

STUDIO DESIGN 2B: PORTFOLIO

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- ASSIGNMENT 1B: SITE ANALYSIS
- ASSIGNMENT 2: DESIGN OF MODERN CULTURAL CENTRE

ASSIGNMENT 1A: PRECEDENT STUDY

ASSIGNMENT 1A: PRECEDENT STUDY:

DESIGN CONCEPT

- La Seine Musicale is a musical and performance venue that sits in the middle of the Seine river in Paris France.
- Paris is known to be architecturally experimental, so to fit in, the building makes sure to take a bold and innovative approach in design.
- The building is also meant to be environmentally considerate and aware.
- Its name, La Seine Musicale, makes sure to link music to the river that shapes the surrounding region.
- The architects wanted to create a modernized cultural facility that would act as a hub for live performances, emotions, and leisure for visitors, whilst making it a place for artists to showcase their skill and talent
- They also wanted to achieve the idea of extraordinary meeting everyday life for the people visiting.
- It manages to live up to its intention by making itself a cultural island with great facilities, and it being a go-to spot for art and performances.



ASSIGNMENT 1A: PRECEDENT STUDY:

DESIGN PHILOSOPHY

- The building manages to experiment with its form by creating a bizarre form and attaching it nicely to the rest of the building
- Although it does achieve its experimentation with its form, it doesn't go out of line and is balanced by the contrast of the rest of the building being subtle and toned down
- The auditorium represents the bold and experimental part of the building, while the Grand Seine, represents the more subtle aspect of the building with its concrete rectangular exterior
- It is said that the building resembles a sailing ship due to the solar panels that follow the sun path around the auditorium
- These solar panels are just one aspect of how the building is environmentally considerate and conscious

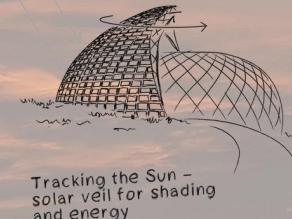


ASSIGNMENT 1A: PRECEDENT STUDY:

TECHNICAL FEATURES

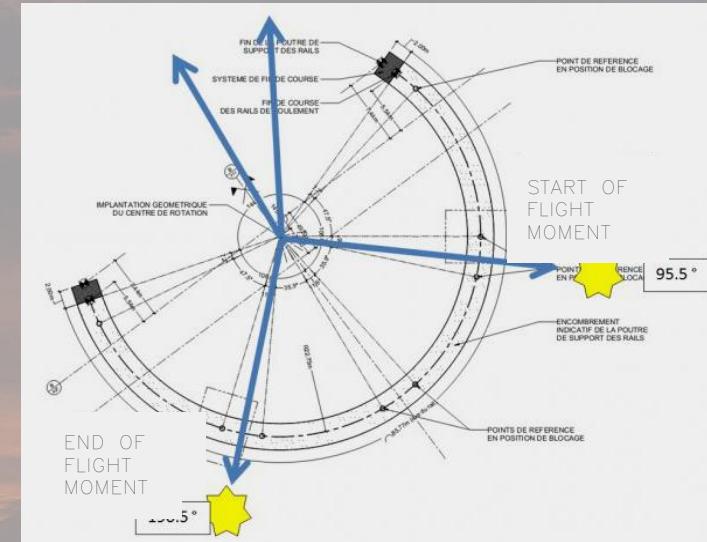
SOLAR SAILS

- It was a necessity to utilise solar panels. Instead of placing the solar panels on the roof peak, the architects created a triangle "sail" out of them.
- The sail is positioned around the auditorium and moves in response to the sun, just like a regular sail moves in response to the wind. Because of its mobility, the sail is always facing the sun, allowing for effective power generation.



GULAM STRUCTURE

- A free-form and geometrically networked glulam wood framework supports the building exterior.
- At a height of 27.5 metres, the timber structure stretches for roughly 70 metres in the longitudinal axis and 45 metres in the transverse axis.



ASSIGNMENT 1A: PRECEDENT STUDY:

BUILDING STYLE

- The building has Lots of glass which allows a significant amount of natural light into the interior spaces. As well using modern materials like steel ,concrete ,and laminated timber.
- Also The form of the building is large, smooth shape and asymmetrical compositions that is clearly planned with lacked of any additional decoration.
- All these characteristics identify the style of this building which is modern style architecture



ASSIGNMENT 1A: PRECEDENT STUDY:

BUILDING MATERIALS

GRID SHELL



Glue laminated timber with glass

CONCRETE FACADE



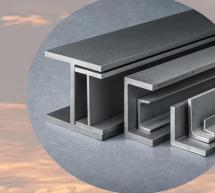
Fair-faced concrete facade

SOLAR SAIL



Steel structure frame covered with solar panels

CURTAIN WALLS

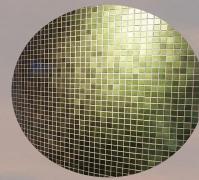


Curtain walls made up of glass and steel

ASSIGNMENT 1A: PRECEDENT STUDY:

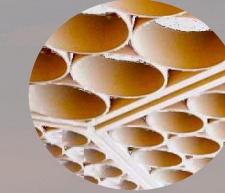
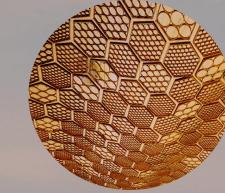
BUILDING MATERIALS

INTERIOR WALLS



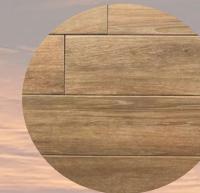
Mosaic tiles finishings, wooden cards finishing and wall painting

CEILINGS



Acoustic panels made of wood and paper tubes

FLOOR



Timber and tiles finishes

ASSIGNMENT 1A: PRECEDENT STUDY:

ERGONOMIC ANALYSIS



Elevated round shaped theatre for classical music
Seating capacity: 1150



Rehearsal rooms and studios

Concert halls that hosts pop stars
Seating capacity: 6000



ASSIGNMENT 1A: PRECEDENT STUDY:



Seminar rooms and conventions



Press centre



Restaurants and bars



Musical school



ASSIGNMENT 1A: PRECEDENT STUDY:

ACCESSIBILITY FOR PEOPLE WITH REDUCED MOBILITY

La Seine Musicale is an HQU (High Quality Usage) site and is therefore adapted to receive any person with a disability. In addition, specific measures have been put in place to improve the comfort of people with disabilities :

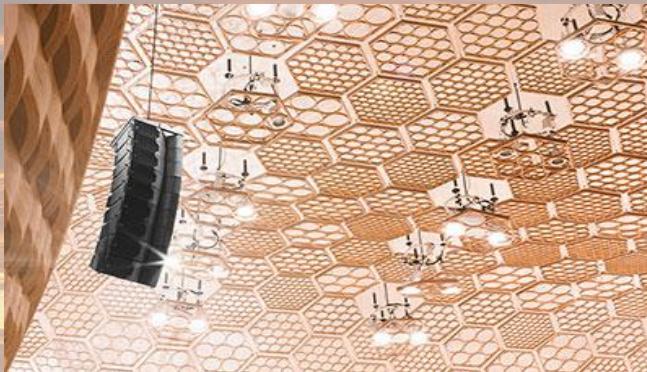


Wheelchair accessibility

Subtitling

Stationary radio system

Multi sensory signage



ASSIGNMENT 1A: PRECEDENT STUDY:



Double
handrails on
stairs

Sanitary facilities
suitable for people
with precarious
balance

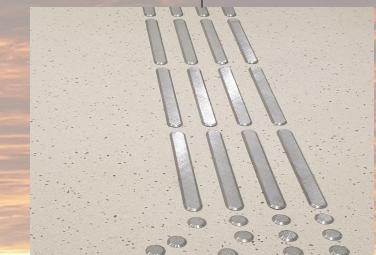


Braille in the
elevators

Roof garden can be
accessed using elevator



Tactile guidance strips on the forecourt
as well as in the interior street



ASSIGNMENT 1B: SITE ANALYSIS

ASSIGNMENT 1B: SITE ANALYSIS

LOCATION:

SELANGOR, MALAYSIA

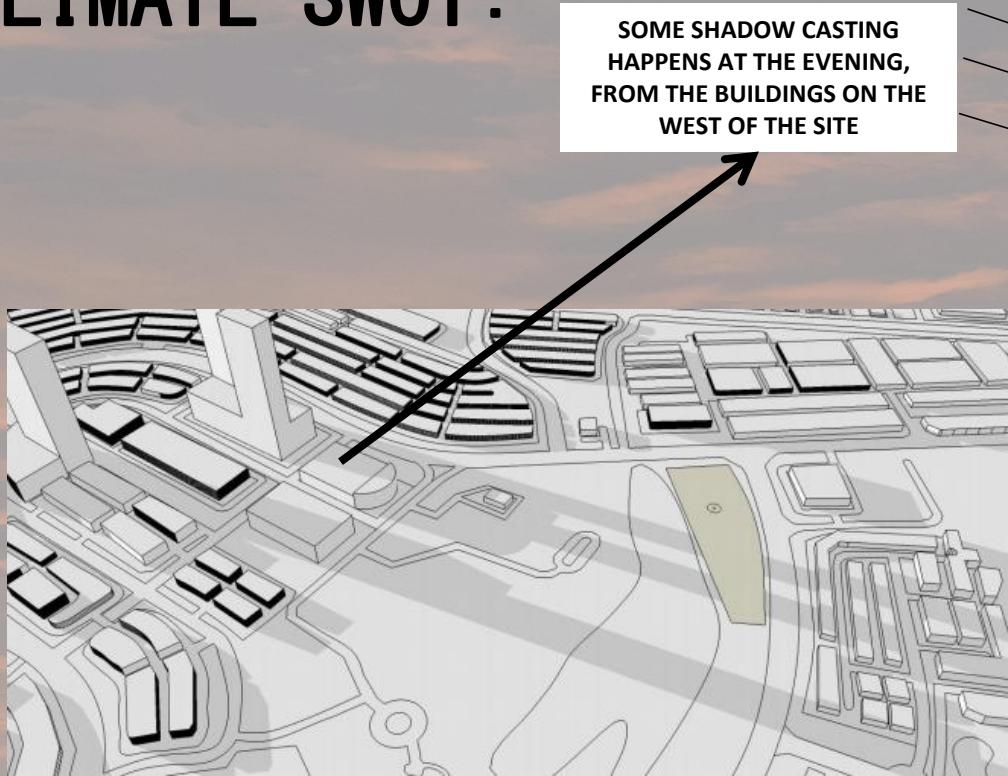
TAMAN TASIK CEMPAKA

It has been developed by the state government at the request of the residents of Bandar Baru Bangi and its surrounding areas who want a recreation area. Taman Tasik Cempaka is named after many of the flowering shrubs that are planted as ornamental plants.

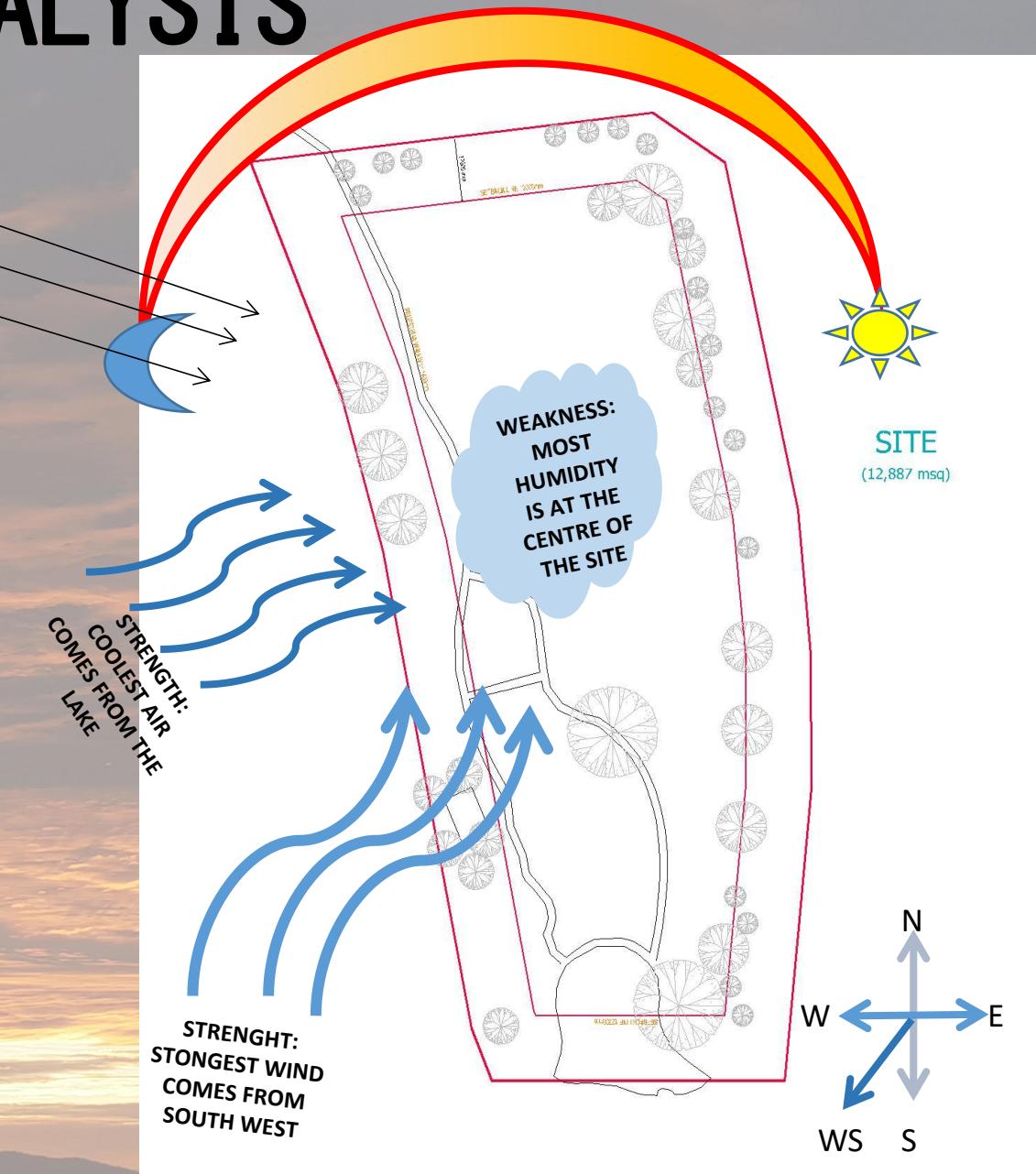


ASSIGNMENT 1B: SITE ANALYSIS

CLIMATE SWOT:



SOME SHADOW CASTING
HAPPENS AT THE EVENING,
FROM THE BUILDINGS ON THE
WEST OF THE SITE

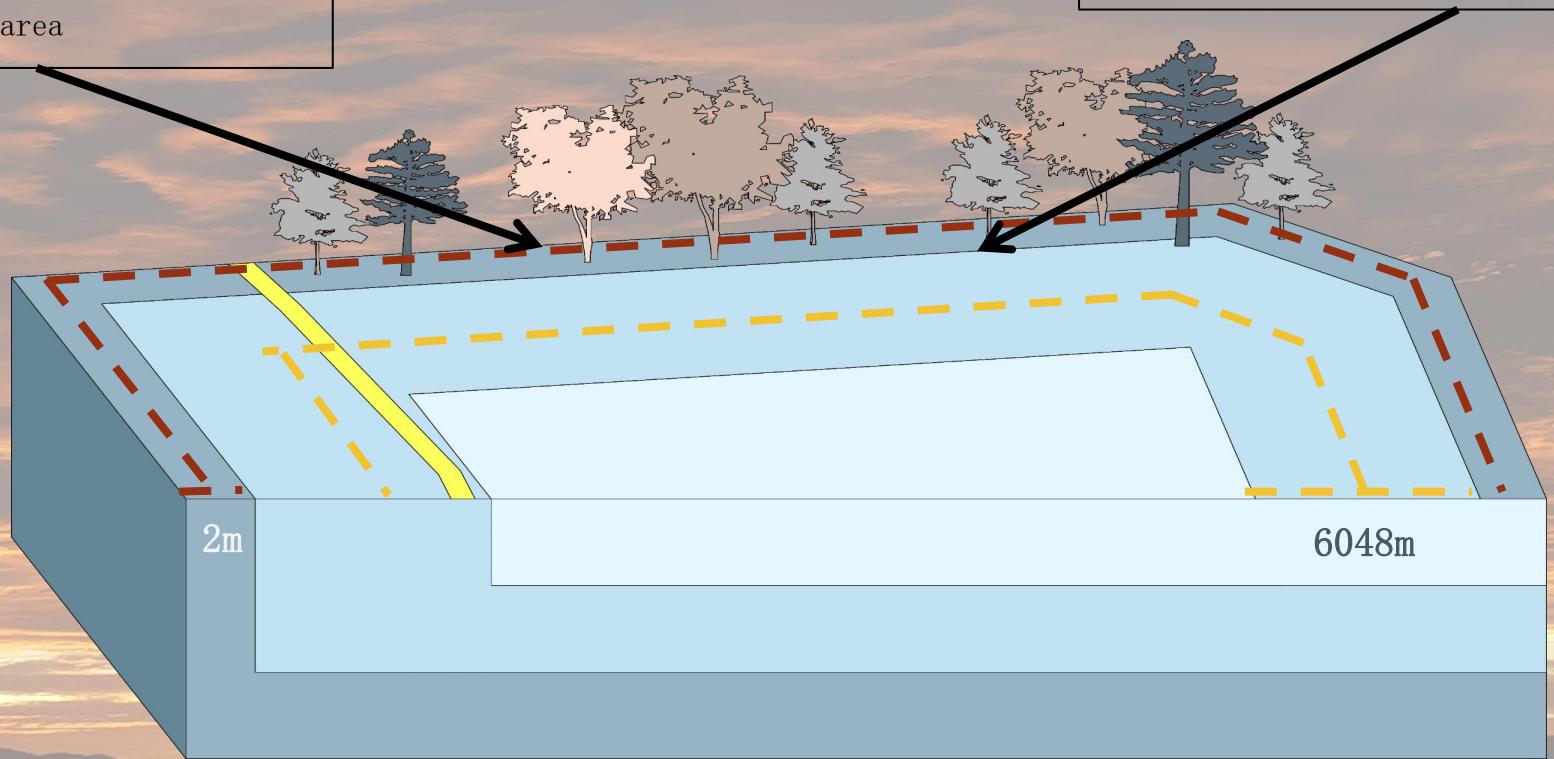


ASSIGNMENT 1B: SITE ANALYSIS

SETBACKS

- 2m perimeter landscape setback
- Required by the local authorities to plant vegetation (trees/bushes/etc) along the perimeter
- To maintain the percentage of green area

- Setback set by class: 6084m
- Suggested setback: 12m, as it's located near to the main road & the lake (for safety measures)
- Setback as required by authorities for a commercial building: not less than 2.5m (UBBL-32)



ASSIGNMENT 2: DESIGN OF MODERN CULTURAL CENTRE

ASSIGNMENT 2: MODERN CULTURAL CENTER DESIGN

CONCEPTUAL DESIGN STAGE

TOPIC:

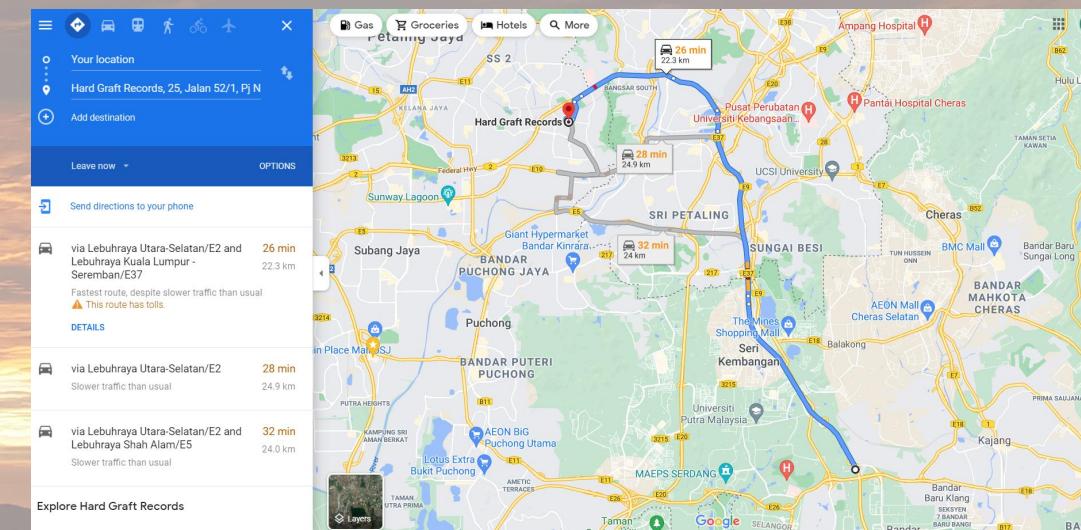
MUSICAL CULTURAL CENTRE-MUSIC EXPLORATION, RECORD STORE, HISTORY OF THE MUSIC SCENE IN MALAYSIA, AND INTRODUCE OTHER INTERNATIONAL MUSICAL GENRES TO PEOPLE.

SMALL AREA FOR PRACTICING LOCAL BANDS AND SUCH, IN ADDITION, TO TEACHING KIDS TO PLAY SIMPLE INSTRUMENTS



ISSUES/PROBLEMS:

THERE AREN'T MANY RECORD STORES IN BANGI THAT SELL VINYL RECORDS AND OLD MUSIC ON FORMATS LIKE CASSETTES AND CDS. THERE ARE MOSTLY JUST STORES THAT SELL INSTRUMENTS AND SUCH



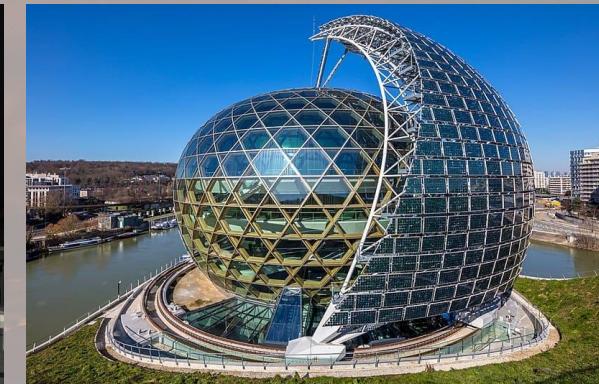
ASSIGNMENT 2: MODERN CULTURAL CENTER DESIGN

CONCEPT/DESIGN/DESIGN APPROACH

Brutalist mixed with **modern** architecture,
blending the both to form a unique
building

-
Brutalist characteristics would consist of
mostly concrete walls and hallways

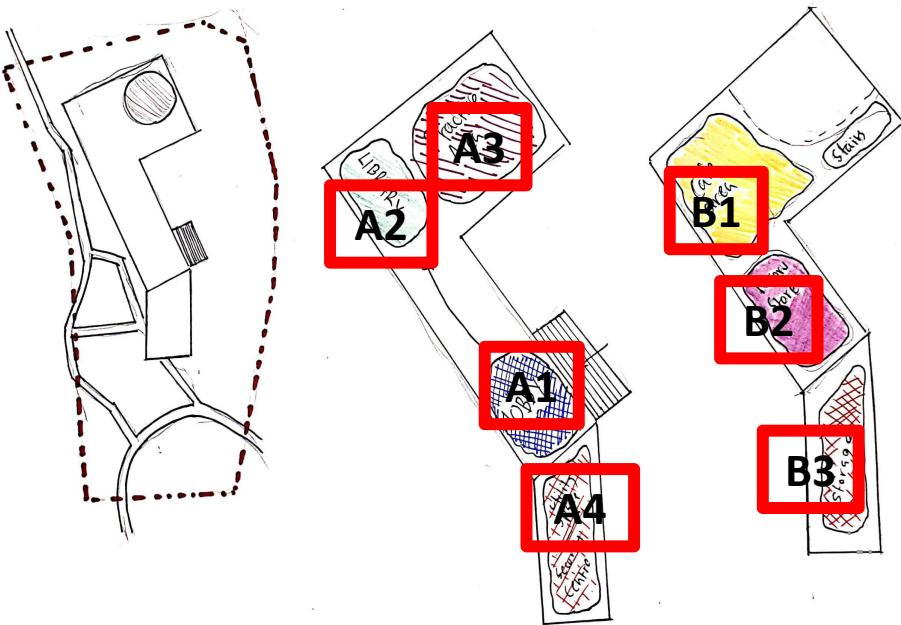
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while the **modern** characteristics would
include areas that will mostly be covered
with glass supported with some sort of
solar power.



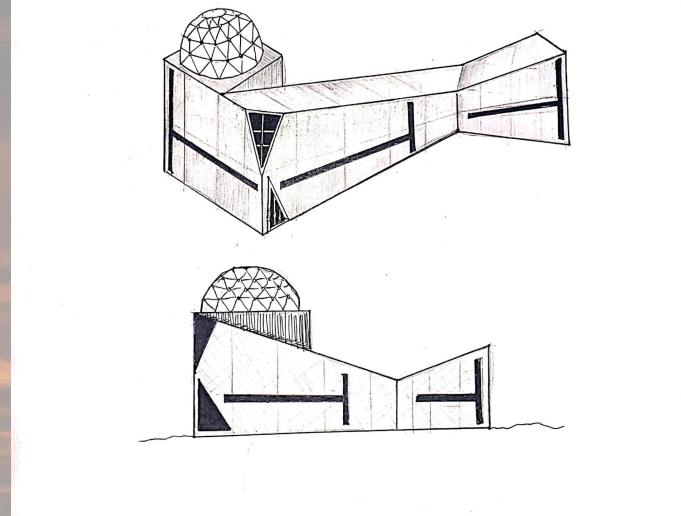
ASSIGNMENT 2: MODERN CULTURAL CENTER

DESIGN

INITIAL BUBBLE DIAGRAMS



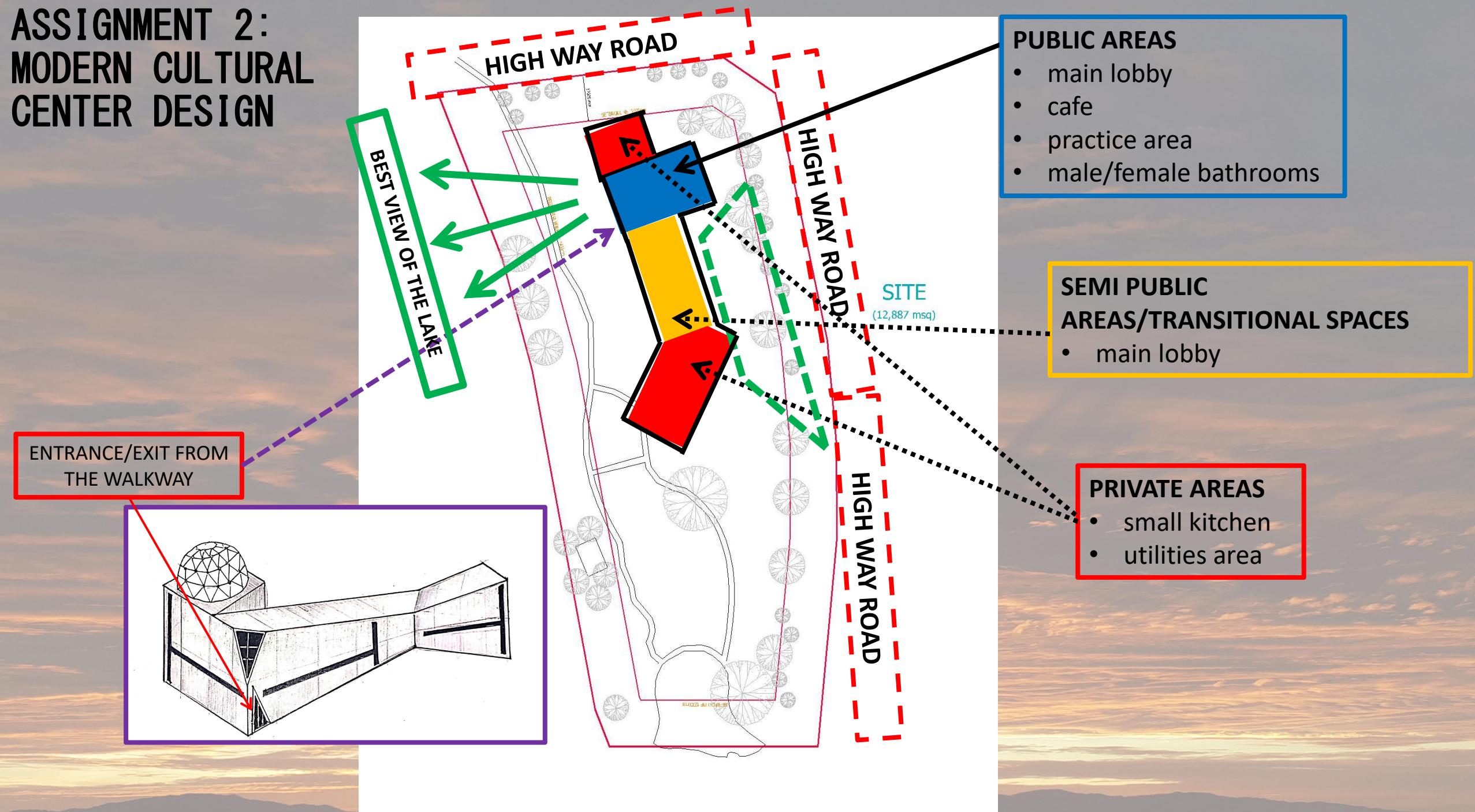
INITIAL EXTERIOR PERSPECTIVE FORM SKETCH



DIVISION OF SPACES

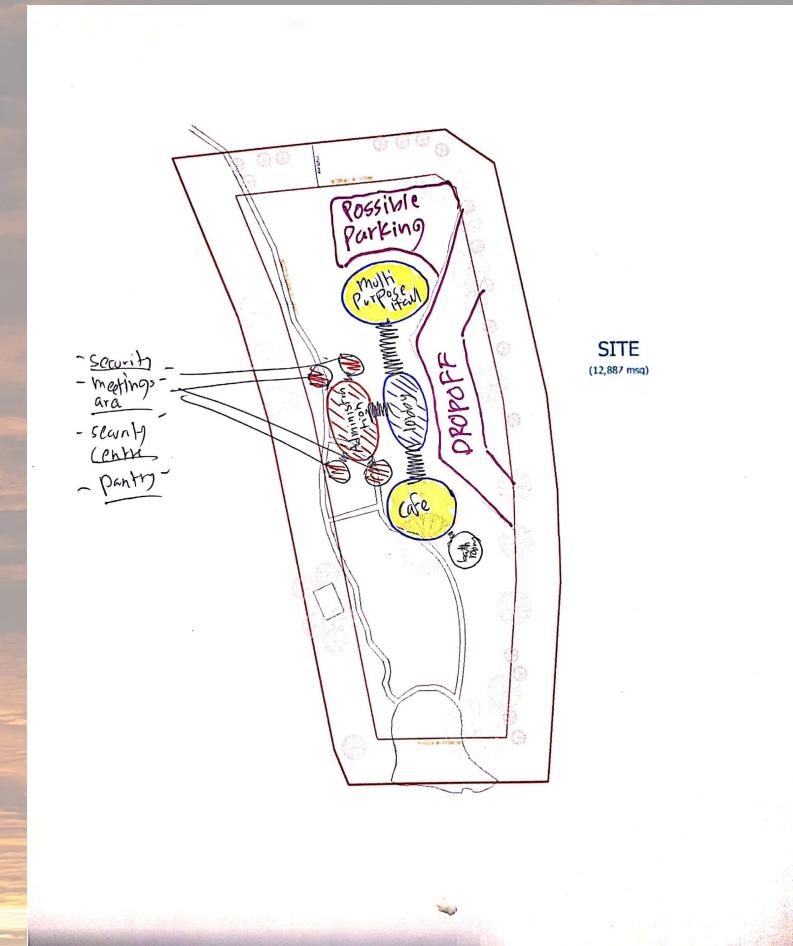
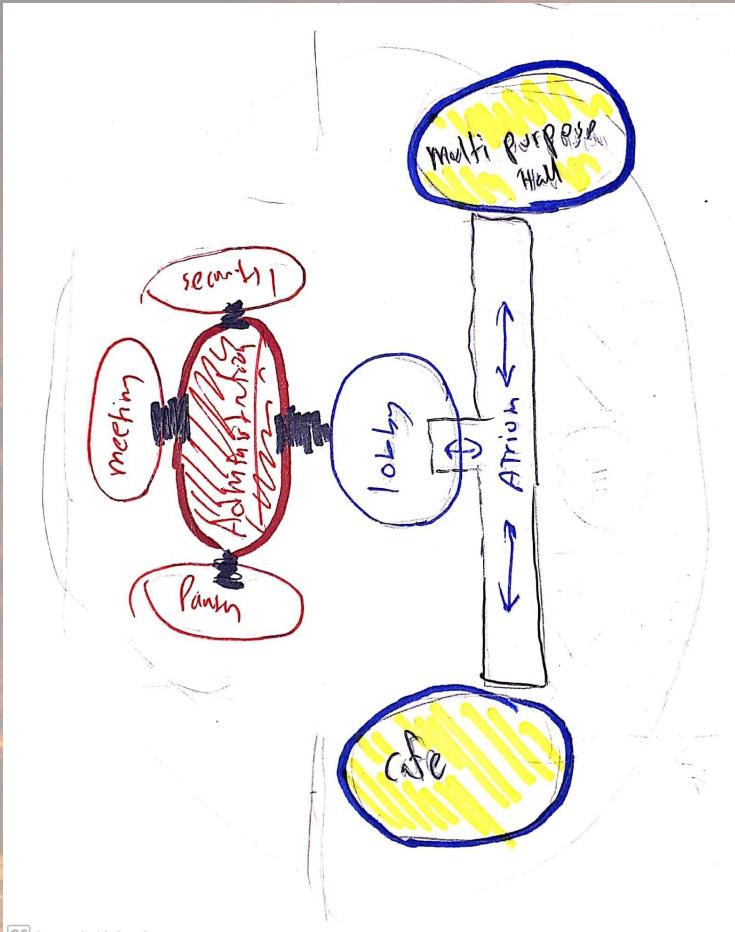
- A1: LOBBY
- A2: LIBRARY/AUDIO-VISUAL SECTION
- A3: PRACTICE AREA
- A4: UTILITIES CENTRE/SECURITY SPACE
- B1: CAFE
- B2: RECORD STORE/RETAIL SECTION
- B3: STORAGE/STAFF SECTION
- ADDITIONAL SPACES YET TO BE ADDED

ASSIGNMENT 2: MODERN CULTURAL CENTER DESIGN



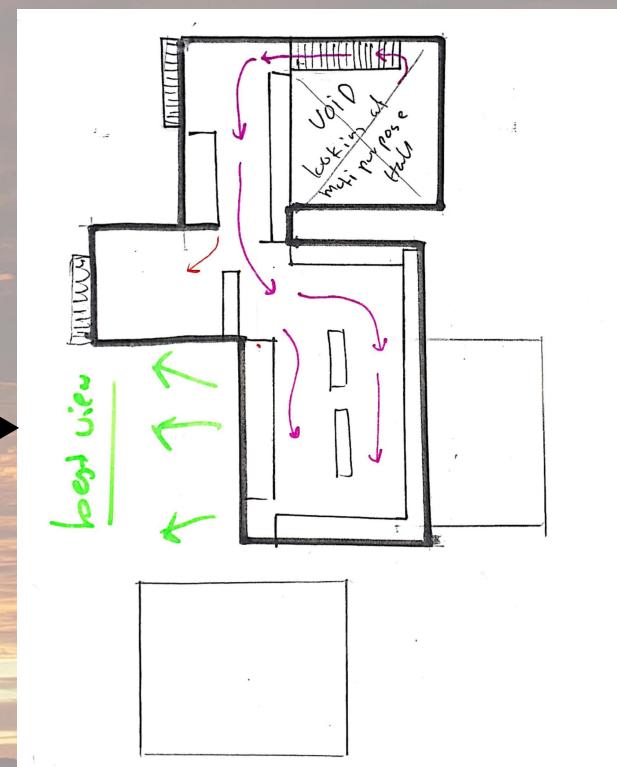
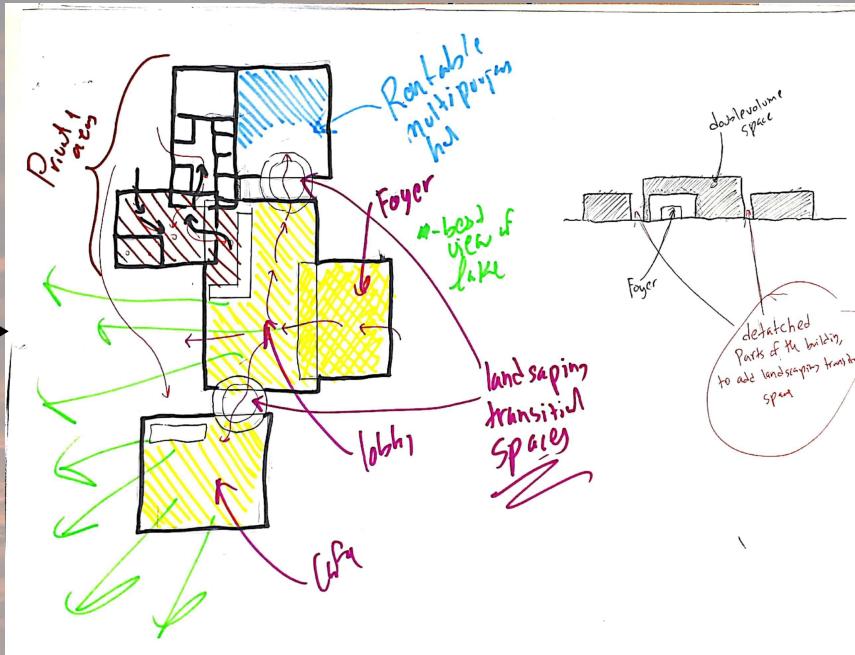
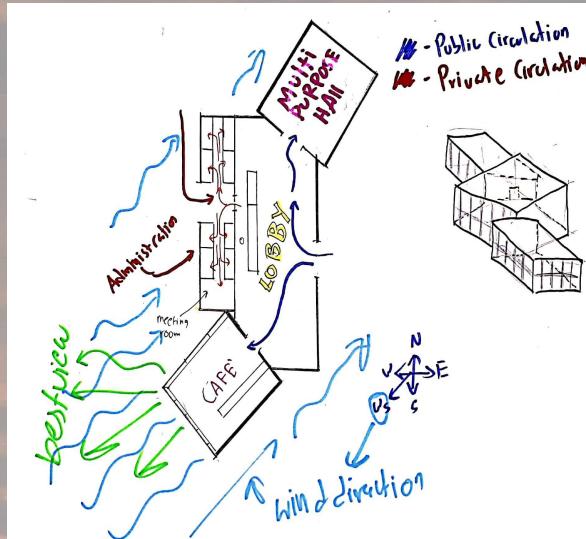
ASSIGNMENT 2: MODERN CULTURAL CENTER DESIGN

DIVISION OF SPACES: BUBBLE DIAGRAM



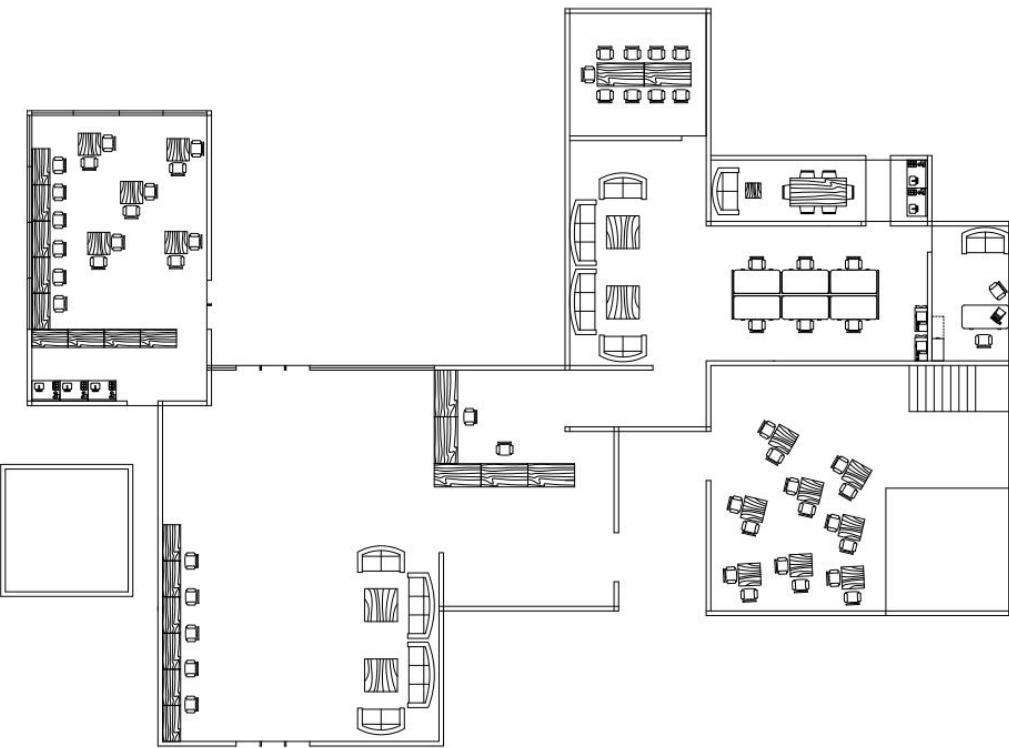
ASSIGNMENT 2: MODERN CULTURAL CENTER DESIGN

DIVISION OF SPACES: CHANGES IN DIVISION OF SPACES OF EACH FLOOR

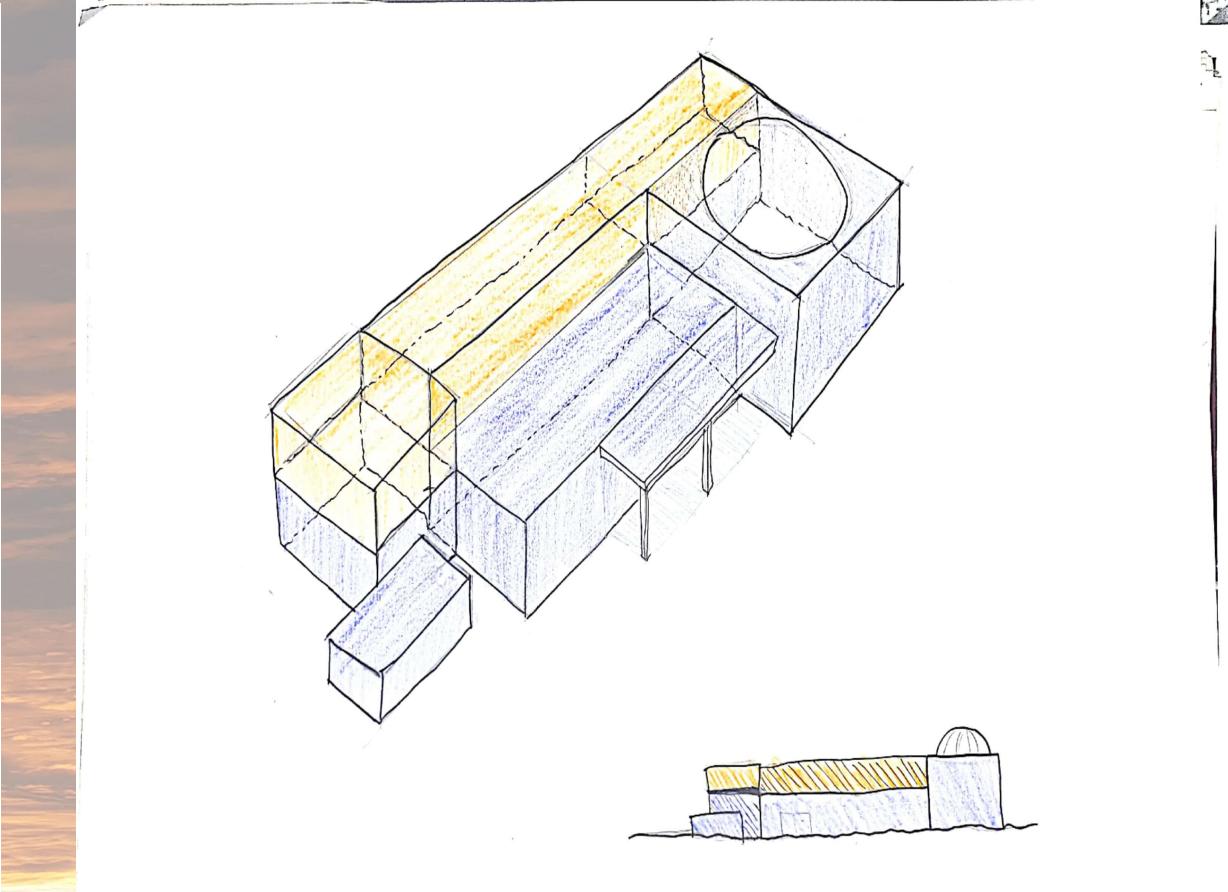


ASSIGNMENT 2: MODERN CULTURAL CENTER RECORD STORE

FIRST FLOOR PLAN PROPOSAL:



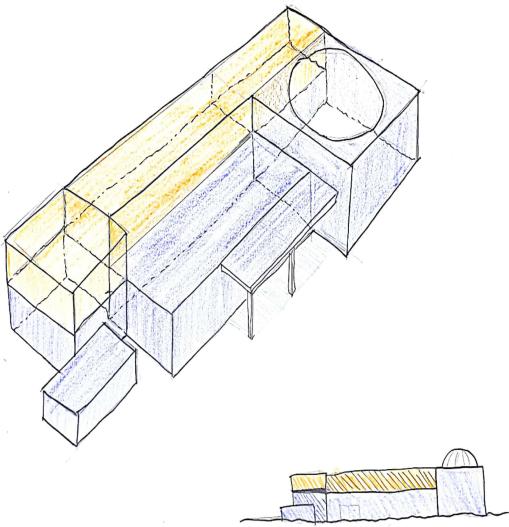
CHANGE IN FORM, EXTERIOR FORM
PERSPECTIVE:



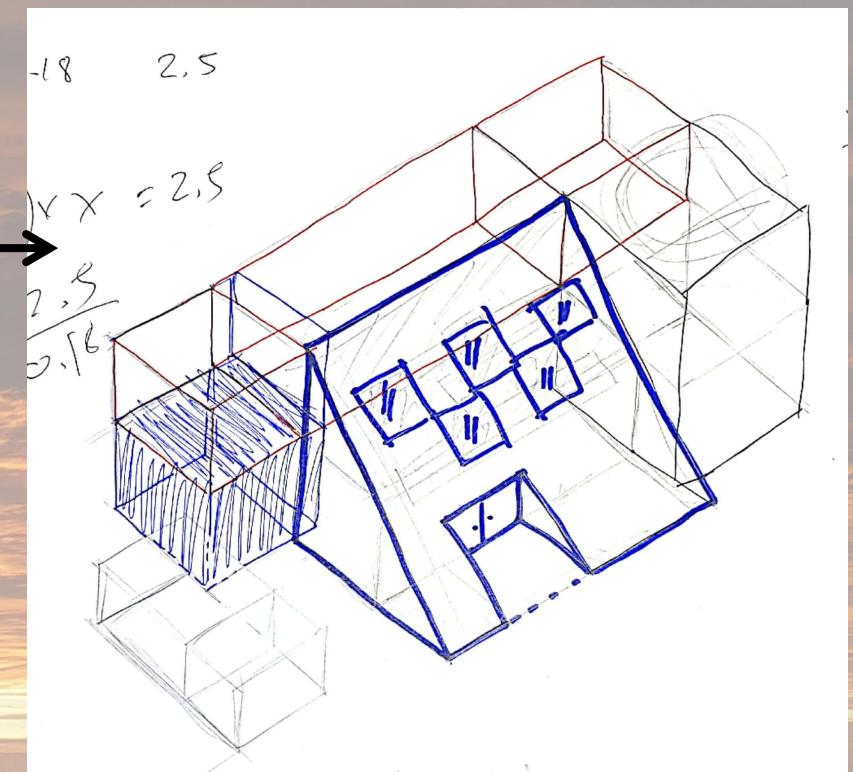
ASSIGNMENT 2: MODERN CULTURAL CENTER RECORD STORE INSPIRATIONS

PATIO ESTUDIO, CASA MONO

CHANGE IN FORM, EXTERIOR
FORM PERSPECTIVE:



- ONE OF THE MAIN INSPIRATIONS FOR THE EXTERIOR FORM OF THE BUILDING WAS THE PATIO ESTUDIO, CASA MONO. THE OVERLAPPING SLIDING OF FLOORS WAS A DIRECT REFERENCE TO THE PROJECT AND INFLUENCED THE DESIGN IN MAKING AN ORGANIZED STACKED FORM OF THE OVERALL BUILDING



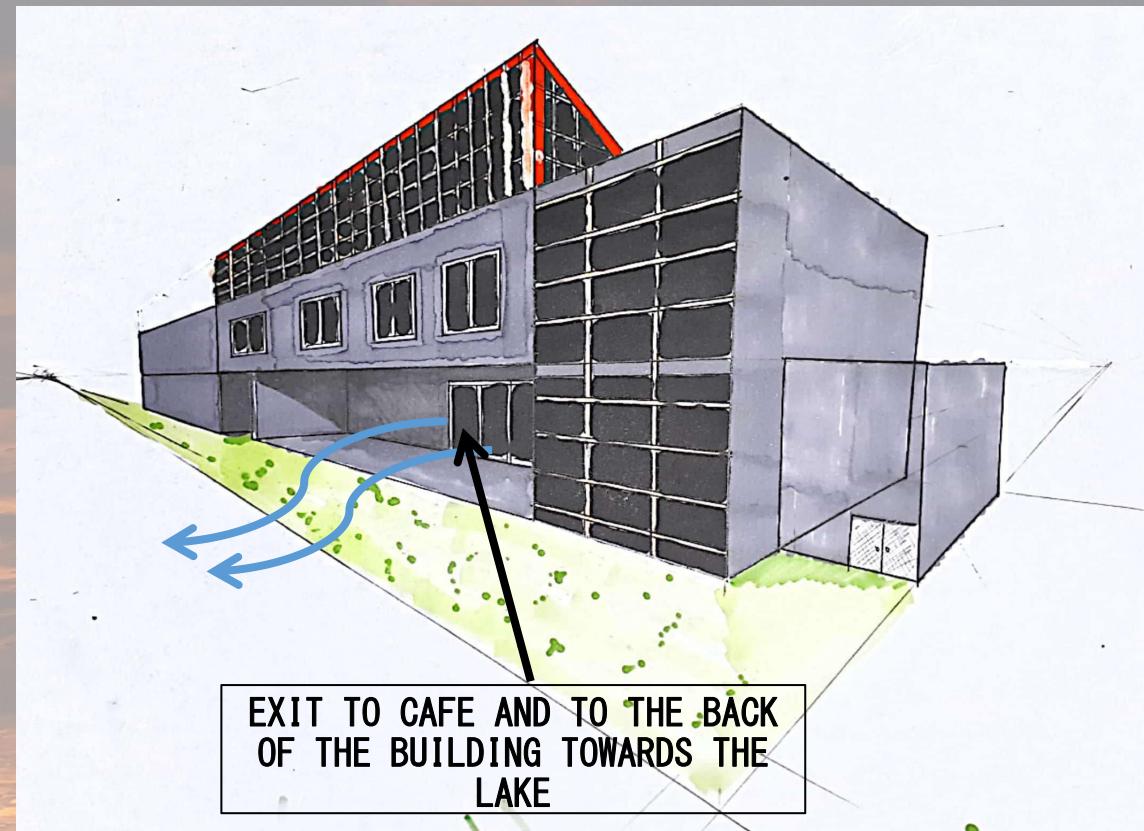
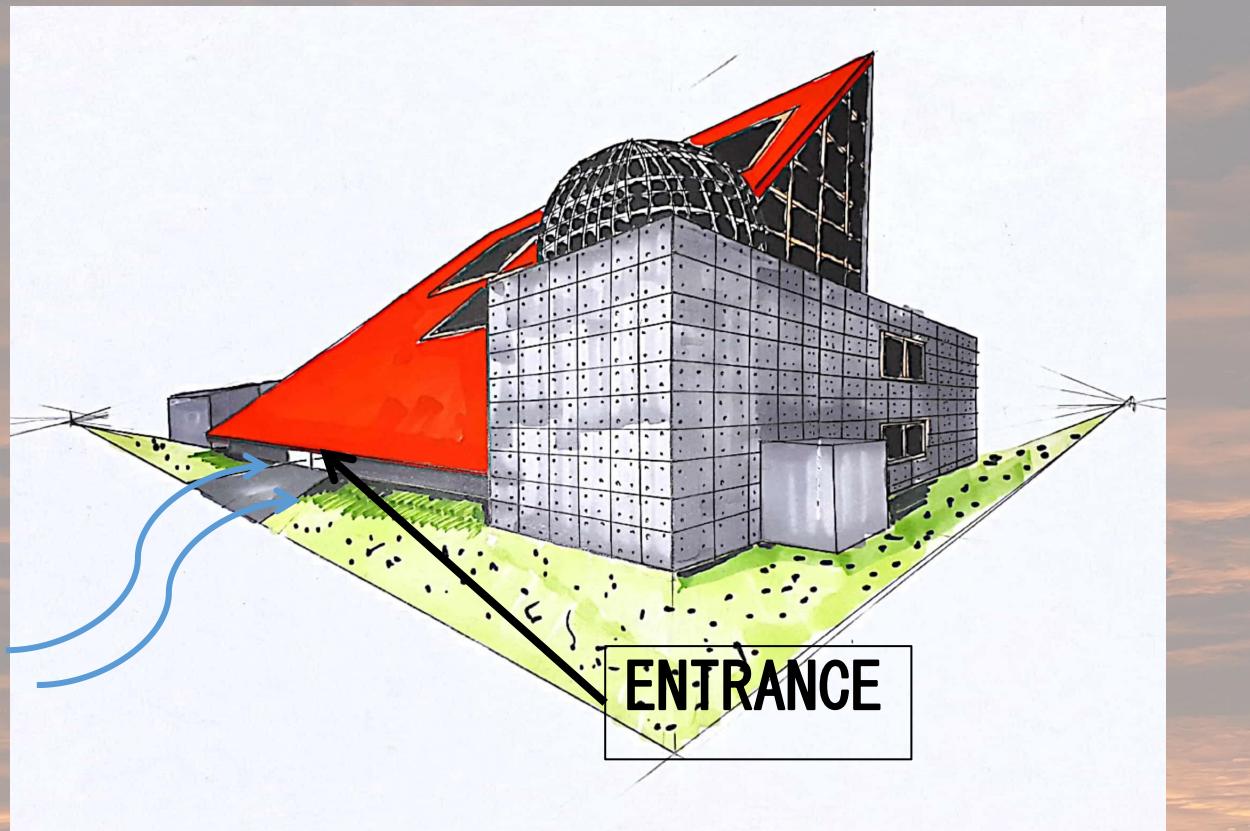
ASSIGNMENT 2: MODERN CULTURAL CENTER RECORD STORE INSPIRATIONS



ANOTHER BUILDING THAT WAS AN INSPIRATION TO THE DESIGN OF THE MODERN CULTURAL CENTER IS THE LONG AN HOUSE, BY TROPICAL SPACE ARCHITECTS, BASED IN VIETNAM. THE BUILDING IS MADE WITH CONSIDERATION TOWARDS THE TROPICAL CLIMATE OF VIETNAM, SO THE MATERIAL CHOICES AND DIVISION OF SPACES WERE DESIGNED AROUND THAT. SO WITH MALAYSIA ALSO HAVING A SIMILAR CLIMATE, TO AN EXTENT, AS VIETNAM, AND THE SITE HAVING A VERY HUMIDCENTRIC ENVIRONMENT, VENTILATION WAS A VERY INTEGRAL PART OF THE DESIGN OF THE BUILDING. SO THE IDEA OF MAKING THE VENTILATION LINEAR IN A SENSE WITH THE ENTRANCE AND THE OPENING TO THE BACK OF THE BUILDING ONTO THE CAFE IS A DESIGN DECISION THAT WAS CONSIDERED FROM THIS BUILDING.



ASSIGNMENT 2: MODERN CULTURAL CENTER RECORD STORE INSPIRATIONS

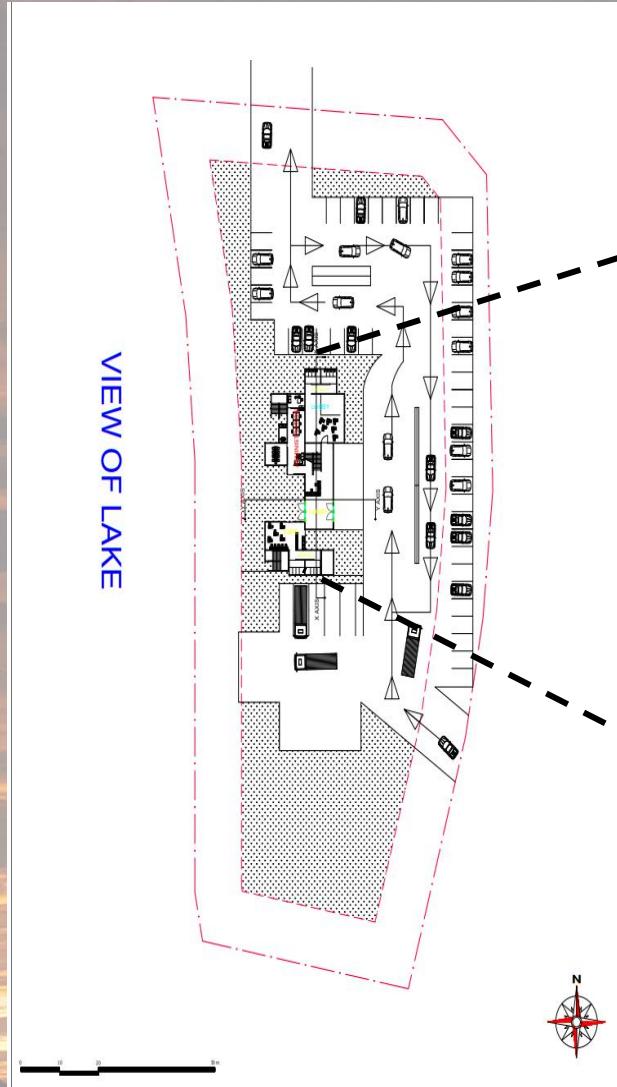


THE ENTRANCE OR THE REAR EXIT OF THE BUILDING ACT AS THE TRANSITIONAL LINEAR CIRCULATION ROUTES THAT CAN ALSO ACT AS A VENTILATION SCHEME WHERE WINDS CAN BREEZE THROUGH OR FROM EITHER ROUTE TO VENTILATE THE BUILDING, AND THIS WAS A DESIGN DECISION THAT WAS INSPIRED BY THE LONG AN HOUSE BY TROPICAL ARCHITECTS.

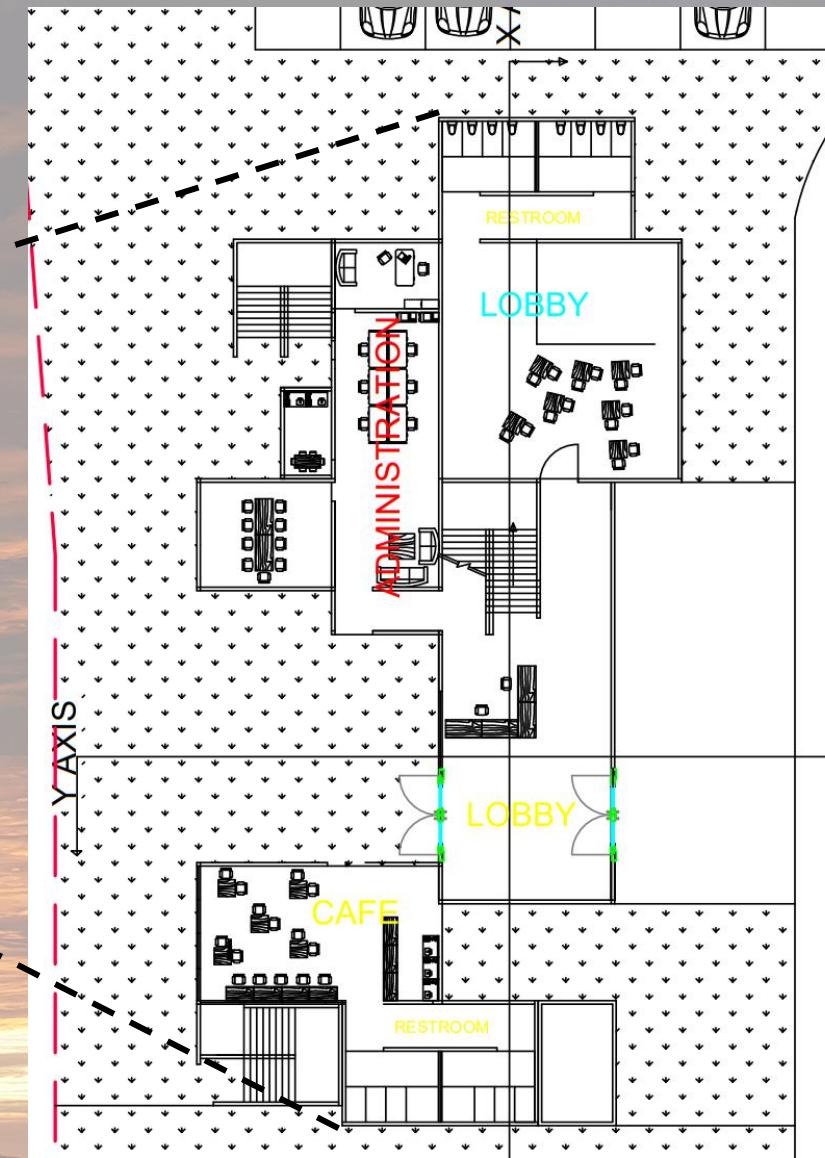
ASSIGNMENT 2: MODERN CULTURAL CENTER DESIGN

TECHNICAL DRAWINGS:

FINALIZED SITE PLAN WITH PARKING



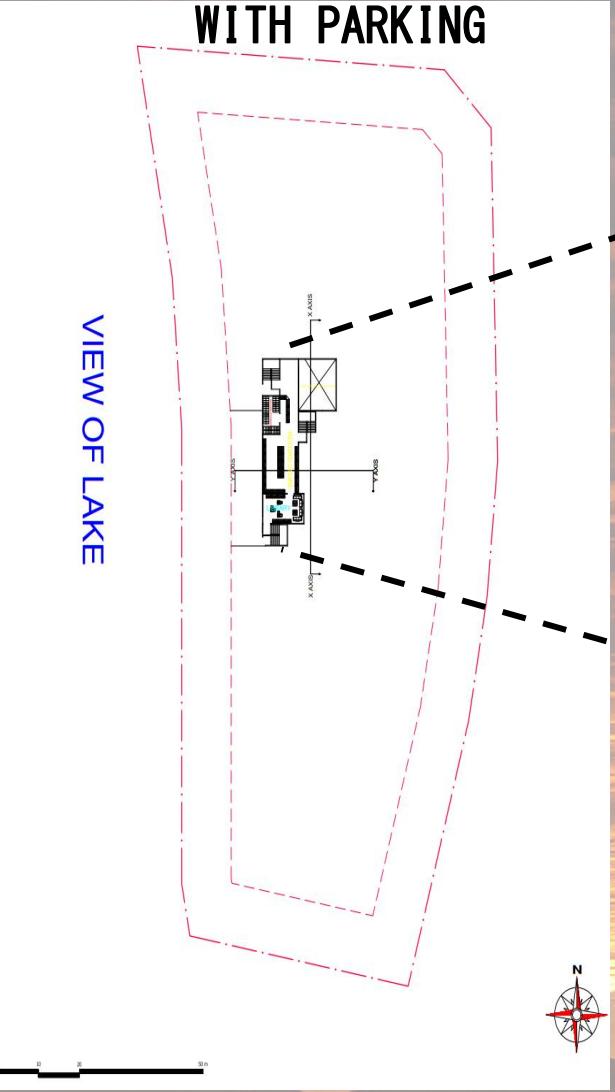
FINALIZED FLOOR PLAN CLOSE UP



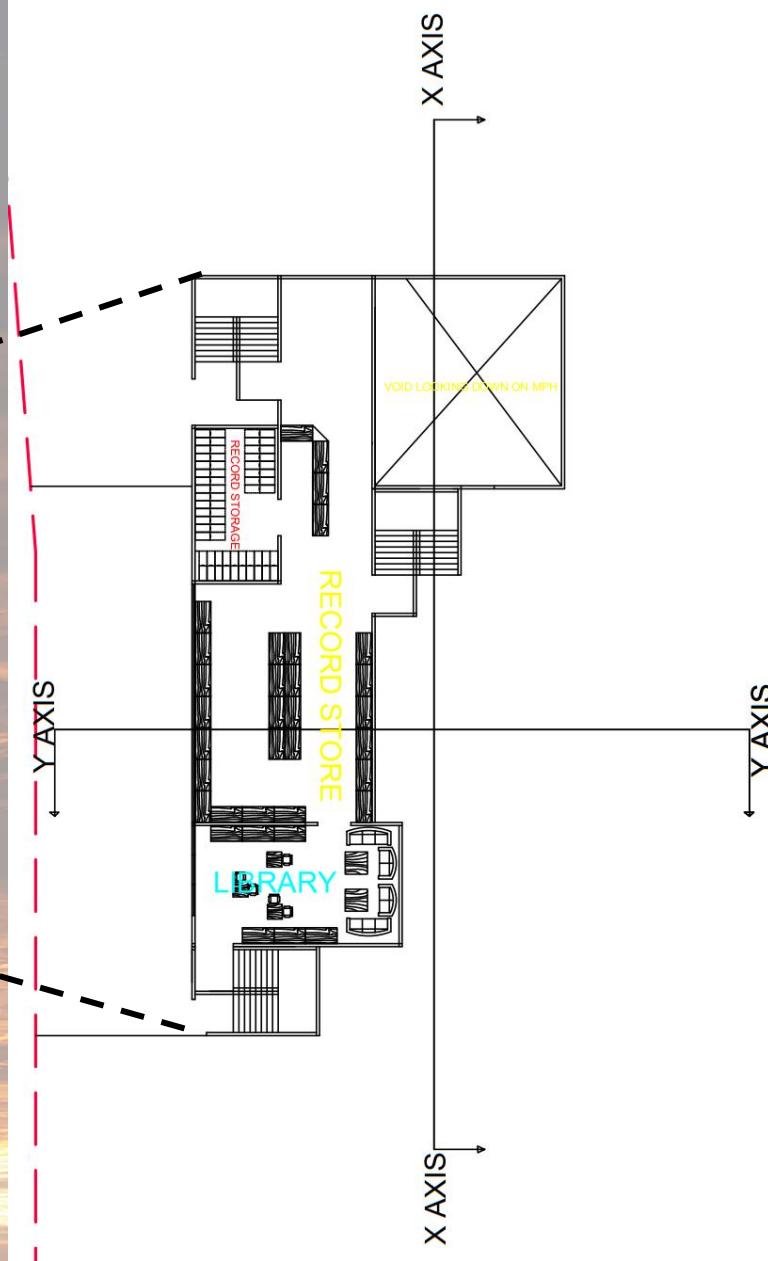
ASSIGNMENT 2: MODERN CULTURAL CENTER DESIGN

TECHNICAL DRAWINGS:

FINALIZED FIRST FLOOR SITE PLAN
WITH PARKING

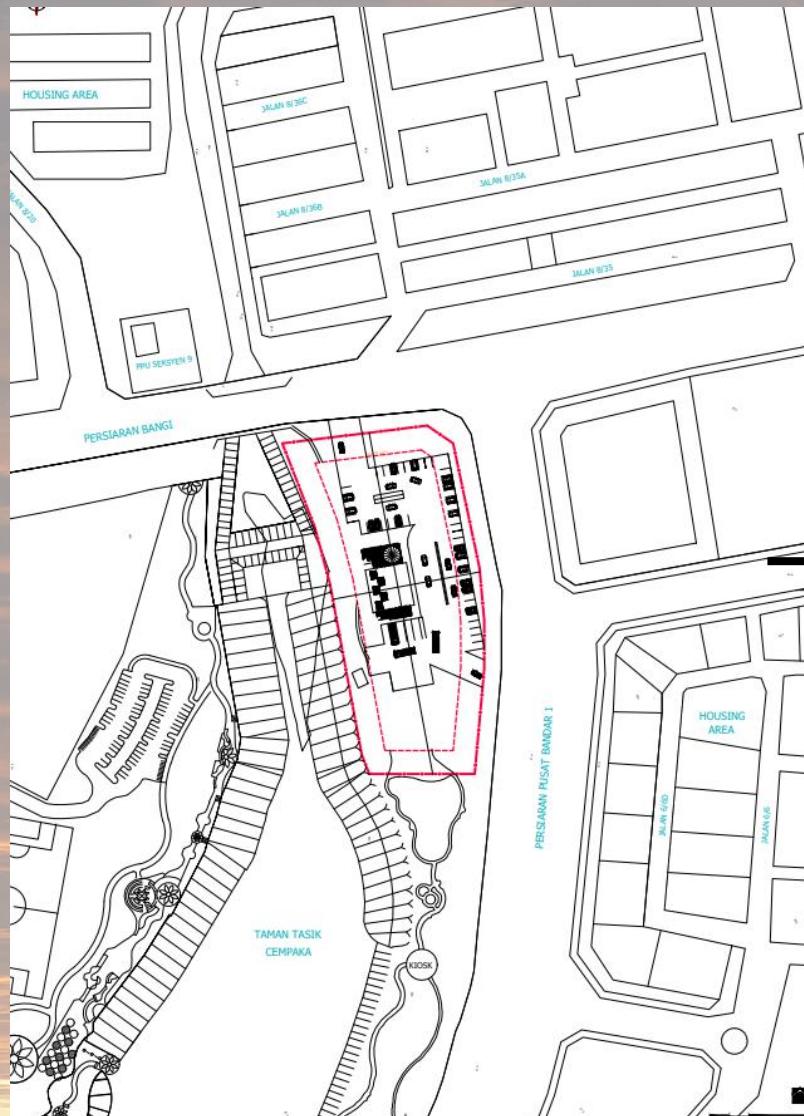


FINALIZED FIRST FLOOR PLAN CLOSE UP

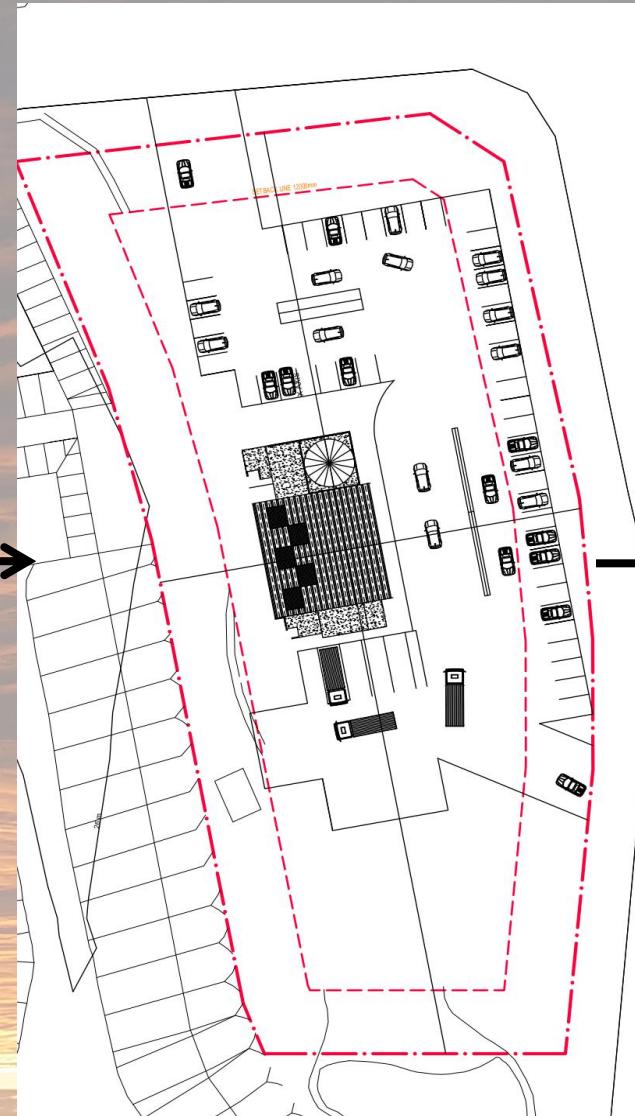


ASSIGNMENT 2: MODERN CULTURAL CENTER DESIGN TECHNICAL DRAWINGS:

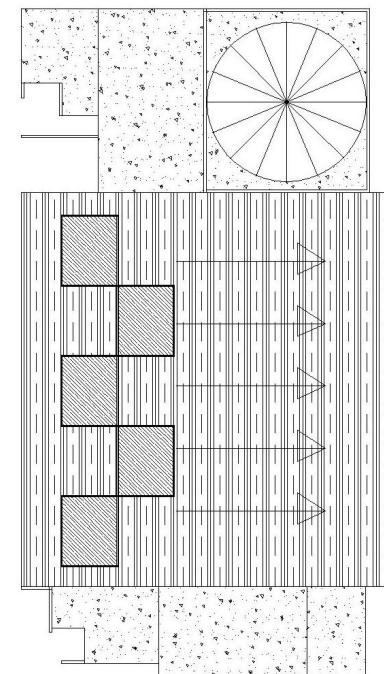
ROOF PLAN WITH SITE PLAN



CLOSE UP OF ROOF PLAN SITE WITH BOUNDRIES



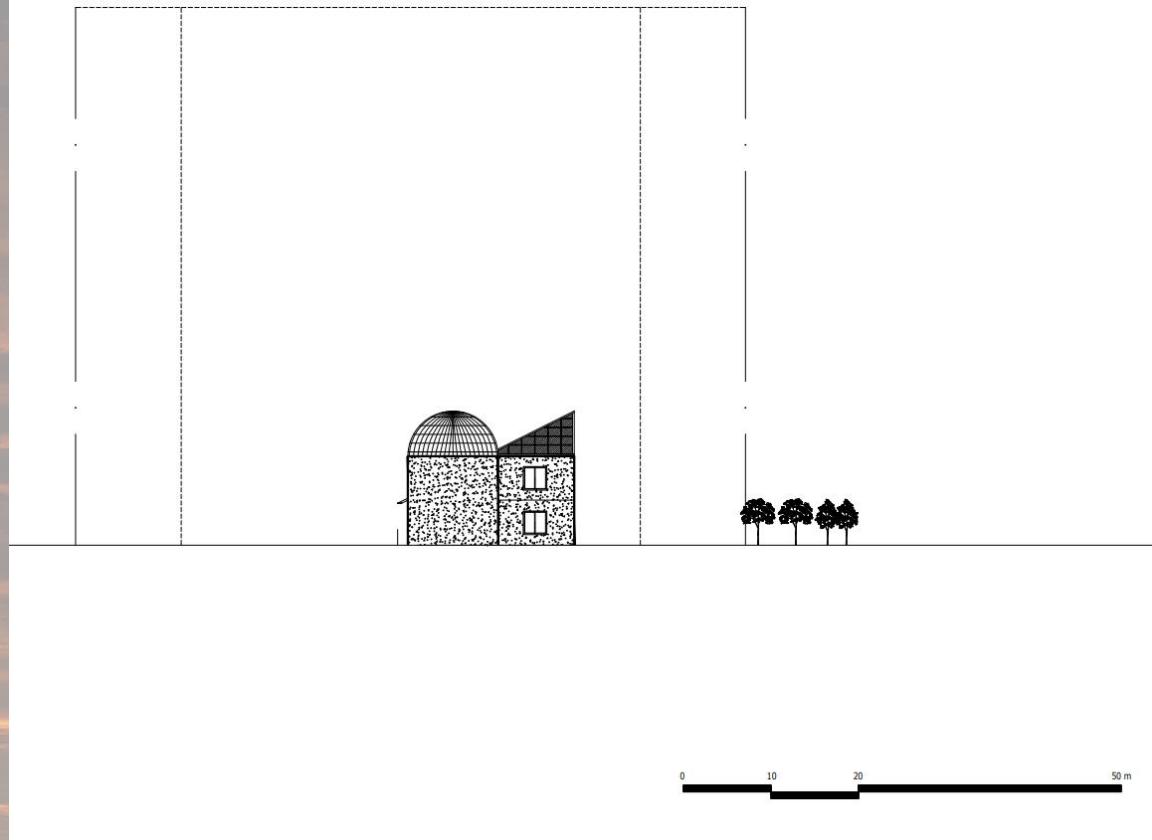
ROOF PLAN



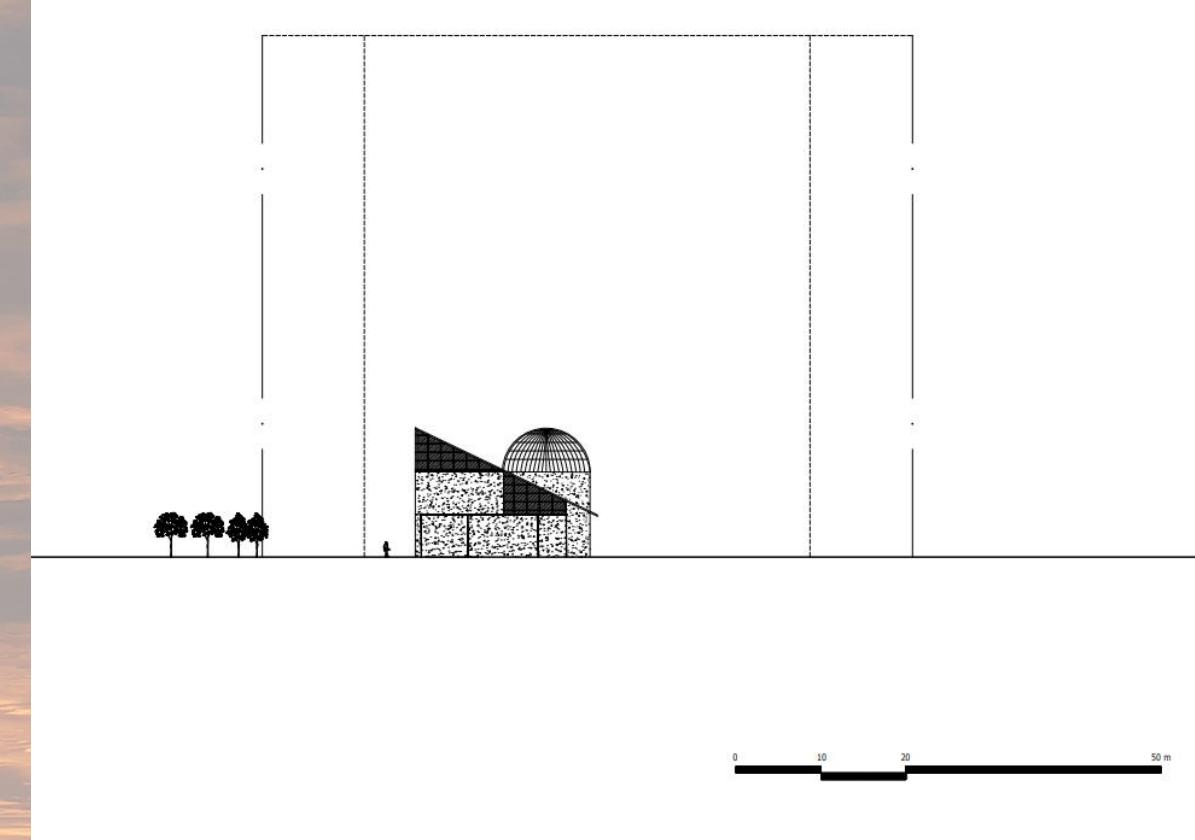
ASSIGNMENT 2: MODERN CULTURAL CENTER DESIGN

TECHNICAL DRAWINGS:

NORTH ELEVATION

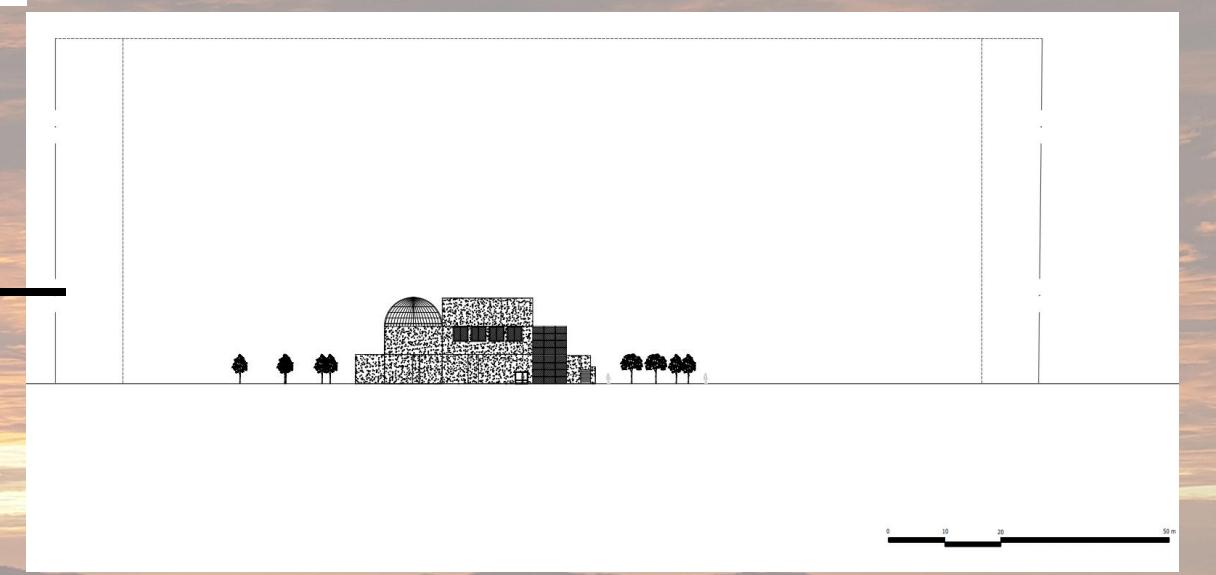
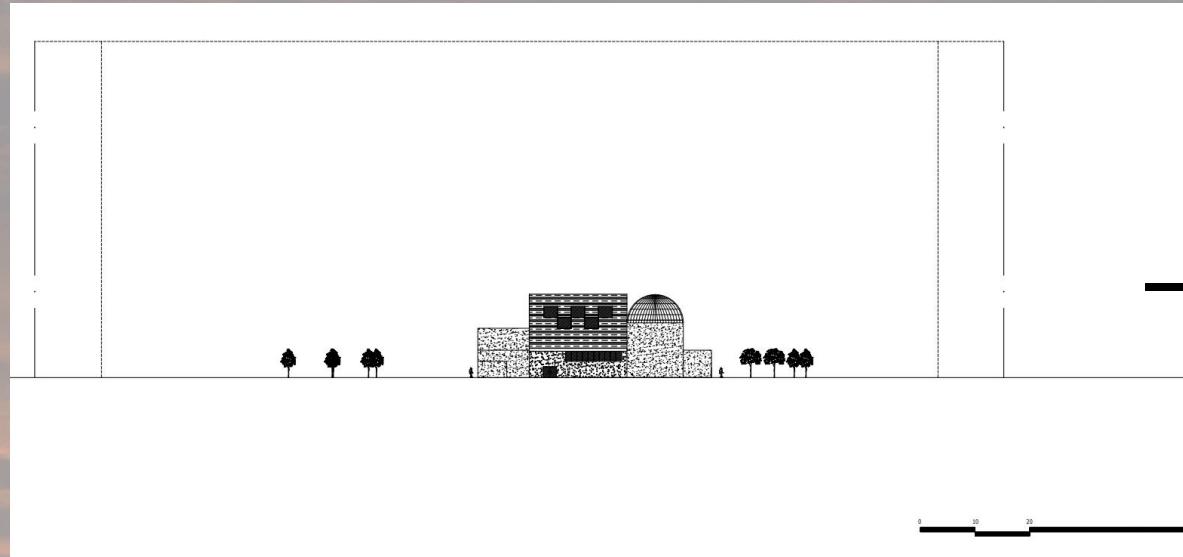


SOUTH ELEVATION



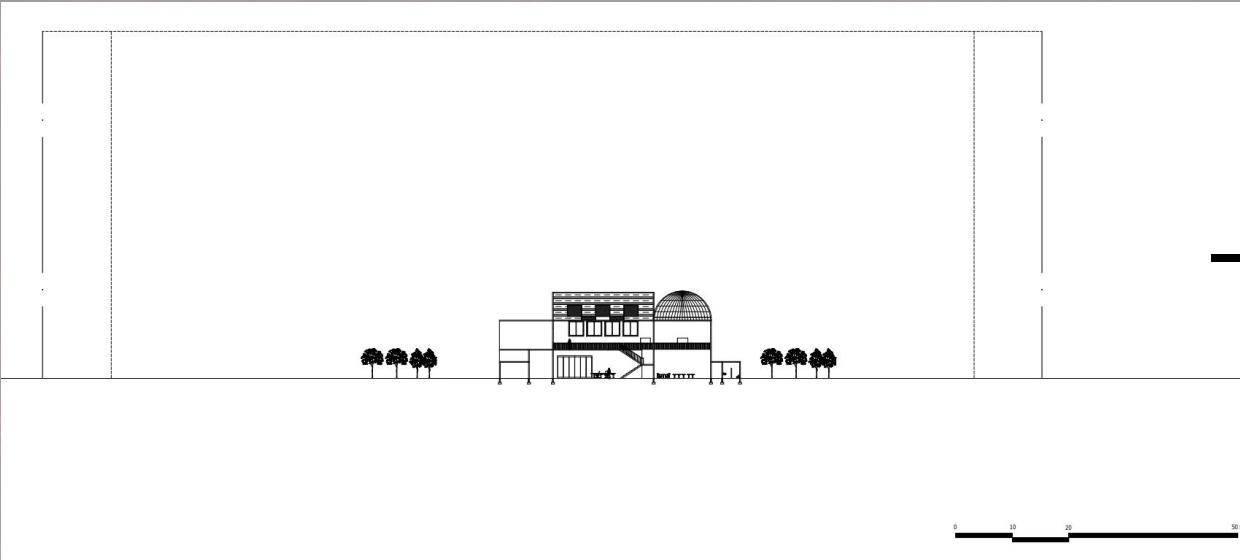
ASSIGNMENT 2: MODERN CULTURAL CENTER DESIGN

TECHNICAL DRAWINGS:

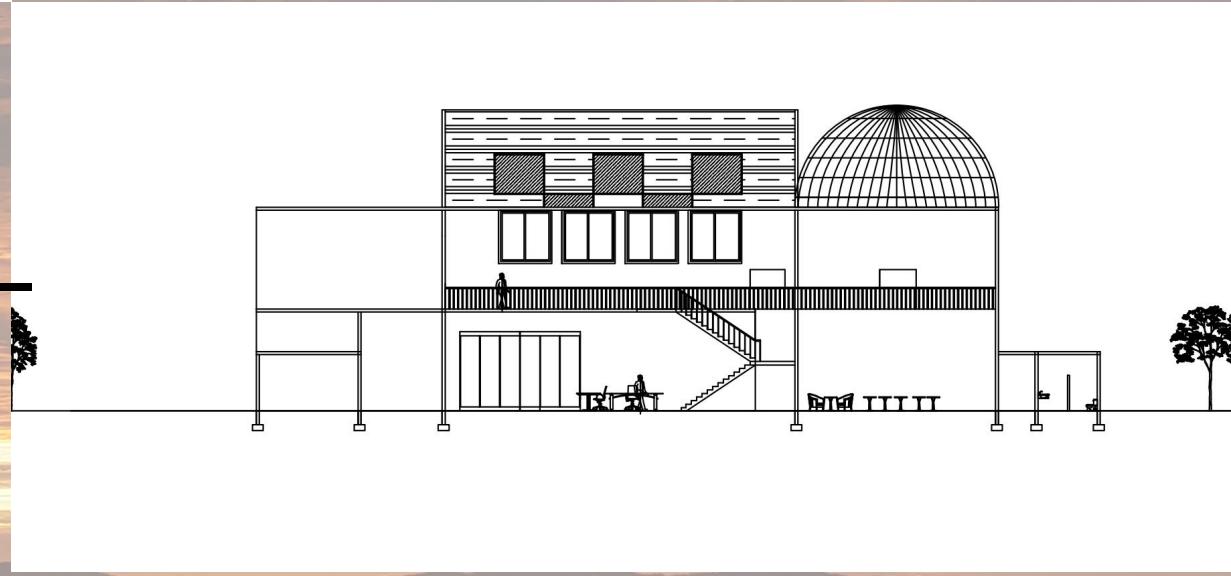


ASSIGNMENT 2: MODERN CULTURAL CENTER DESIGN

TECHNICAL DRAWINGS:



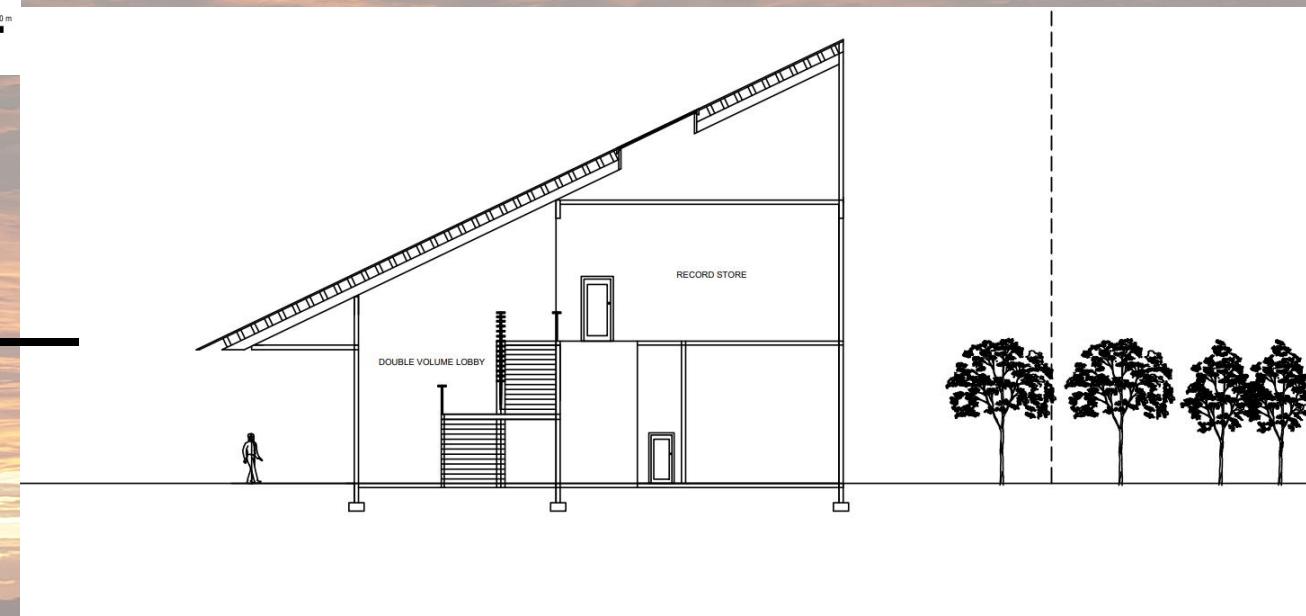
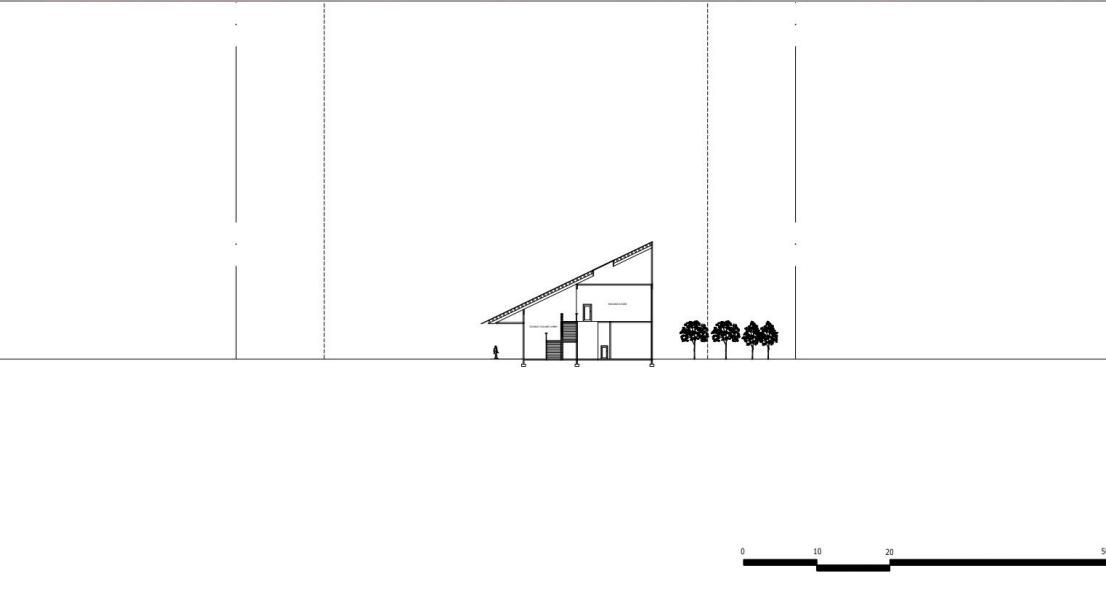
X-X SECTION
WITH BOUNDRIES



X-X SECTION
CLOSE UP

ASSIGNMENT 2: MODERN CULTURAL CENTER DESIGN

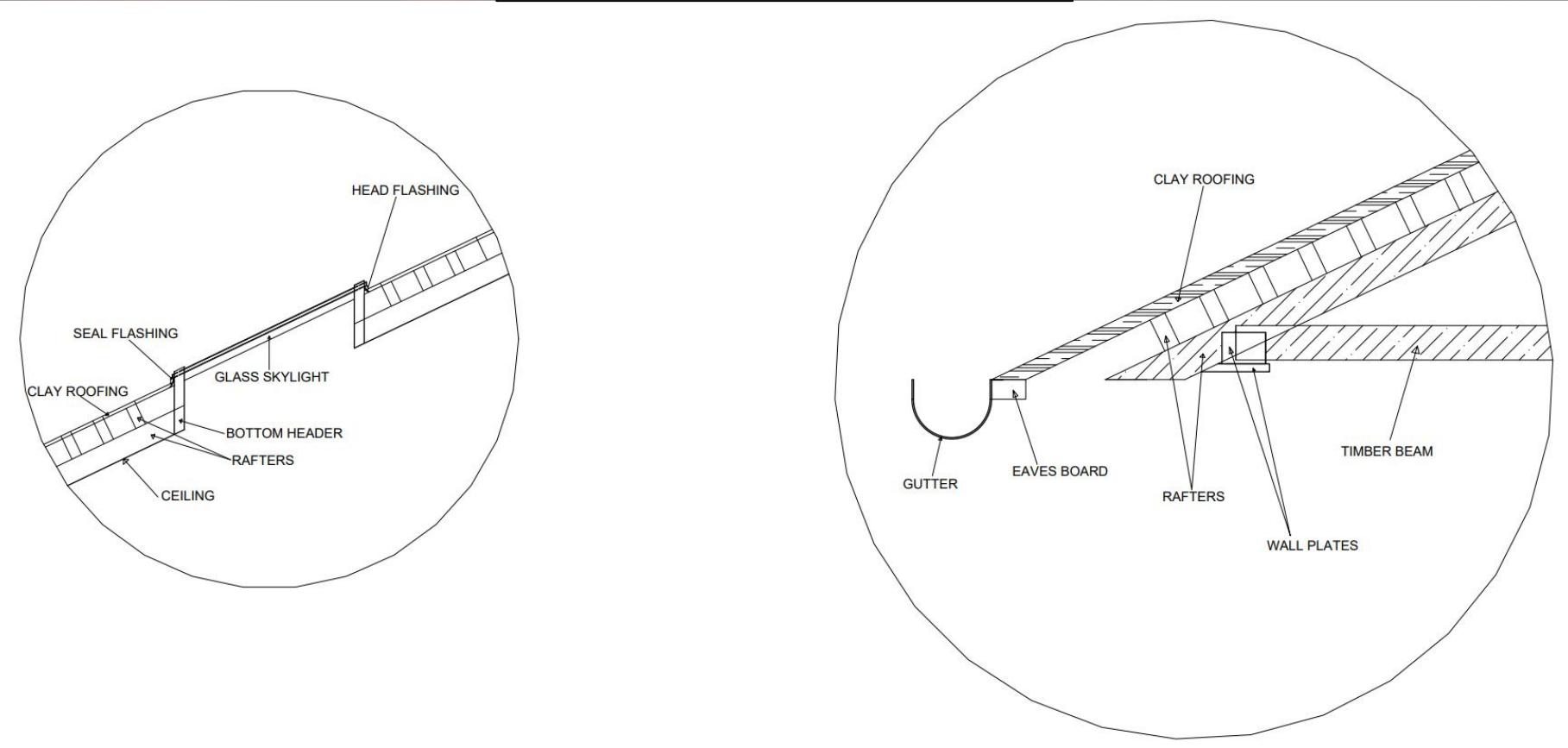
TECHNICAL DRAWINGS:



ASSIGNMENT 2: MODERN CULTURAL CENTER DESIGN

TECHNICAL DRAWINGS: BUILDING SECTION DETAILS:

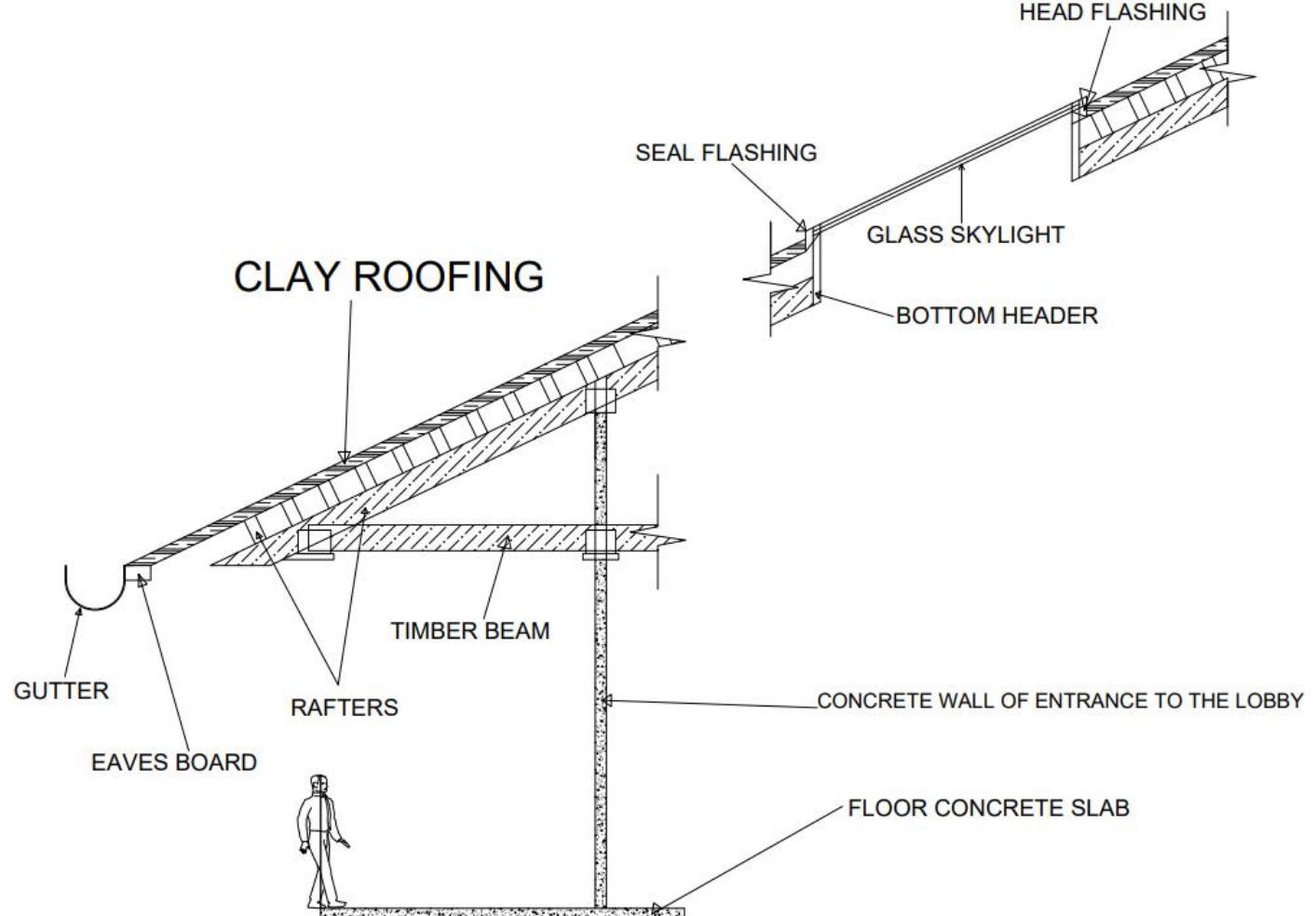
ROOF DETAILS



ASSIGNMENT 2: MODERN CULTURAL CENTER DESIGN

TECHNICAL DRAWINGS: BUILDING SECTION DETAILS:

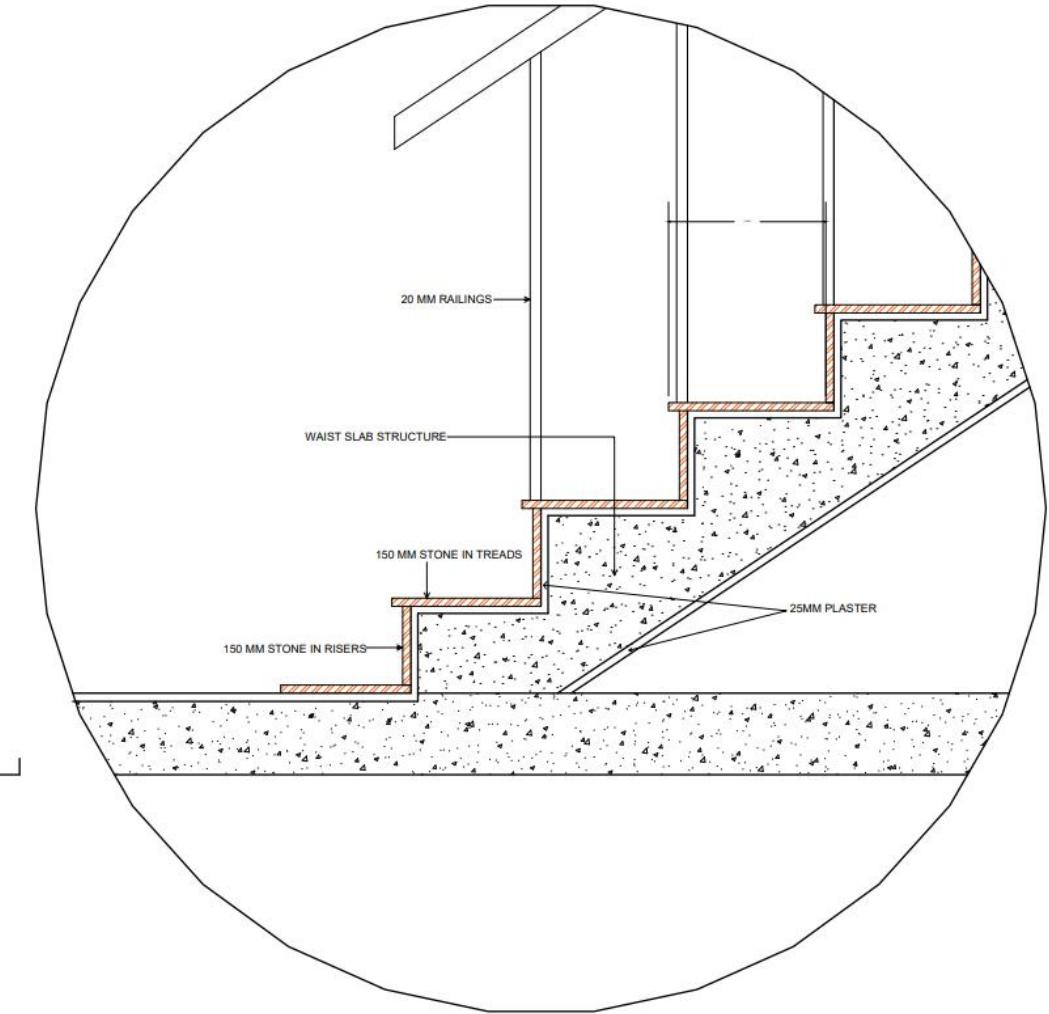
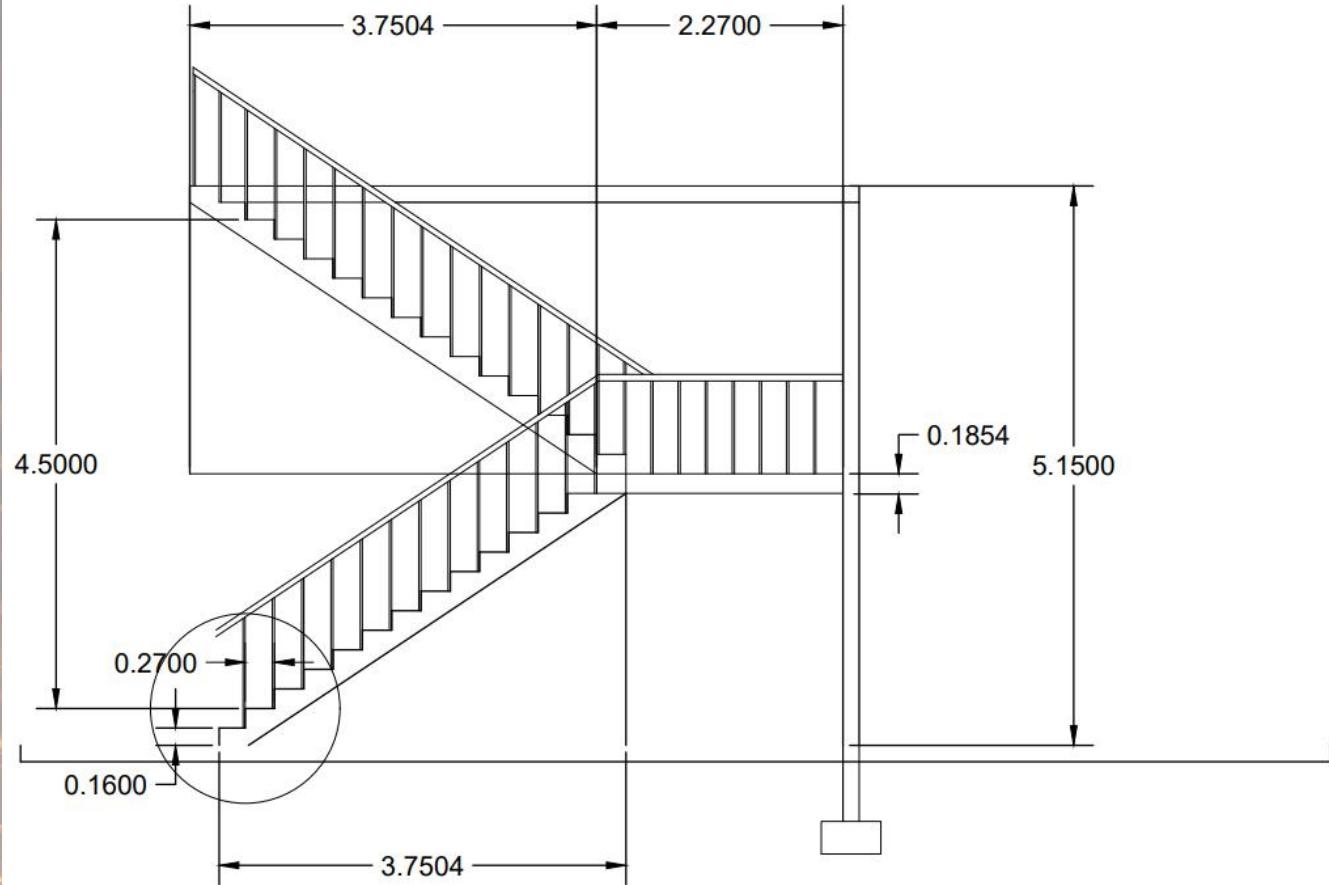
ROOF TO FLOOR SECTION DETAILS



ASSIGNMENT 2: MODERN CULTURAL CENTER DESIGN

TECHNICAL DRAWINGS: BUILDING SECTION DETAILS:

STAIR CASE DETAILS



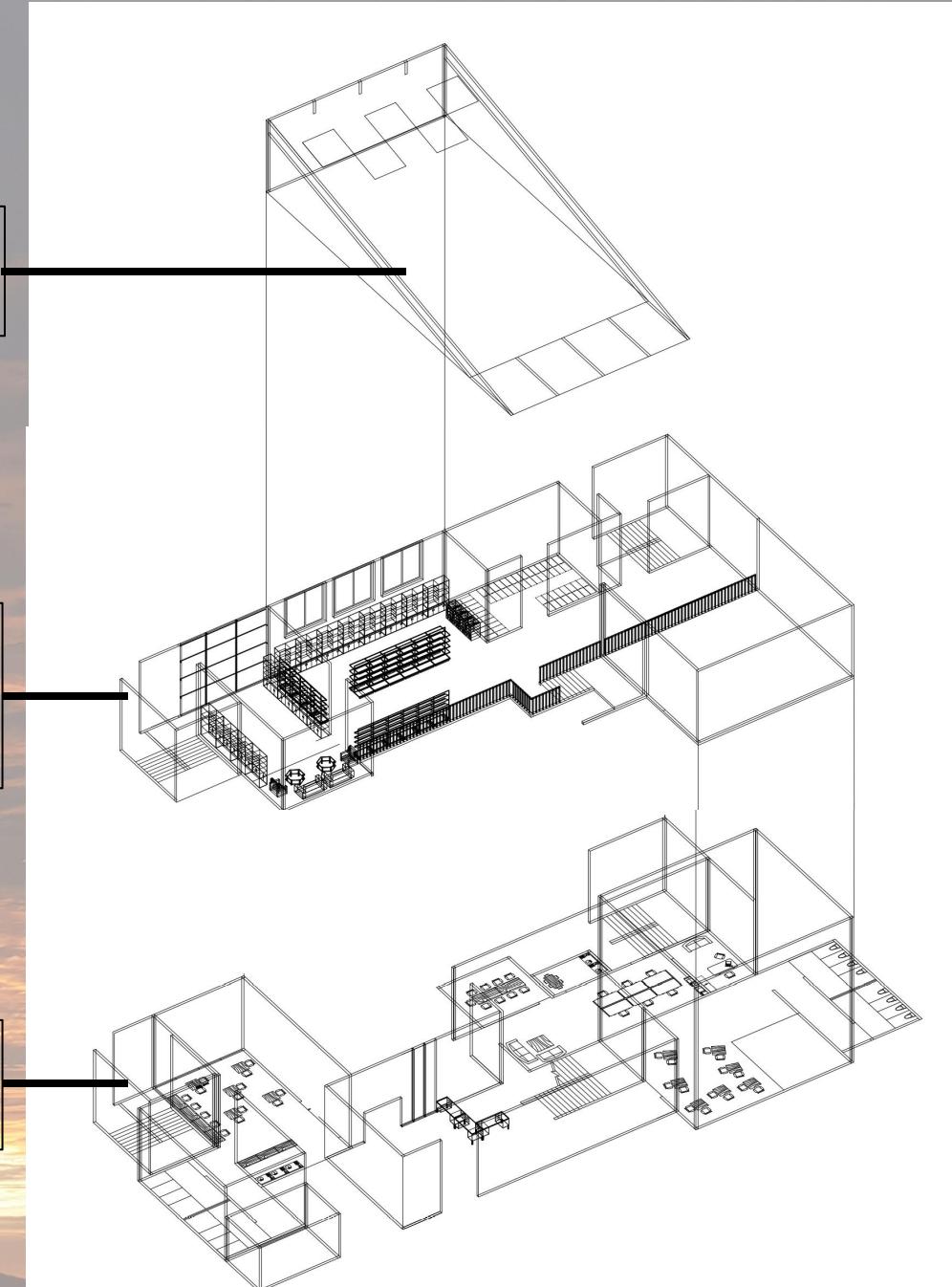
ASSIGNMENT 2: MODERN CULTURAL CENTER DESIGN

TECHNICAL DRAWINGS: AXONOMETRIC DRAWING

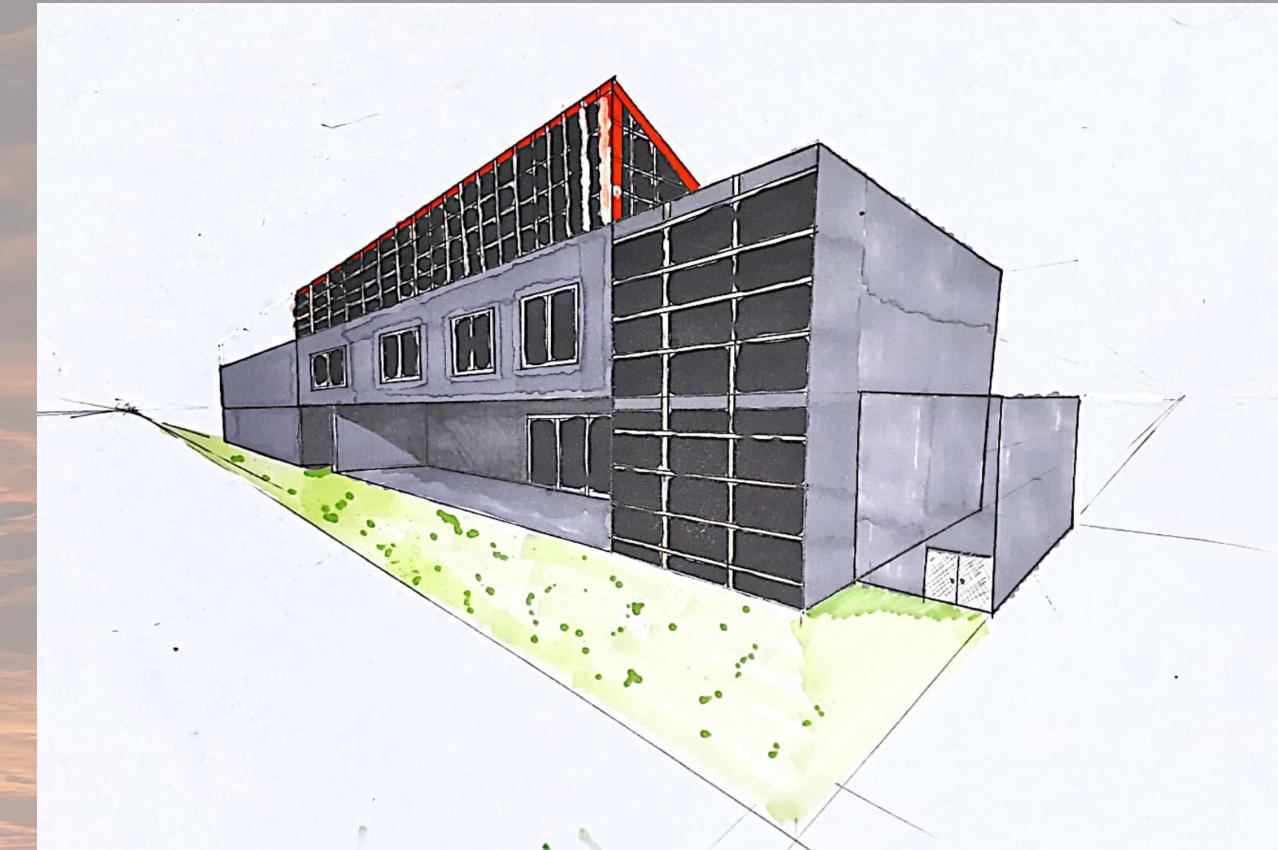
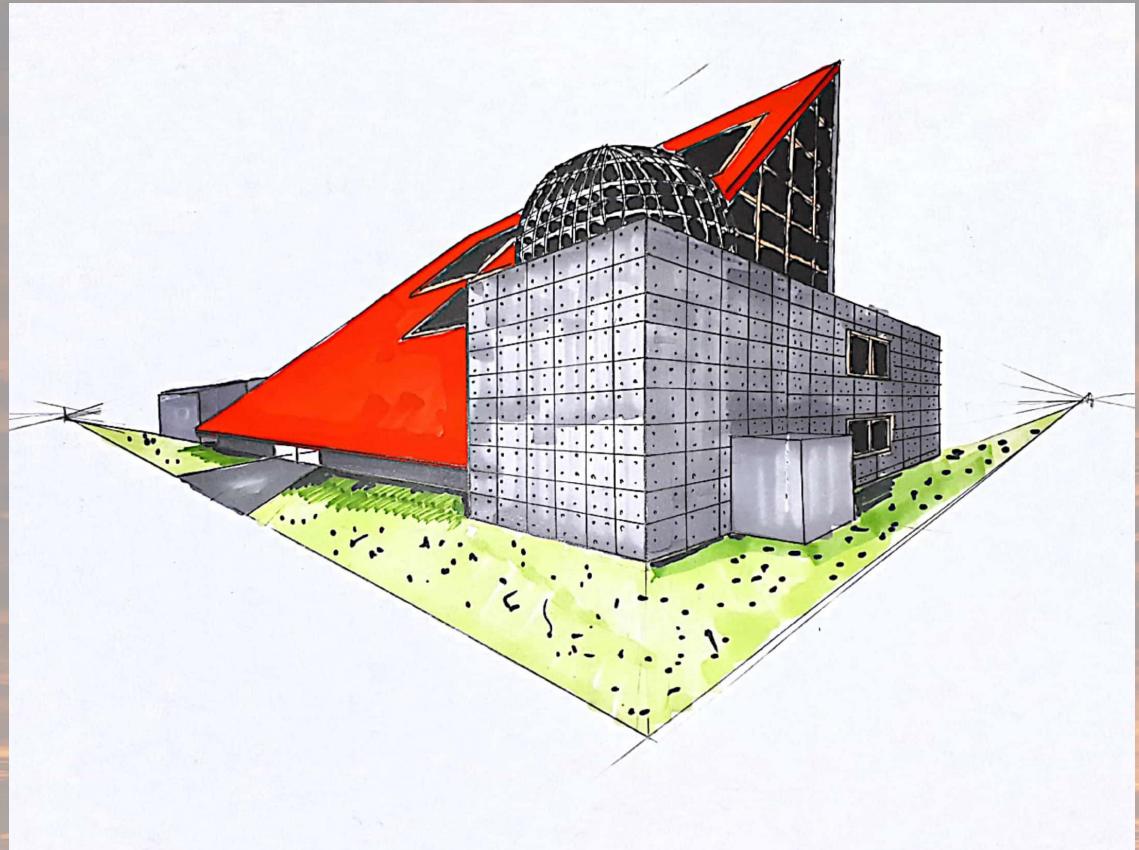
SLANTED ROOF STUCTURE

FIRST FLOOR: RECORD STORE, LIBRARY

FLOOR LEVEL: CAFE MPH SERVICES, ADMINISTRATION



ASSIGNMENT 2: MODERN CULTURAL CENTER RECORD STORE: EXTERIOR PERSPECTIVES



CONCLUSION:

IN THIS COURSE, WE HAVE COME TO LEARN THE IDEA OF CARRYING ON AND LINKING CONCEPTS AND THEMES FROM PRECEDENTS STUDIES AND FLESHING THEM OUT TO CREATE UNIQUE AND INDIVIDUALISTIC IDEAS AND CONCEPTS OF BUILDINGS. I HAVE COME TO LEARN THAT WITH MORE EXTENSIVE RESEARCH AND DIGGING, I CAN HAVE MULTIPLE INSPIRATIONS THAT CAN GUIDE ME THROUGH THE DESIGN PROCESS CONCEPTUALLY. I HAVE ALSO LEARNED THE BASICS OF SITE ANALYSIS AND THE IDEA OF RESEARCHING DETAILS ABOUT THE SITE EVEN THOUGH WE WERE NOT ABLE TO VISIT THE SITE PHYSICALLY DUE TO COVID RESTRICTIONS. SO WE WERE FORCED TO BE MORE INTRICATE AND THOROUGH WITH OUR SITE RESEARCH AT HOME TO ACHIEVE THE REQUIRED QUALITY AND HAVE ENOUGH INFORMATION THAT CAN TRANSITION US TO DESIGNING THE MODERN CULTURAL CENTER.

THANK YOU