



p o r t f o l i o

n i m a v a k i l i

2 0 0 5 - 2 0 1 0

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Tehran Intl. Secondary Art School

Course Name:

Architectural Design III

Semester:

Spring 2009

4th year of Bachelor's program

Project Objective:

Design of a secondary art school for 150-200 students

Given Site Location:

Tehran, Shahrak-e Gharb

Instructors:

Dr. H. Mazaherian

Dr. Gh. Motallebi

Dr. Gh. Eslami

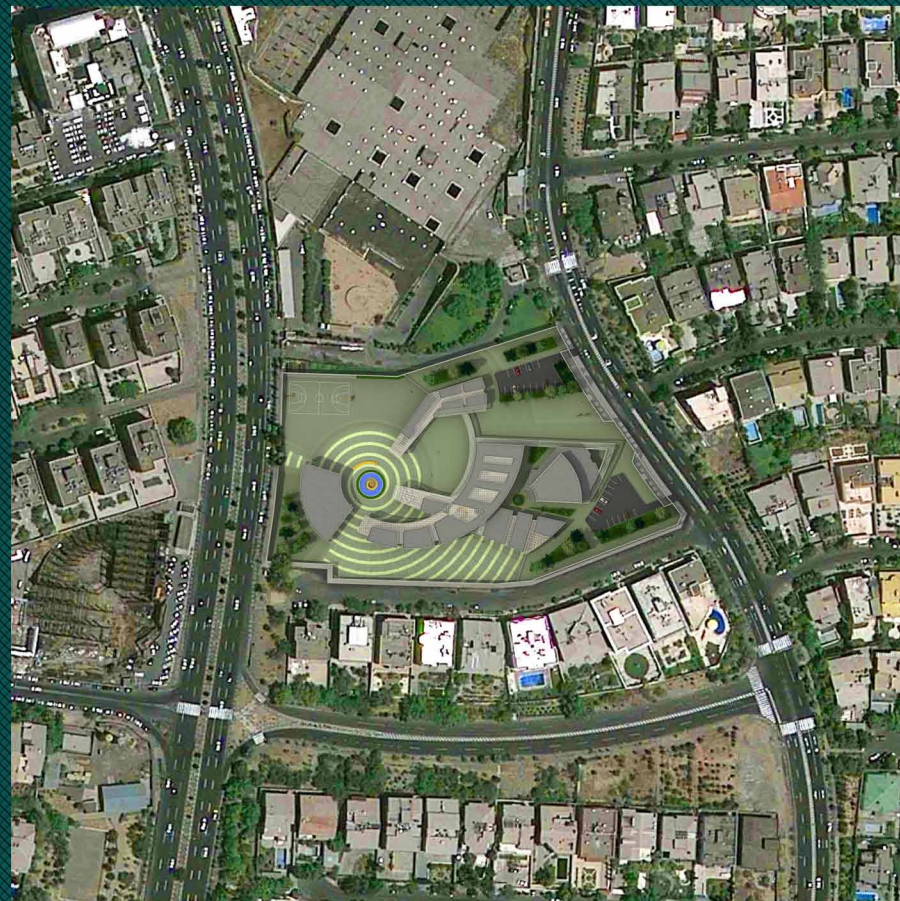
Dr. A. Farzin

Design Aims:

Influence of the site and accesses on the project

Achieving the best setting of functions

Relation between form and function





Site Plan



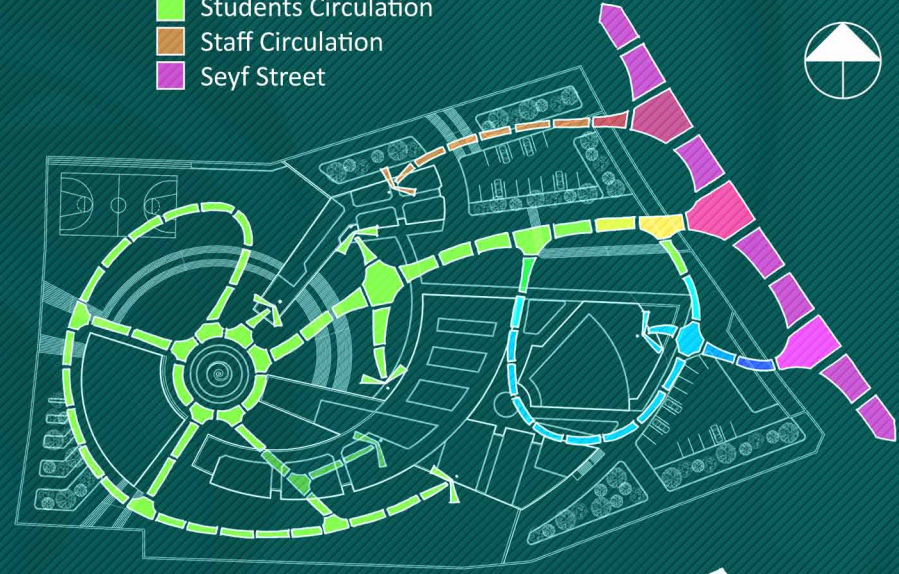


Map Legend

- Residential Zone
- Green Space
- Educational
- Arterial Road
- Collector Road

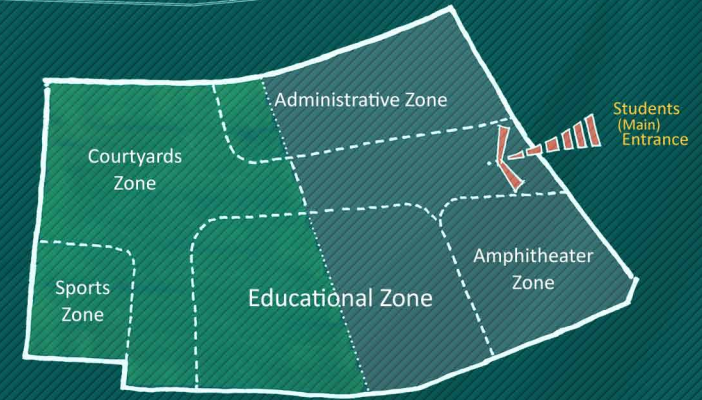
Site Circulation

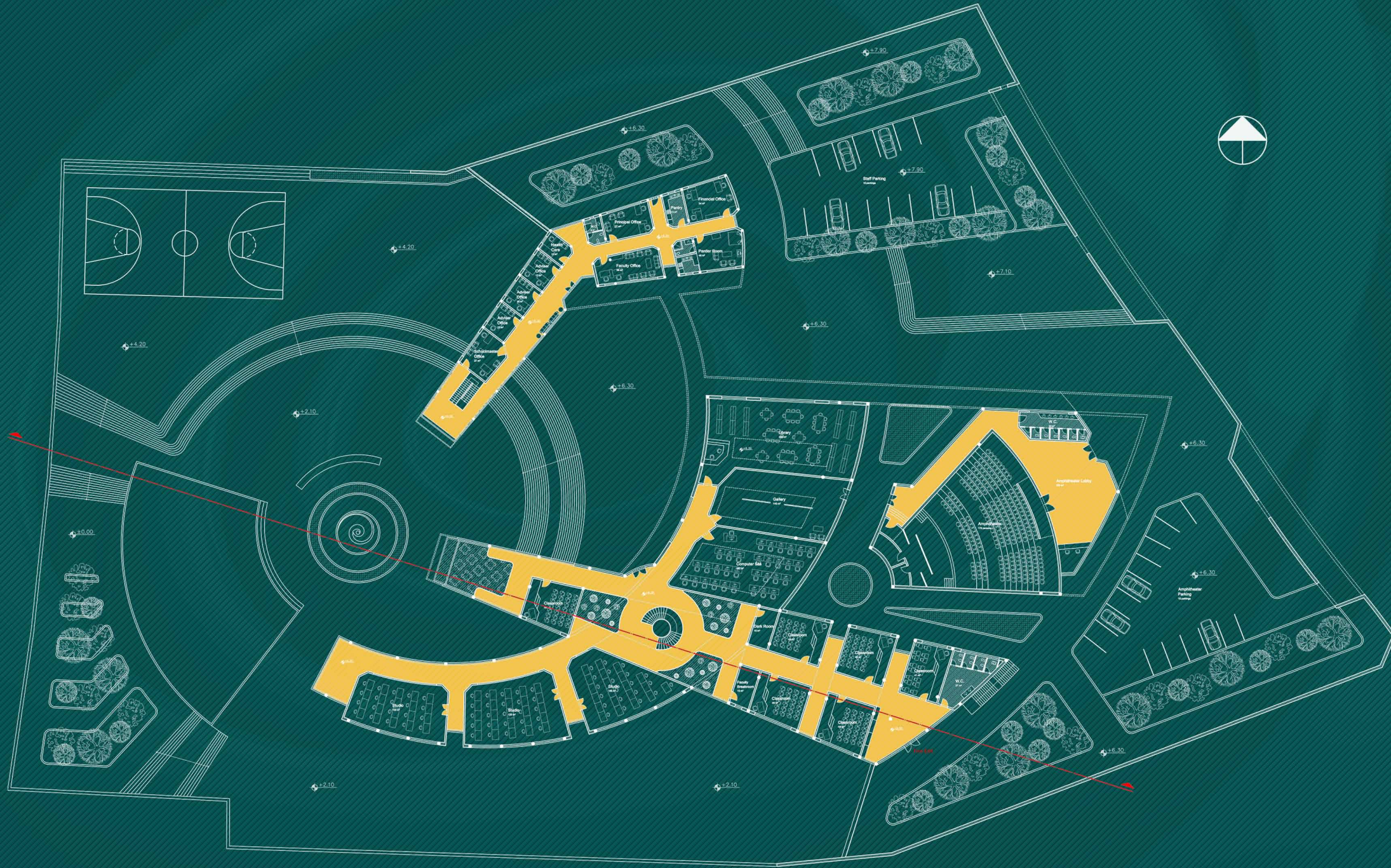
- Amphitheater Circulation
- Students Circulation
- Staff Circulation
- Seyf Street



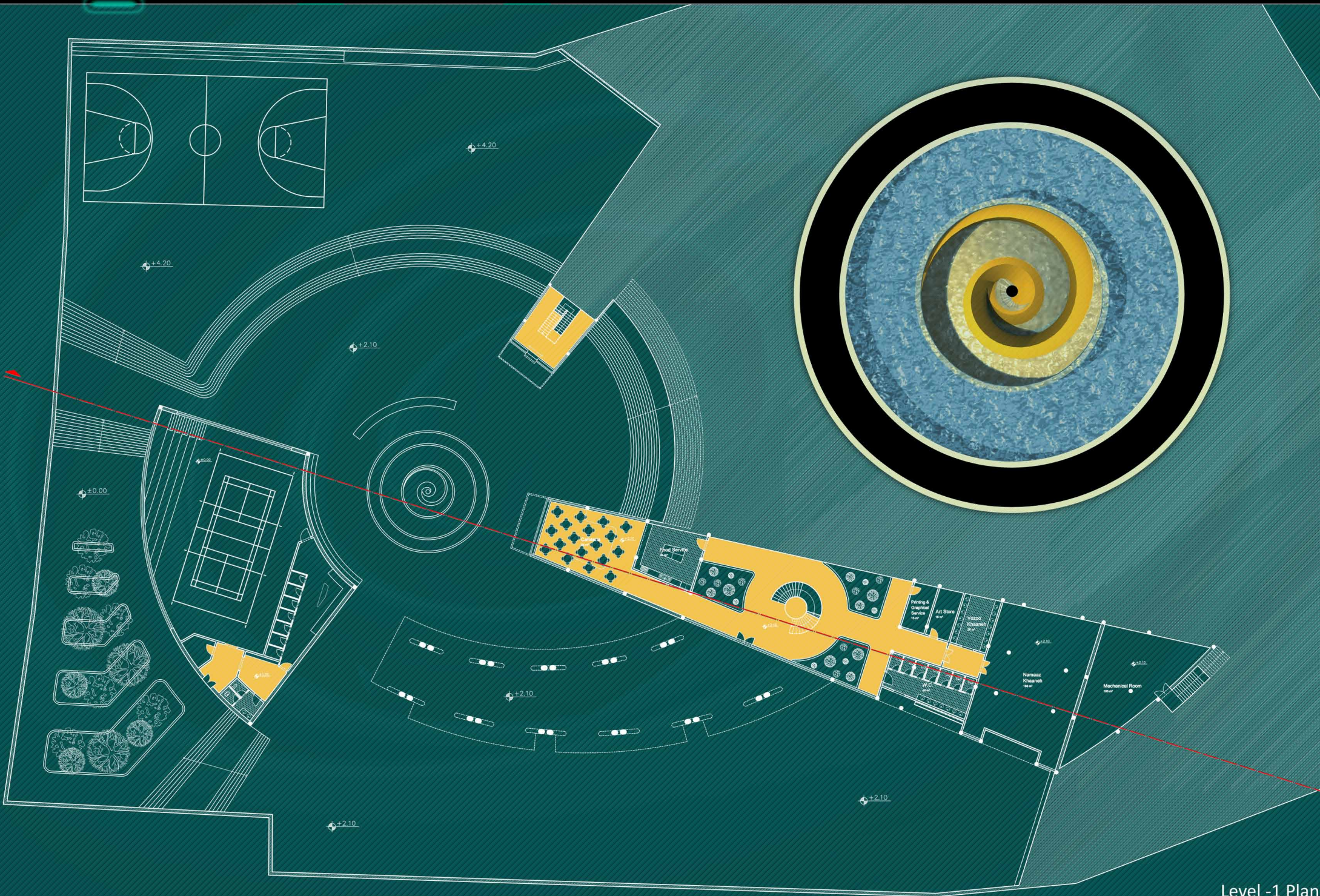
Site Zoning

- Private Area
- Public Area





Level 0 Plan



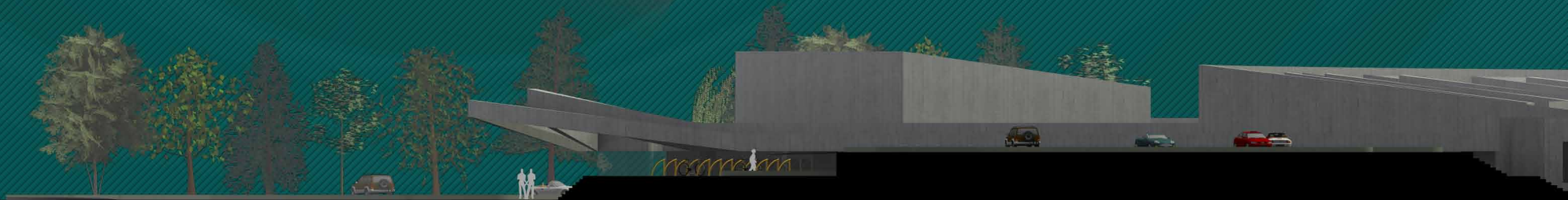
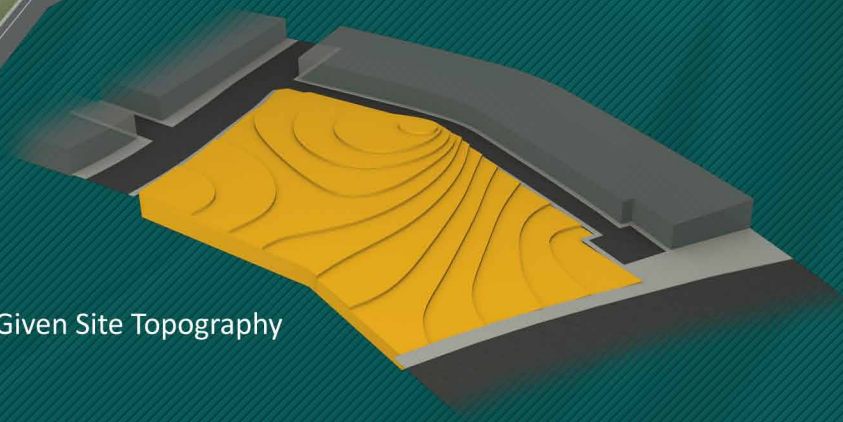
Level -1 Plan

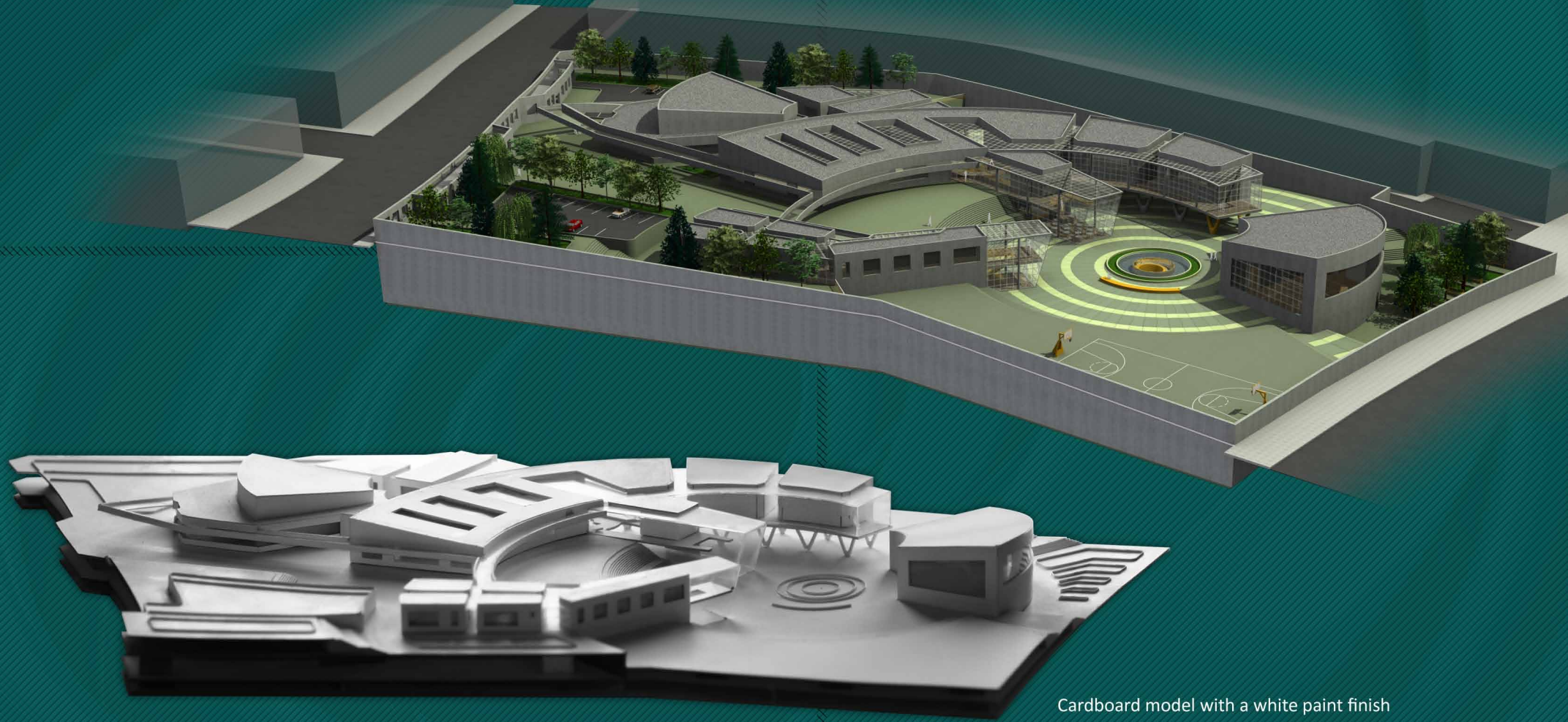


Skykight with Adjustable Shader



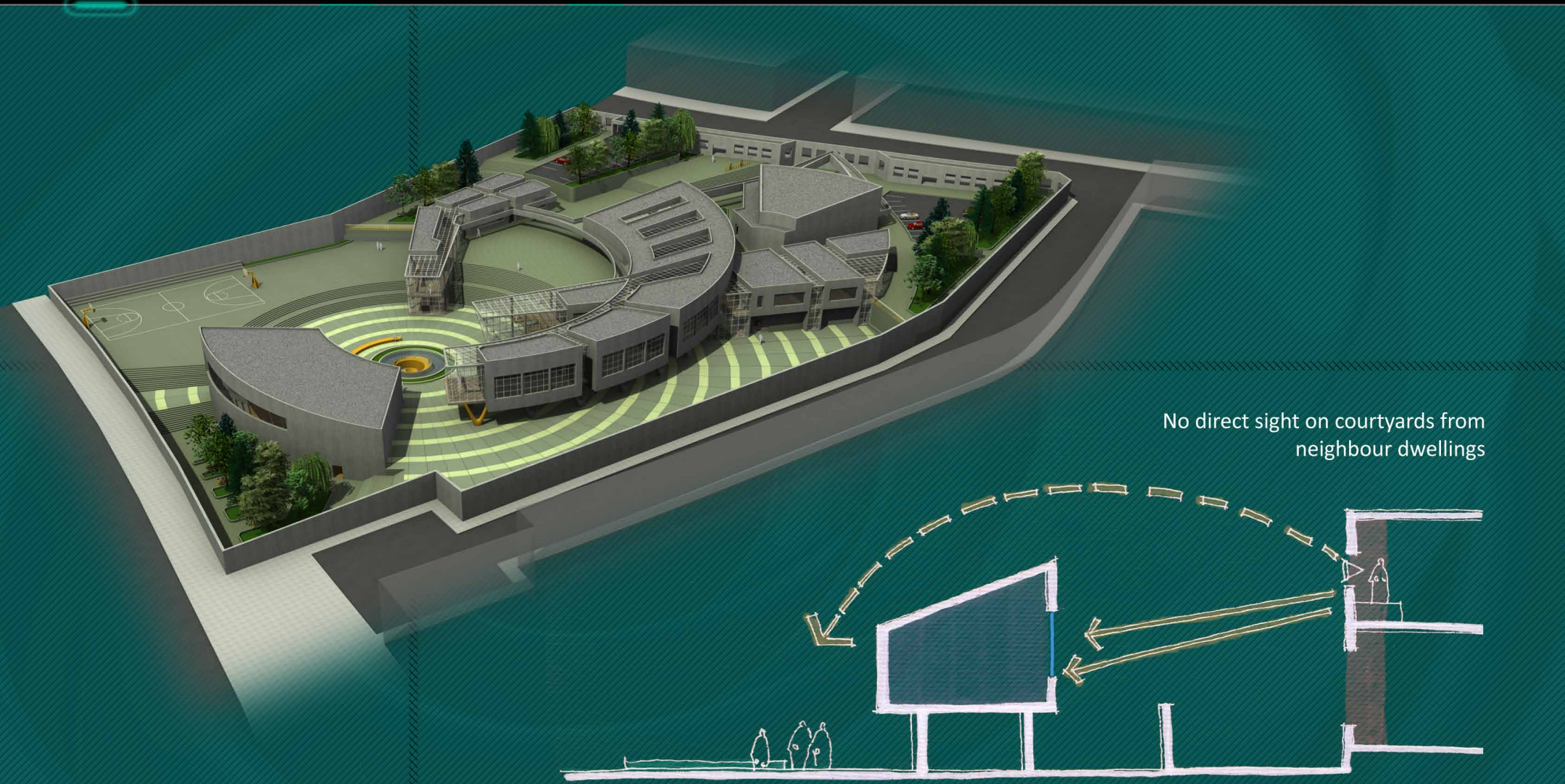
Given Site Topography





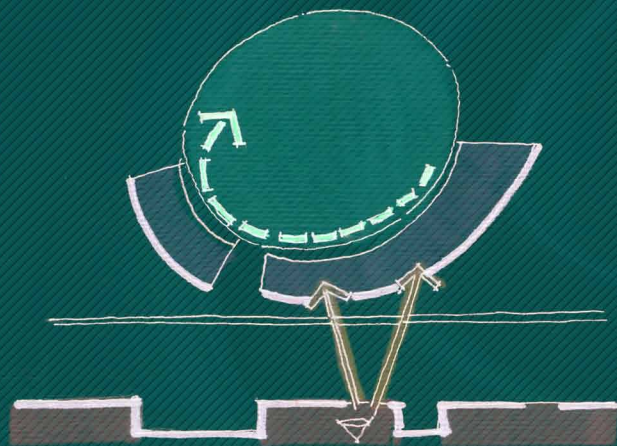
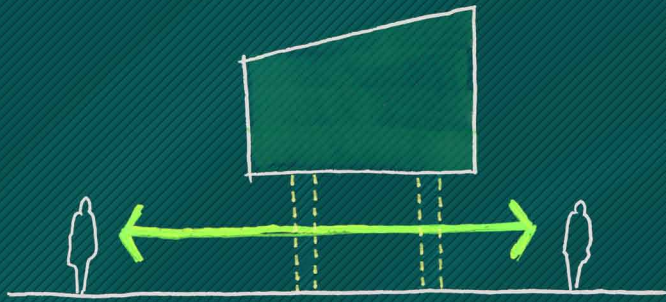
Cardboard model with a white paint finish





No direct sight on courtyards from neighbour dwellings





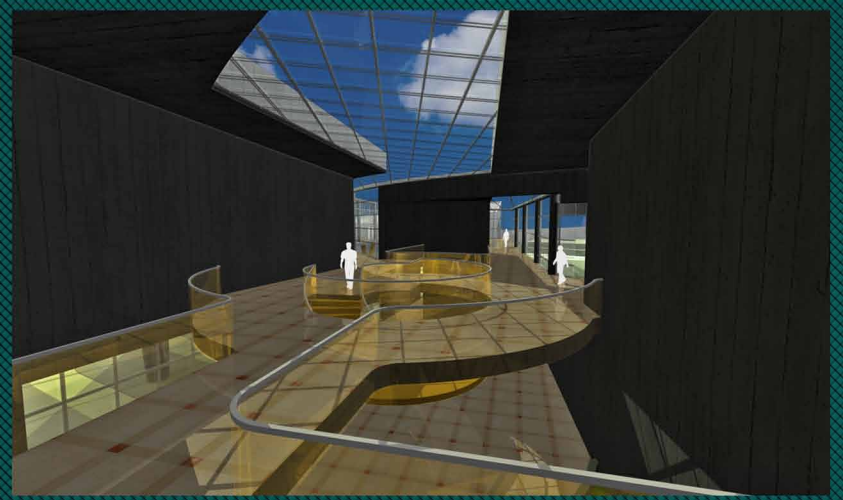
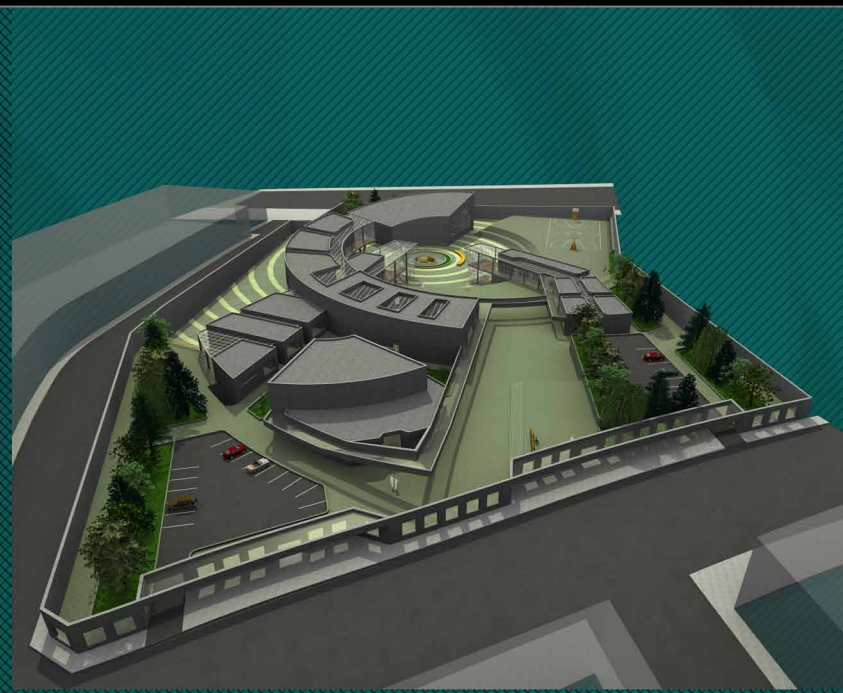
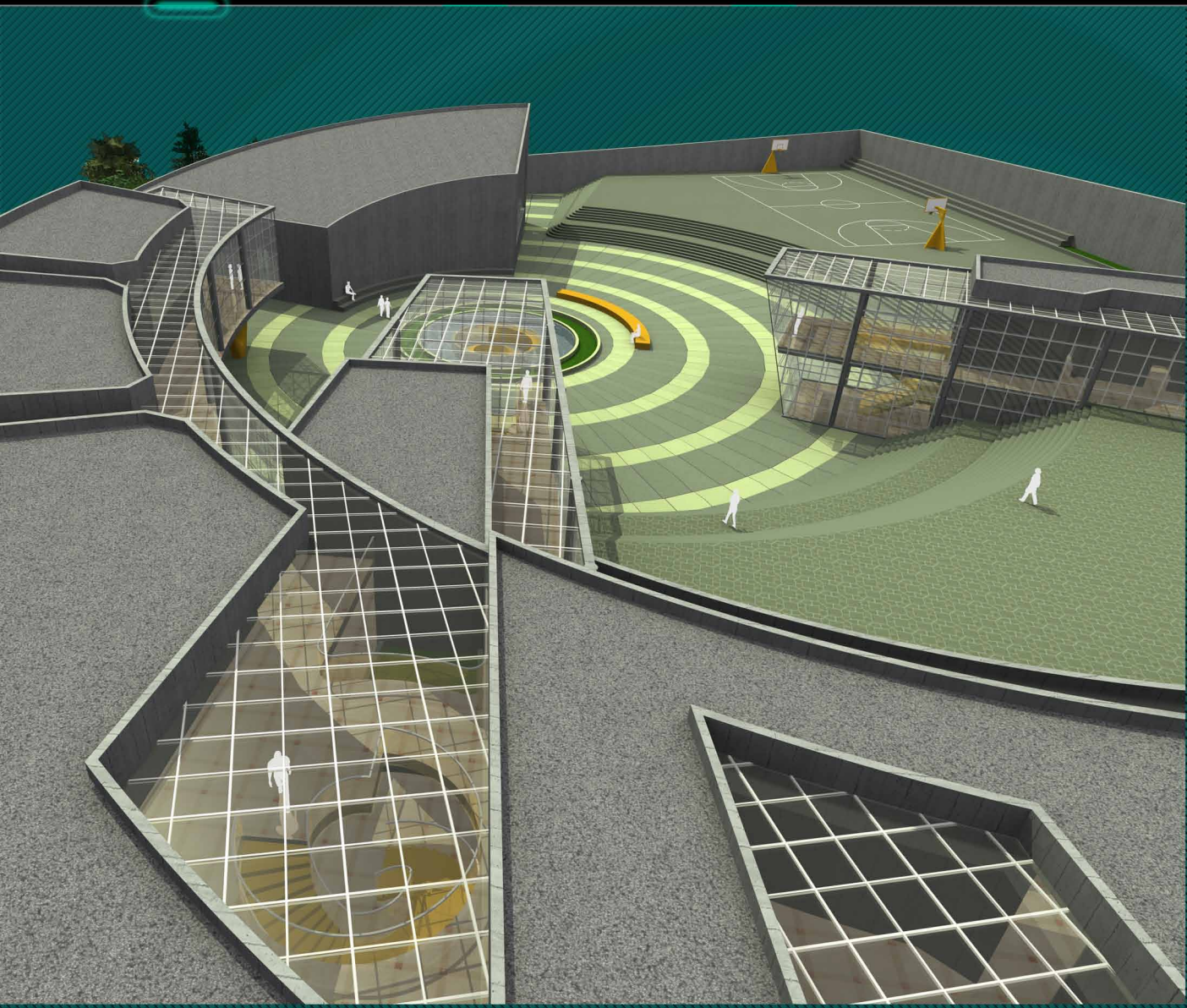
Amphitheater Entrance



South Elevation



West Elevation



HexMall

Course Name:

Architectural Design IV

Semester:

Fall 2009

Fifth year of Bachelor's program

Project Objective:

Design of a multi purpose mall

Given Site Location:

Tehran, Kooy-e Faraz

Instructor:

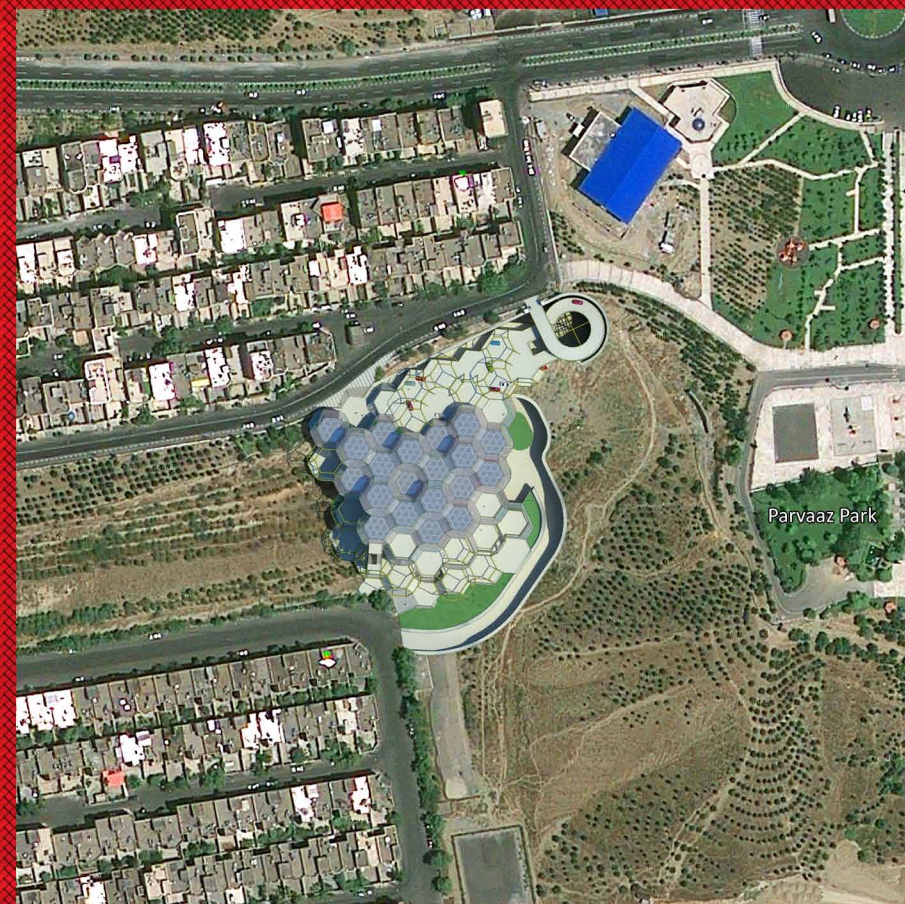
Dr. M. Matini

Design Aims:

Influence of the site and accesses on the project

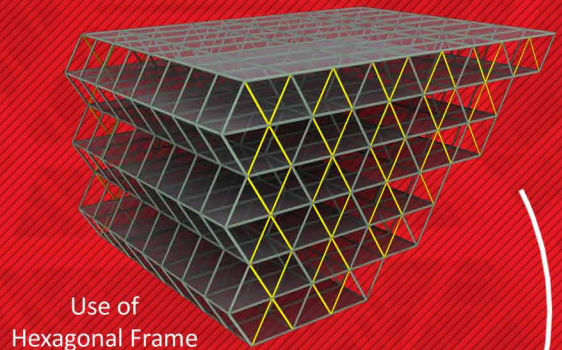
Structural and technical approach

Propper settling of distinct functions in a multi-storey building

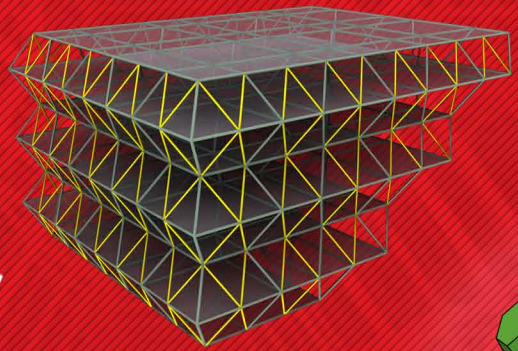


	Common Rectangular Frame	Hexagonal Frame	
Resistance to Lateral Loads	Moment Frame		
	Braced Frame		
Resistance to Vertical Loads	Moment Frame		
	Braced Frame		
Expansion in a Multi-Storey Structure	Moment Frame		
	Braced Frame		

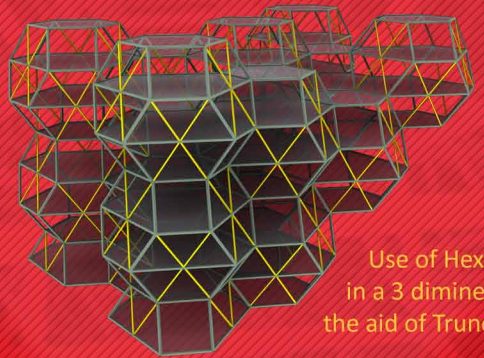
LESS DEFORMATION →



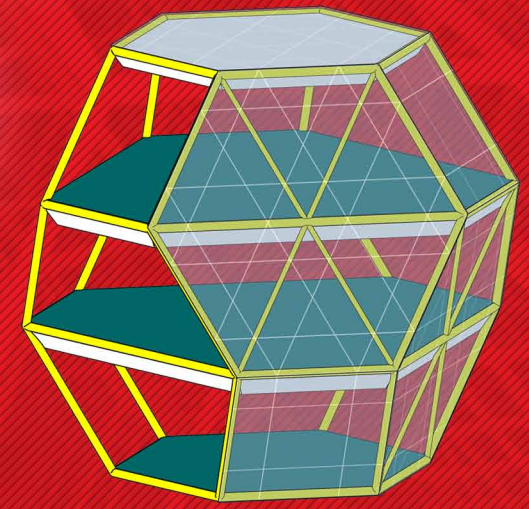
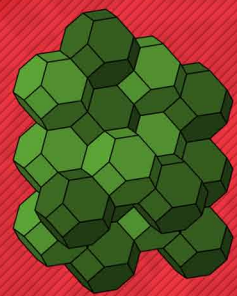
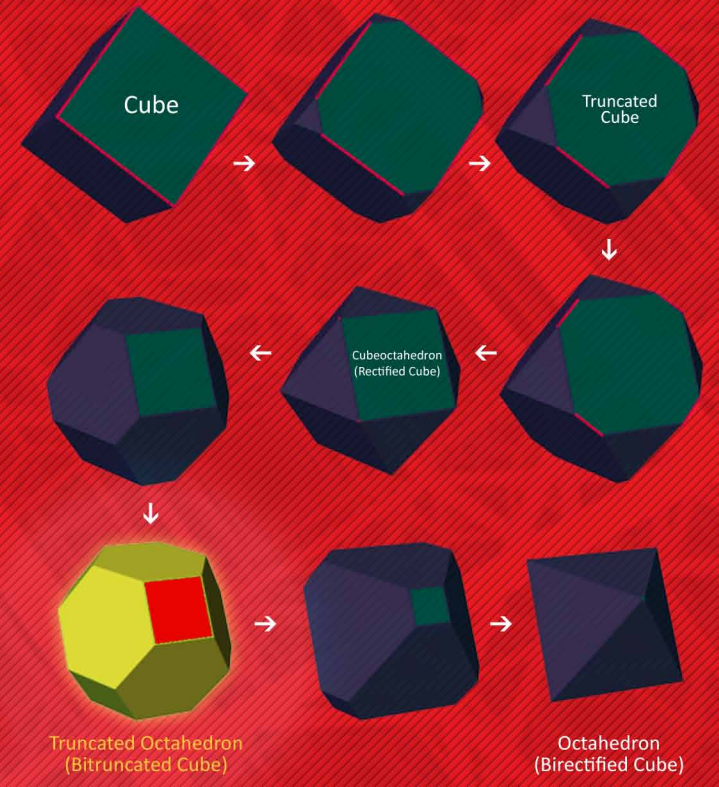
Use of Hexagonal Frame in 1 direction



Use of Hexagonal Frame in 2 directions

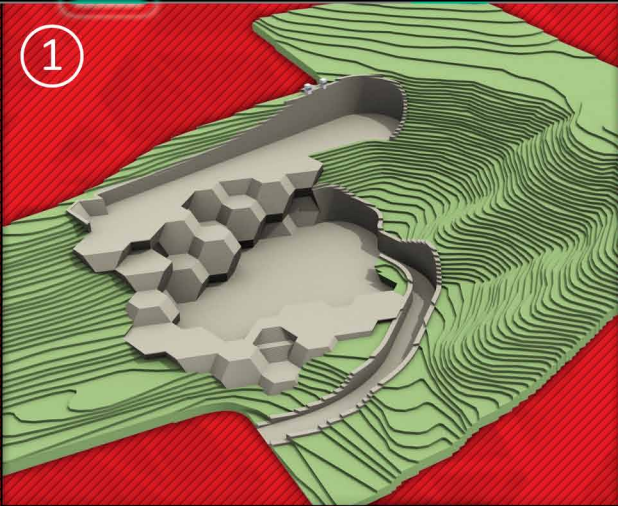


Use of Hexagonal Frame in a 3 dimensional way with the aid of Truncated Octahedron



A Truncated Octahedron with edge length of 6 meters can create a triplex structure

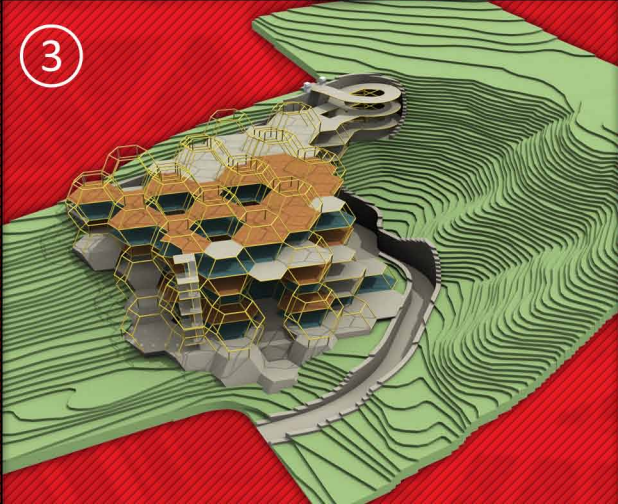
1



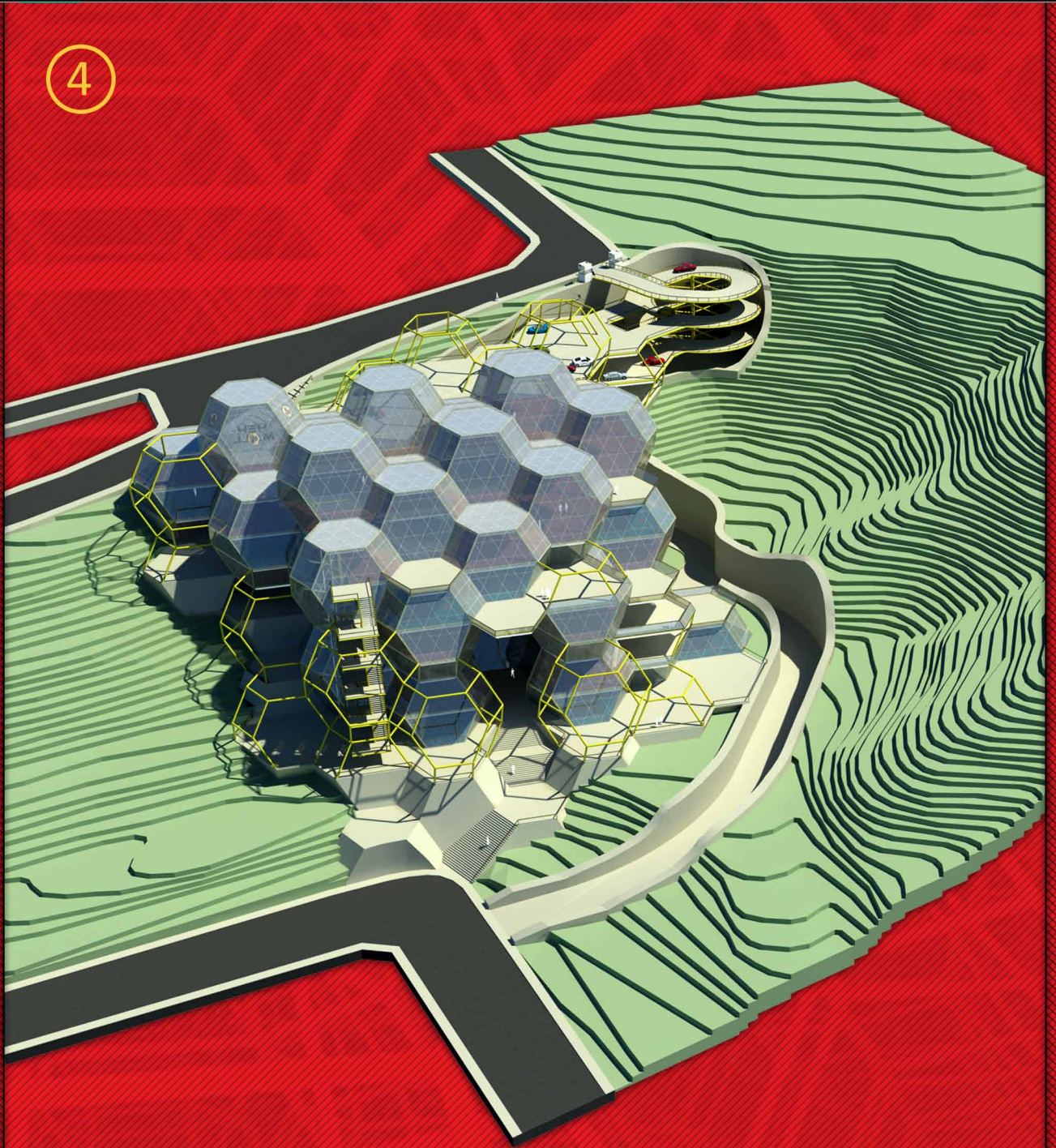
2



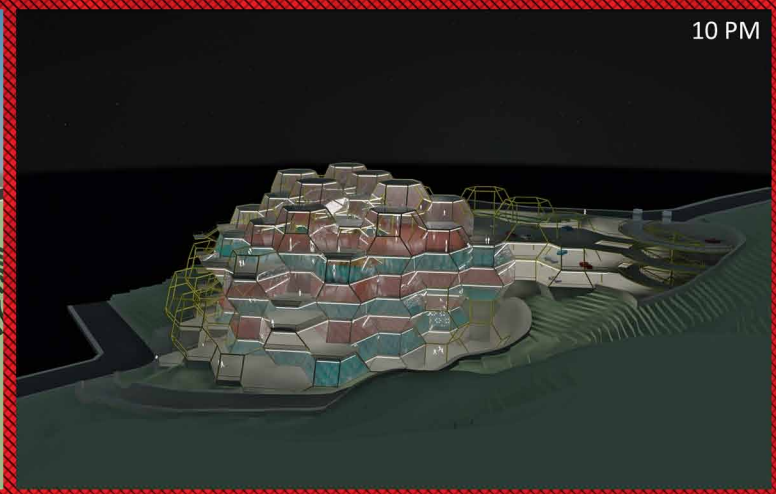
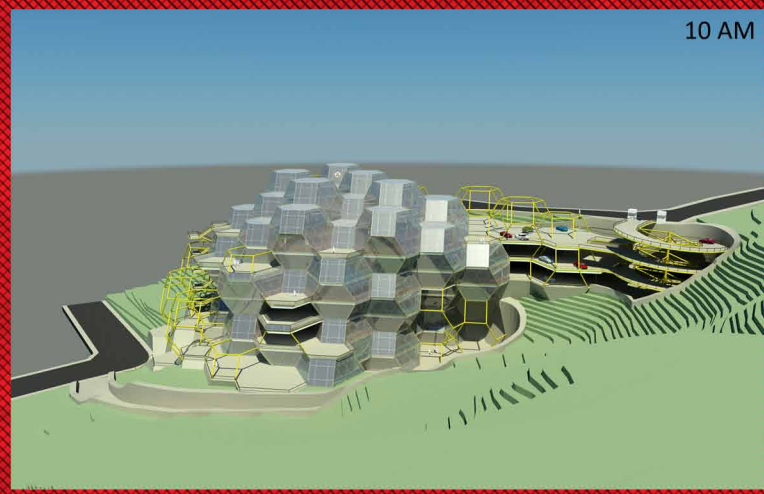
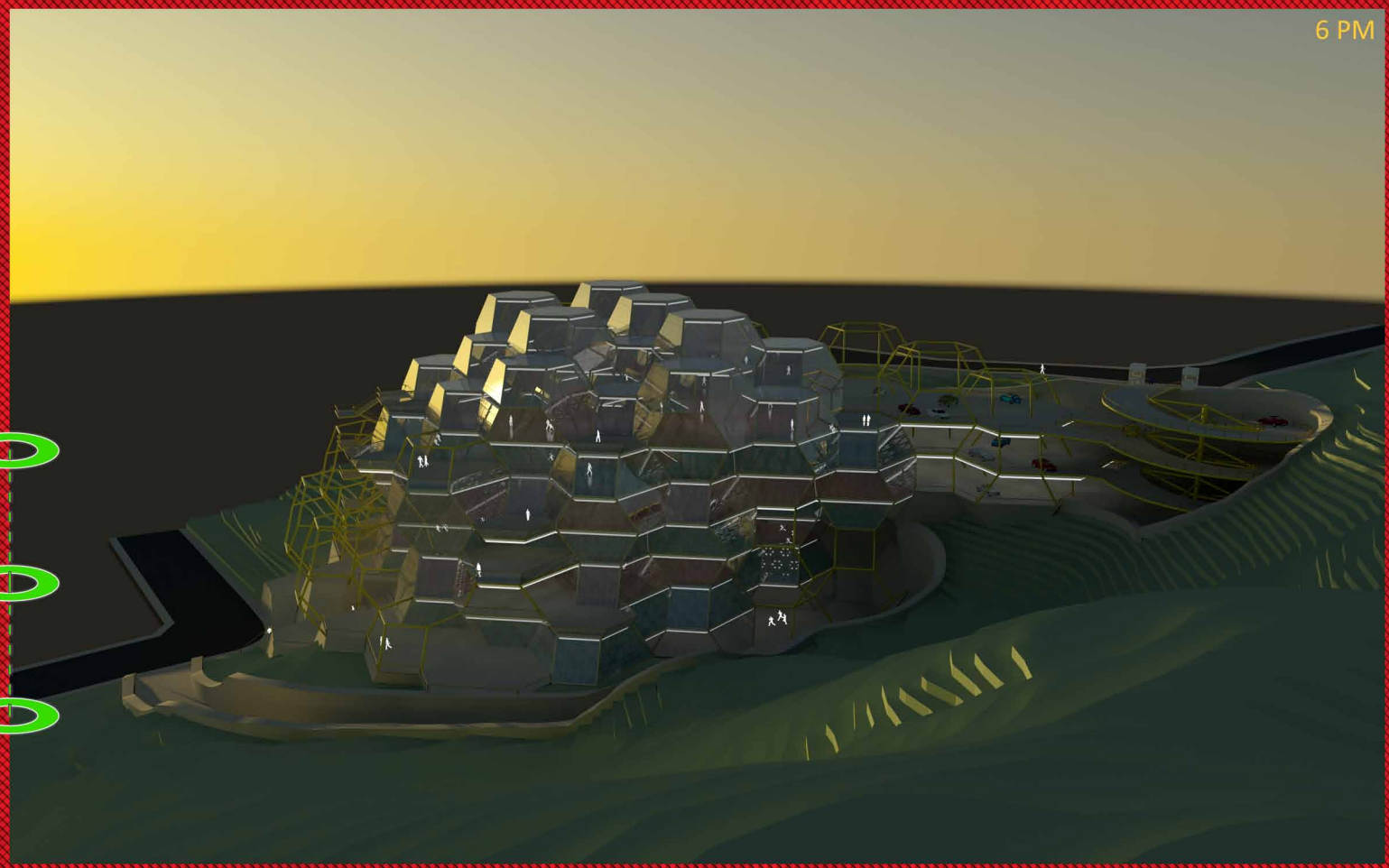
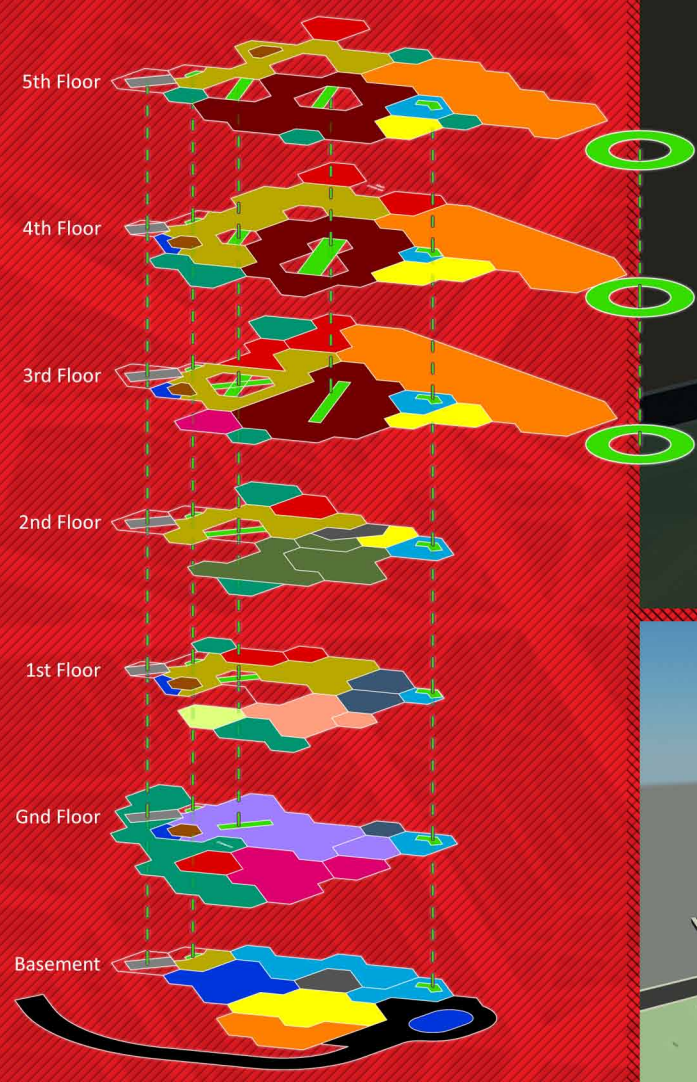
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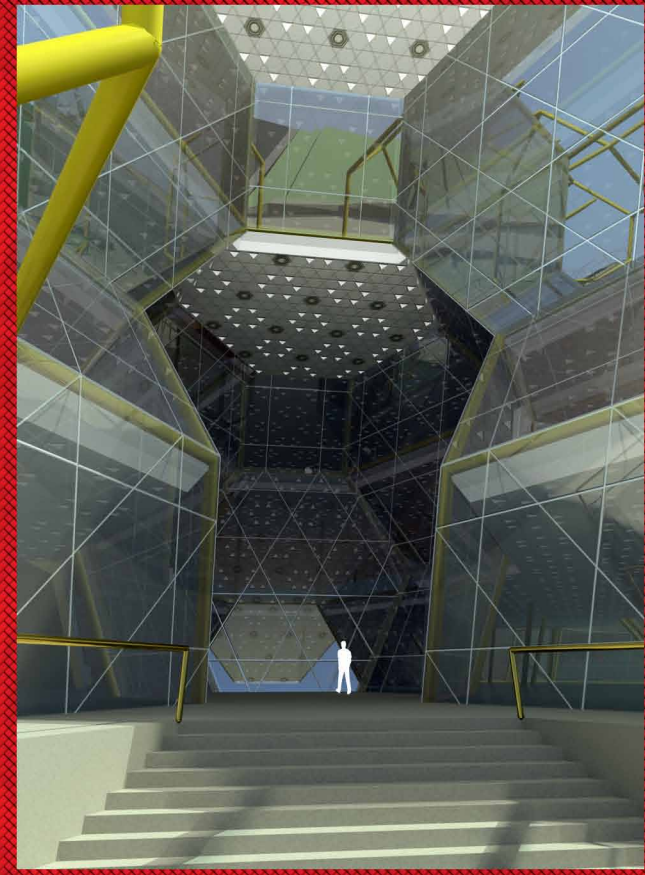
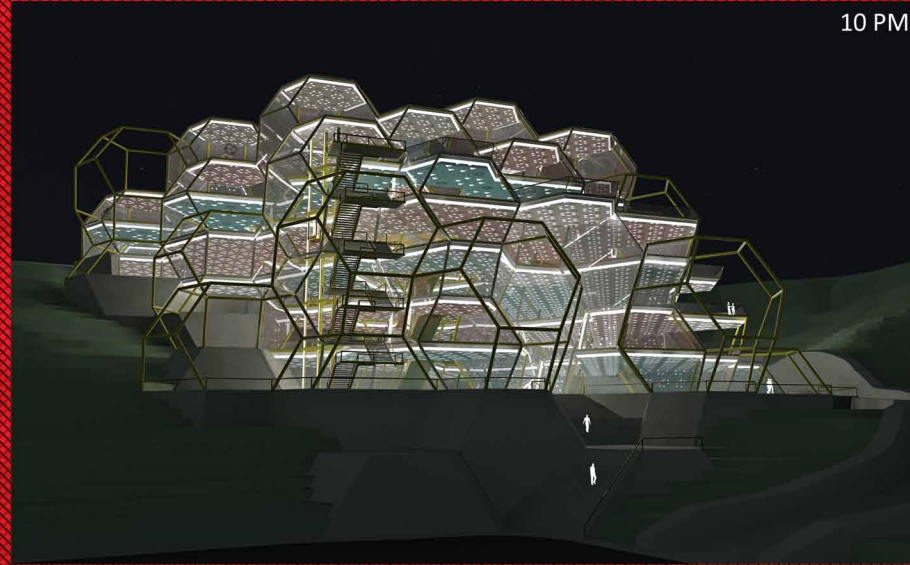
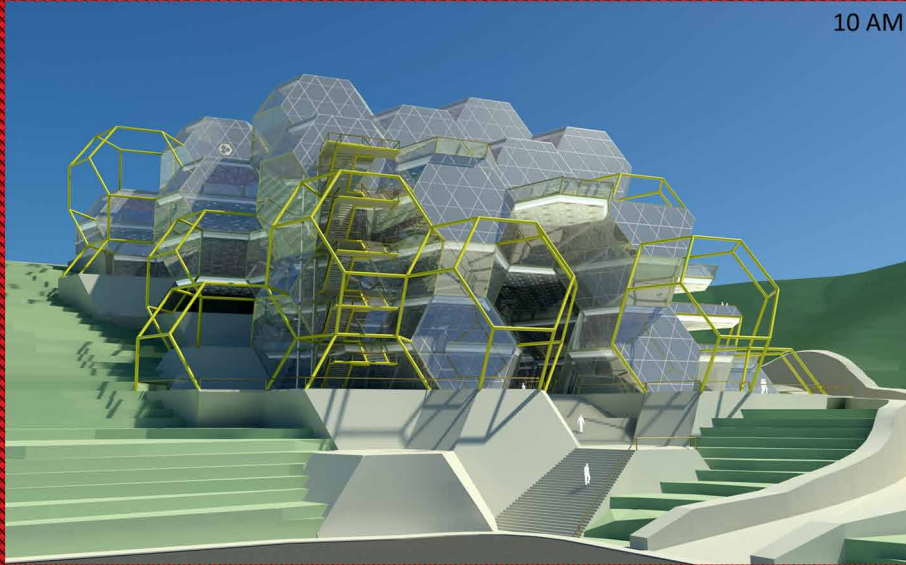
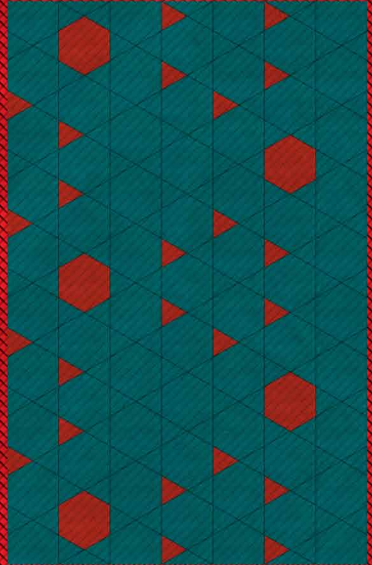


4

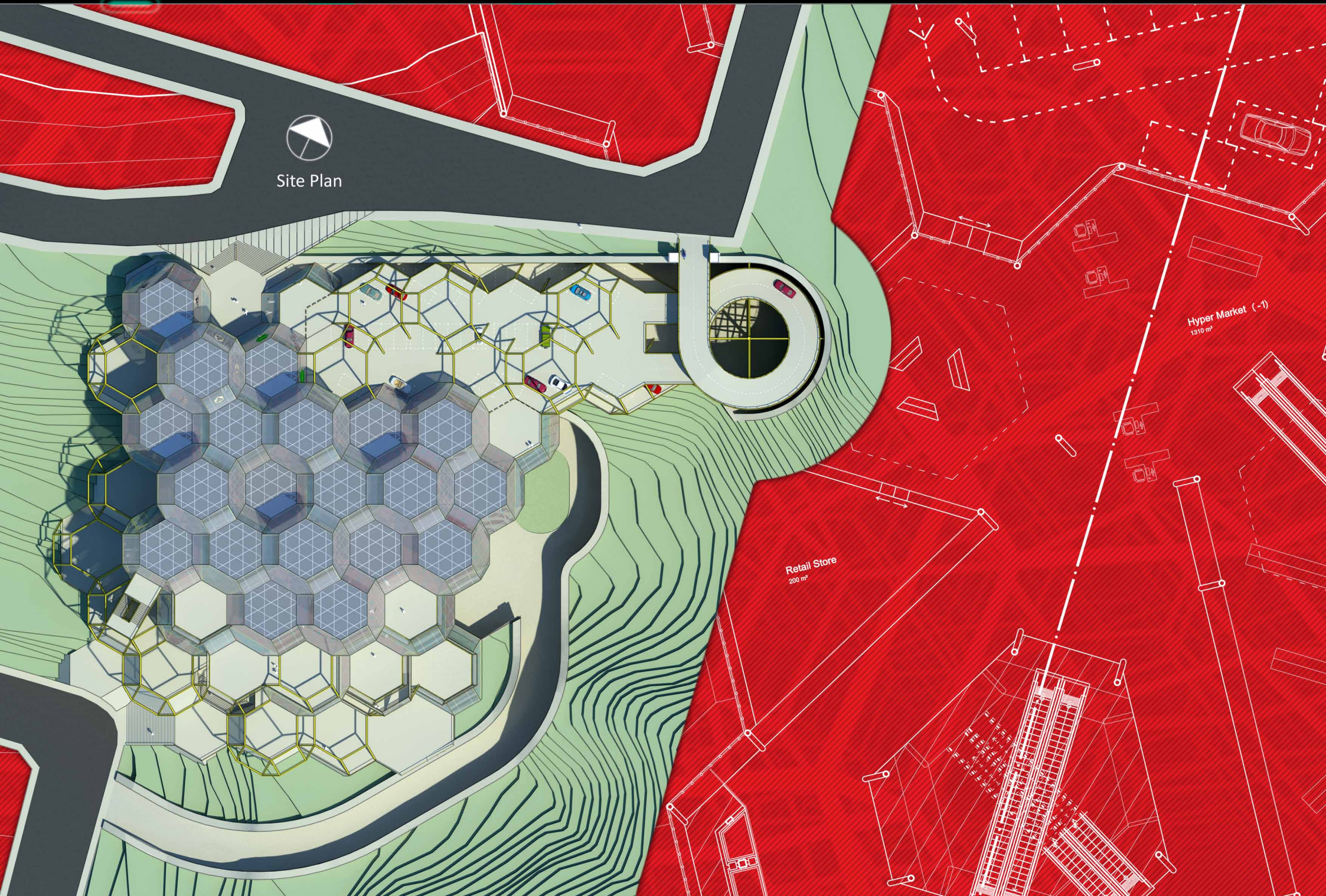


Joint Spaces	Vertical Joint	
Parking	Store	
Fast Food	Hyper Market	
Restaurant	W.C.	
Cinema	Coffee Shop	
Playground	Balcony	
Gallery	Management	
Storage	Mechanical	
Staff	Emergency Exit	





Secondary Entrance View



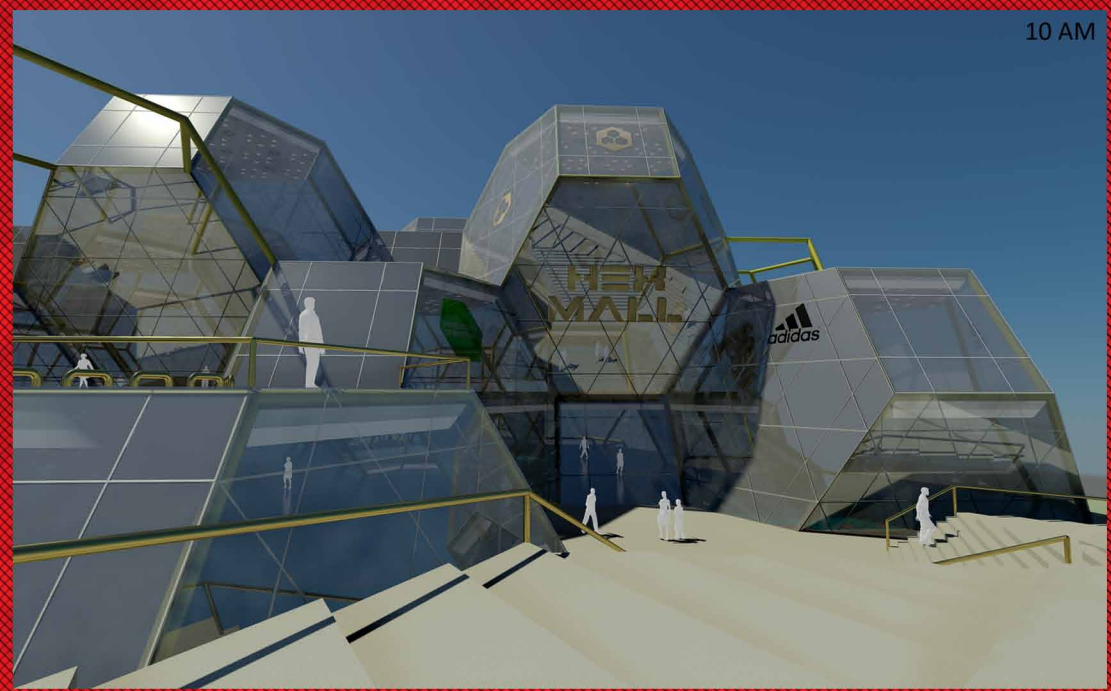
Site Plan

Retail Store
200 m²

Hyper Market (-1)
1310 m²



3rd Floor Plan
Scale 1:1400

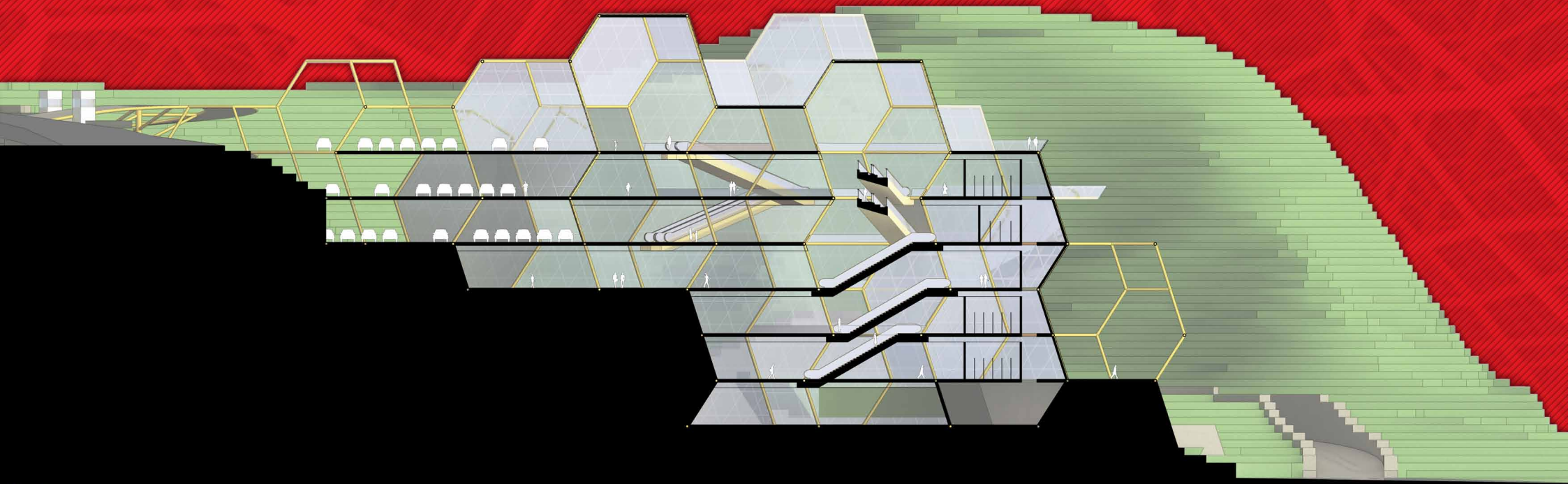


10 AM

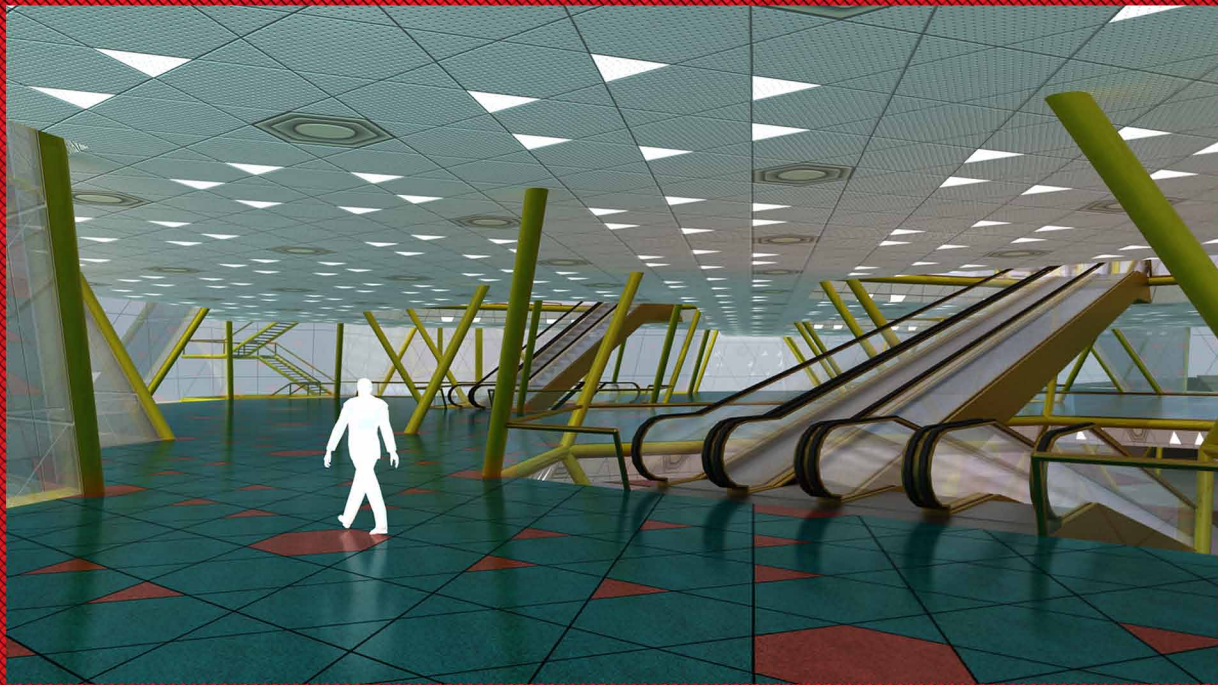
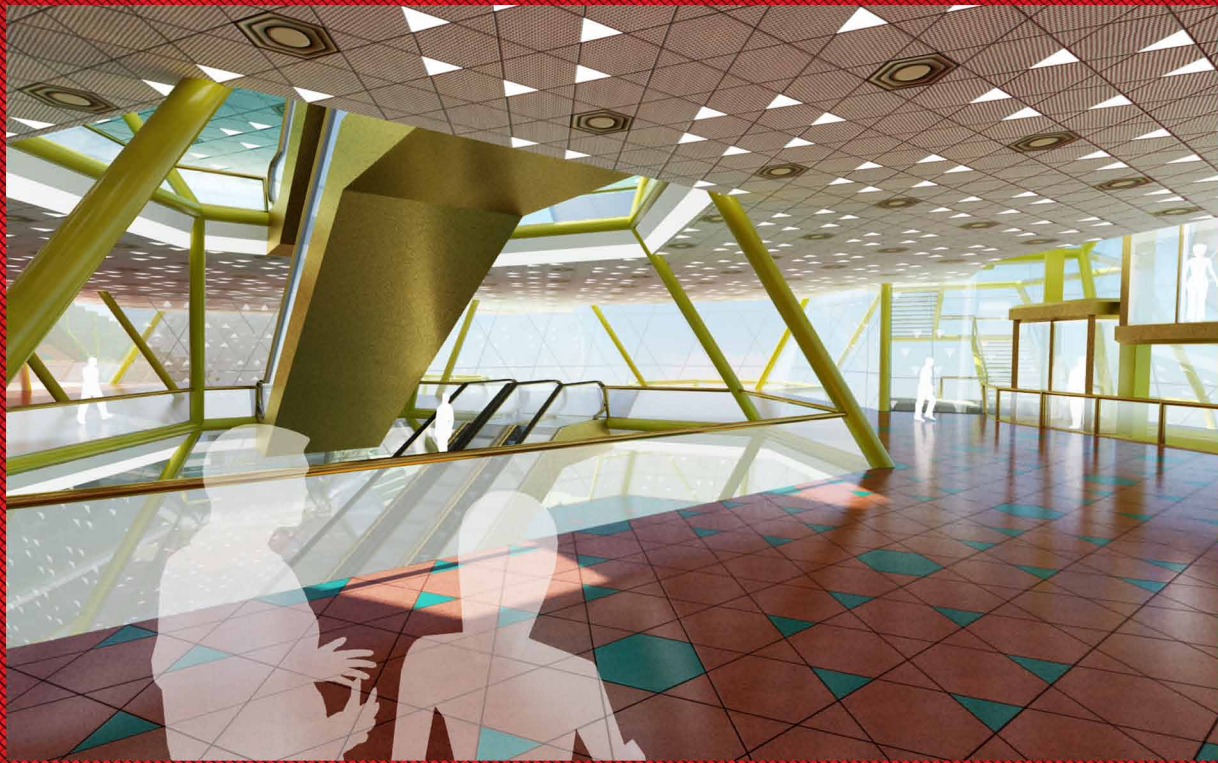


10 PM

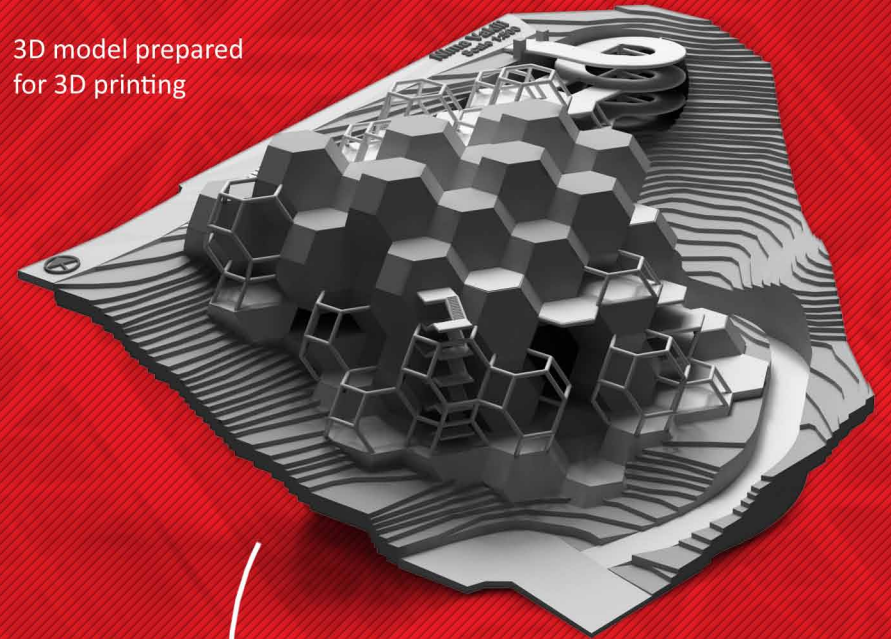
Main Entrance View



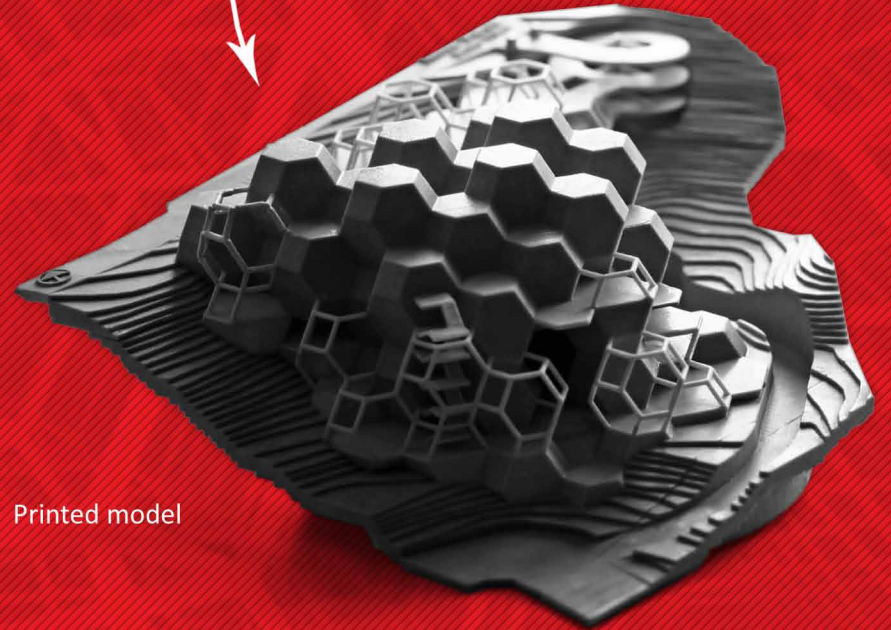
Section



3D model prepared for 3D printing



3D Printing



Printed model

Zargandeh Residential Complex

Course Name:

Architectural Design V

Semester:

Spring 2010

Fifth year of Bachelor's program

Project Objective:

Design of a residential complex

Given Site Location:

Tehran, Zargandeh

Instructors:

Dr. M. Mahmudi

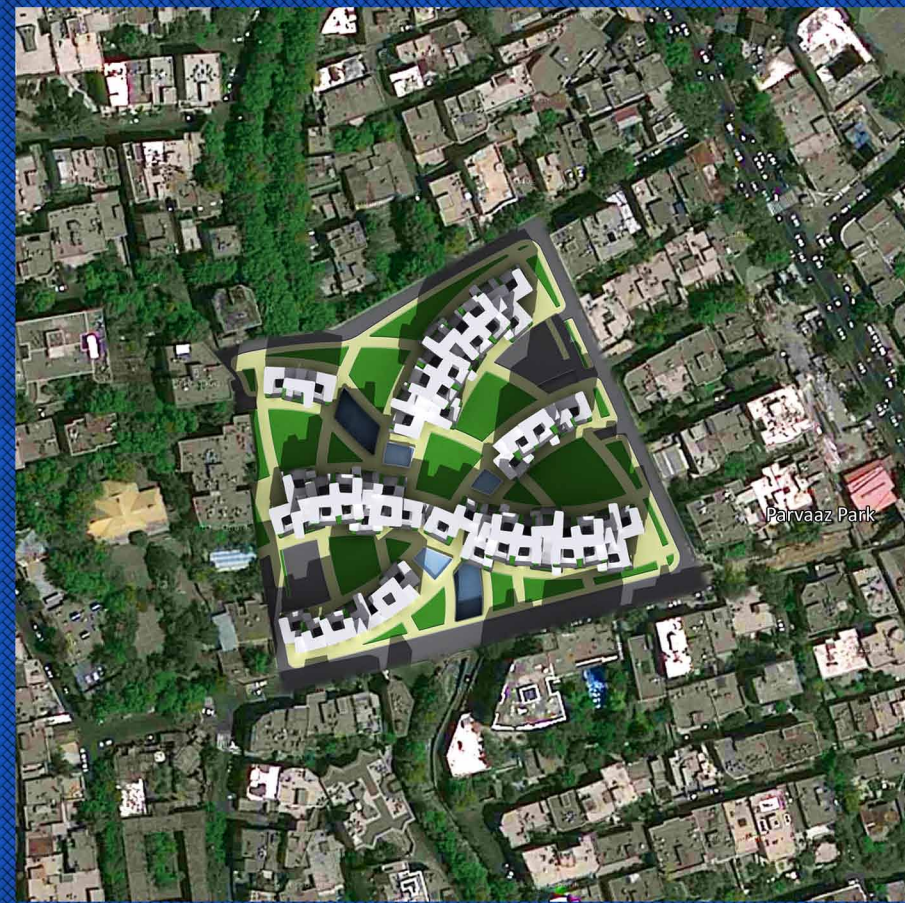
Dr. S. Masaeli

Design Aims:

Influence of the site and accesses on the project

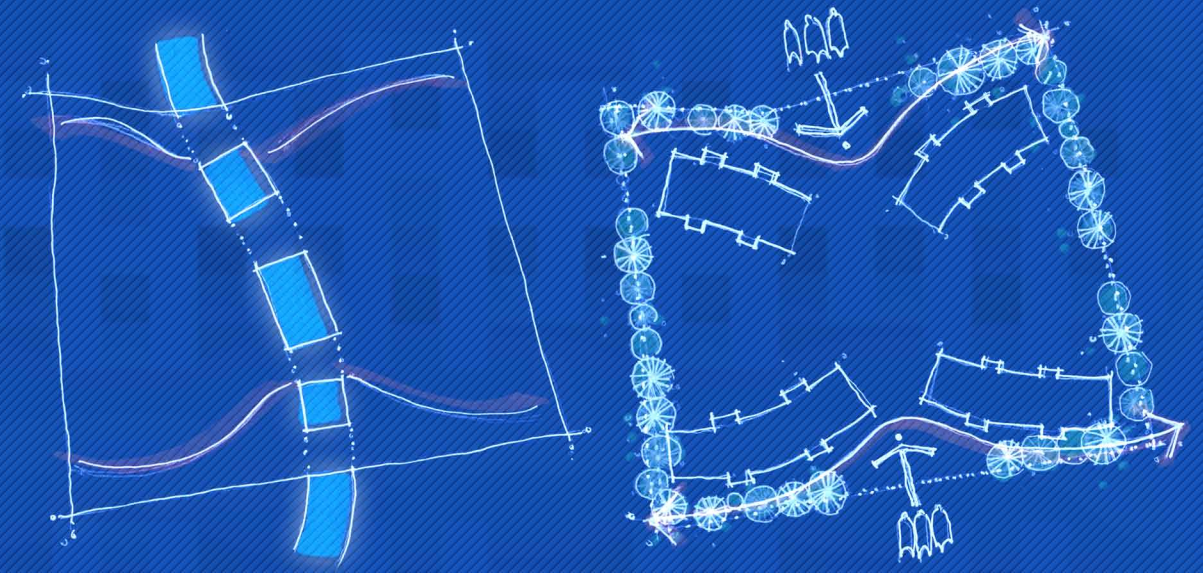
Influence of urban planning on design in large scale

Influence of culture on design in small scale (units)

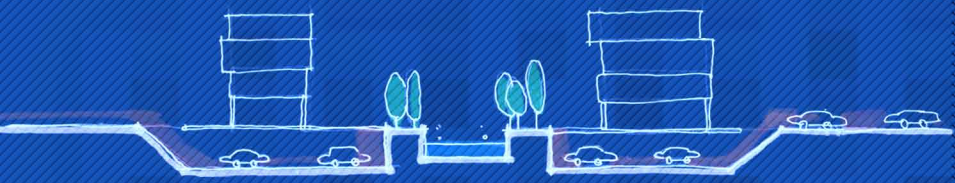




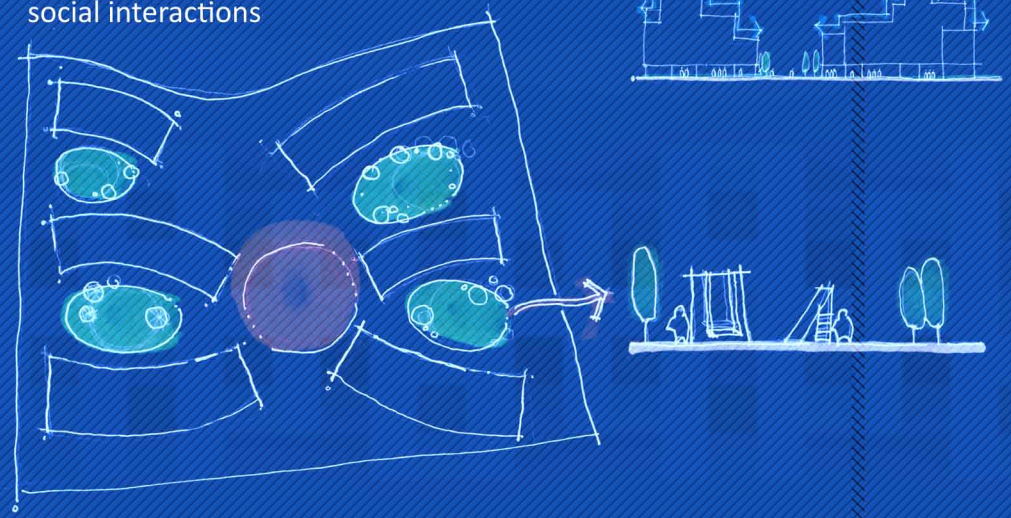
Vehicular accesses and parkings entrances



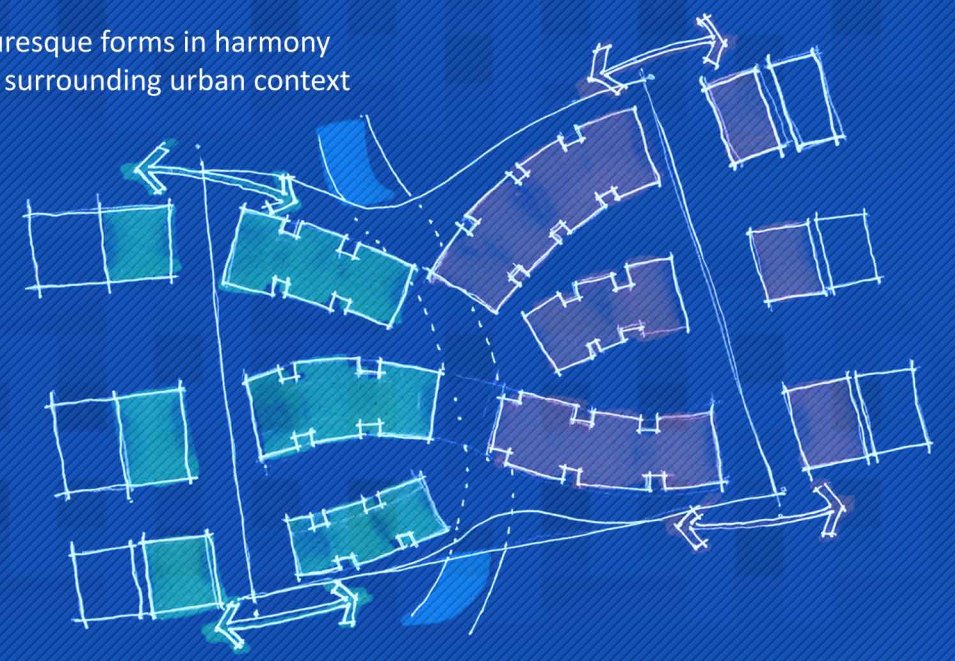
Influence of watercourse on outline of complex and main pedestrian entrances



Dedicated recreational areas for social interactions



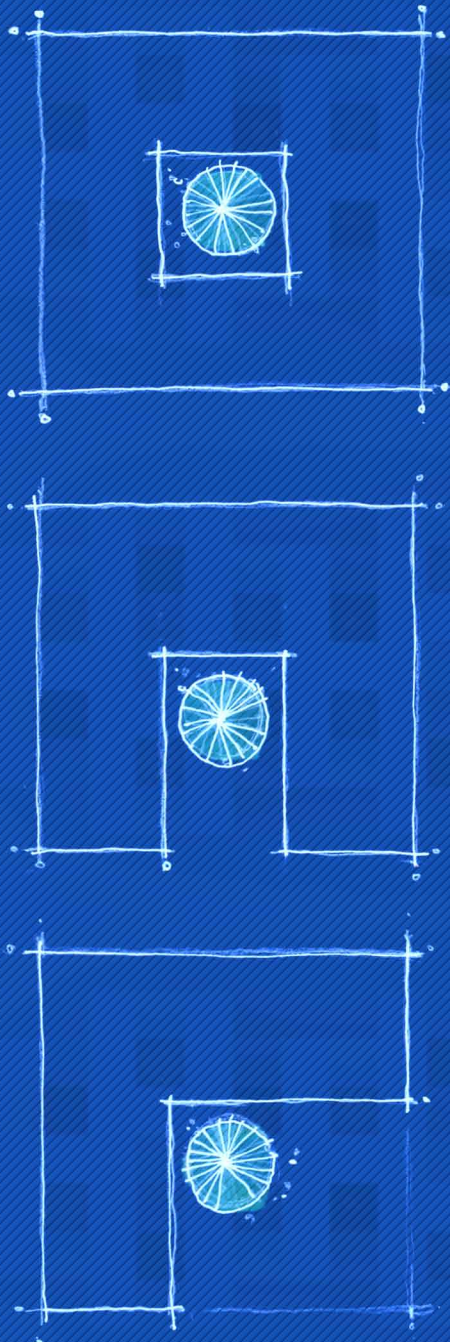
Picturesque forms in harmony with surrounding urban context





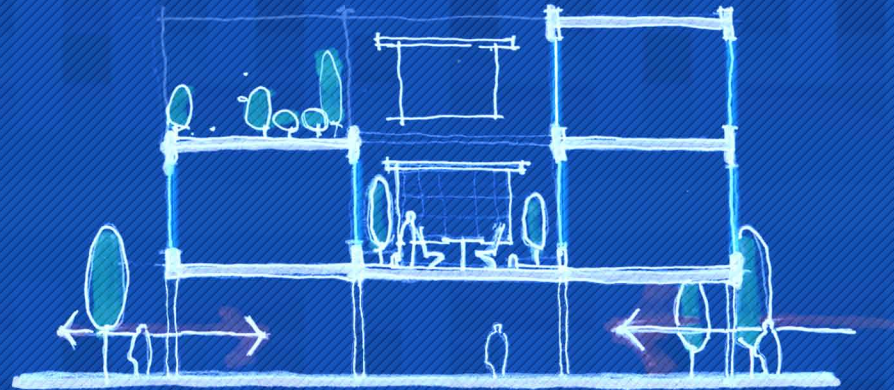
Site Plan



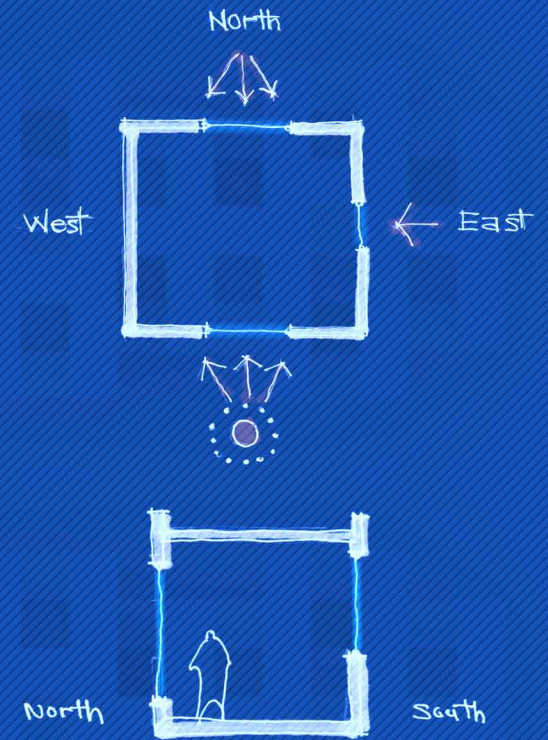


Each unit have a private inner courtyard on its ground floor and a balcony on its upper floor

Special setting of courtyards and balconies provides direct connection to open air and prevents direct sight from outdoors

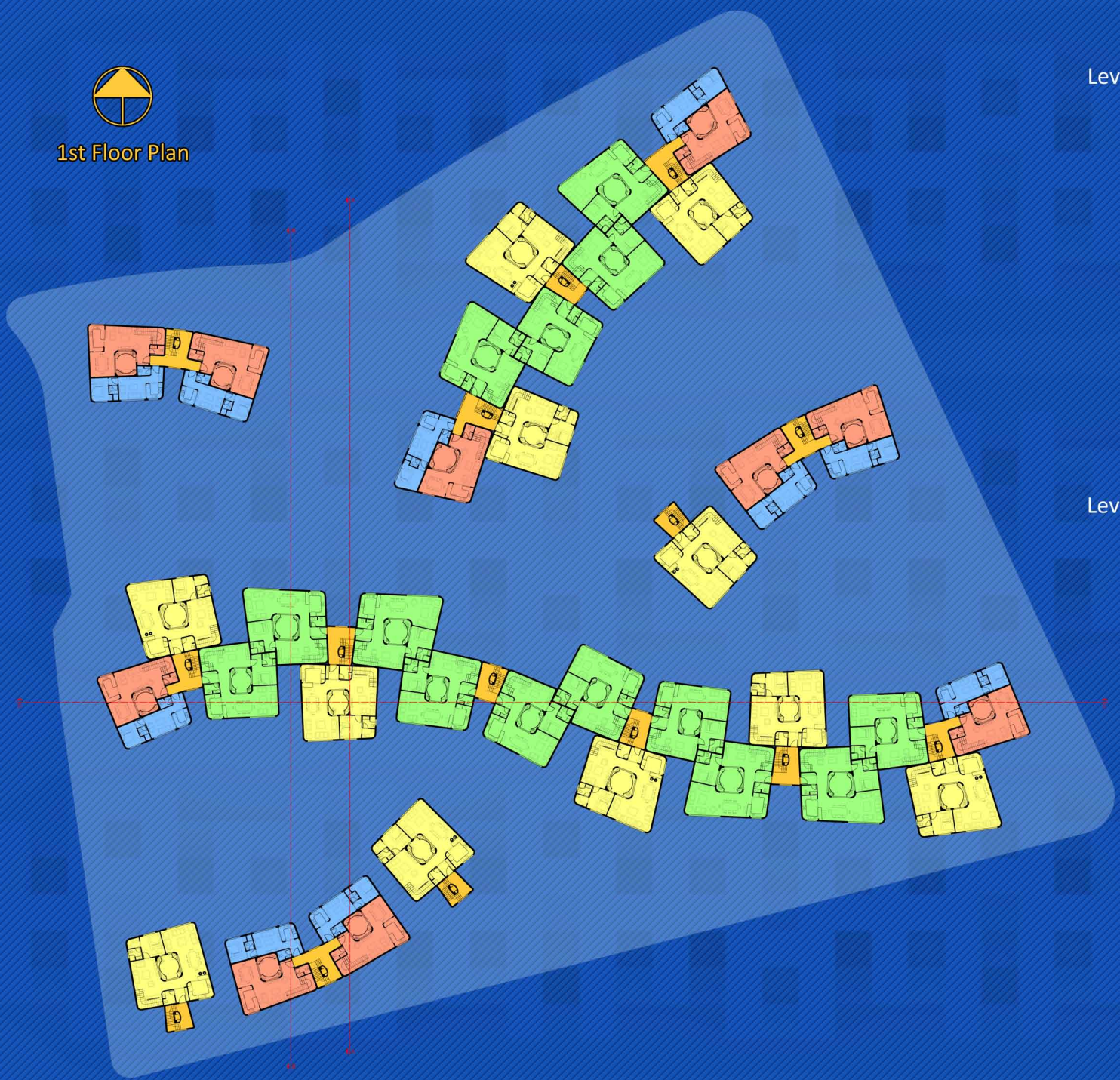


Most of units are duplex





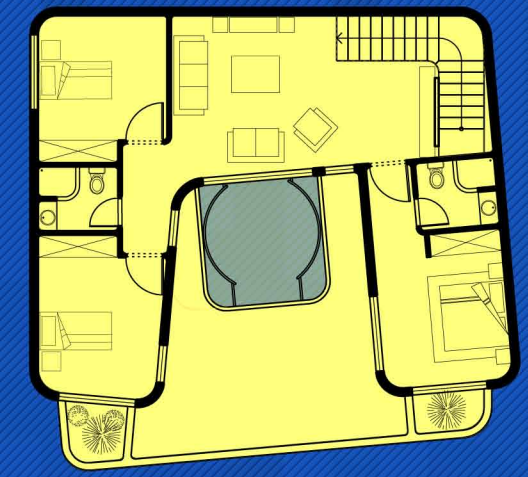
1st Floor Plan



Level 0



Level +1



Unit Type A

- For a family with size of 4 to 6
- 4 bedrooms
- Approximate usable area: 260m²



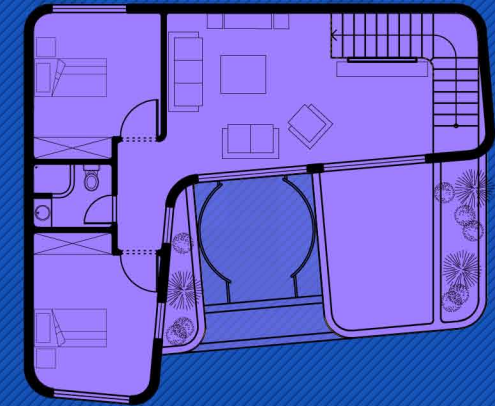
2nd Floor Plan



Level 0



Level +1

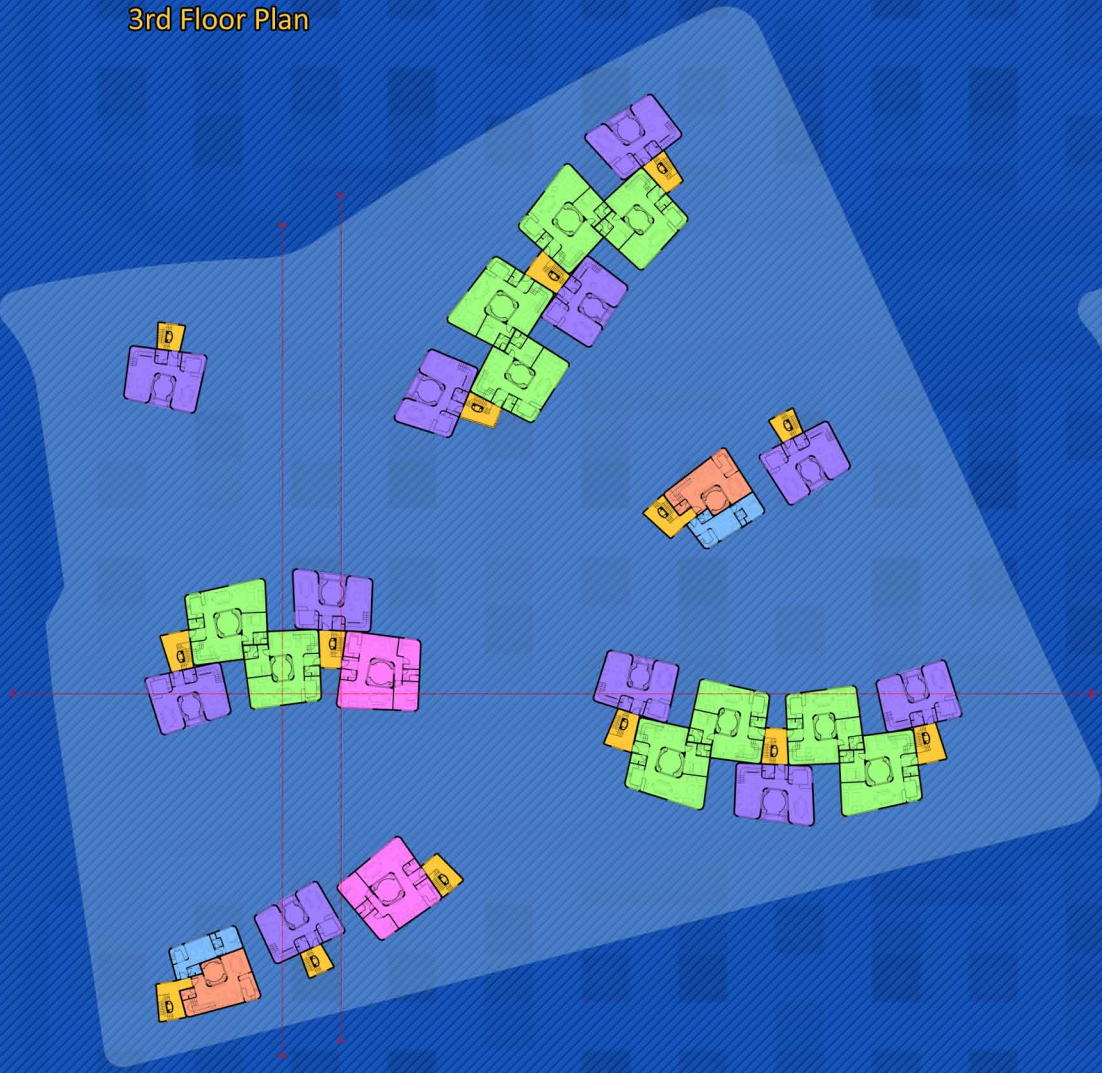


Unit Type C

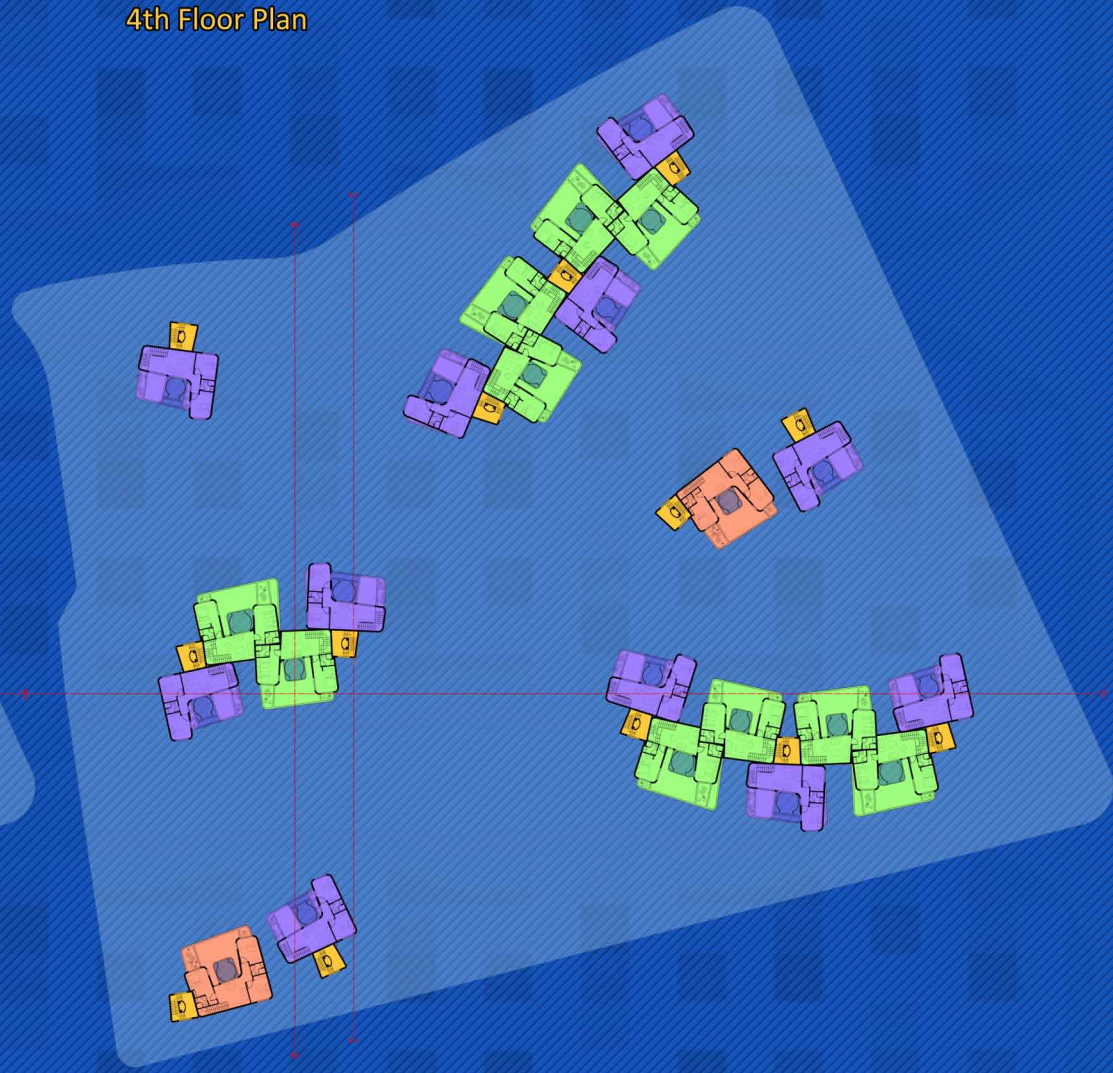
- For a family with size of 2 to 4
- 2 bedrooms
- Approximate usable area: 190m²



3rd Floor Plan

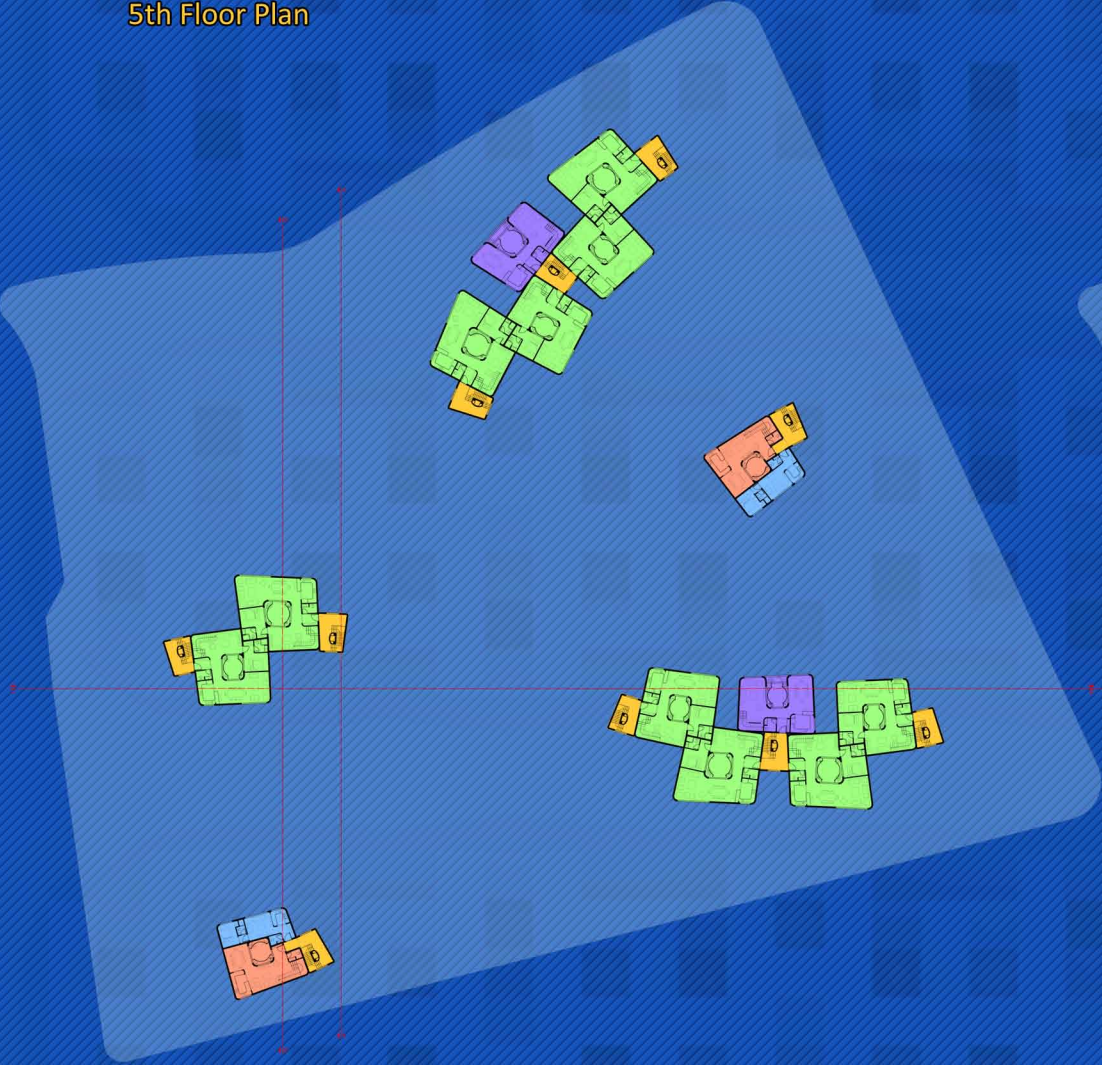


4th Floor Plan

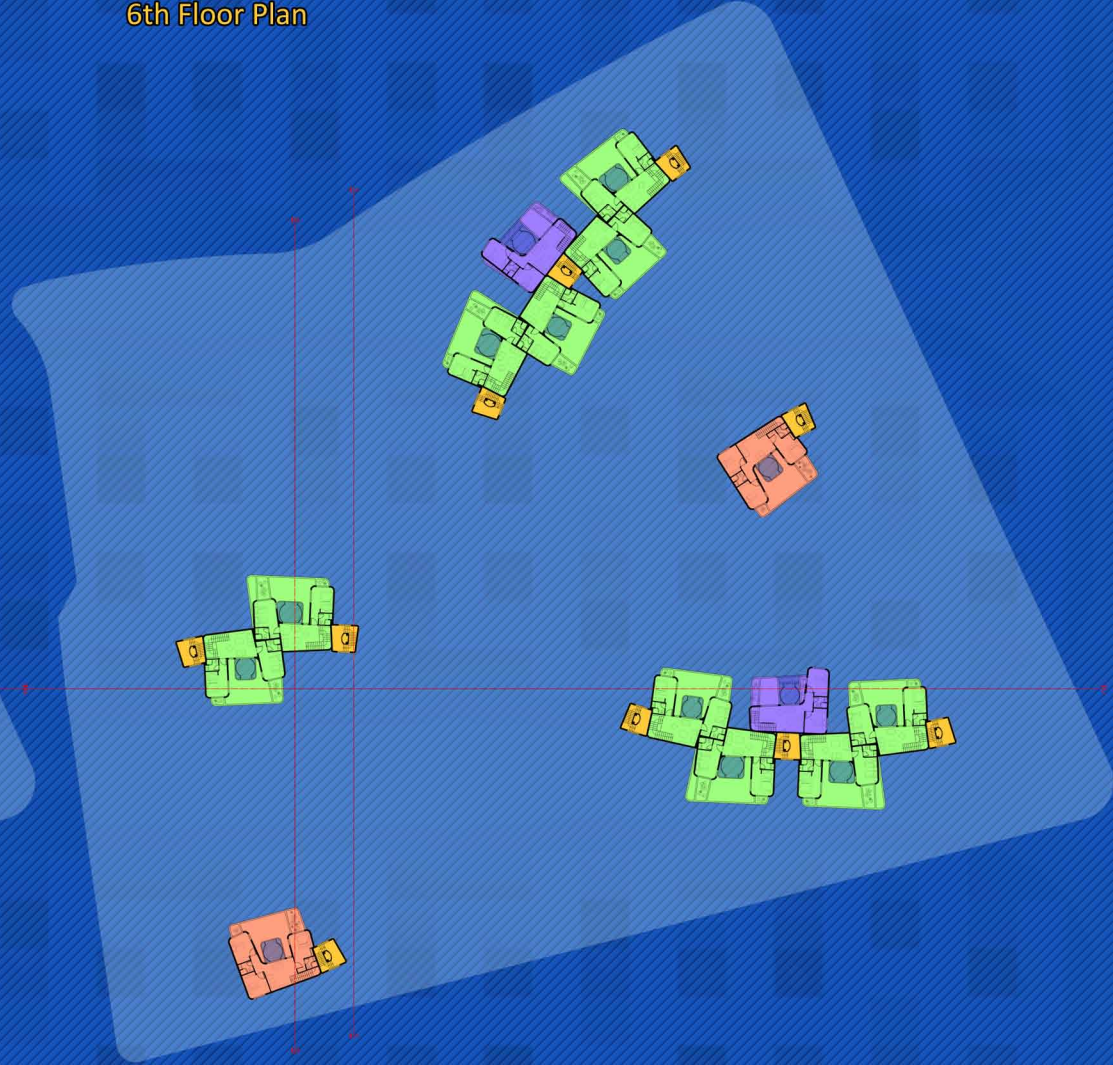


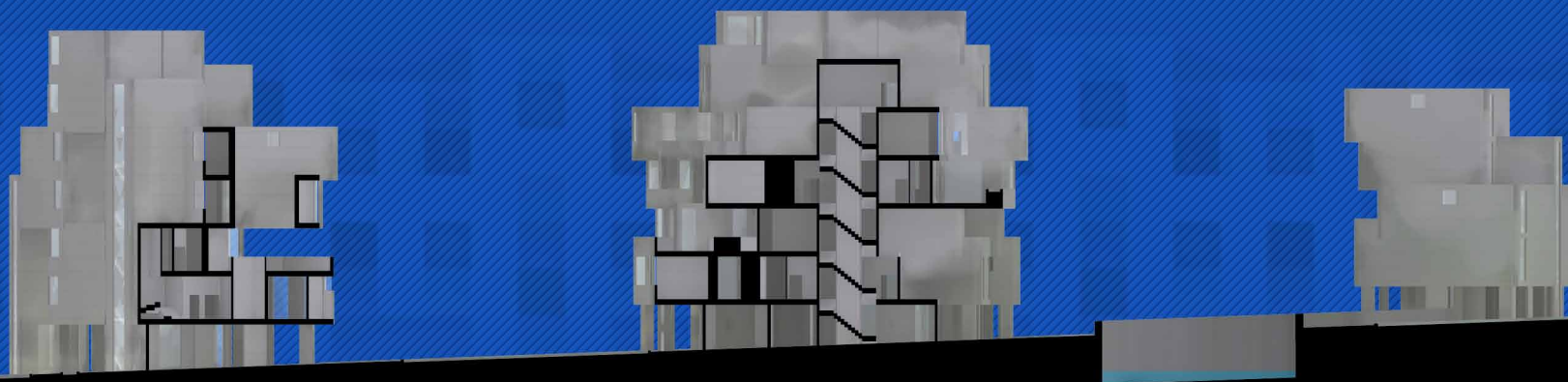


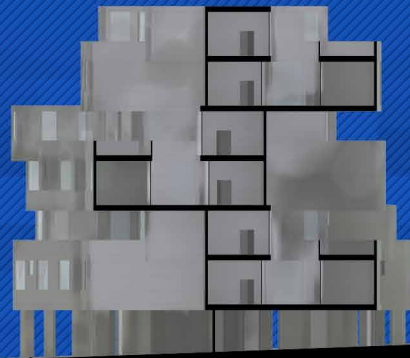
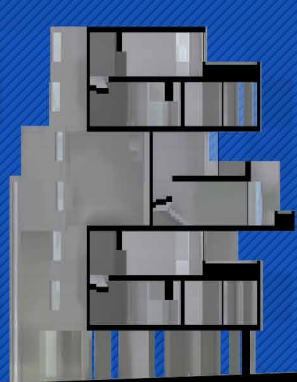
5th Floor Plan



6th Floor Plan







Bedroom Interior Design

Course Name:

Interior Design

Semester:

Spring 2010

Fifth year of Bachelor's program

Project Objective:

Interior design of a room or small house

Project Location:

My Room

Instructor:

Dr. F. Kaateb

Design Aims:

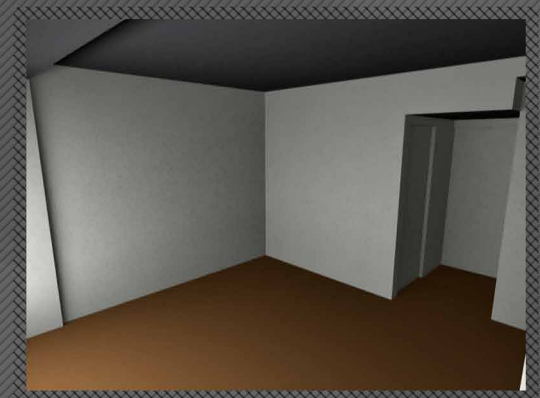
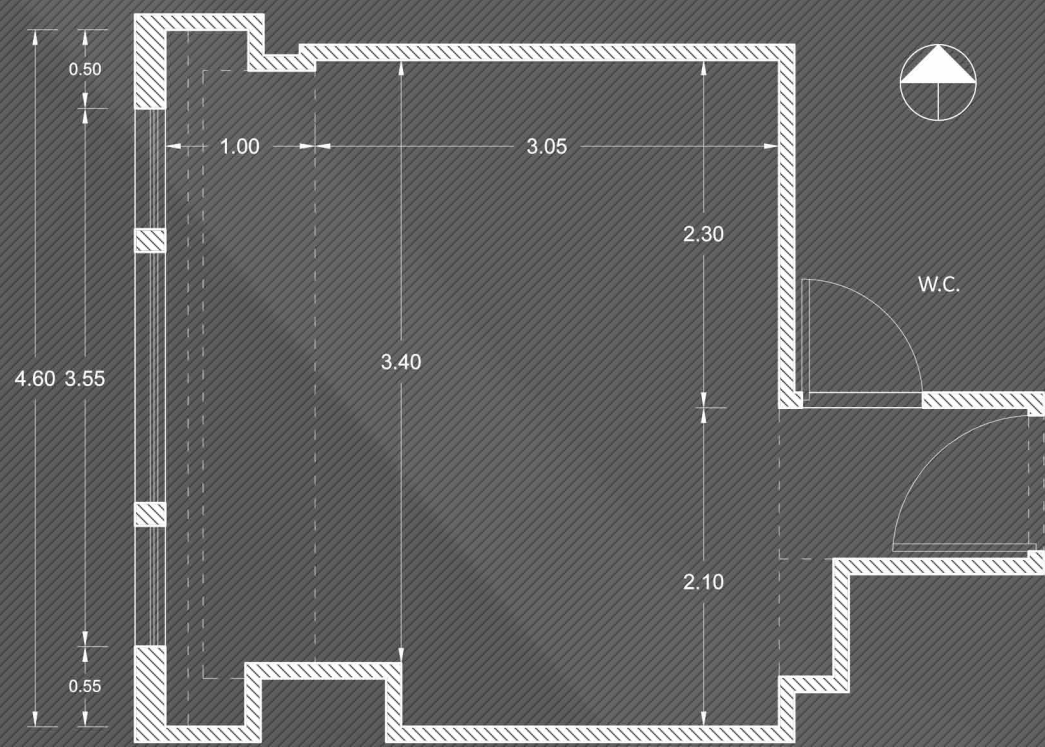
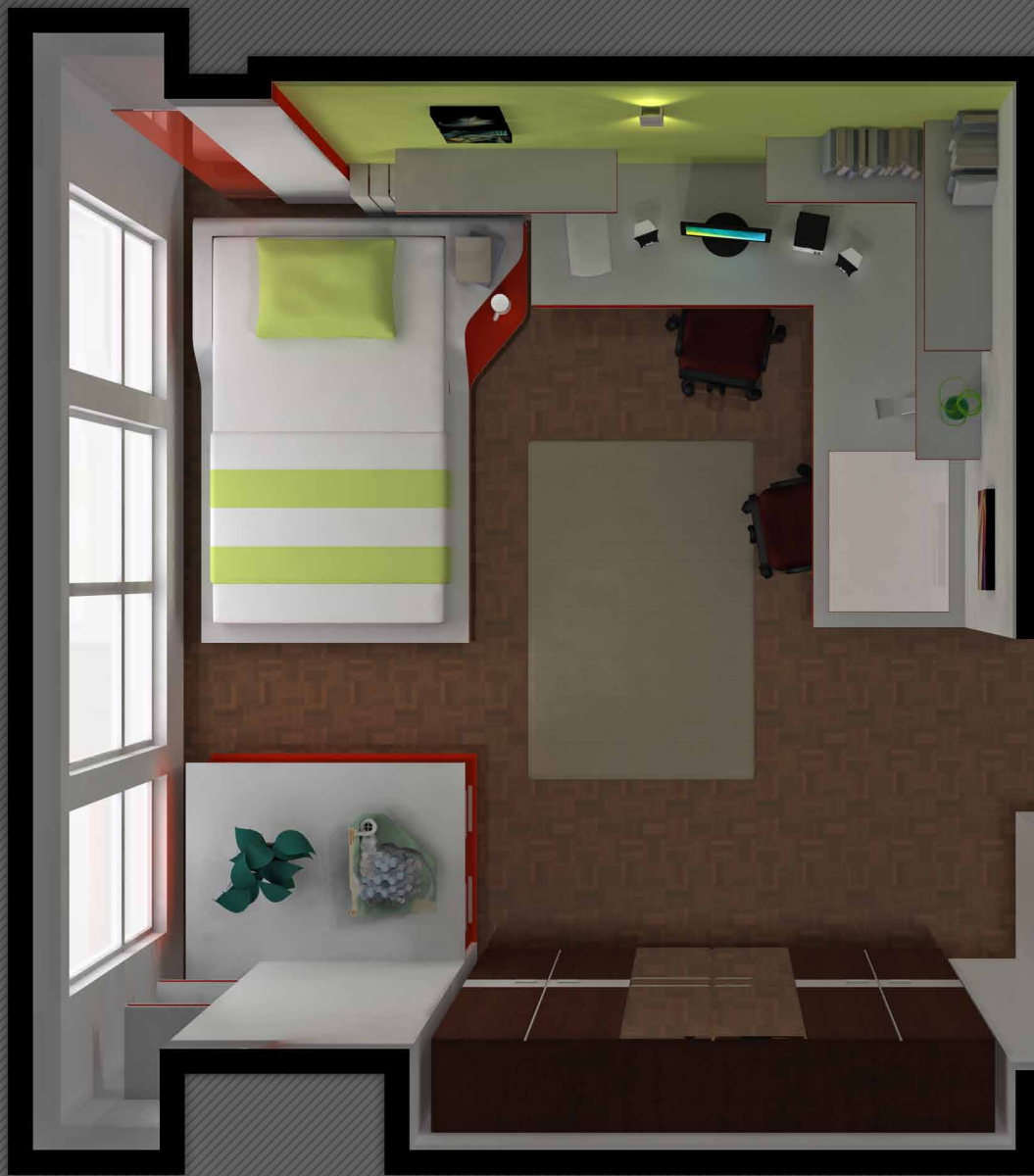
Achieving a design with visual balance

Creating an effective color scheme and lighting

Practical considerations when choosing furniture

Considering clients' taste and lifestyles

Perspective Plan



Vacant Room







S.M.S. Co. Office Interior Design

Employer:

Mr. Jafarpanaah

Date:

Summer 2008

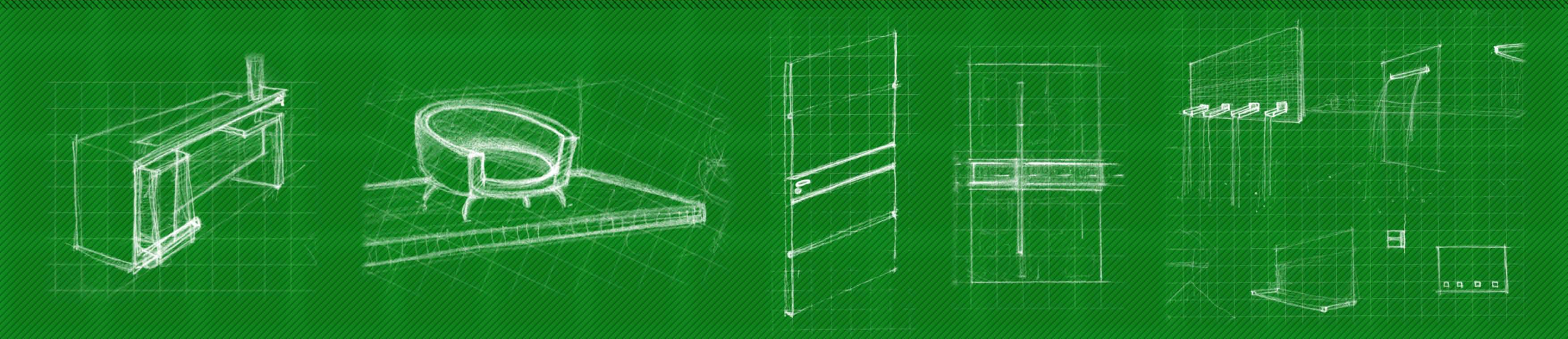
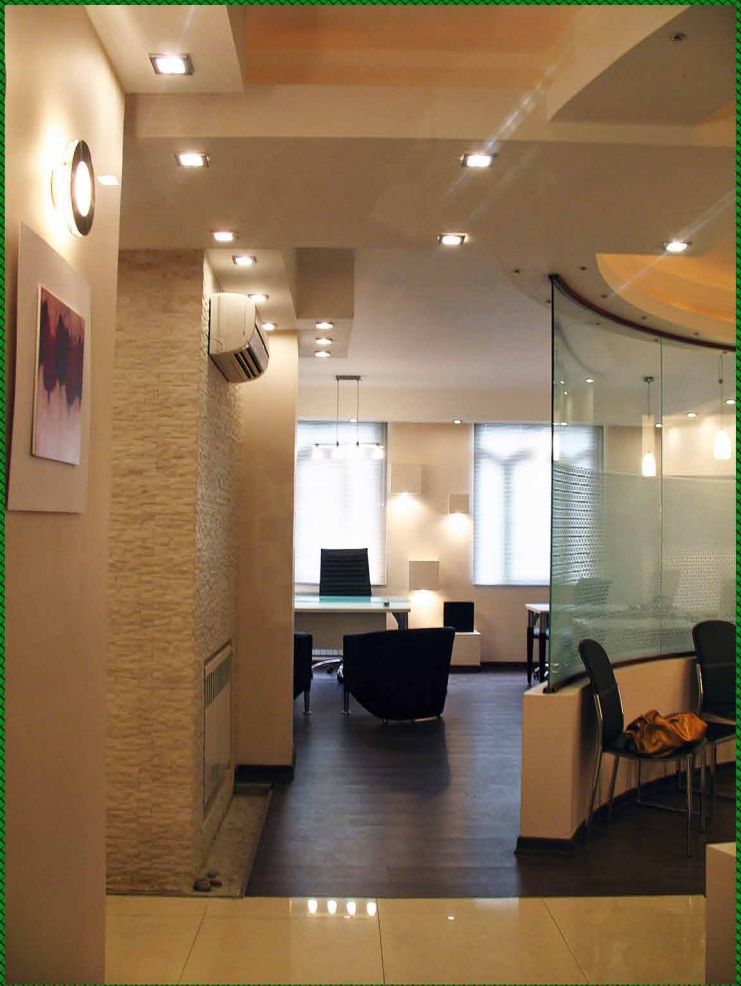
Project Objective:

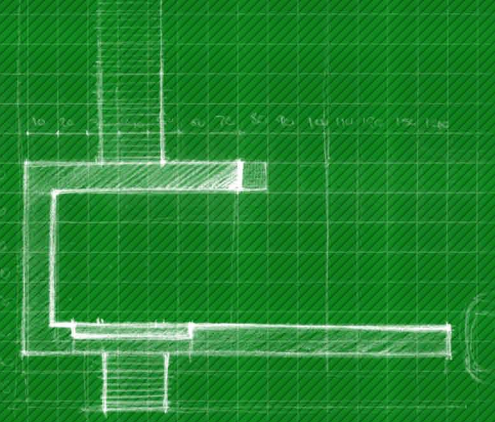
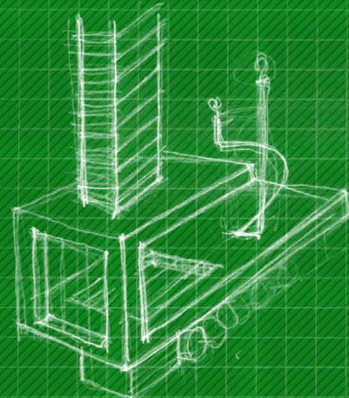
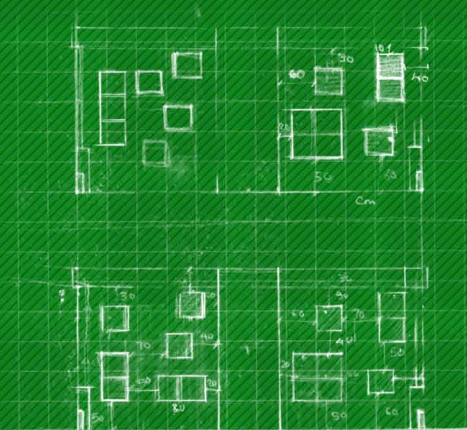
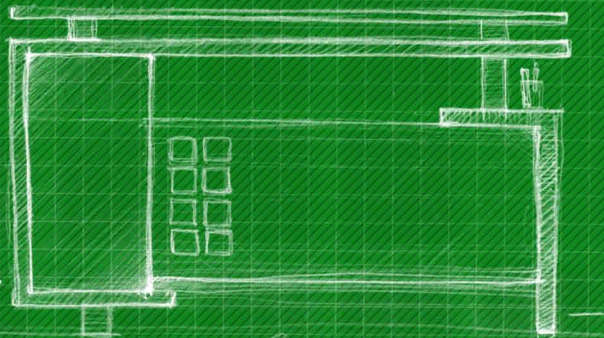
Interior design of a small office with low budget

Office Address:

Iranshahr Shomali, Karimkhan Street, Tehran

(Individual Project)





Photographs

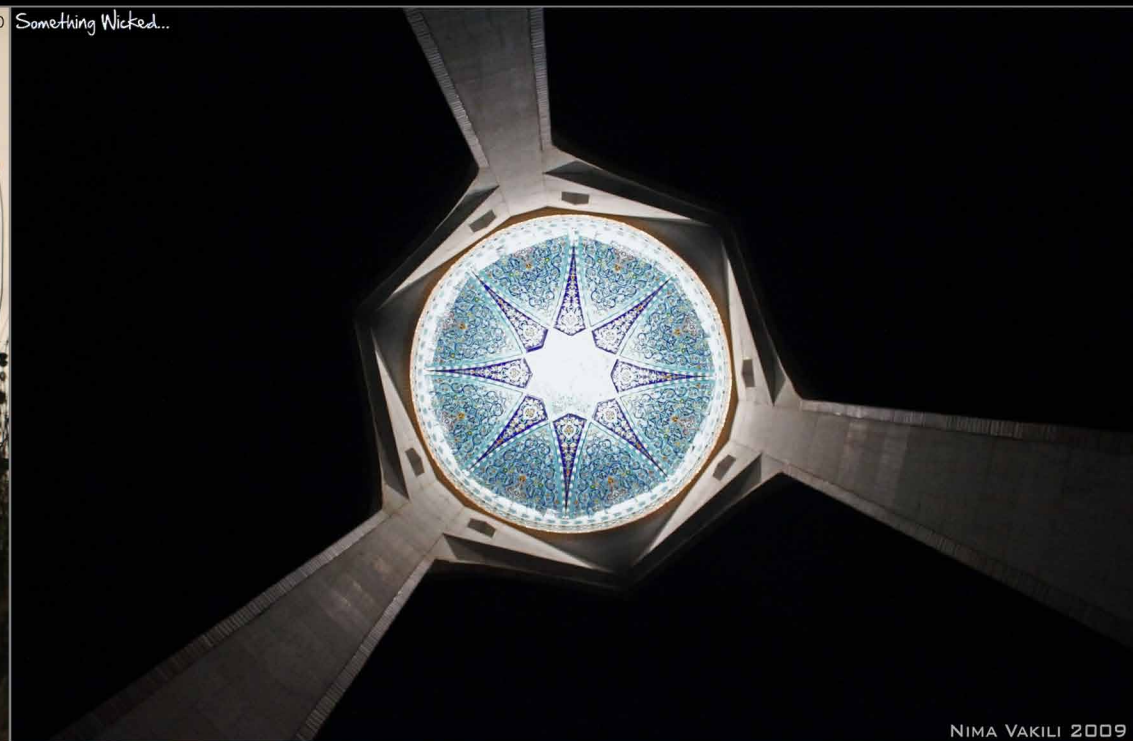
Selected photos taken by me

Defy...



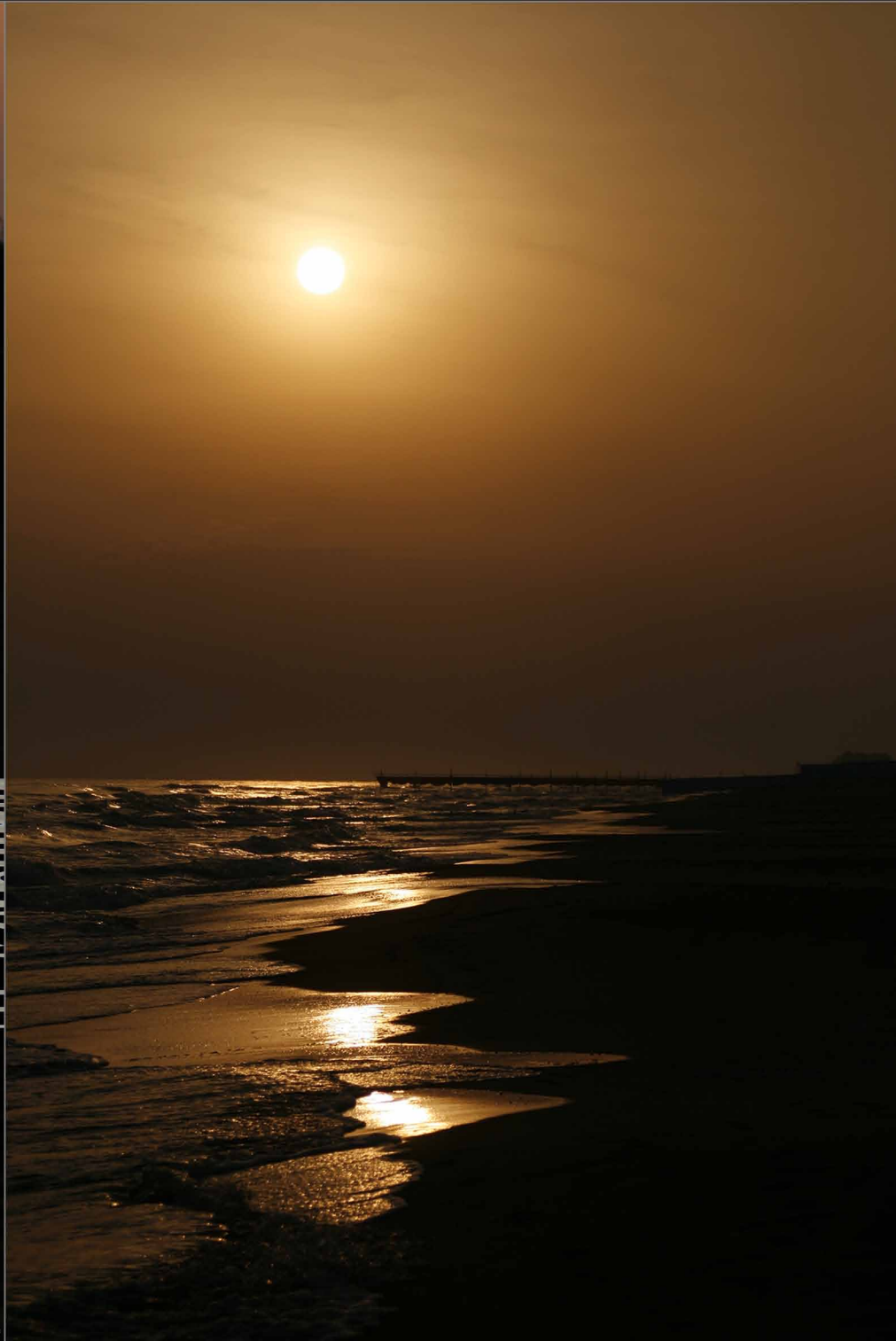
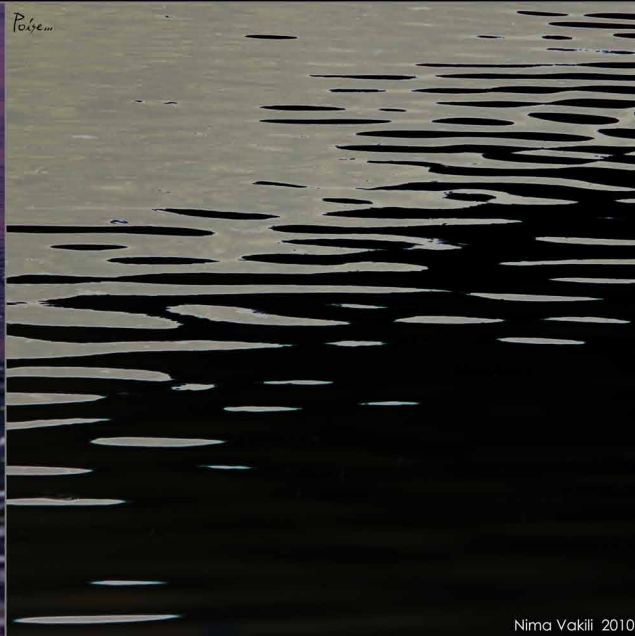
Nima Vakili 2010

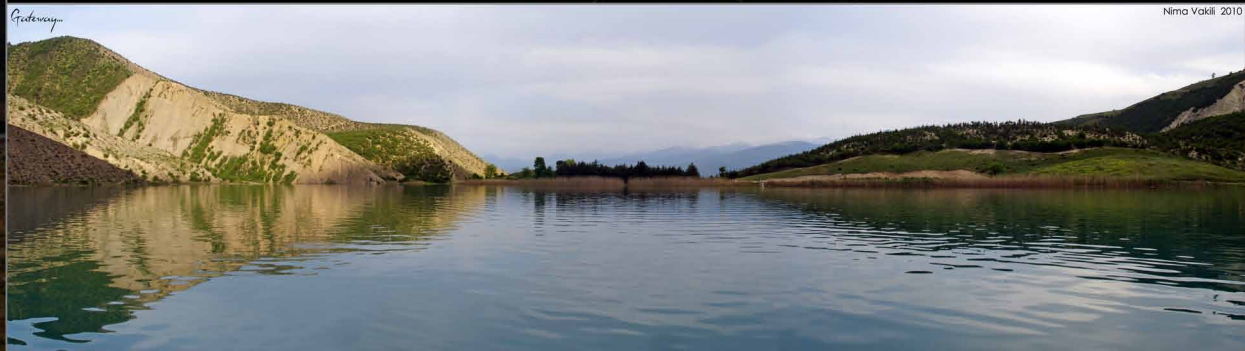
Something Wicked...



NIMA VAKILI 2009



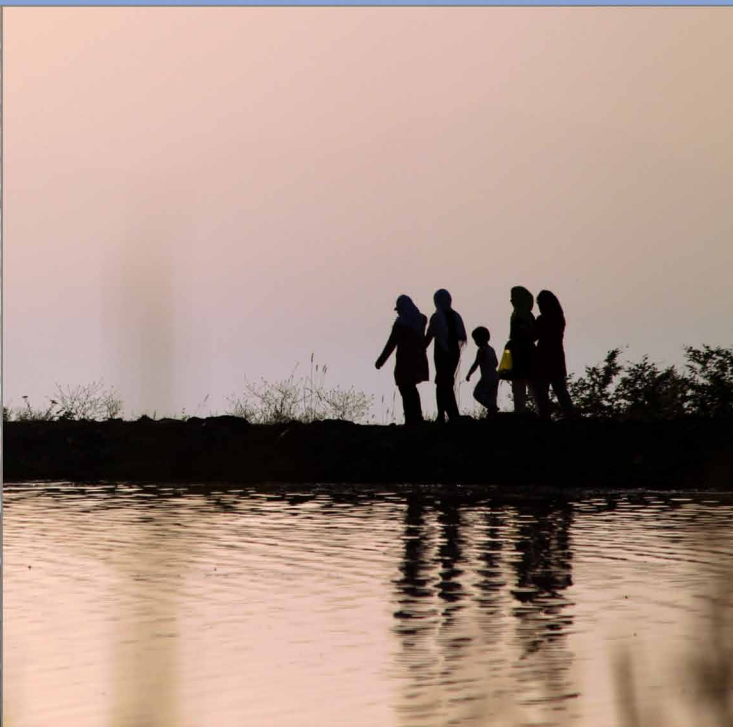
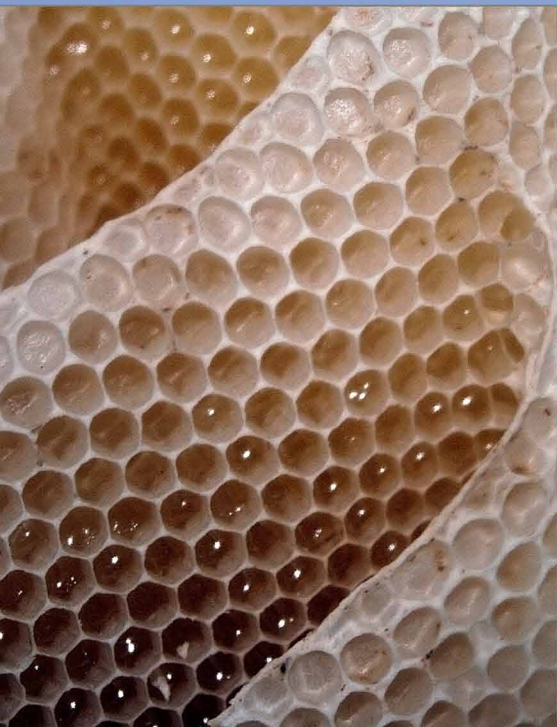




High is the Way...



Nima Vakili 2010

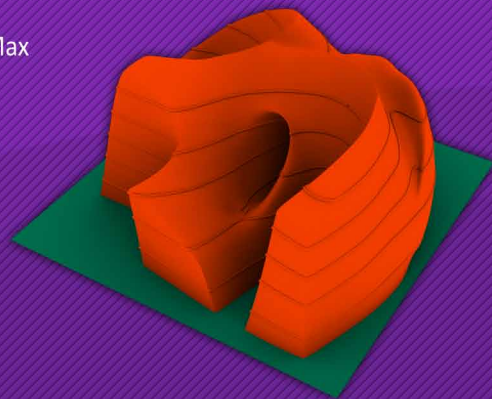
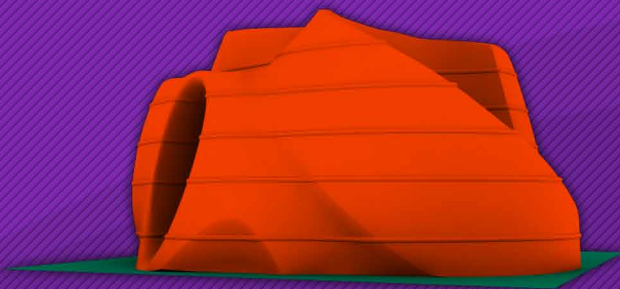


3D Modelings

Selected 3D models created by me

Poly Modeling

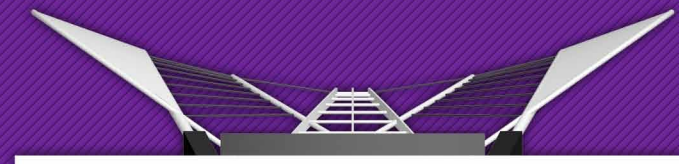
Reproduction of a free-form (organic) clay model in 3ds Max
(Done in 2 days)
2009



Model of an abstract brain
(Done in 1 day)
2006

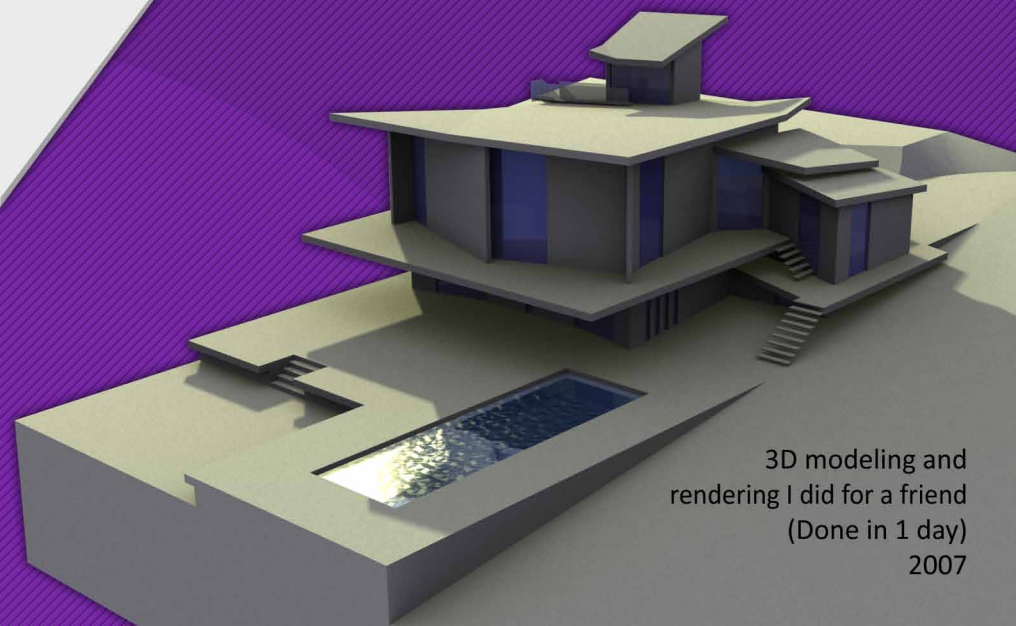
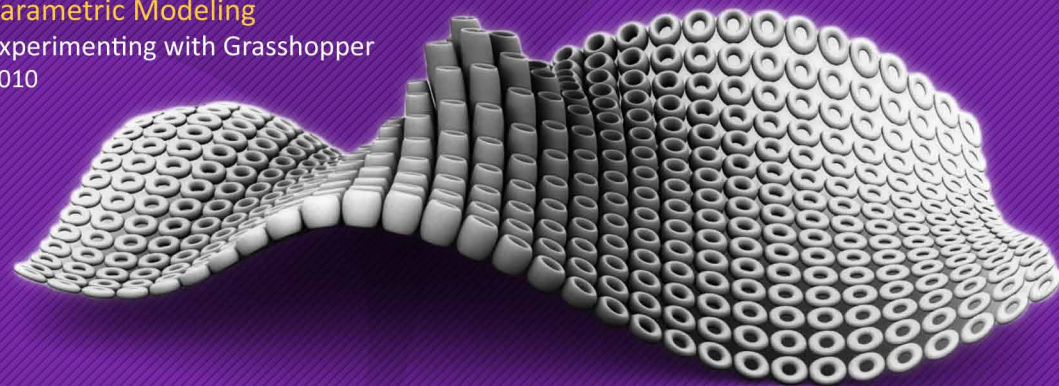


Designing and modeling
a long-span structure
(Done in 1 day)
2006



Parametric Modeling

Experimenting with Grasshopper
2010



3D modeling and rendering I did for a friend
(Done in 1 day)
2007

Nima Vakili

B.Arch, University of Tehran

nima.vkl@gmail.com