

Architectural

PORTFOLIO



2024 Amirhossein Bahrami

01	Science and exprience garden semester 9 (jul 2022)	01
02	Residential Complex semester 8 (jan 2021)	11
03	Day Clinic semester 6 (jan 2020)	17
04	Rural Architecture semester 6 (jan 2020)	21
05	Technical Design semester 8 (jan 2021)	27
06	Photographies 2020-2022	31



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EDUCATION

- 2017 - 2019 Bachelor of Architecture,**
Semnan University, Semnan, Iran
- 2019 - 2022 Bachelor of Architecture,**
Science and Technology University, Tehran, Iran
- 2023 - Present Building Sciences Engineering,**
Shahid Beheshti University, Tehran, Iran
- Head of Student Scientific Assosiation**
Shahid Beheshti University, Tehran, Iran

RESEARCH INTREST

- Psychology of Built Environments:** Examining how archi-
tectural design impacts human behavior, emotions, and cognition.
- Environmental Influence on Hormonal Regulation:**
Investigating sustainable architecture's role in hormonal balance, stress
reduction, and overall well-being.
- Architecture as a Therapeutic Tool:** Exploring architectural
interventions to enhance mental health and well-being.
- Societal Culture and Architecture:** Analyzing architecture's
influence on societal norms, values, and cultural cohesion.
- Conflict Resolution through Design:** Studying design
strategies for peace-building in conflict-prone areas.
- Housing Accessibility and Equity:** Exploring inclusive
design for affordable and accessible housing solutions.
- Mindful Design Practices:** Prioritizing mental well-being in
design to foster creativity and emotional health.
- Interdisciplinary Approaches to Architecture and
Psychology:** Integrating psychology, neuroscience, and architecture
for holistic design solutions.
- Community Engagement and Participatory Design:**
Advocating for community-involved design processes to meet diverse
user needs.

ABOUT ME

As an architect, I have always been fascinated by how the spaces we inhabit can shape our thoughts and emotions. My passion lies in creating spaces that not only function well but also positively impact the mental well-being of those who use them. By incorporating principles of psychology into my design approach, I strive to create environments that promote comfort, inspiration, and overall happiness. With each project, I aim to leave a lasting impact on the people who experience the spaces I create.

CERTIFICATE & WORKSHOP

- Participated in a green architecture workshop, focusing on
sustainable design principles and practices.
- Took part in a biometric architecture workshop, exploring the
use of biometric data in building design and security.
- Learned about Revit in a training session, gaining proficiency
in the use of this popular architecture software.
- Attended an Ideogram training session, developing skills in
the use of this graphical language for design communication.

SOFTWARE SKILLS

AutoCAD	
Revit	
SketchUp	
Lumion	
Photoshop	
Premiere	
Office	

SKILLS

- Critical thinking and analysis
- Design thinking and problem-solving
- Attention to detail
- Creativity and innovation
- Time management and multitasking
- Research and analysis
- Project management and organization

INTRESTS

Travel	Cooking
Photography	Movies
Psychology	Fashion
Philosophy	Culture

01

SCIENCE & EXPRIENCE GARDEN

In my thesis, I delved into the intricate interplay between passion and social impact. In response to this exploration, I conceptualized a visionary architectural project aimed at cultivating a profound synergy between career exploration and meaningful connections with seasoned professionals. By kindling individual passions and nurturing a novel arena dedicated to altruistic endeavors, the endeavor aspires to sow the seeds for a society characterized by enhanced fulfillment and productivity. Rooted in the timeless wisdom encapsulated by Steve Jobs' profound words, "Love what you do," this initiative embodies a beacon of inspiration for a brighter and more purposeful future.

Location: Pardisan park, Tehran, Iran

Building type: exhibition

Area: 30,000 m²

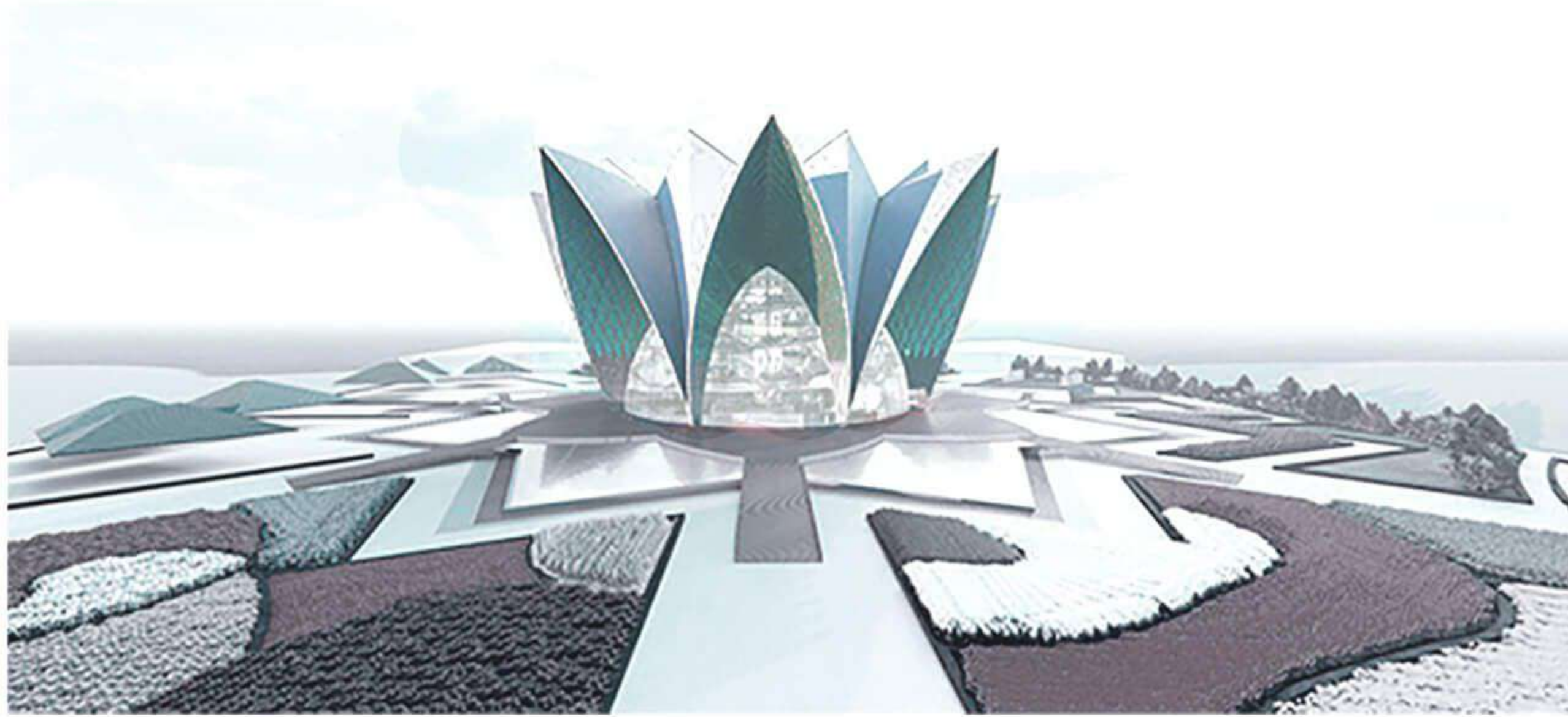
Subject: Thesis, semester 9

Supervisor: Dr. Haniyeh Sanaieian

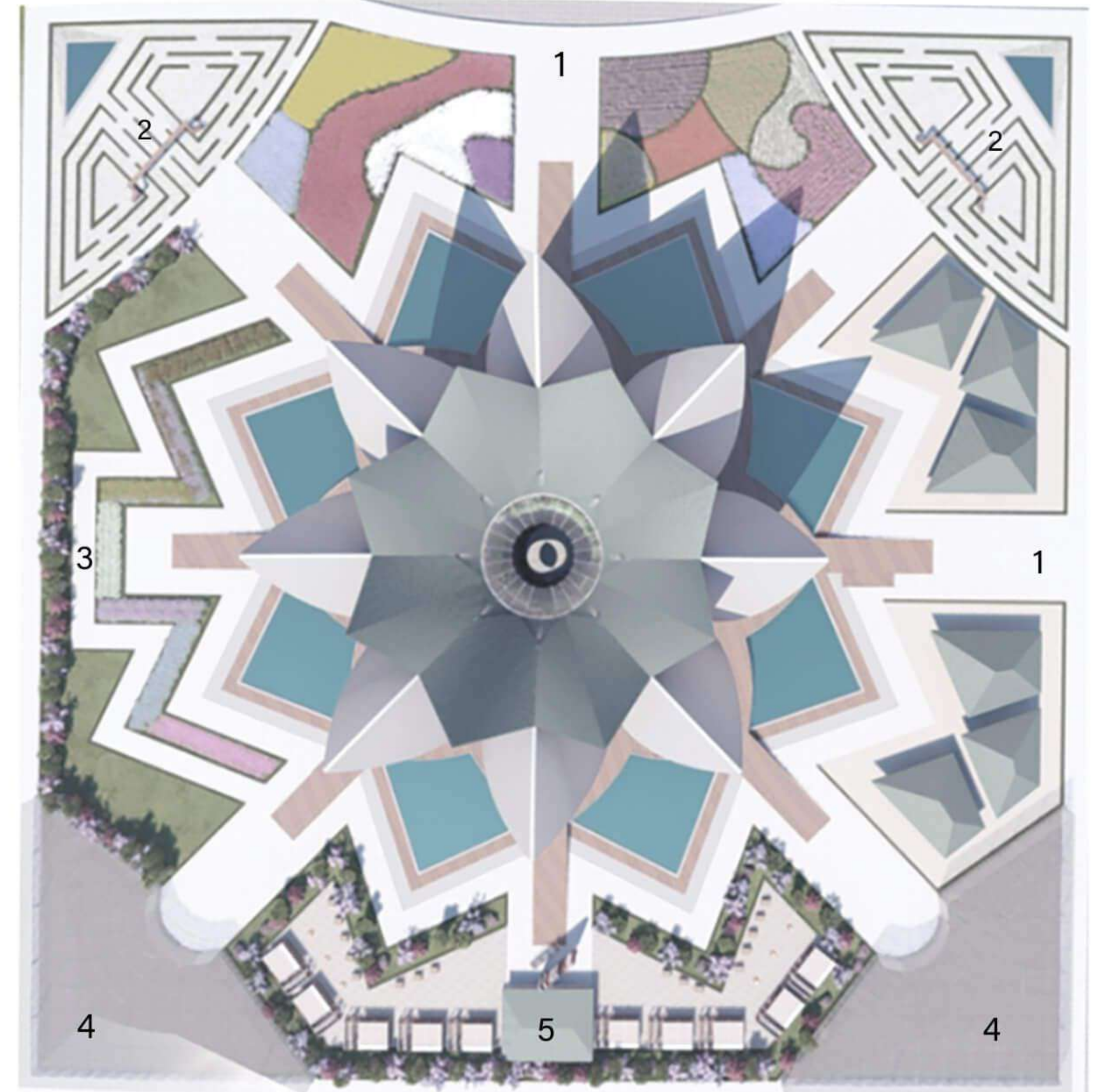
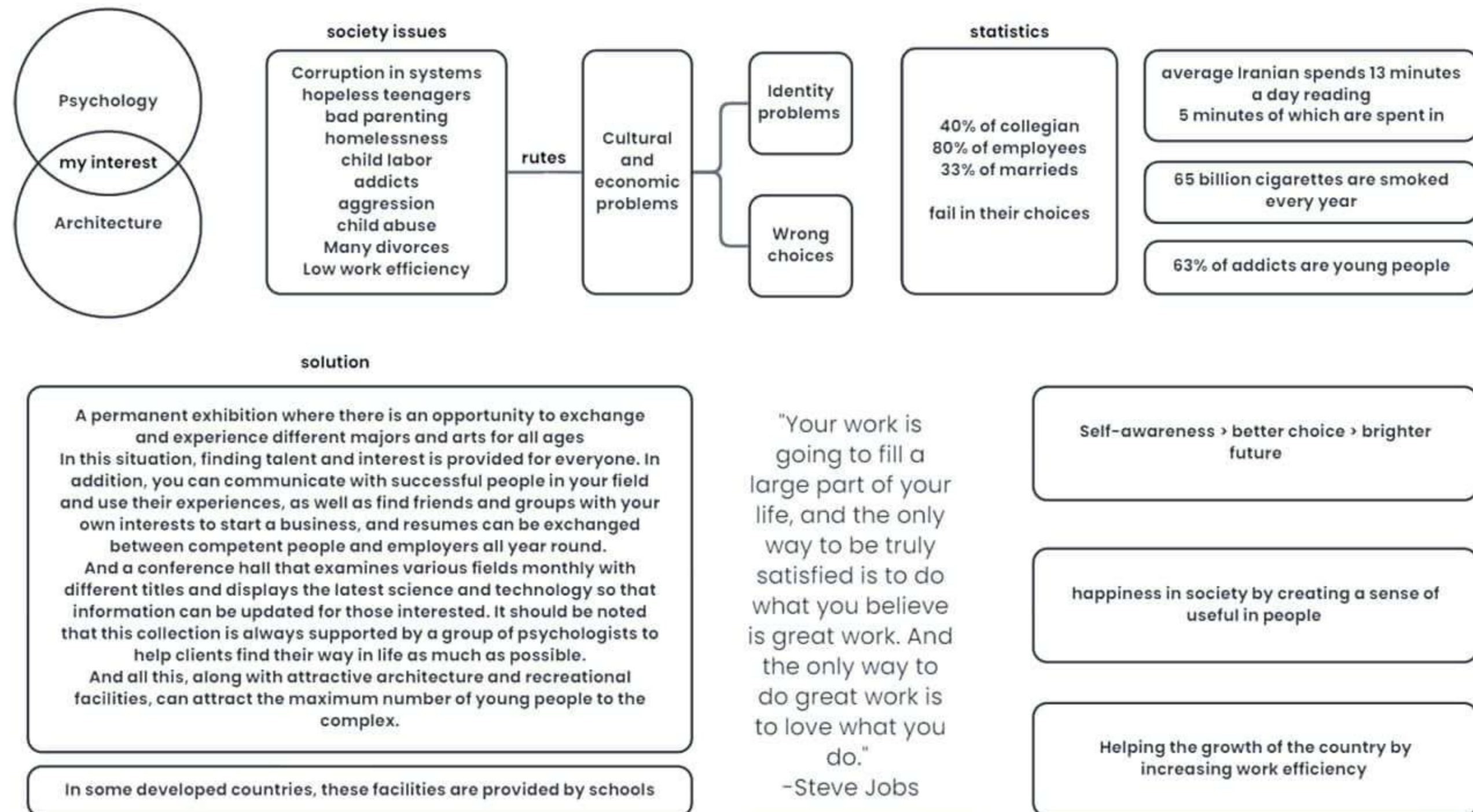
Advisor: Mr. Ataa Sadeghinejad

Software: Revit – Lumion





Why I chose this subject?



1. Entrance
2. Maze/Play ground
3. Walking line
4. Grenhouse
5. Outdoor cafe





As a national endeavor, this project represents a profound expression of Iranian identity. My aim was to blend traditional Iranian architecture with a contemporary aesthetic, thereby imbuing the structure with cultural significance. To achieve this, I drew inspiration from the iconic Shamseh, an eight-pointed star symbolizing the sun, revered throughout Iranian history. In addition, I incorporated modern arches reminiscent of Iranian Karbandi, forming the star's eight points. This design element symbolizes the concept of multiplicity in unity, a recurrent theme in Iranian arts, as eloquently articulated by the poet Saadi

Human beings are members of a whole"
".In creation of one essence and soul

The architectural centerpiece of the project is a glass dome akin to Norman Foster's iconic Reichstag dome. This dome encompasses four floors arranged in a ramp-like configuration. To support the dome's expansive width, a cable structure has been ingeniously integrated. At the dome's heart lies an atrium featuring lush vegetation and a cascading waterfall. This not only enhances the aesthetic appeal but also serves a functional purpose by moderating the interior climate, crucial in Tehran's hot and arid environment

In a departure from conventional exhibition designs, the booths within this space are meticulously crafted to harmonize with the overarching architectural concept. They follow a sinusoidal trajectory along the ramps, ascending gracefully. Positioned beneath the sinuses' apexes, these booths offer an immersive experience for visitors. Additionally, the recesses beneath the sinuses provide tranquil seating areas for relaxation

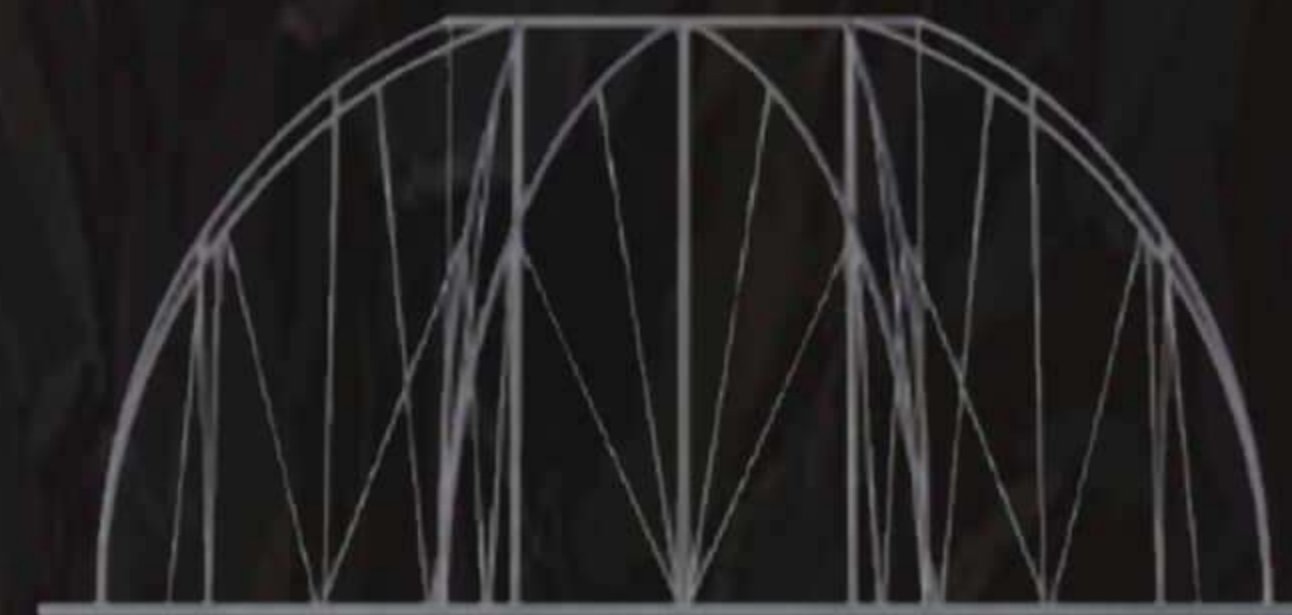
This multifaceted exhibition caters to diverse interests, encompassing educational, cultural, administrative, sales, entertainment, and culinary aspects. By offering a comprehensive array of experiences, it aims to attract a broad spectrum of visitors, fostering engagement and appreciation for Iranian culture and innovation



Axis plans



Cable structure plan



Cable structure elevation



Shamse (The sign of Sun)



Formation of ponds
(Combination of water and light)



Ramp floors



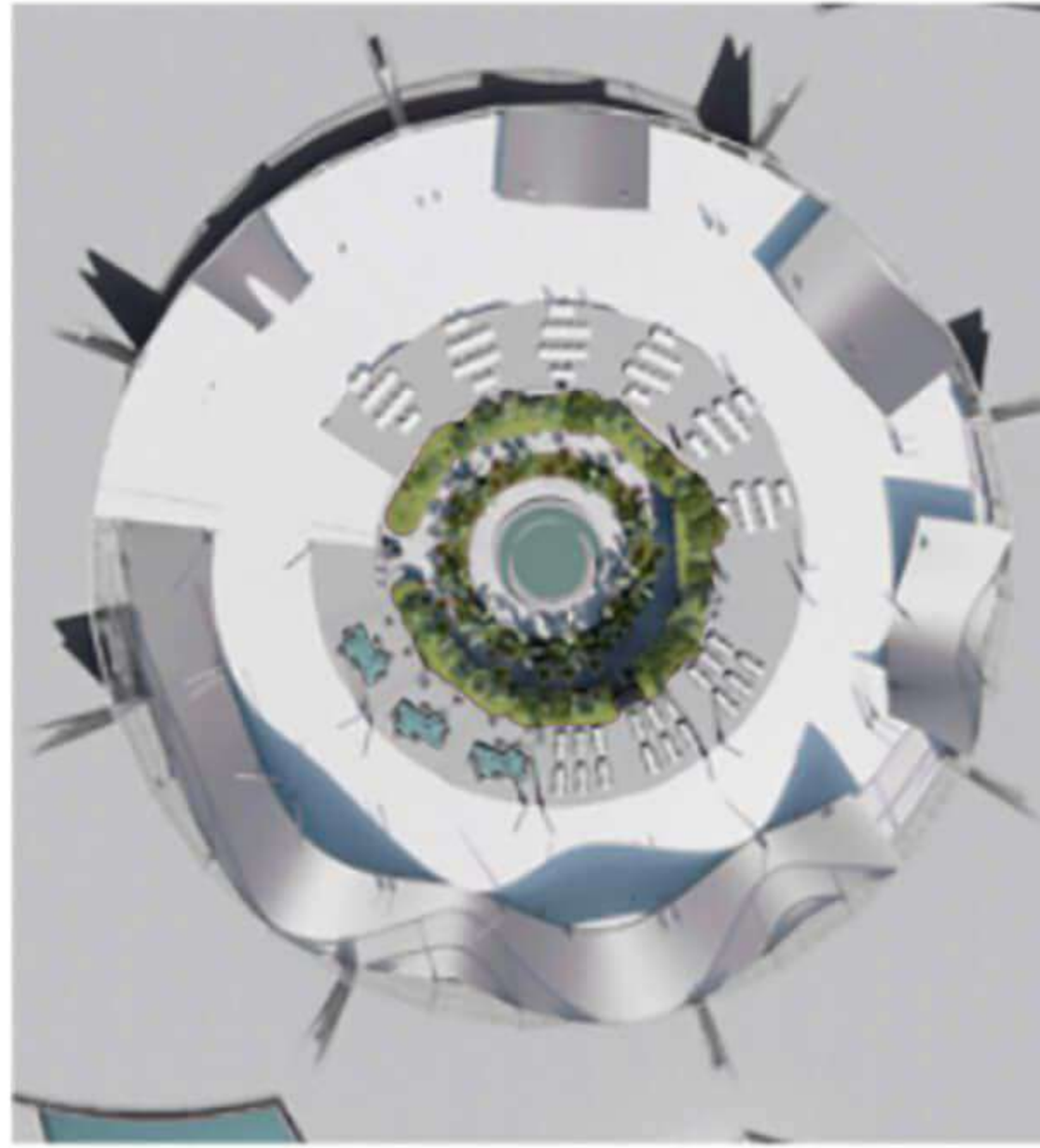
Booths structure



Dome structure



Arches



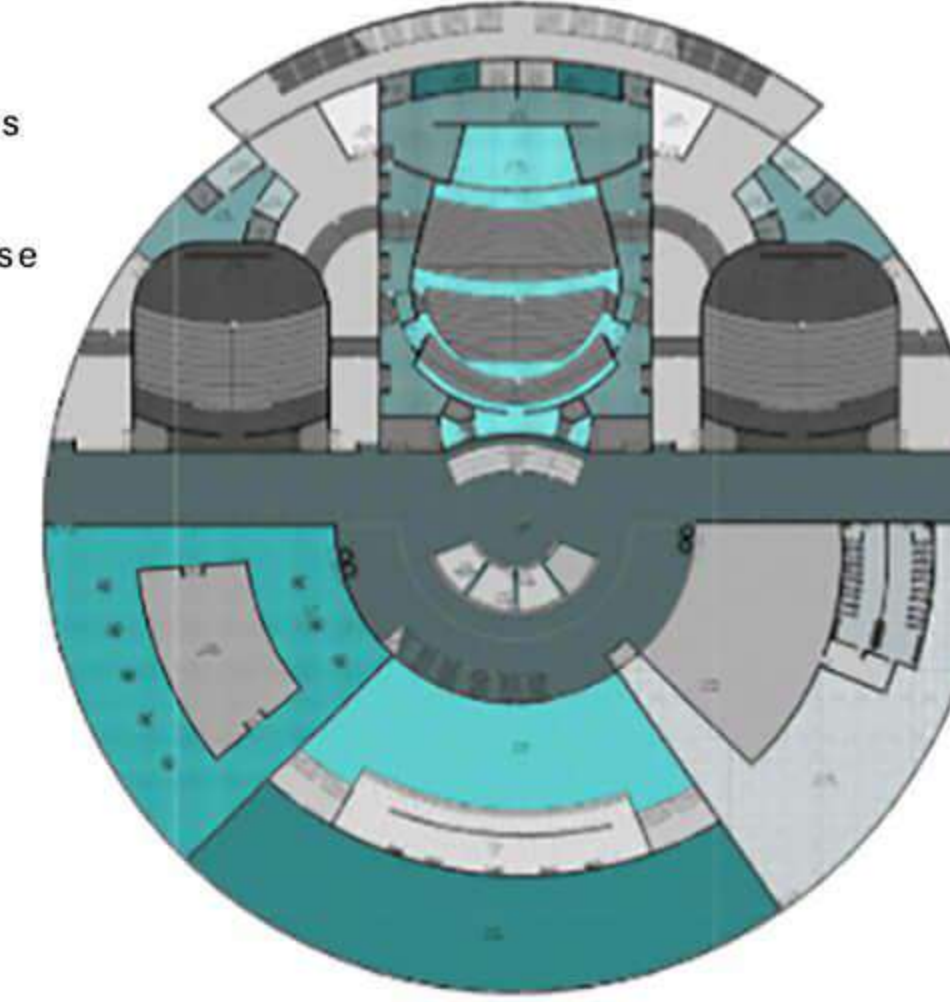
First floor 3D plan



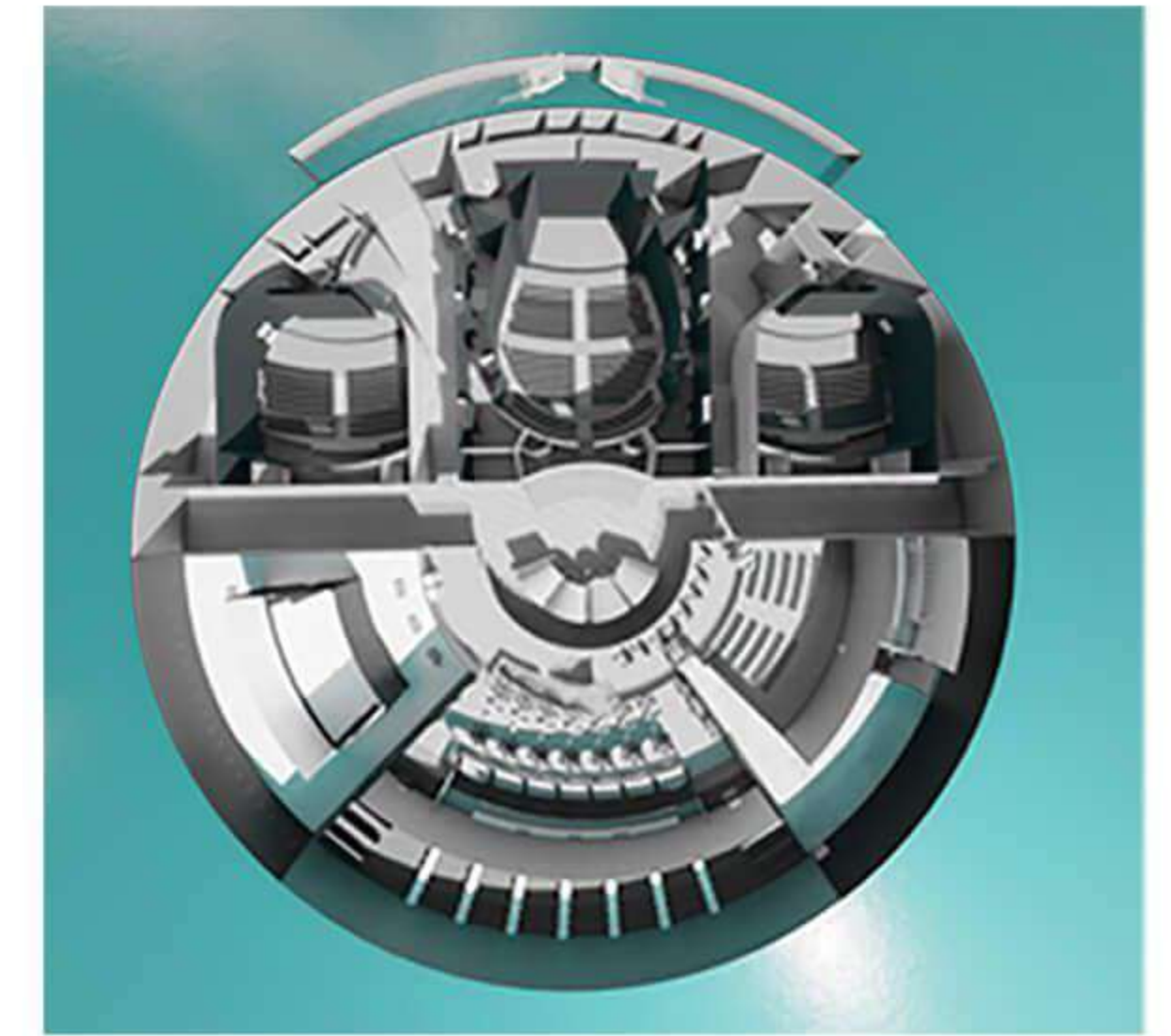
First floor plan

- Study area
- Computer lab
- Coworking space
- Lounge

- WC
- Make-up room
- Make-up room - clothes
- Smoking room
- Ticket counter
- Facilities and warehouse
- Dressing room
- Snacks counter
- 200 people show hall
- 500 seat theater
- Waiting room
- Studying room
- poetry cafe
- Lobby
- Backstage
- The cafe
- Gallery
- Dark Gallery

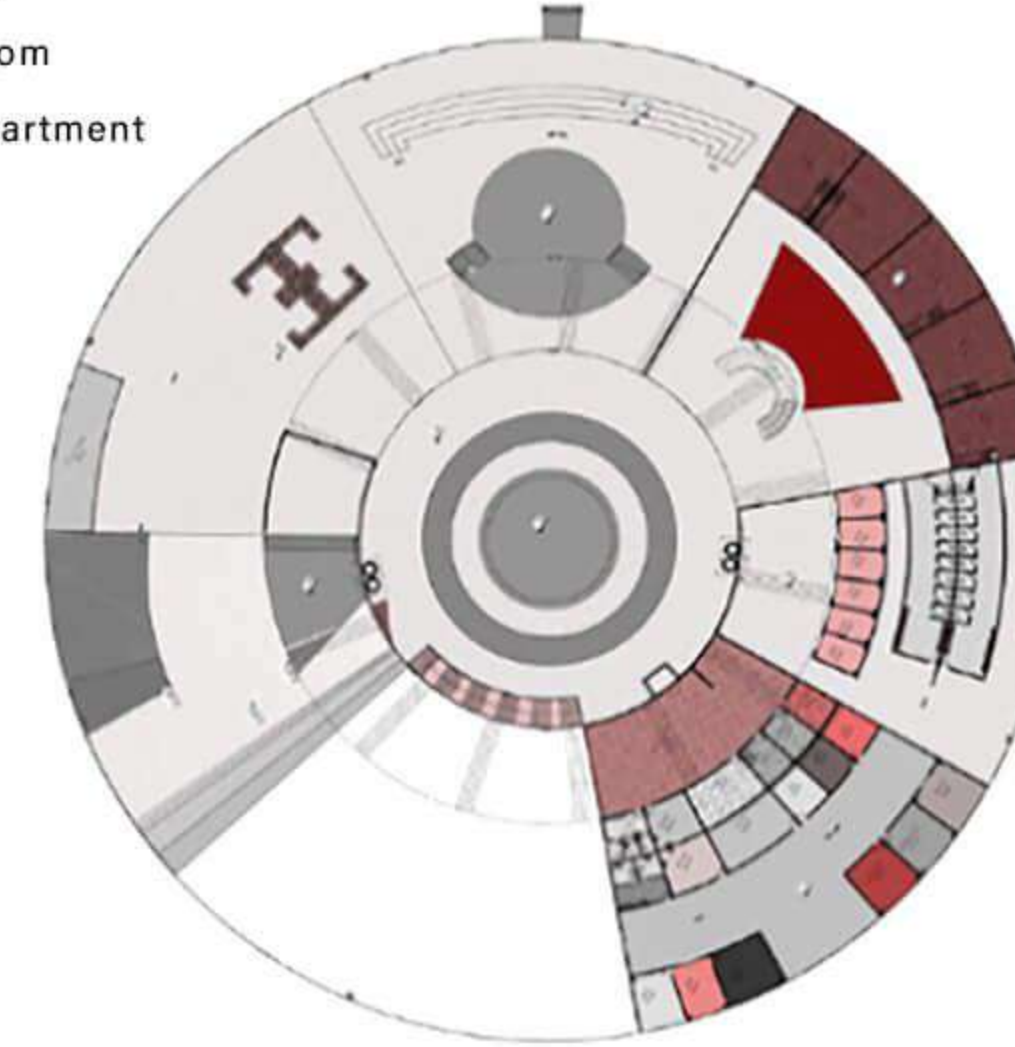


Basement floor plan

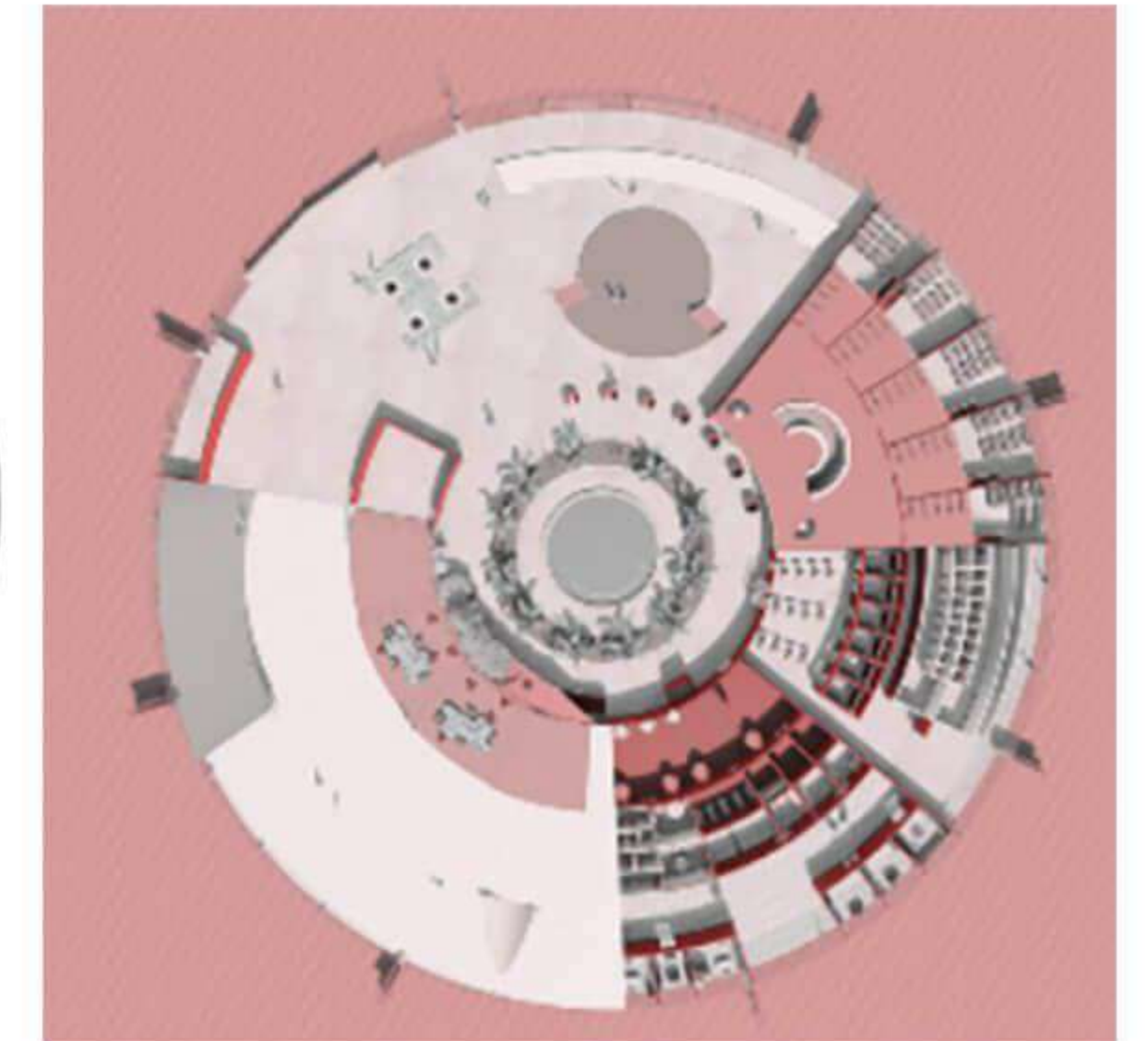


Basement floor 3D plan

- WC
- Pantry
- Kitchen
- Bedroom
- Laundry room
- Staff room
- Office
- Workers restroom
- Information desk
- Children playground
- Archive room
- Game equipment room
- Locker room
- Public relations department
- Server room
- Management
- Counseling
- Assistance
- The Secretary
- Prayer room
- Printing room
- Class



Ground floor plan



Ground floor 3D plan

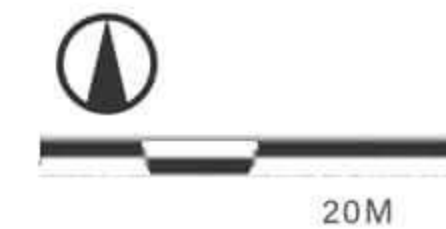


Third floor 3D plan



Third floor plan

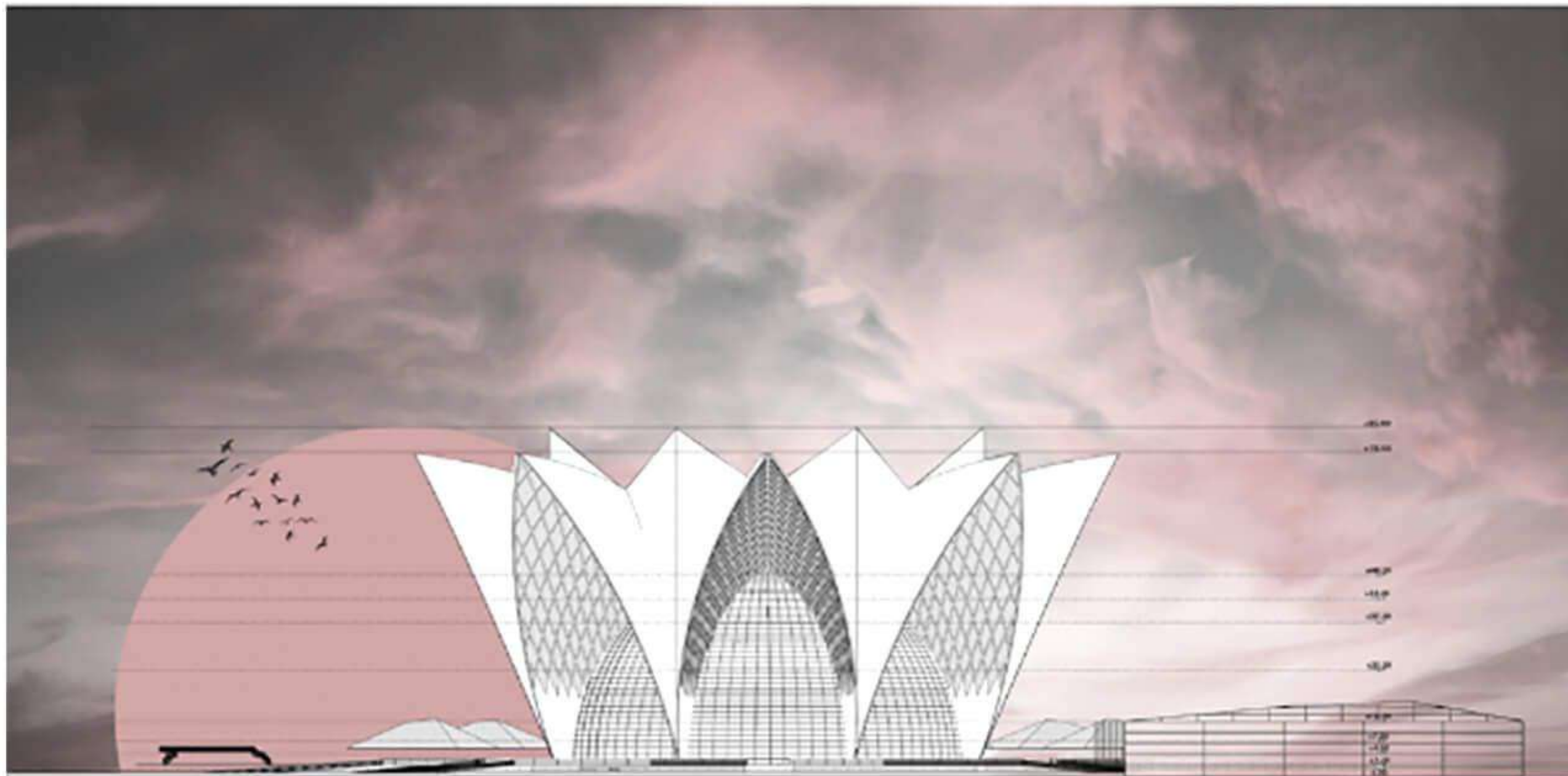
- Lounge
- Store





SECTION

This section showcases the atrium, designed to facilitate convection currents, which efficiently replace warm interior air with cooler, fresher air. Additionally, rainwater is ingeniously utilized to nourish the waterfall and surrounding plants, enhancing sustainability and natural ambiance.



EAST ELEVATION



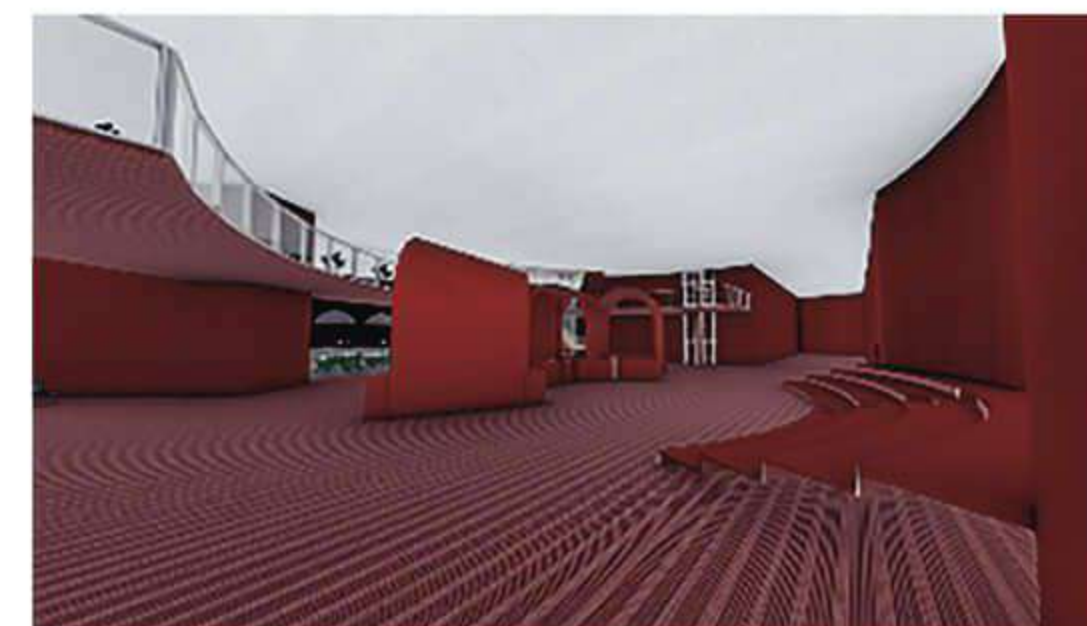
Ramps



Atrium
(waterfall)



Cafe



Cinema lobby



Outdoor cafe

02

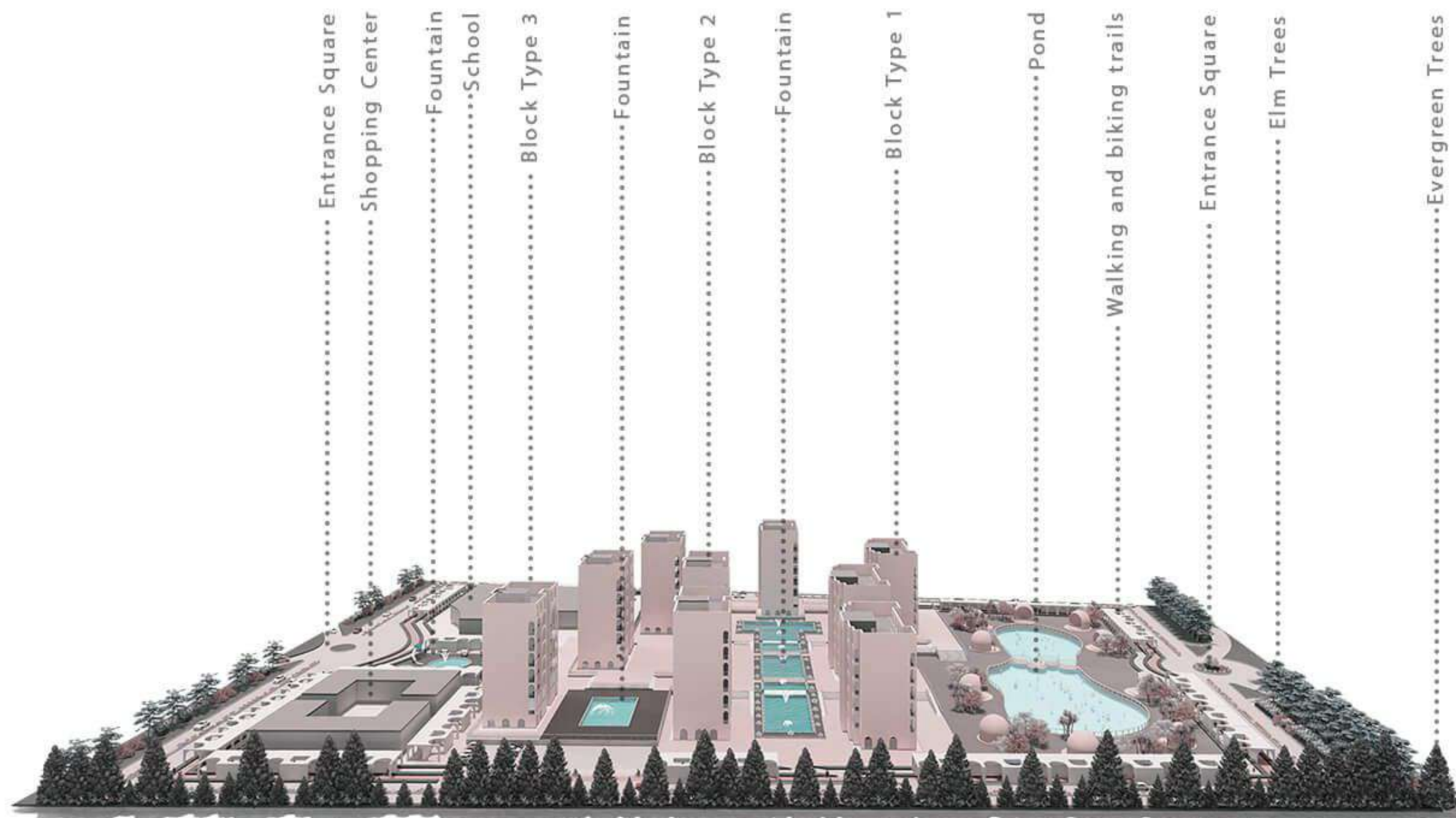
RESIDENTIAL COMPLEX

This project involved designing a residential complex within a busy urban environment characterized by a dry-summer subtropical climate. The key challenge was to address the limitations of the site, including:

Limited green space: The surrounding area lacked natural elements, impacting residents' well-being and air quality. Sound and air pollution: Traffic noise and air pollution presented significant health and environmental concerns. Disturbing elements: Hot summer winds from the south, disturbing sunlight from the west, and noise pollution from the west further complicated the design process.

Location: Gharb Town, Tehran, Iran
Building type: Residential
Area: 30,000 m²
Subject: Design studio, semester 8
Supervisor: Dr. Mostafa Nooreddin
Software: Revit – Lumion



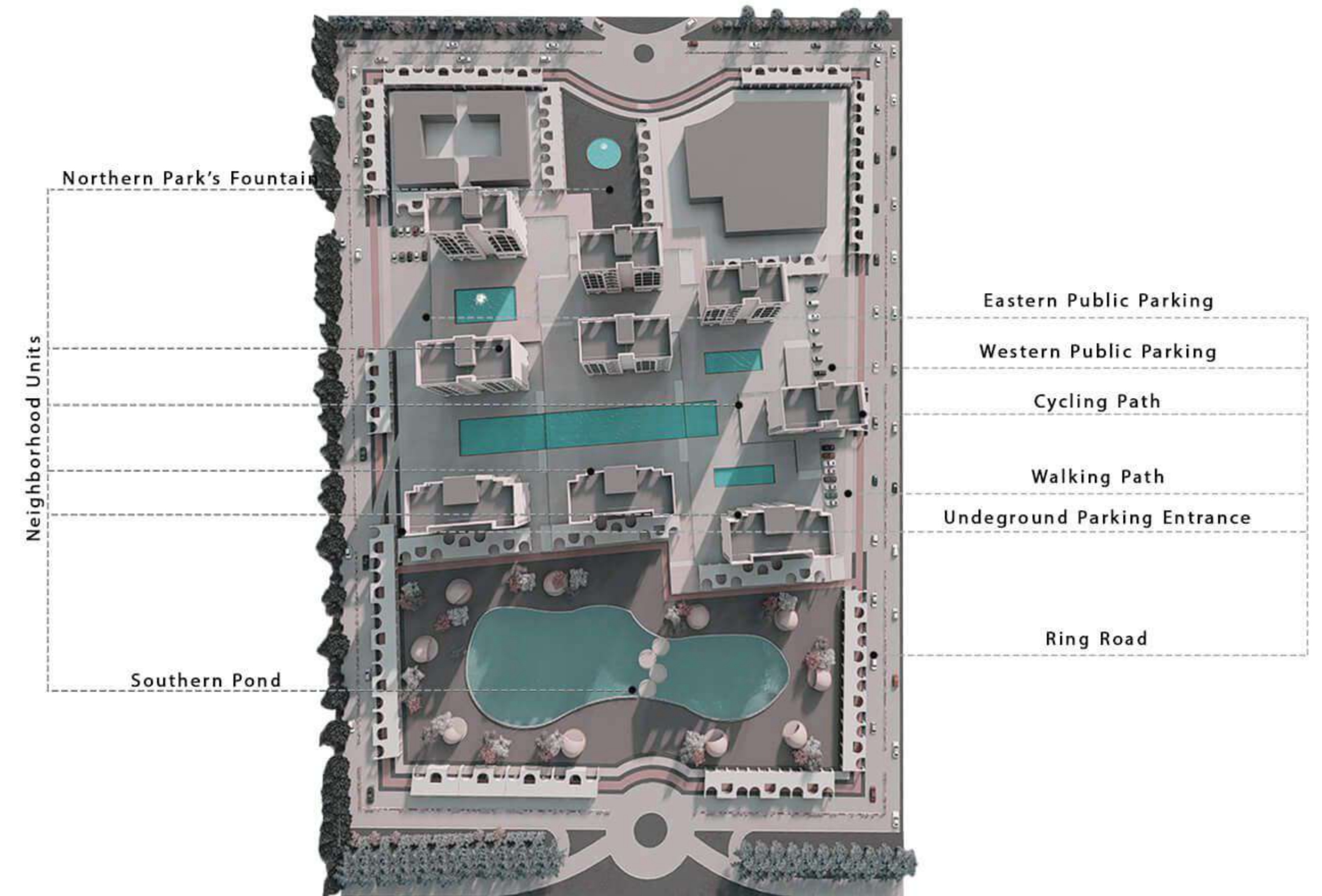


Fostering Community and Climate Solutions

The design prioritizes both resident well-being and climate mitigation:

South Lake: This shared space fosters a sense of community and acts as a buffer zone, mitigating sound and air pollution from the west.

Strategic vegetation: Evergreen trees in the west provide year-round shade and wind protection, while deciduous trees in the south offer seasonal shade.

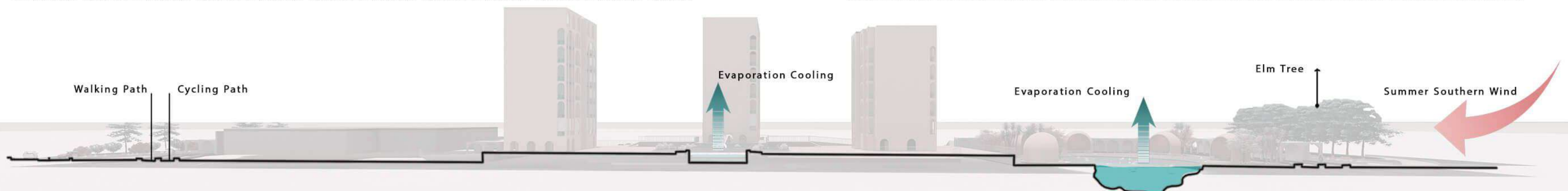


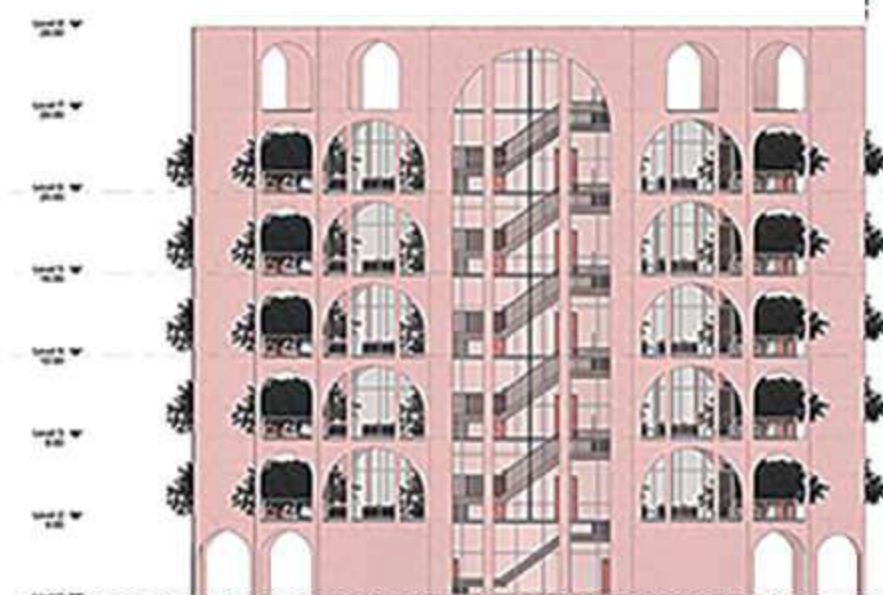
Prioritizing Sustainability

A car-free environment promotes a healthier lifestyle:

Underground parking and walk/cycle lines: Removing cars through a ring road and underground parking prioritizes pedestrians and cyclists, reducing pollution and encouraging activity.

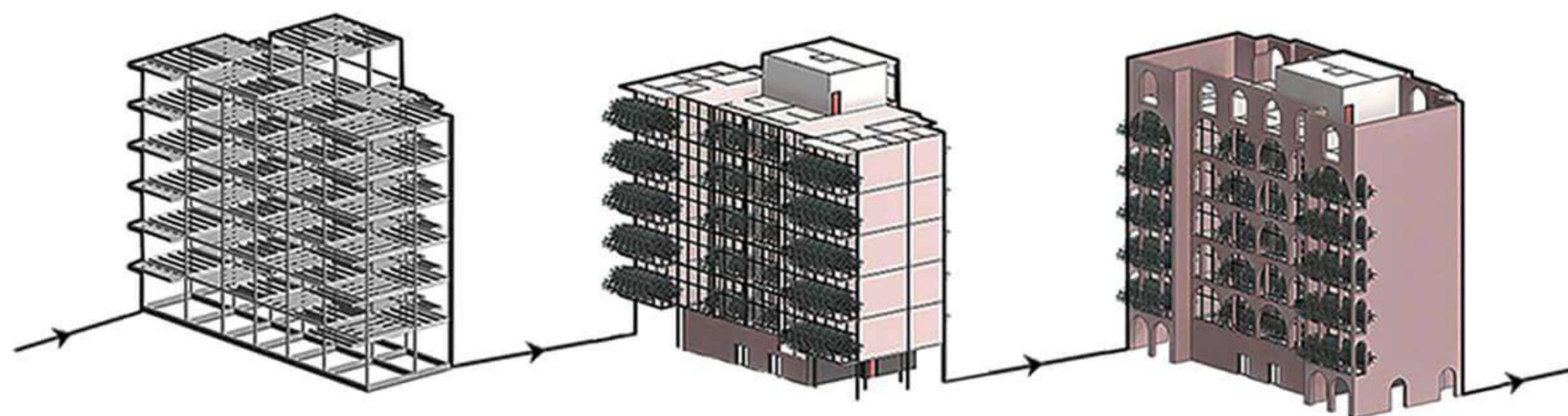
Enhanced environment: The car-free design, coupled with the lake and vegetation,





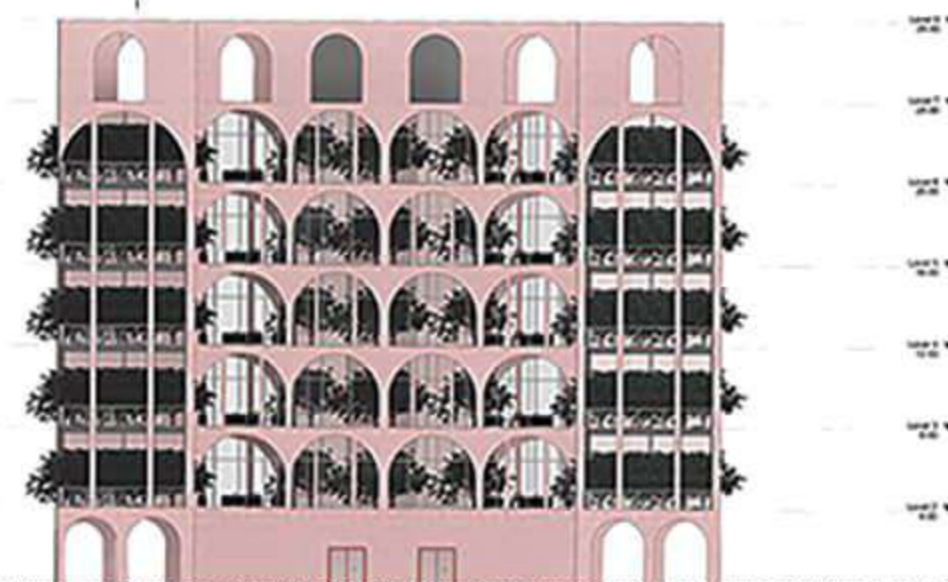
Unit Mix: Recognizing the diverse needs of urban residents, the complex offers a variety of unit types to cater to individuals, couples, and families. This includes:

- 30 three-bedroom units: Perfect for families or larger households seeking spacious living.
- 25 one-bedroom units: Ideal for individuals or couples desiring a smaller, efficient living space.
- 45 two-bedroom units: Offering a balance of space and affordability for couples, families, or roommates.

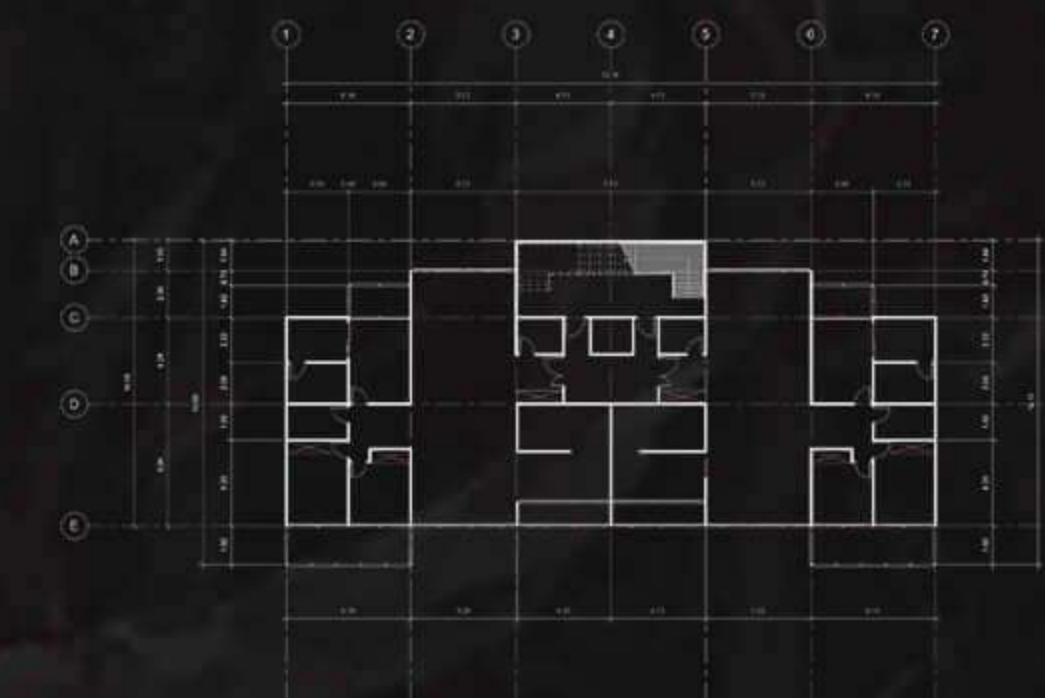


Block Organization: To accommodate this diverse selection, the complex is divided into nine distinct blocks:

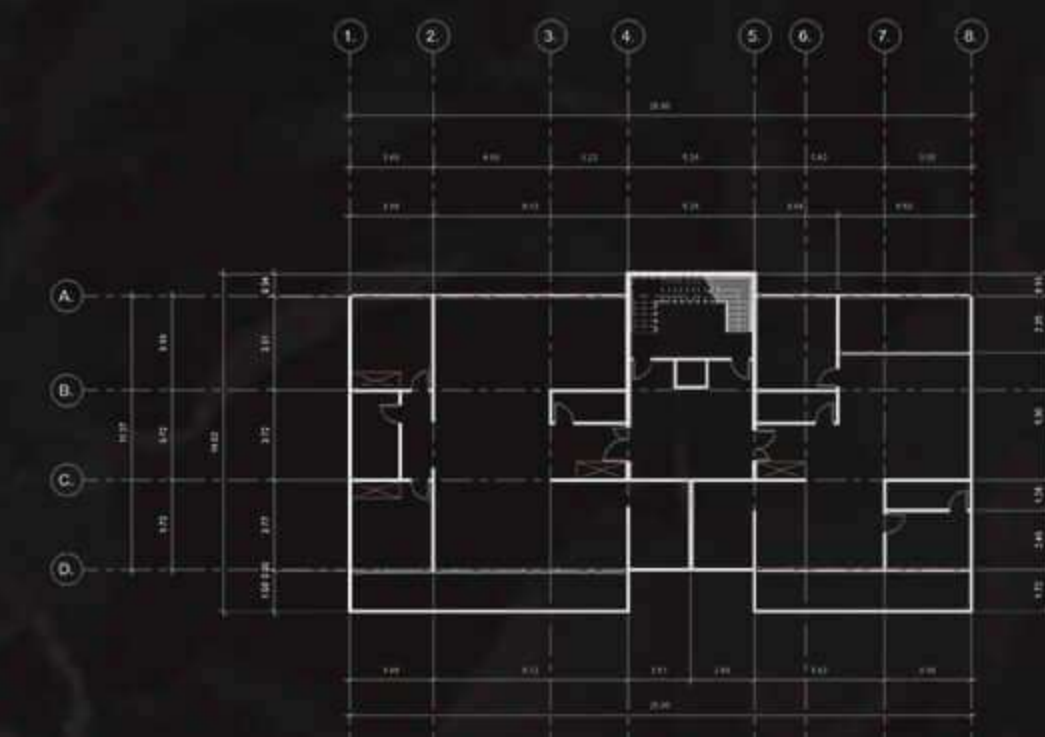
- Type 1: Each block houses two units, both featuring three bedrooms.
- Type 2: Each block houses two units, with one unit offering two bedrooms and the other a single bedroom.
- Type 3: Each block houses two units, both featuring two bedrooms.



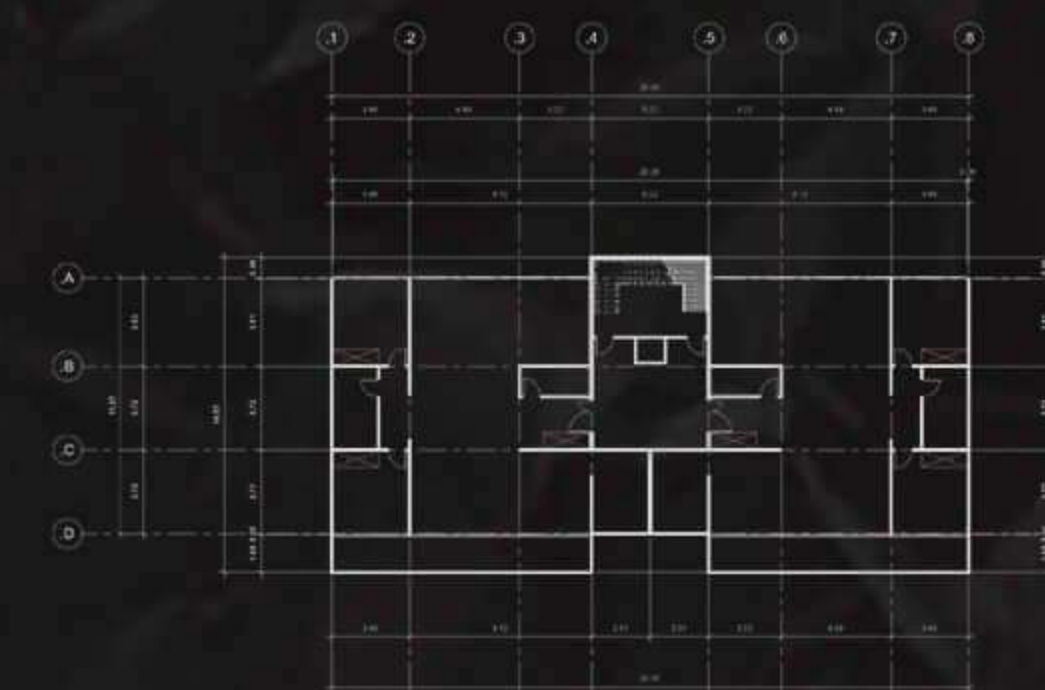
Type 1



Type 2



Type 3



- Living room
- Bedroom
- Staircase
- Dining room
- office
- entrance
- Walk-in closet
- Lobby
- Kitchen
- WC

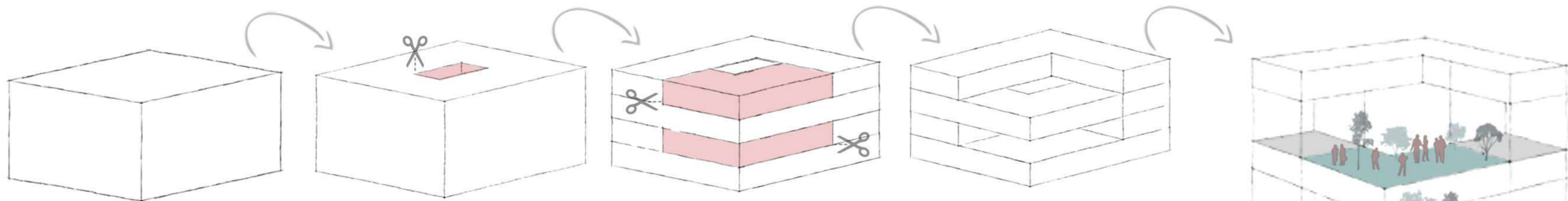
03

DAY CLINIC

In the heart of Tehran's bustling Gheydariyeh district, our Day Clinic emerges as a response to the challenges of urban healthcare. Confronted with noise, pollution, and the stress of city life, our architectural endeavor seeks to create a sanctuary where healing transcends the physical realm. Our design journey begins with an exploration of these challenges, aiming to redefine the conventional clinic experience and foster a sense of peace and tranquility for patients.

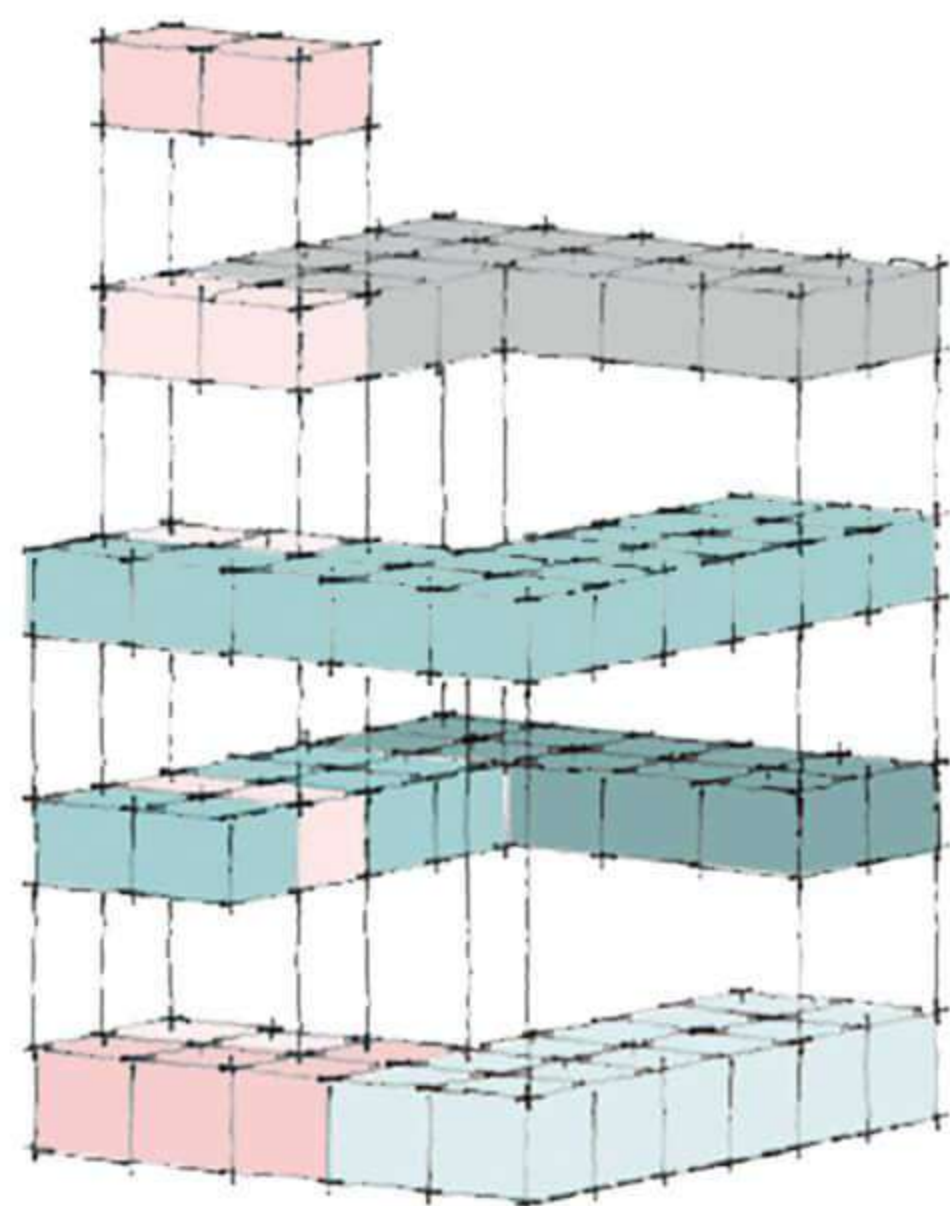
Location: Pardisan park, Tehran, Iran
Building type: exhibition
Area: 30,000 m2
Subject: Design 4, semester 9
Supervisor: Dr. Behrouz Ghafourian
Software: Revit – Lumion





Our architectural vision is realized through modular cubes, each carefully crafted to house specific functions within the clinic. Measuring 7.20 by 7.20 meters, these cubes form the building blocks of our design, allowing for efficient organization and seamless integration of various spaces. Through strategic clustering, we create dynamic 3D compositions that invite exploration and discovery, enriching the architectural experience.

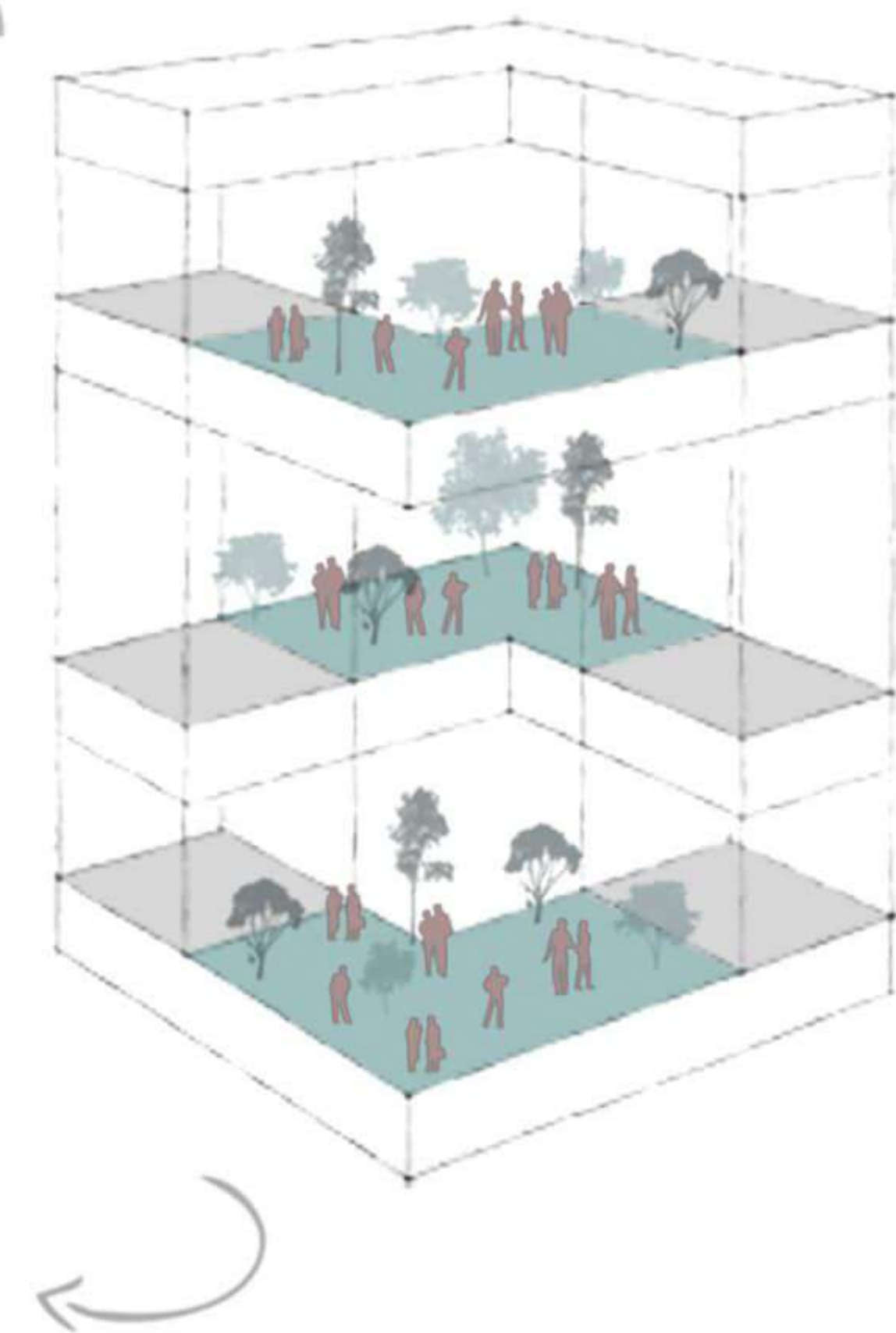
Nature and Building: At our Day Clinic, nature intertwines seamlessly with architecture, offering solace and serenity at every turn. Each floor features a unique blend of green spaces integrated within the building structure. Two L-shaped configurations, one representing the building and the other a lush green area, combine to form a harmonious cube.



- Surgical Procedures
- Outpatient Treatment
- Inpatient Rooms
- Staircase
- Hall and Reception
- Administrative



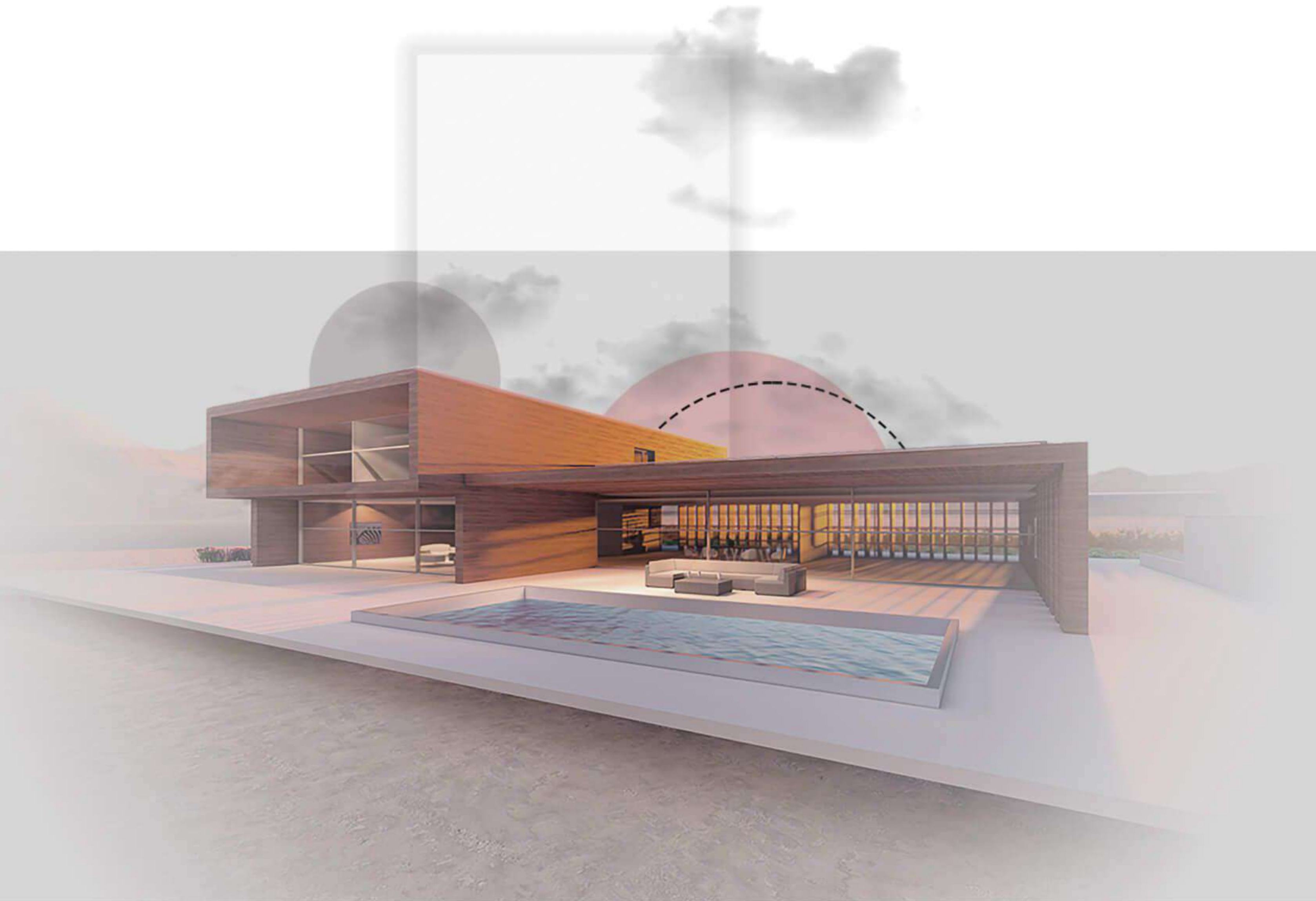
This innovative approach not only maximizes space efficiency but also infuses every floor with the rejuvenating presence of nature. From rooftop gardens to verdant atriums, our green areas serve as sanctuaries for patients, providing moments of respite and connection with the natural world. By enveloping patients in a cocoon of greenery, we aim to alleviate stress, promote mental well-being, and enhance the healing process. Our commitment to psychology-informed design ensures that every aspect of our clinic resonates with the therapeutic power of nature, transforming the traditional clinical setting into a haven of calm and restoration.



04

Choopanan Vilage

My architecture studies took a meaningful turn in Choopan village, Isfahan. Here, I designed a sustainable development plan. Through interviews and village surveys, I understood the community's needs and culture. The design focused on sustainable housing, infrastructure, and economic opportunities that leveraged local strengths. This project, emphasizing empathy in design, instilled in me the importance of creating spaces that improve lives and empower rural communities



Location: Chopanan, Isfahan, Iran
Subject: Rural Architecture, semester 5
Supervisor: Dr. Seyyed Bagher Hosseini
Software: Revit – Lumion

Development Plan for the Most Organized Adobe Village in the World

Location: Southeast of the village, incorporating some fallow land.

Expansion Area: 6 hectares.

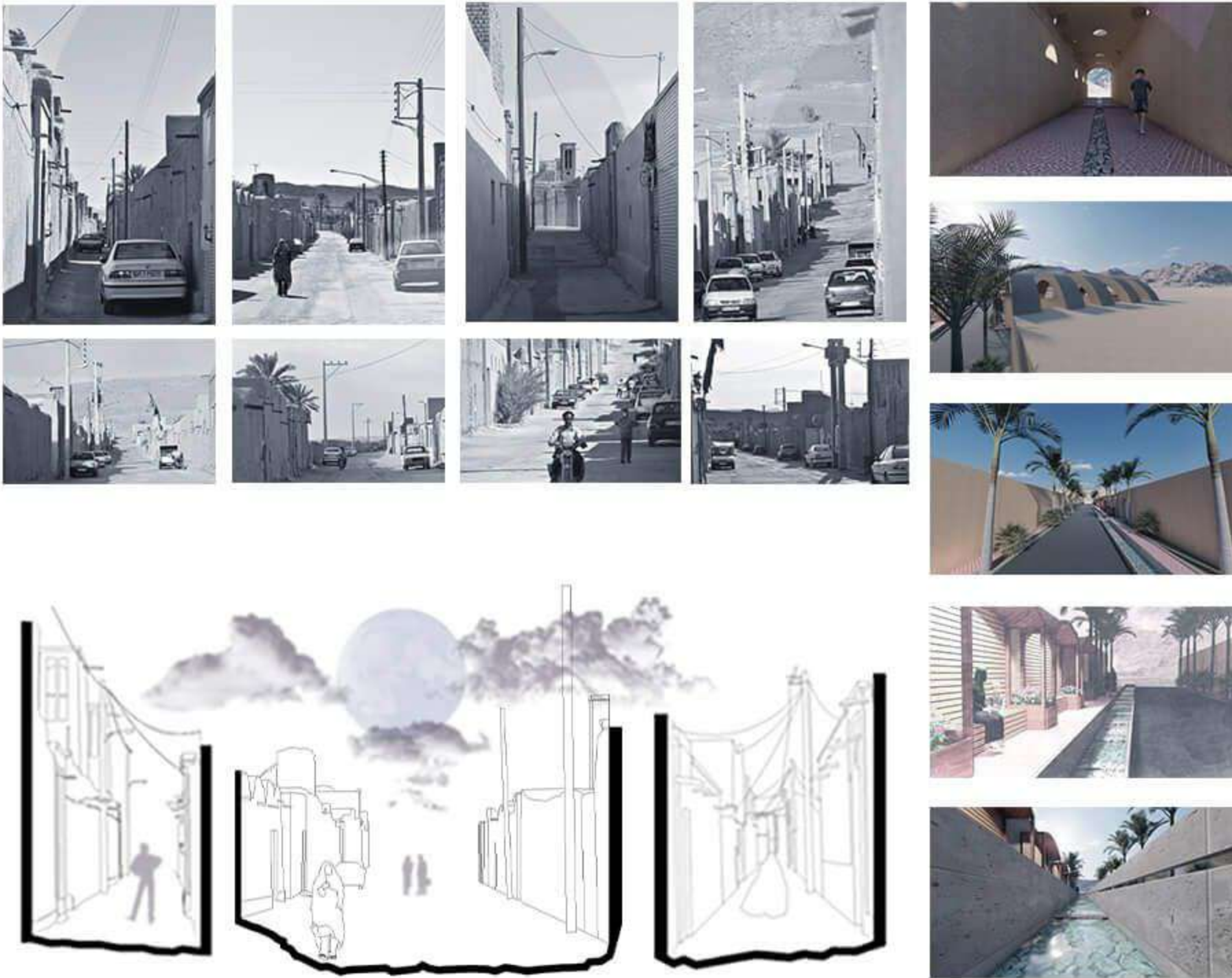
Design Considerations:

Maintain village's chessboard street pattern.
Create 16 neighborhood units divided into two neighborhoods.
Prioritize pedestrian safety with separate pedestrian and vehicle zones.
Integrate social spaces like parks, playgrounds, and gathering areas.
Manage parking with designated spaces on the north and south ends.
Utilize vegetation for aesthetics and dust control.
Implement sustainable practices with surface water collection.

Key Features:

Educational Hub: High school and middle school in each neighborhood serving choopanan and surrounding villages. (Southern school - for girls, Northern school - for boys)
Commercial District: Shops like bakeries, butchers, and grocery stores within each neighborhood.
Centralized Transit: Bus terminal in the south for easy access from nearby villages.
Pedestrian (axis): Wide pedestrian walkway with a bicycle path, shops, cafes, and recreational areas.
Connection:

Integrated with the existing bypass road and village fabric through various road classifications.



Now

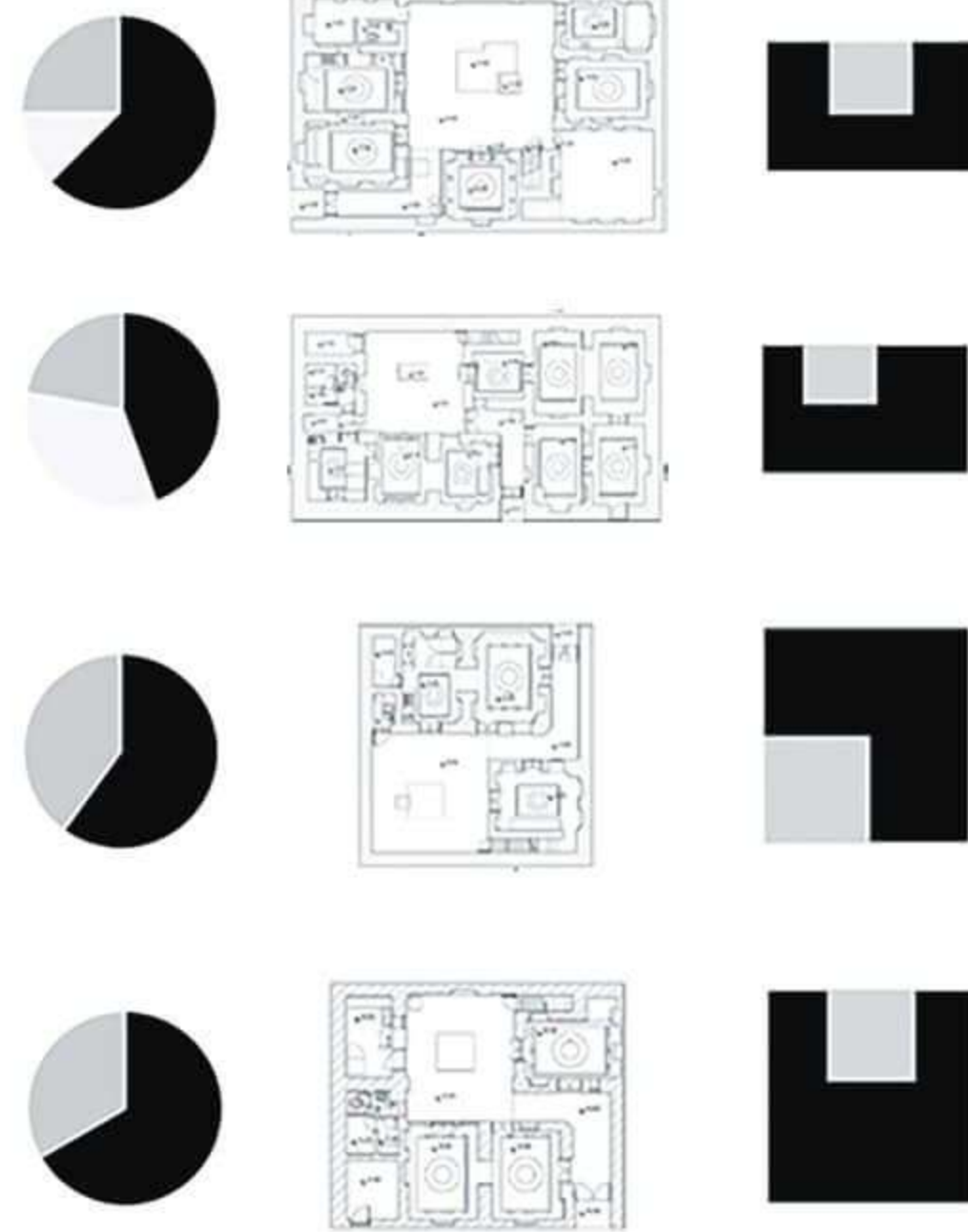
Then



- Installation of canopy-shaped shelters to provide shade for pedestrians.
- Segregation of pedestrian and vehicular pathways. Installation of benches along pedestrian walkways for seating.
- Implementation of barriers to prevent flooding and enhance visual and auditory aesthetics.
- Planting of shade-providing vegetation along the pathways.
- Establishment of public parking areas to prevent vehicles from entering narrow streets.
- Designation of narrow streets exclusively for pedestrian use.

My analysis of rural houses identified a key opportunity to improve functionality despite underutilized space. While most homes favored an east-west orientation for natural light and a three-sided central courtyard for community, their layouts resulted in wasted space. Reorganizing the interior and strategically incorporating bathrooms within the main structure could significantly enhance usability. This data-driven approach paves the way for sustainable design solutions that better suit the residents' needs.

- residential
- subsistence
- service



Building Status: Rented
Livelihood: Carpet Weaving
Seniority: 70
House Owner: Mr. Anqa
Number of Residents: Three
Building Area: 210 square meters
Site Area: 252 square meters

Building Status: Rented
Livelihood: Rug weaving
Seniority: 70 years
House Owner: Ms. Ghanei
Number of Residents: 2
Building Area: 170 square meters
Site Area: 234 square meters

Building Status: Owned
Livelihood: Retired
Seniority: 70
House Owner: Mr. Eskandar
Number of Residents: 4
Building Area: 95 square meters
Site Area: 131 square meters

Building Status: Owner
Livelihood: Worker
Seniority: 70
House Owner: Mr. Dadi
Number of Residents: Four
Building Area: 96 square meters
Site Area: 126 square meters

House 1: Traditional Renovation

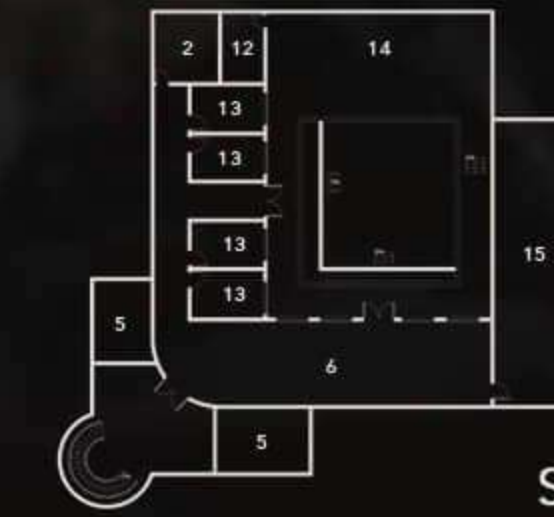
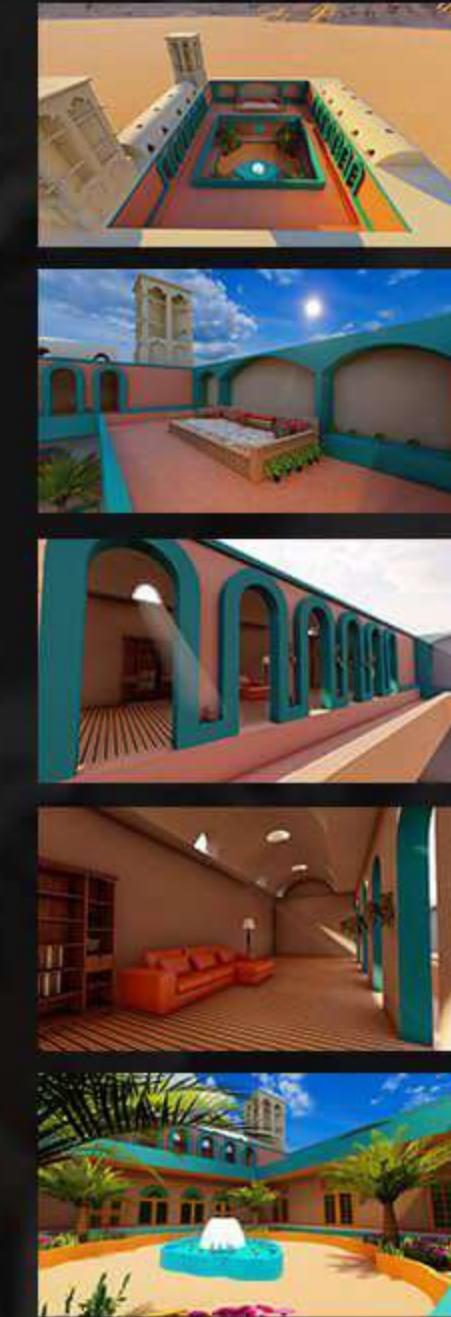
This house is designed in a traditional style, preserving the overall shape of rural houses. By upgrading the design within the same framework, this house is suitable for a family of 5. Spaces such as a workshop, stable, porch, and storage room are included in this house, which can meet the livelihood needs of a family.

House 2: Modern Design

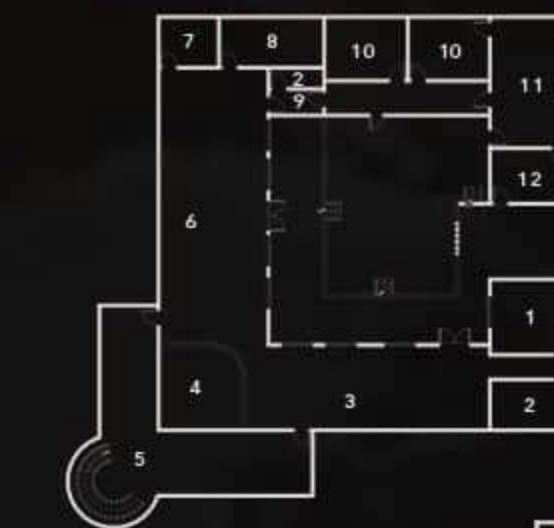
This house is designed with the aim of improving the quality of rural life and meeting the new needs of society. This design seeks to create a balance between the quality of rural and urban life and ultimately to preserve and attract population in villages.

This house is also suitable for a family of 5 and includes spaces such as a stable, porch, and storage room. In addition, there is a large greenhouse on the south side of the house that can meet the livelihood needs of two households.

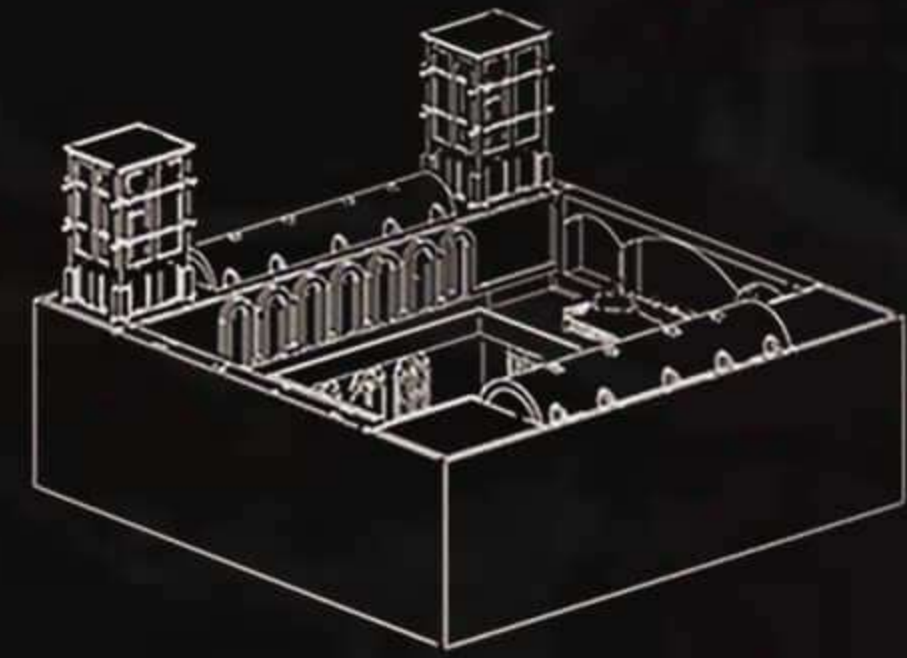
Traditional house



Second floor



First floor



1. Guest Room
2. Bathroom and Toilet
3. Reception Room
4. Kitchen
5. Patio
6. Living Room
7. WC
8. Workroom
9. Dressing Room
10. Stable
11. Porch
12. Storage
13. Bedroom
14. Rooftop Terrace
15. Balcony

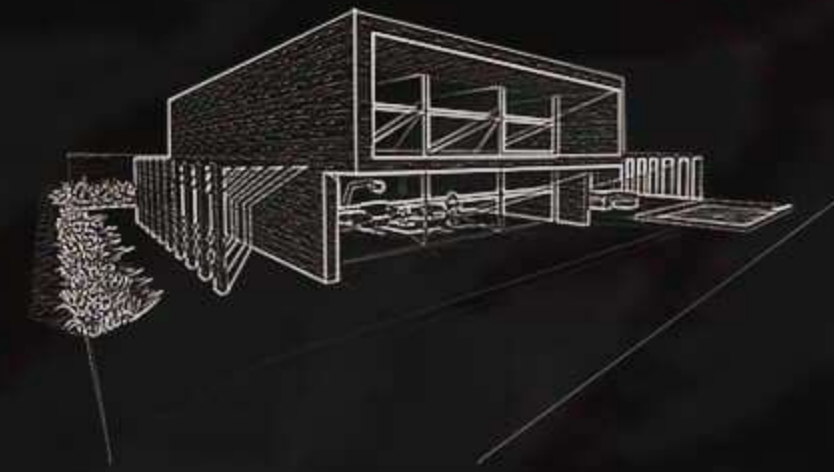
Modern house



Second floor



First floor



1. Living Room
2. Kitchen
3. Bathroom
4. Dining Room
5. Guest Room
6. Swimming Pool
7. Greenhouse
8. Stable
9. Storage
10. Porch
11. Dressing Room
12. Bedroom
13. Closet
14. Bathroom and Toilet
15. Terrace

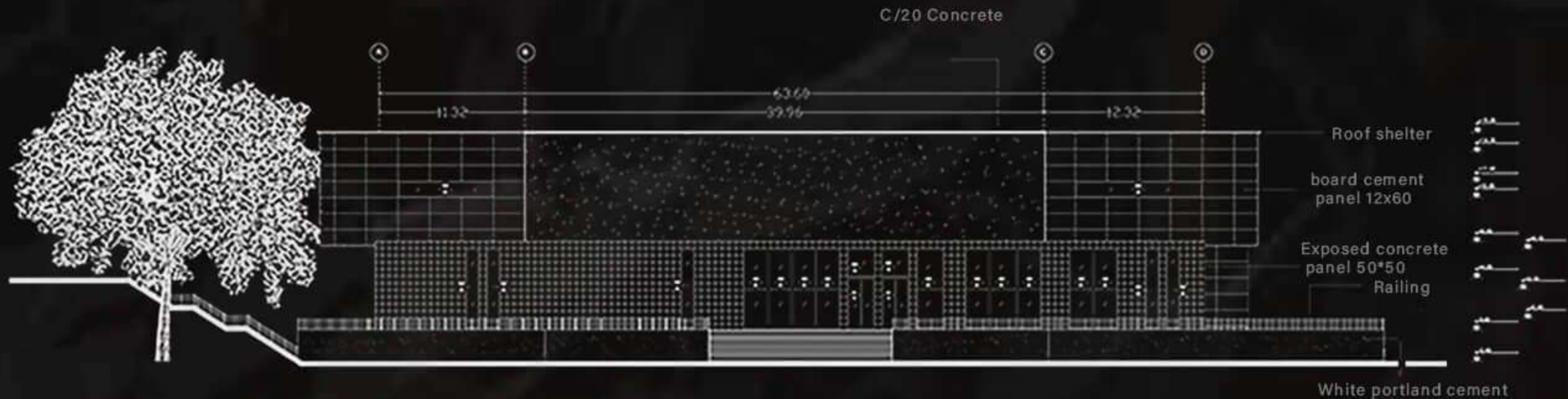
Cultrual Center

Location: Heravi, Tehran, Iran
Building type: cultural
Subject: Technical Design (phase 2), semester 8
Supervisor: Dr. Ahmad Ekhlasi, Mr. Siamak Badiiee
Software: Revit - AutoCAD

Group work of 4 people
(I was the leader)

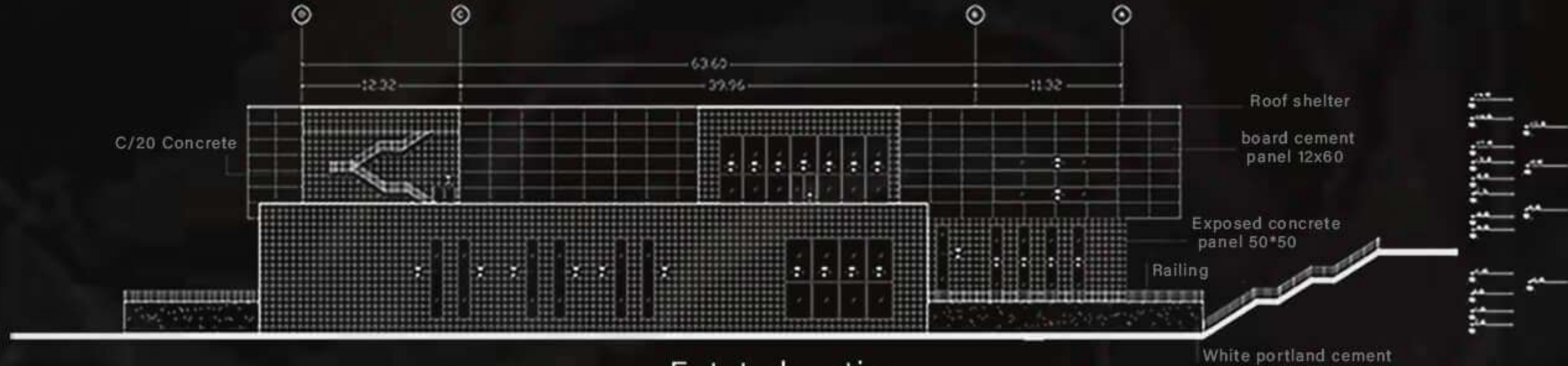
According to the use of the building
Native materials of Iran
and the earthquake-proneness of the city

1.Choosing the type of structure
2. designing: Foundation-column-
Beam-Roof structure-Flooring-...
3.Executive details: Building facades-
Walls-Connections-...



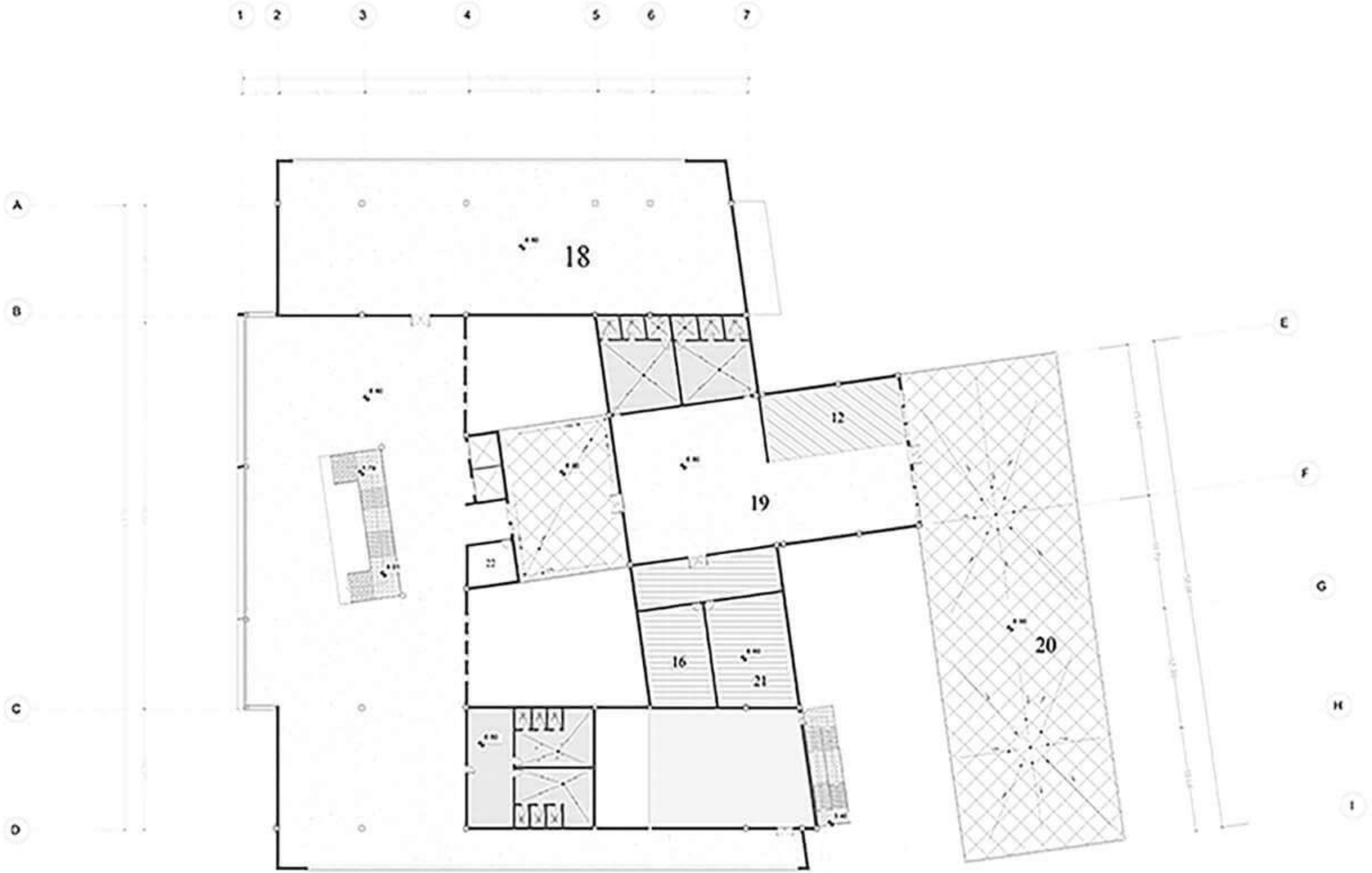
West elevation

10 M



Eatst elevation

10 M

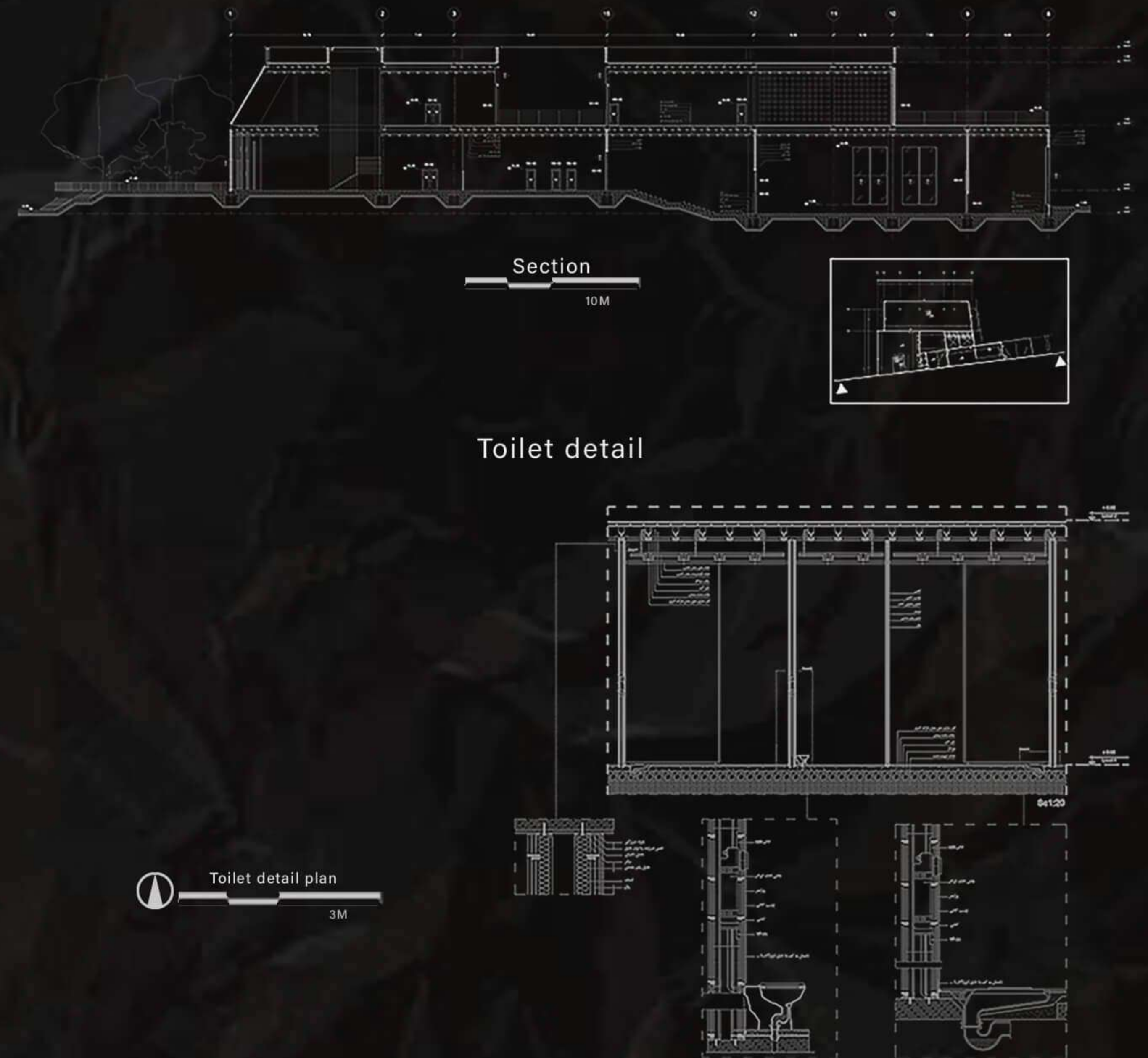
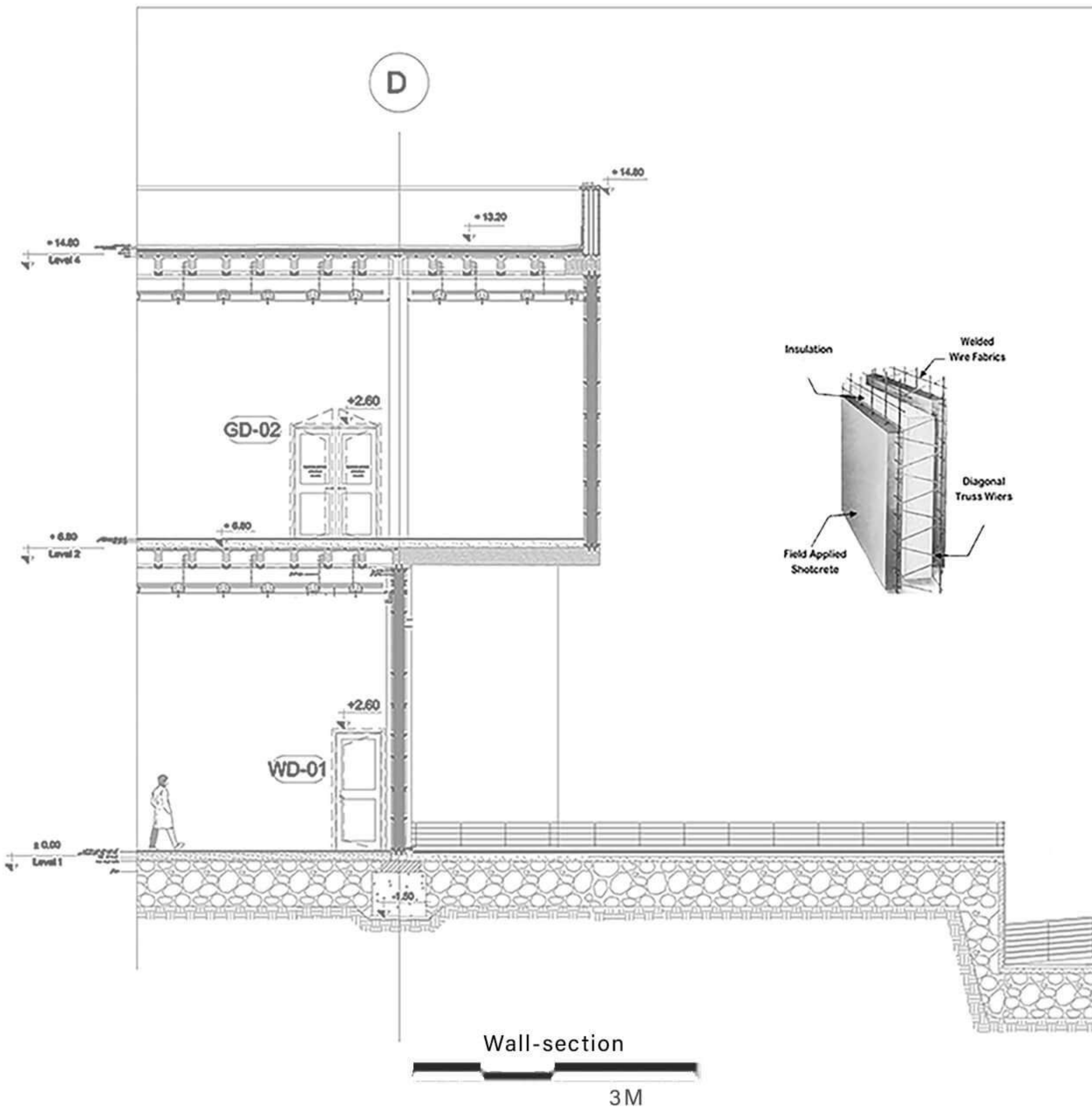


- 18. Gallery
- 19. Store
- 20. Open air cafe
- 21. Security counter
- 22. Information counter

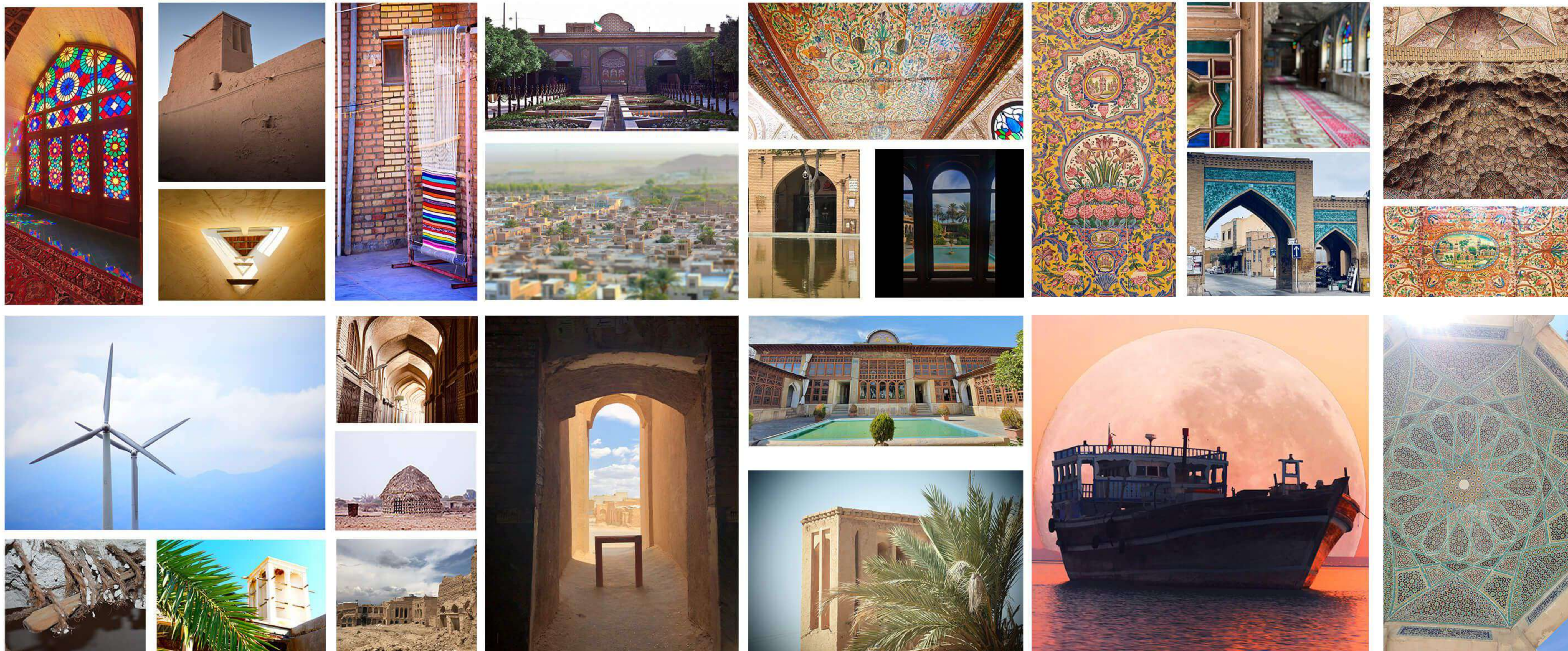
- Epoxy flooring - lobby
- Stamped concrete - yard
- Carpet - theater
- Tabriz tile - bathroom
- Pebble Izogam - Bam
- Natanz white granite - Farar stairs
- Iranian mosaic - engine room
- Ceramic tile - kitchen
- Crystal Laibid - Terrace
- Porcelain ceramics - administrative and educational
- Exposed concrete - internal stairs

First floor finishes plan

10 M



Photographies



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