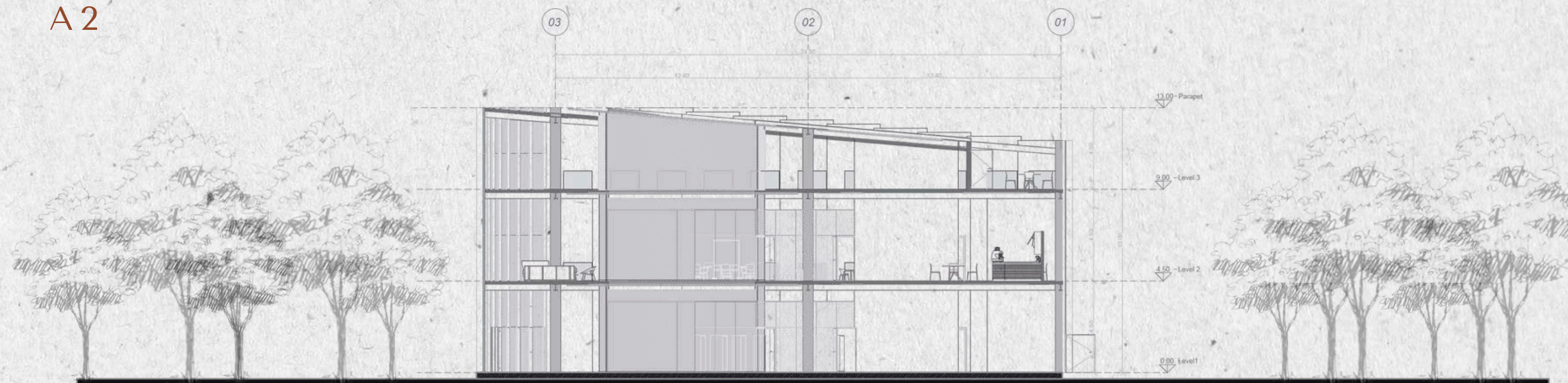
SOUTH FACADE



A1



A2



A3

RENTERS

CULTURAL AND EXHIBITION CENTER





INTERIOR GARDEN
FIRST LEVEL



SOCIAL AREA
MULTIUSE ROOM
SECOND LEVEL



WORKSHOP ROOM
SECOND LEVEL



SHOWROOM
THIRD LEVEL



REFERENCES

<https://www.mexicoescultura.com/recinto/68417/museo-del-carcamo-de-dolores.html>

<https://profeanacob.wordpress.com/2021/04/29/12-la-arquitectura-high-tech-norman-foster/>

<https://www.arquifach.com/arquitectura-high-tech-estudio-arquitectura-alicante/>

<https://www.admagazine.com/articulos/norman-foster-como-entender-su-estilo-arquitectonico>

<https://www.ultravilla.com/10-must-see-capability-brown-gardens/>

<https://www.guardianglass.com/mx/es/why-glass/build-with-glass/glass-functions/thermal-insulation>

<https://www.admagazine.com/articulos/orientacion-para-una-casa>