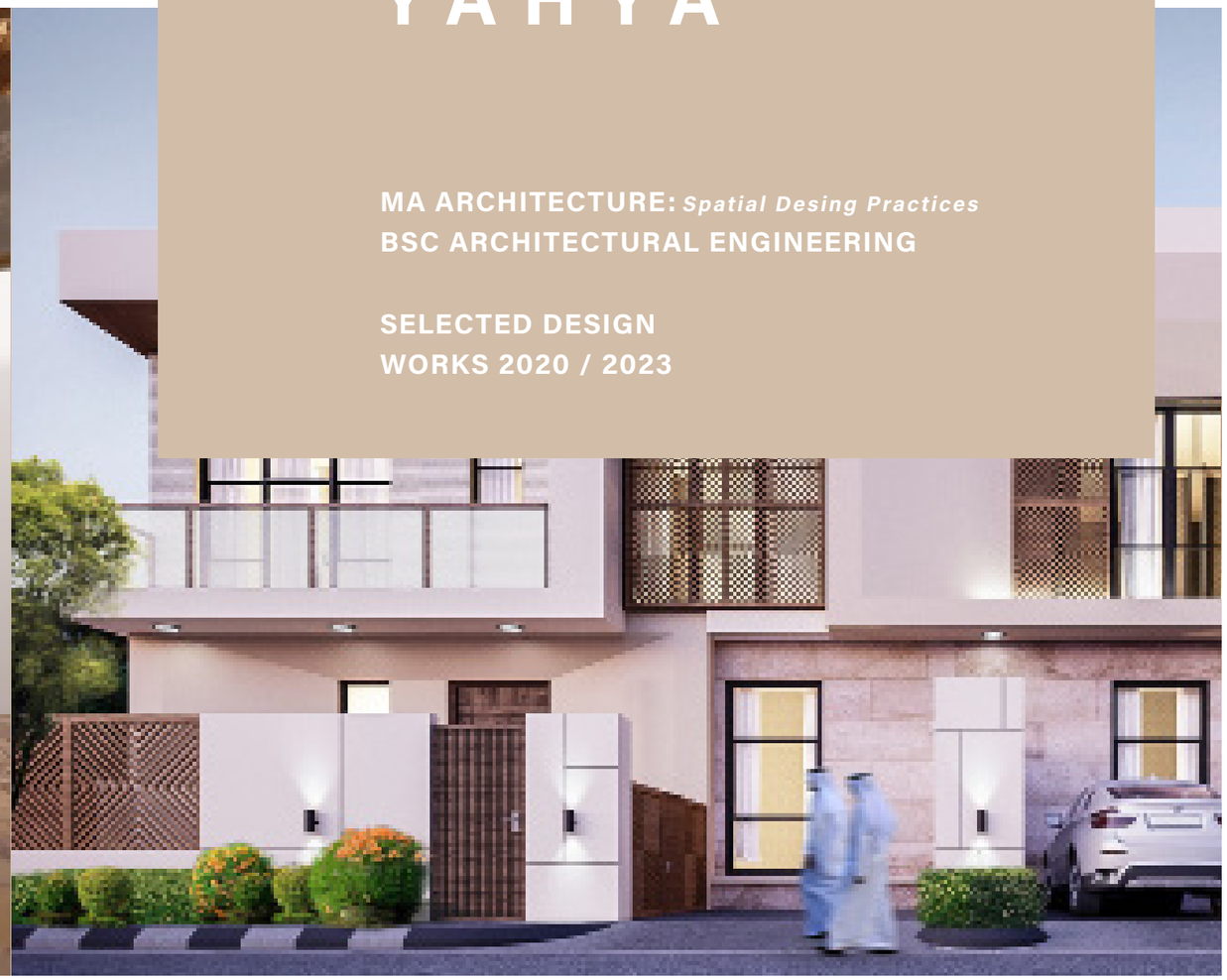
DESIGN PORTFOLIO

ARCHITECTURAL ENGINEER/DESIGNER

2020 / 2023 DESIGN PORTFOLIO



Presented by

W A F A Y A H Y A

MA ARCHITECTURE: *Spatial Desing Practices*
BSC ARCHITECTURAL ENGINEERING

SELECTED DESIGN WORKS 2020 / 2023

PROFESSIONAL WORK: PRIVATE RESORT (880 M^2) 4

PROFESSIONAL WORK: PRIVATE VILLA (400 M^2) 6

PROFESSIONAL WORK: 3 UNIT RENTAL (887 M^2)(EACH UNIT 290 M^2) 8

MISCELLANEOUS 10

PHOTOGRAPHY: PICTURES OF SUDAN 12

BSC SENIOR DESIGN PROJECT: DJAMMAN (32,500 M^2) 14

CONTENT PAGE

PROJECT LOCATION: ALEHSA, SAUDI ARABIA

PROJECT TYPE: PRIVATE RESORT

SUSTAINABLE BULDINGS CONSULTANTS

2022

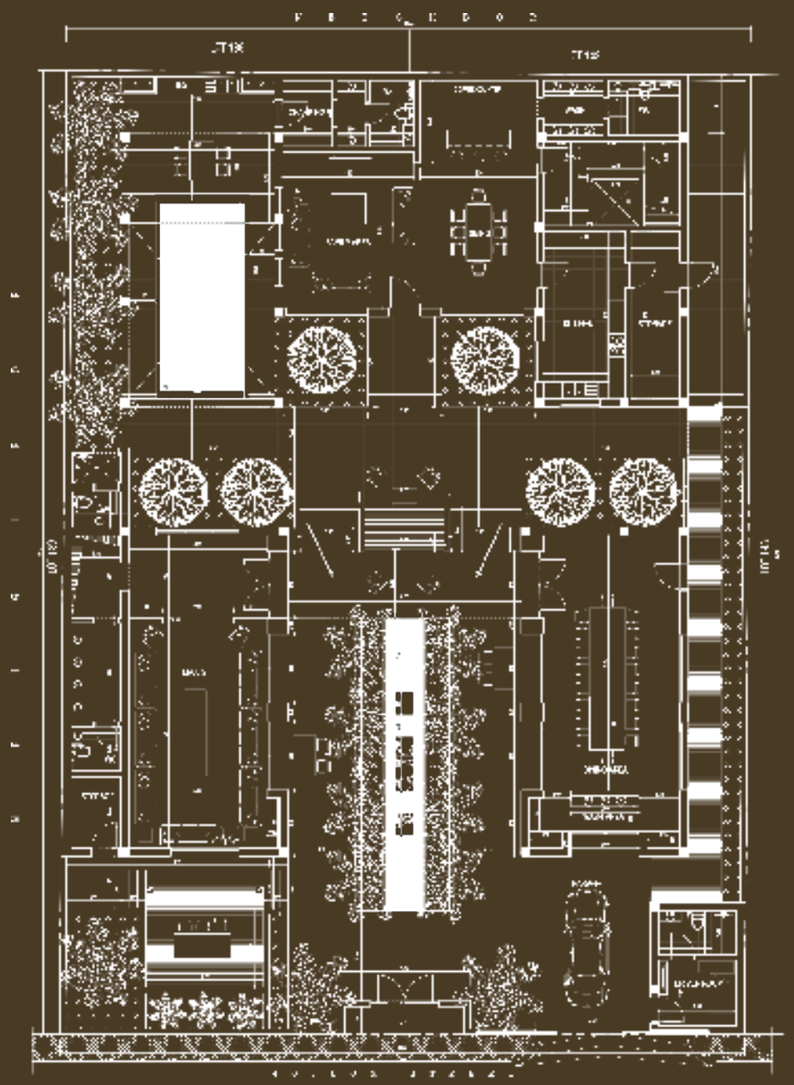
DESIGN BRIEF

The client requested a private resort to be used as a vocation home for the family with private bedrooms in the first floor.

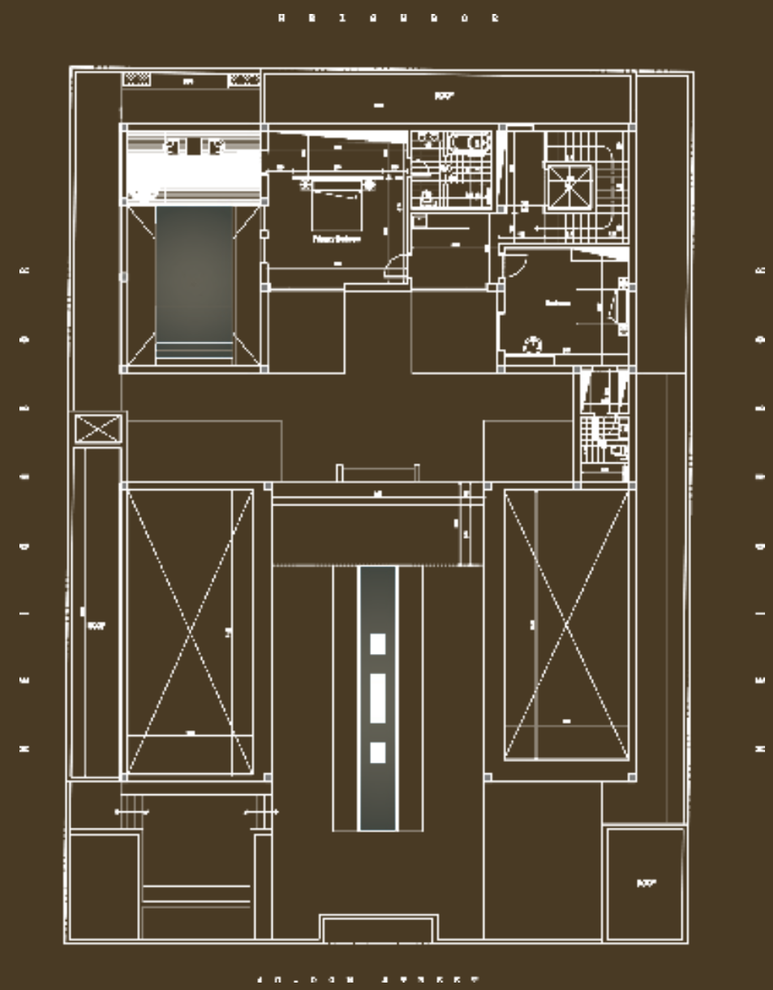
The Arab culture is based on hospitality so the seating and dining area was designed with that in mind.

The design style for this project was a mix of costal and boho for a relaxed and cozy look which was "the perfect fit" according to the client.

PROFESSIONAL WORK:
PRIVATE RESORT



GROUND FLOOR PLAN



FIRST FLOOR PLAN

PROJECT LOCATION: DAMMAM, SAUDI ARABIA

PROJECT TYPE: PRIVATE VILLA

SUSTAINABLE BULDINGS CONSULTANTS

2021

DESIGN BRIEF

The challenge in this lot was the lot size as it is narrow and the client wished for many additions for thier dream house

I worked on the massing and general plan layout as well as finalising the project's working drawings.

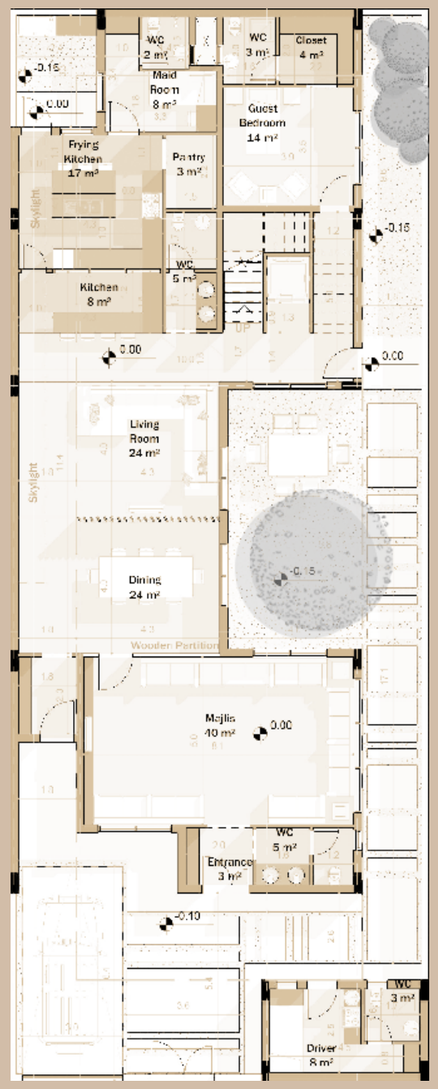
I developed two options in th epreliminary stages of design in 5 business days for a client meeting.

The client finally found what they prefered in each option which helped me mix and match to move forward in the design process.

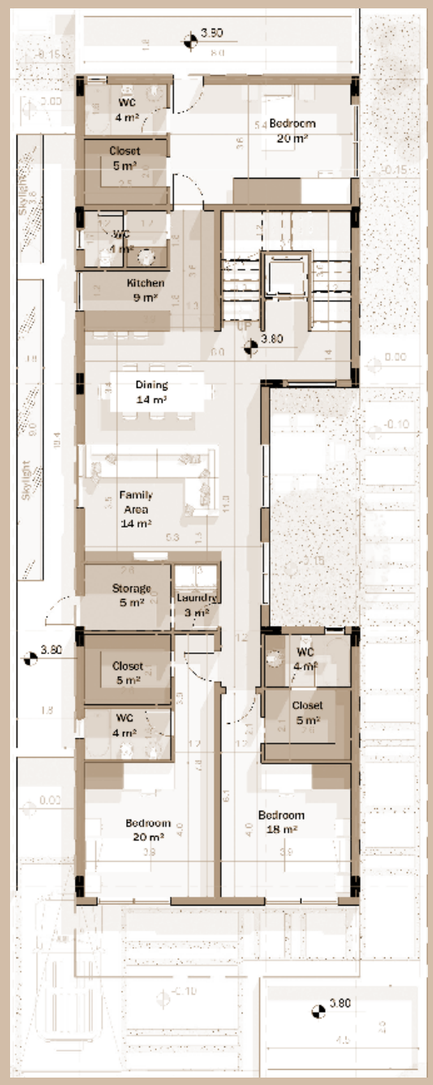
PROFESSIONAL WORK:

PRIVATE VILLA

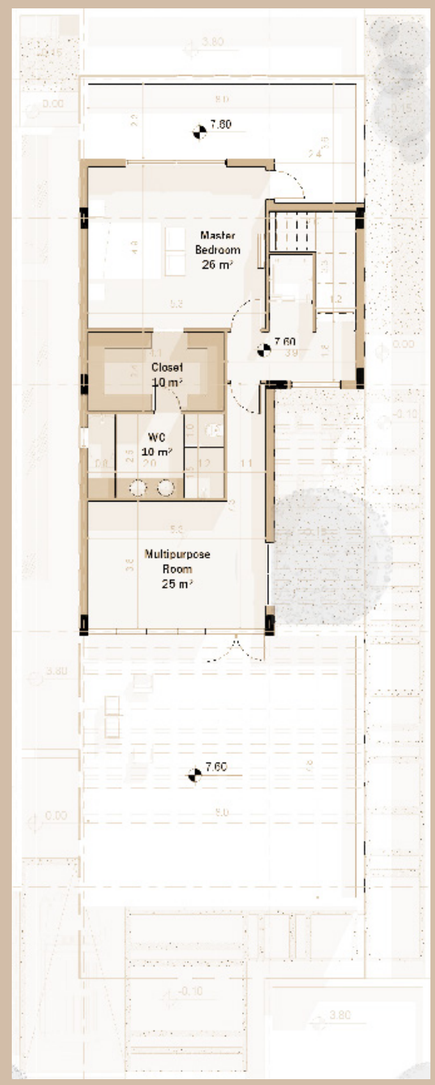
GROUND FLOOR PLAN



FIRST FLOOR PLAN



ROOF FLOOR PLAN



FLOOR PLANS

PROJECT LOCATION: DHAHRAN, SAUDI ARABIA

PROJECT TYPE: RENTAL DESIGN DEVELOPMENT

SUSTAINABLE BULDINGS CONSULTANTS

2021

DESIGN BRIEF

The client approached the design team with an underconstruction 3 rental units property but needed a more modern twist to the exterior.

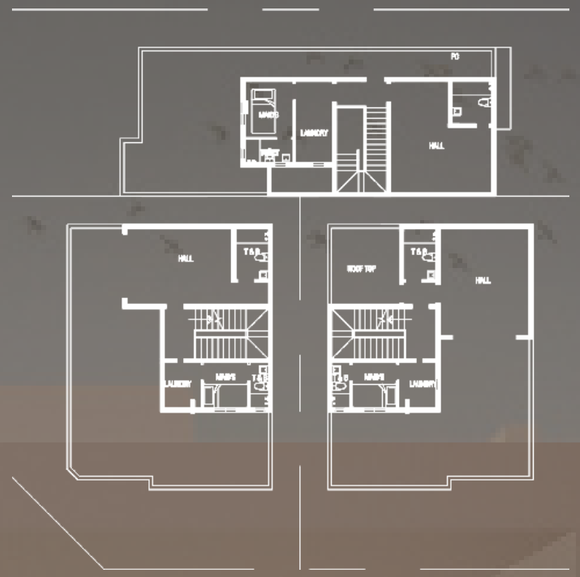
I had the pleasure to give it a modern touch following the client's wishes. Mainly giving it a feel of one big villa rather than 3 mirrored facades.

PROFESSIONAL WORK:
3 UNIT RENTAL TOWN HOUSES

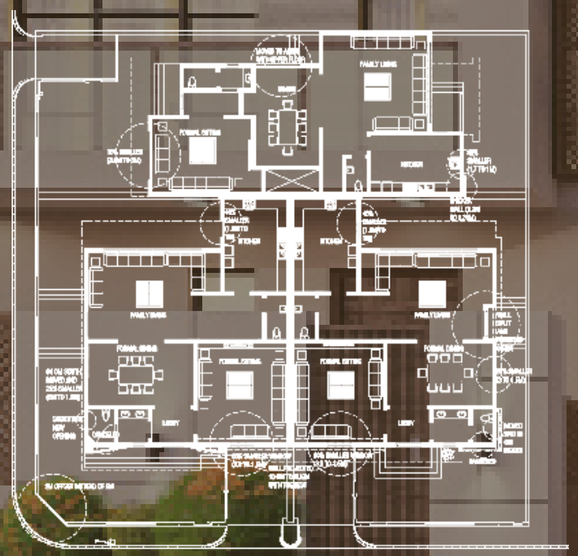
ORIGINAL & ADJUSTED

ORIGINAL GROUND FLOOR PLAN

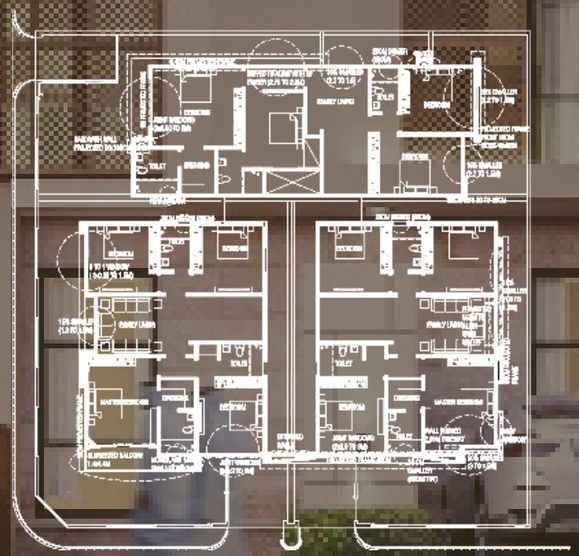
ORIGINAL FIRST FLOOR PLAN



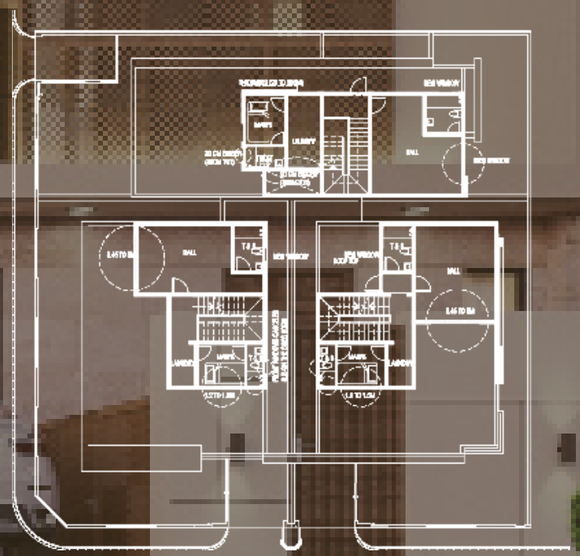
ORIGINAL ROOF FLOOR PLAN



ADJUSTED GROUND FLOOR PLAN



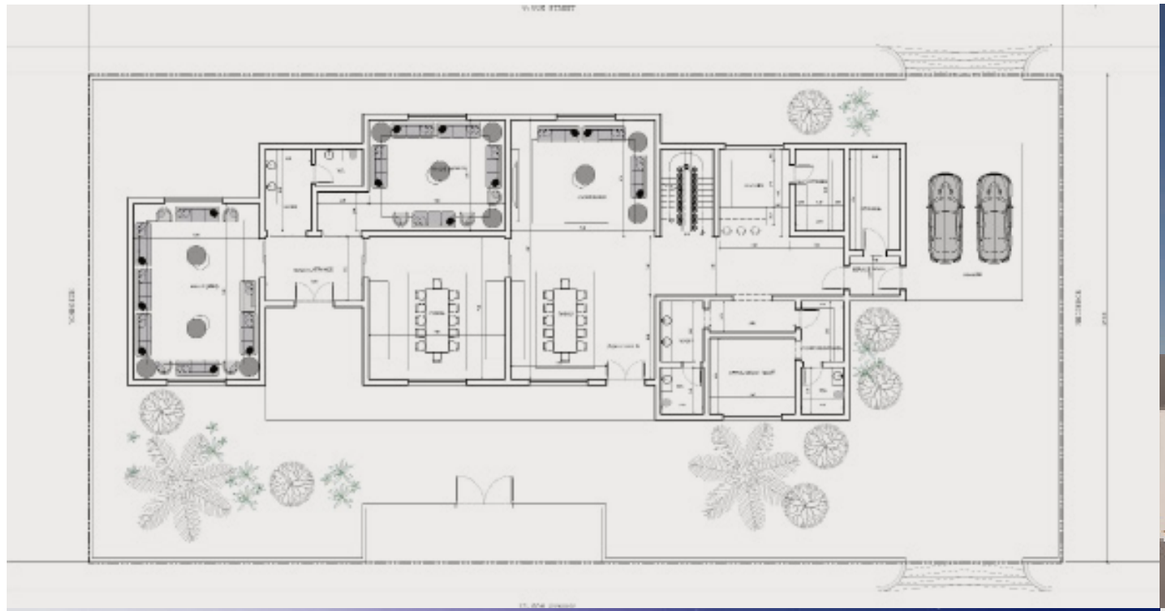
ADJUSTED FIRST FLOOR PLAN



ADJUSTED ROOF FLOOR PLAN

MISCELLANEOUS

RESEDENTIAL PROJECTS DESIGNS



EXAMPLES :

RENDERS, 3D MODELING, AND PRELIMINARY PLANS

PHOTOGRAPHY : PICTURES OF SUDAN

ACADEMIC SENIOR PROJECT

DJAMMAN: AN INCLUSIVE PLACE FOR PUBLIC EMPOWERMENT AND COMMUNITY ENGAGEMENT

PROJECT LOCATION: KHARTOUM SUDAN

PROJECT TYPE: URBAN DEVELOPMENT

UNIVERSITY OF SHARJAH

2020

FINAL GRADE 'A'

SENIOR DESIGN PROJECT

DEPARTMENTS PROJECT PRO-

The Program of each department was calculated using our published survey responses and expected daily visitors with standard m^2 areas in mind of each designated space

KNOWLEDGE & ENLIGHTMENT DEP PROGRAM

Knowledge & Enlightment						
GN	Name	Capacity	Area	No.	Net Area	Description
1	Library			1	1935	The Exterior Public Library with a Rooftop Reading Area and a Secondary Reading Lounge
1.1	Public Library	400 people	235	1	235	
1.2	Digital Library	113 people	639	1	639	
1.3	Archive		65	1	65	
1.4	Mechanical room		88	2	98	
1.5	Resources and Printing Room		10	1	10	
1.6	Electrical room		2	7	14	
2	Lecture Hall			1	1345	For guest lectures and other presentations
2.1	Hall	250 people	235	2	670	
2.2	Lecture lounge			1	484	
2.3	Mechanical room		85	1	85	
2.4	Electrical room		2	124	32	
2.5	Toilets	6 stalls	25	2	66	
3	Round Table			6	699	The Round Table is meeting and seating area for students to use as the pre-building
3.1	Meeting Room	6 Rooms	185	1	216	
City & Its People						
4	Interior Platform				160	An exposition of the Diamman Architecture. Diamman is a Sudanese figure of speech which the Sudanese culture, especially between the people. The Platform will be used to engage the people with the Architecture.
4.1	Seating	80 visitors	1.5	1	100	
4.2	Stage	1	10	1	15	
4.3	Mechanical room			1	45	
5	Learnigsch workshops				1848	Meant to support the youth population with hands-on learning classes. This program connects to high school and Learnigsch is a 3D workshop and learning center for multiple sessions, art, craft, corner sketchpad, performance and exhibitions, etc.
5.1	Multisensional workshop			1	420	
5.2	Assembly Workshop			1	780	
5.3	Electrical room			2	12	
5.4	Storage			1	72	
5.5	Mechanical room			1	32	
5.6	Toilets	6 stalls	25	4	200	
6	Administration				292	All departments are provided with standard size
6.1	Office	1 Staff	10	3	60	
6.2	Manager	1 Staff	20	1	20	
6.3	Archive		15	2	30	
6.4	Printing		15	1	15	
6.5	Pantry		12	1	12	
6.6	Office WC	4 Stalls	12	2	24	
6.7	Sr Lounge			1	60	
7	Facilities				181	All departments are provided with similar gear
7.1	Storage			1	15	
7.2	Security			1	15	
7.3	Garbage room			1	12	
7.4	Mechanical room			2	22	
7.5	Electrical room			1	21	
7.6	Reception			1	10	
7.7	Reception Lounge			1	156	
7.8	Toilets	6 stalls	25	2	50	
Total					7377	

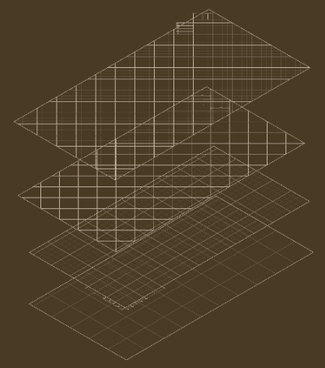
SITE ANALY-

DEPARTMENTS

1. Knowledg & Enlightenment
   - 1.1 Public Library
   - 1.2 The RoundTable Study Hall
   - 1.3 Lecture Hall
2. City & Its People
   - 2.1 The Platform
   - 2.2 Training Centre (LainchPad)
   - 2.3 Workshops (LainchPad)
3. Entertainment
   - 3.1 Amphitheatre
   - 3.2 Restuarants
   - 3.3 ShowHouse (Standup Comedy)
4. Healing with Art
   - 4.1 Landscape
   - 4.2 Mural Art
   - 4.3 Art Gallery
   - 4.4 The Canvas

A strong unity is achieved when individuals and different groups have a similar influence; however, the strongest unity is a representation of a spirit of togetherness even with such diversity.

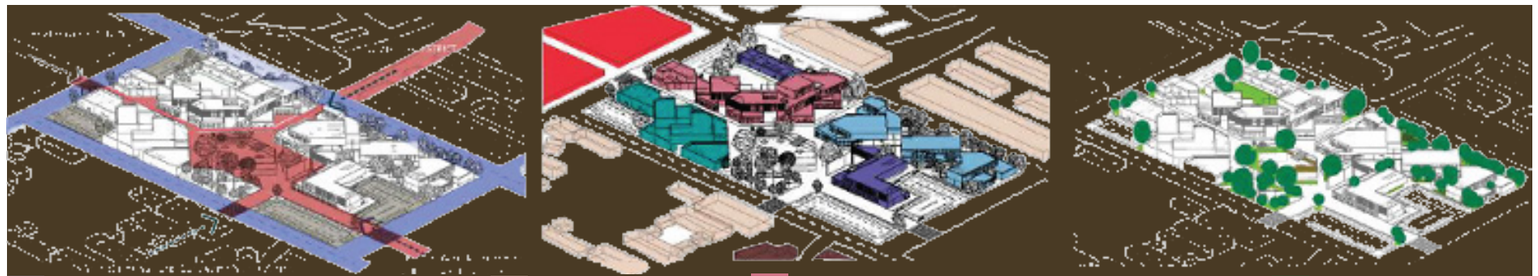
For it is in unity that differences are accepted, embraced and respected.



Djamman reflects on unity within diversity using superimpositions of layers. The values between forms, masses, and mural layers was achieved by using grid system in alignments with the site's surrounding roads and paths. This produced two grids: an orthogonal 12.5m grid and an inclined 8.42m grid (45 degrees).

According to the feedback received from our survey conducted to engage the Sudanese public in this design process, the buildings visually connect through the use of both traditional and non-traditional architectural languages.

CONCEPT PHILOSO-



MAIN VECHILE ACCESS
MAIN VPEDESTRIAN ACCESS
PARKING
EXISTING RESEDENTIAL
EXISTING GOVERMENTAL
EXISTING SOUQ
ENTERTAINMENT DEP
HEALING WITH ART DEP
KNOWLEDGE & ENLIGHIMENT DEP
CITY AND ITS PEOPLE DEP
LOCAL TREES
GREENARY

ZONING GRAPH

PROJECT LOCATION: KHARTOUM SUDAN

PROJECT TYPE: URBAN DEVELOPMENT

UNIVERSITY OF SHARJAH

2020

FINAL GRADE 'A'

SENIOR DESIGN PROJECT

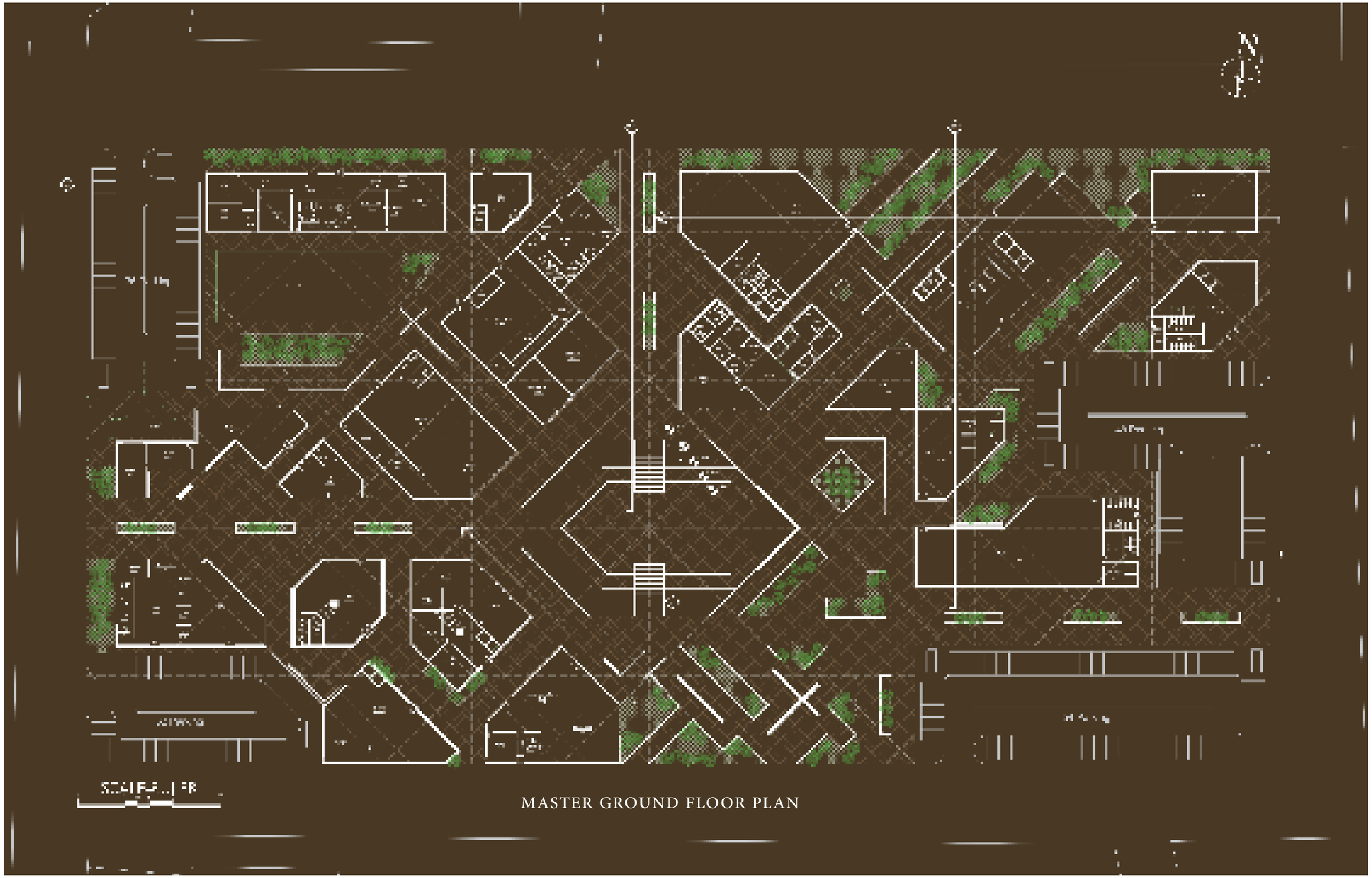
IDEA & CONCEPT

The promice of a democratic country torched the *December 2018 Revolution* within the Sudanese people hearts. It encouraged them to create a new community. A better Sudan.

The union created by the revolution among different ethnic, religious, and social groups, was needed to secure a better future for Sudan. Hence, the need for a place such as *Djamman*. A community with facilities designed to help the community grow, encourage the public to engage in a more democratic environment which gives them the sense of empowerment and eventually enhancing that community.

DJAMMAN MEANING {pron: ʤɑmmæn}

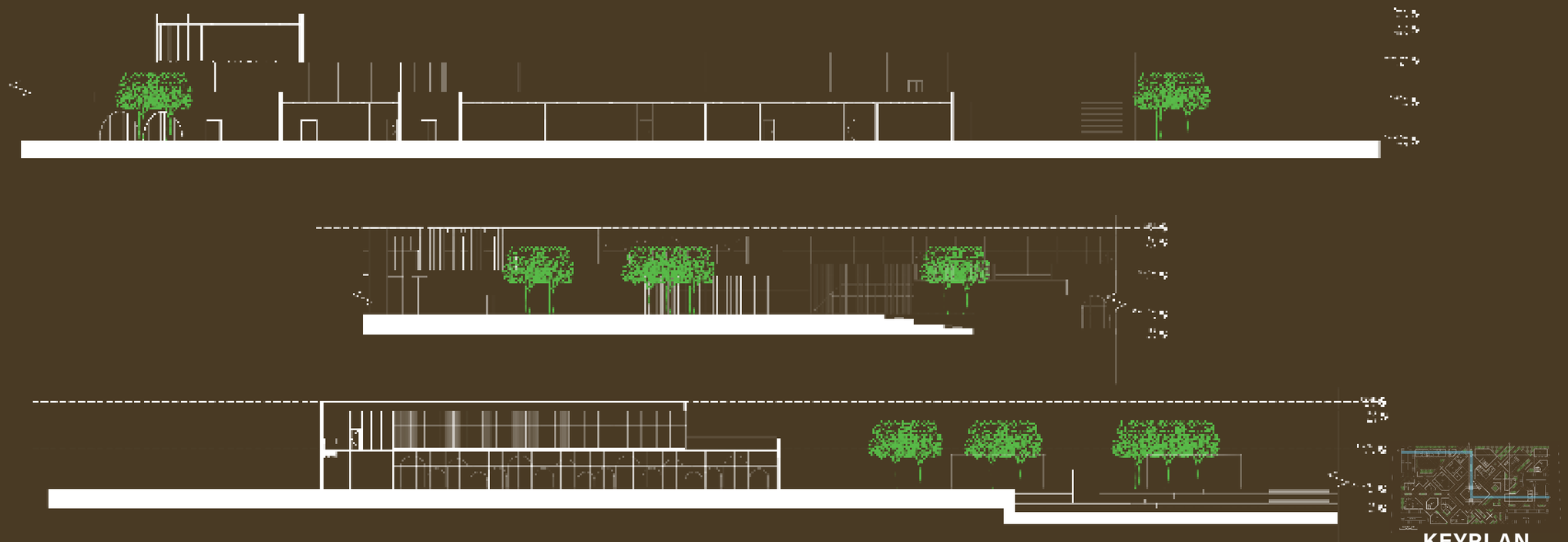
Djamman with silenced 'D' is a word in the Nubian language that means togetherness or unity. It was chosen as the title of the project as a reminder of the single united front that the Sudanese society projected during the times of hardship as it serves as a place of connection.
Djamman is an urban development BY THE PEOPLE, FOR THE PEOPLE.



MASTER GROUND FLOOR PLAN

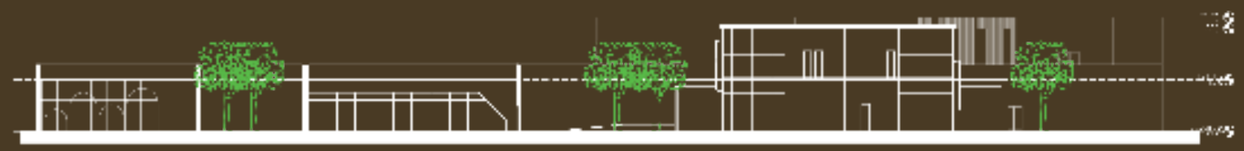
KNOWLEDGE DEPARTMENT GROUND FLOOR PLAN

KNOWLEDGE DEPARTMENT FIRST FLOOR PLAN

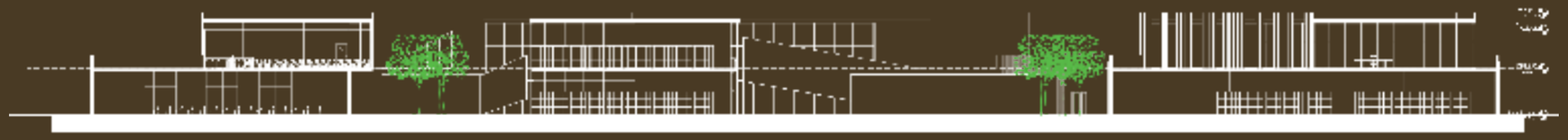


URBAN SECTION

SECTIONS & ELEVA-

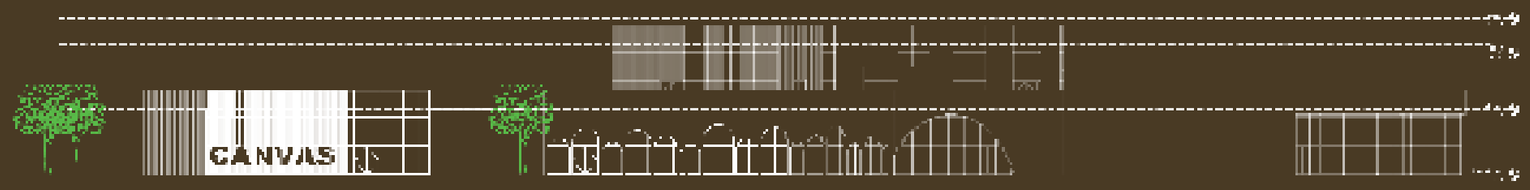


KNOWLEDGE & ENLIGHTENMENT SECTIONS

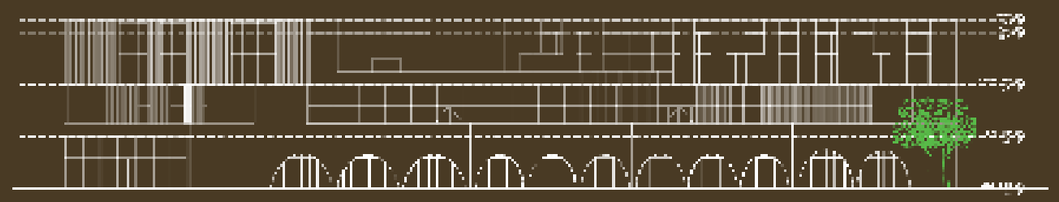


KNOWLEDGE & ENLIGHTENMENT SECTIONS

ENTERTAINMENT ELEVATION



HEALING WITH ART ELEVATION



KNOWLEDGE & ENLIGHTENMENT ELEVATION

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