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ARCH. PORTFOLIO

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Architecture Design Portfolio

(2013 – present)

These project have been designed
by the architect
Leen A.Fatani

Projects



Residential Tower



**Urban Design in Al-Balad
Jeddah, KSA**



Children Medical Center



Nucleus Rehab Center



Affordable houses



Wonder Park

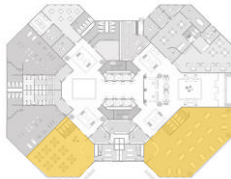


Concept

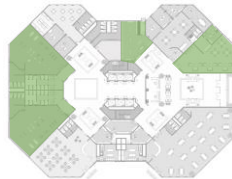
Designing a green building with structure that is environmentally responsible and resource-efficient throughout its life-cycle. These objectives expand and complement the classical building design concerns of economy, utility, Durability and comfort.

Floor Plan

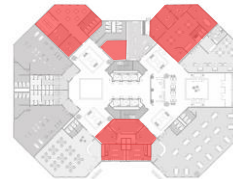
Ground Floor



- Public area

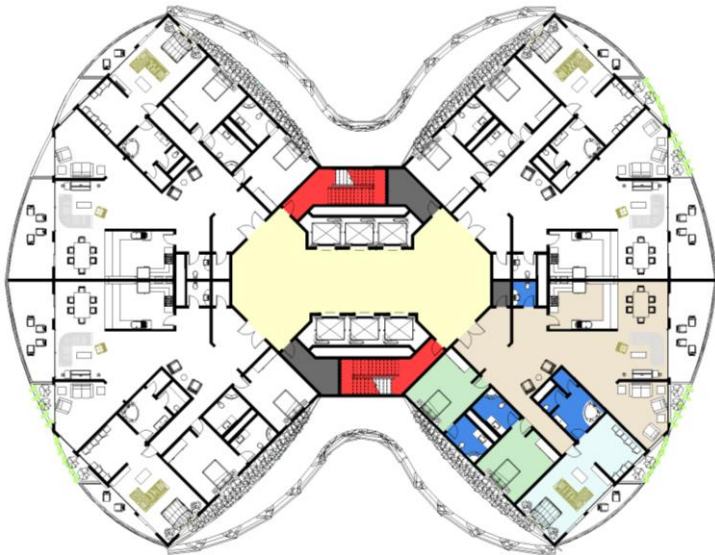


- semi-Public area



- Private area

Typical Floor



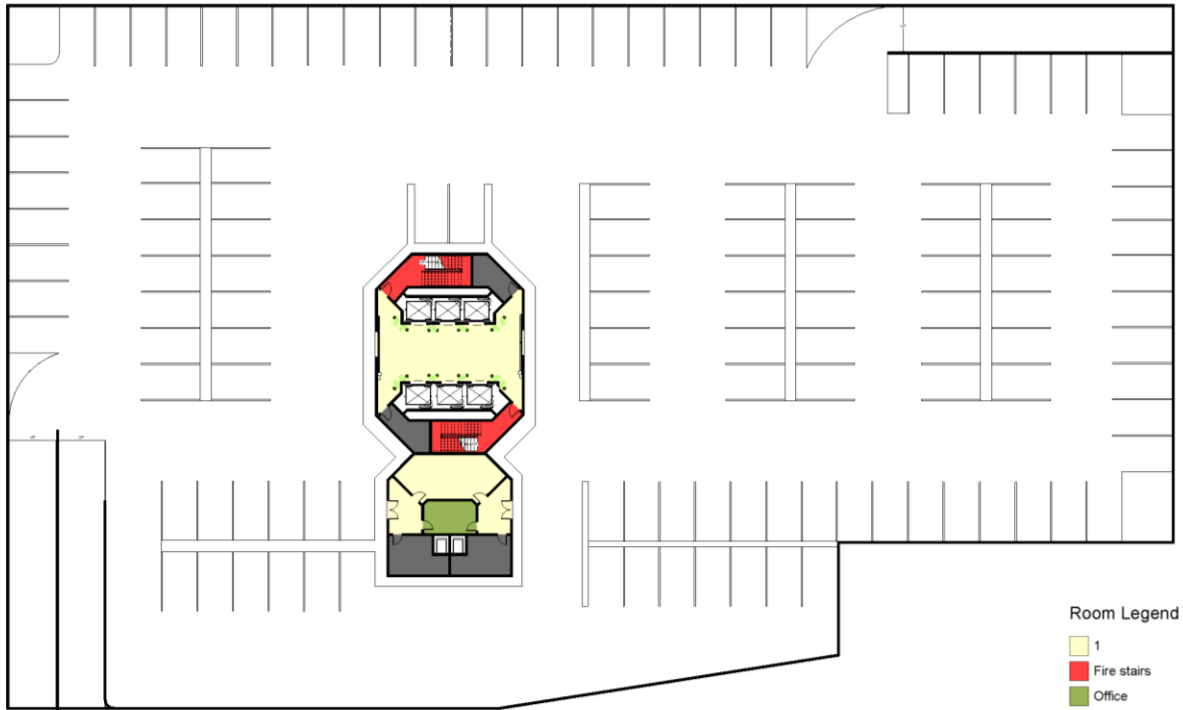
Room Legend

- Bed room
- Fire stairs
- Living room w/ Kitchen
- Lobby
- Master bed room
- Storage
- W/C

- The tower includes 36 typical floor
- Each floor includes 4 flats

01. Residential Tower

Basement



Room Legend

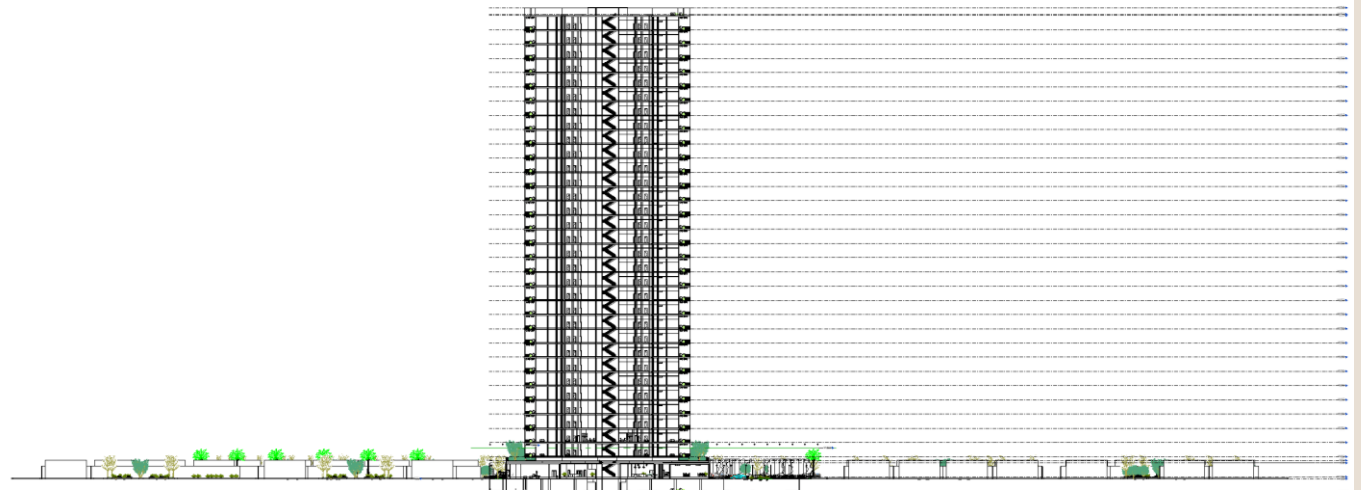
- 1
- Fire stairs
- Office
- Storage



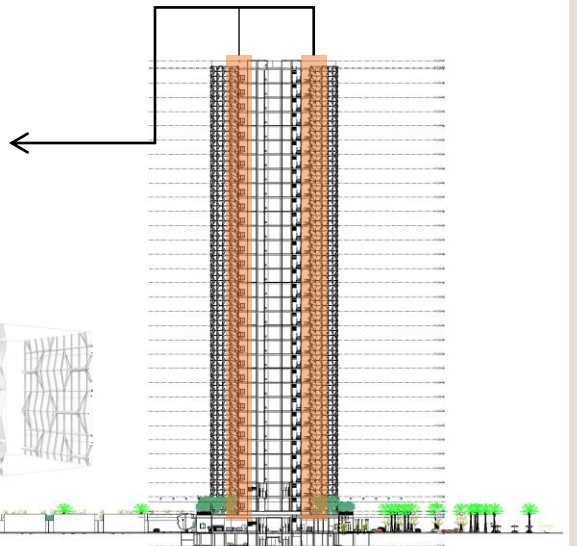
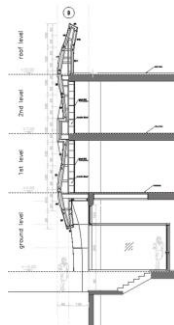
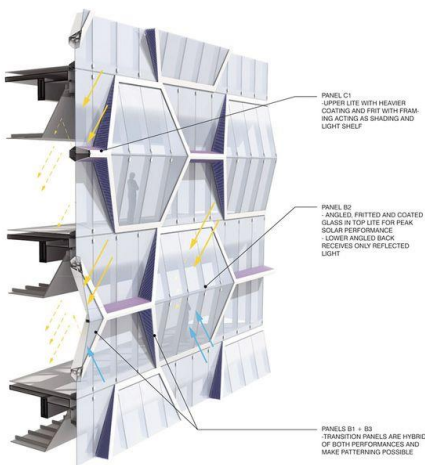
Elevation



Section 1

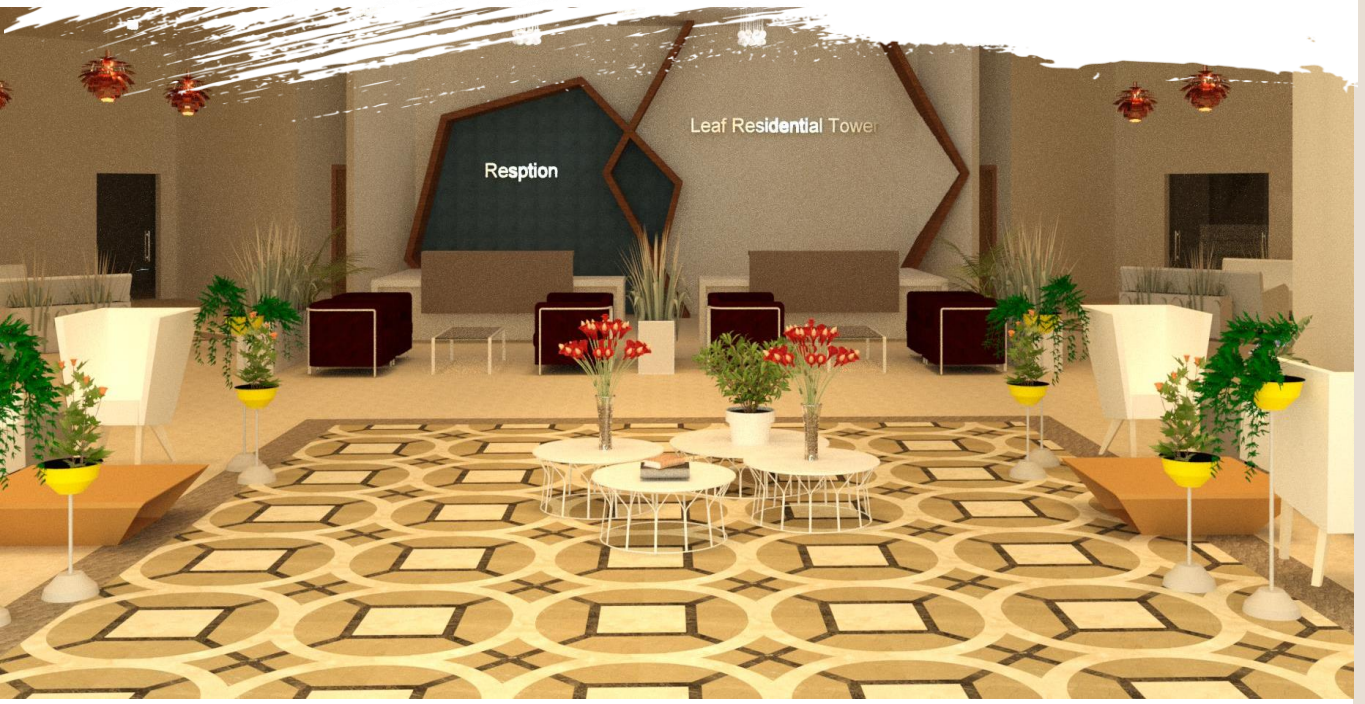


Section 2



01. Residential Tower







Introduction

In the frame of the continuous effort of Kingdom of Saudi Arabia in upgrading and redevelopment of the old and historic areas in all its regions, the government adopted a comprehensive program for enhancing these areas from the different aspects: "environmental-urban-social and economic aspects".

One of these efforts was the upgrading of the Al-Balad historic area project. The project encompasses the restoration of historic buildings and the renewal of the urban environment.

The area represents an important cultural and historic design. But to help this project perform its role, there should be a comprehensive development plan for the area and its surroundings.

Concept

The revival of the historical Jeddah and design it as a tourists attention

Vision

1. Make connections between people and place, movement and urban form, nature and built environment.
2. Adopt sustainable approach for development.
3. Preserve the heritage and maintain the historical style of the area
4. Encourage people to walk within interesting.



02.

Urban Design in Al-Balad Jeddah, KSA

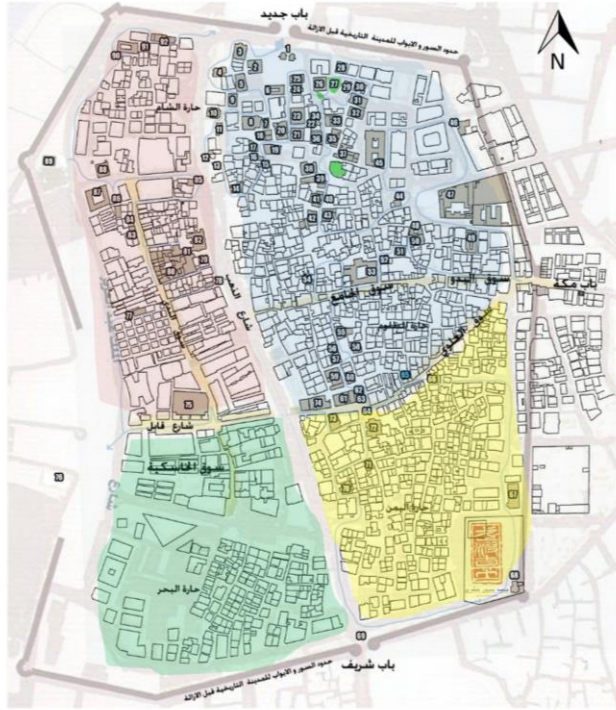
Site Location



Jeddah



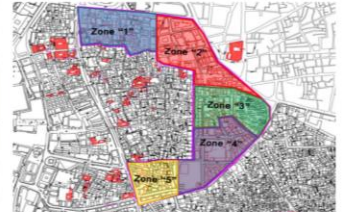
- Al-Sham Lane
- Al-Bahar Lane
- Al-Mathlom Lane
- Al-Yemen Lane



Study area



Zones

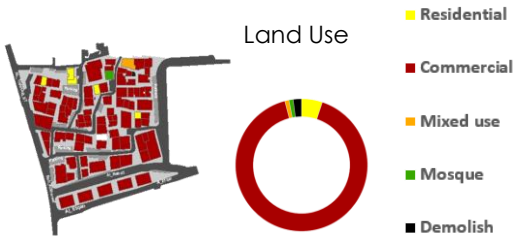


Zone 5



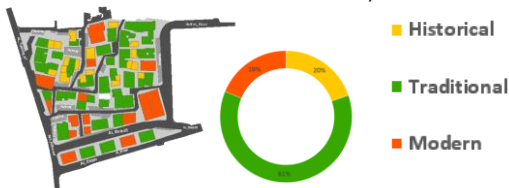
Urban Analysis

Land Use

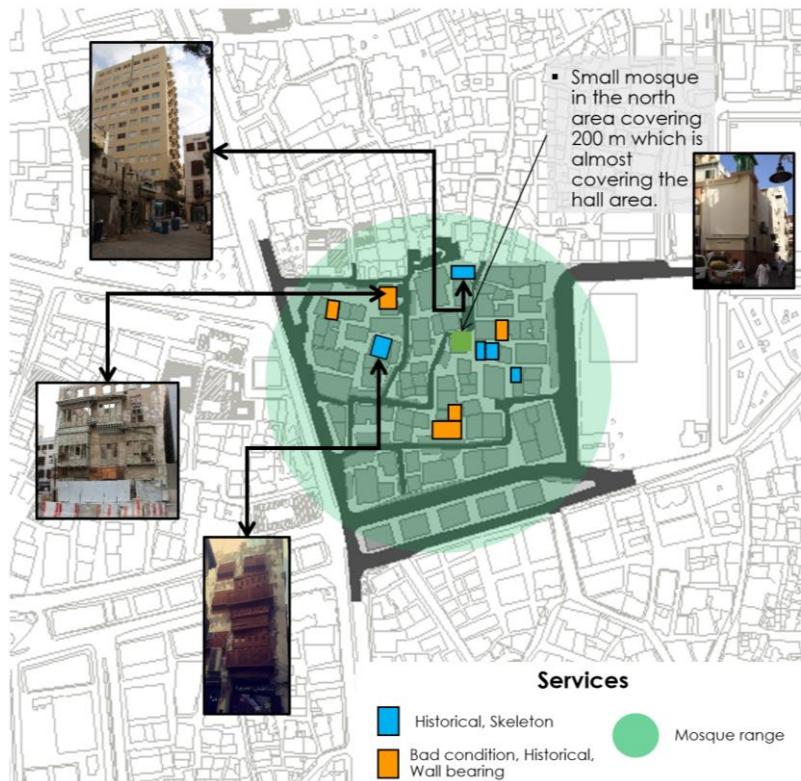


- 91% of the ground use are commercial.
- Only 5% of ground use are residential or other uses and 1% are mixed use.
- One mosque existed in the area.

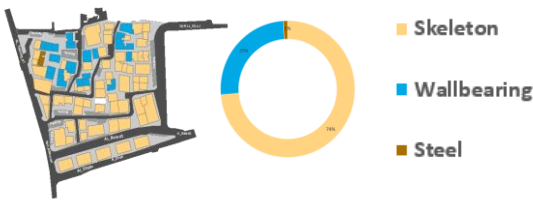
Architectural style



- 20% of buildings are built with a historical style, most in the north side of the area and some are in a bad condition.
- And the most buildings are built with traditional style taking 61% of the area and its almost between good and moderate condition.

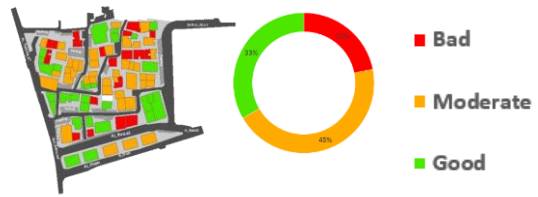


Construction Type



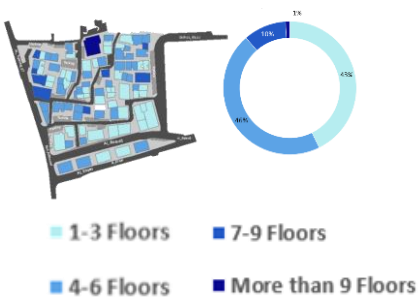
- 74% of the buildings are built with a skeleton construction type most of them are modern and traditional style buildings.
- The other 25% are wall bearing most of them are historical buildings.

Buildings Condition

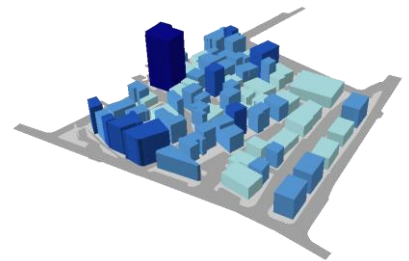


- There is a balance between buildings condition, 45% are in moderate condition, 33% in a good condition, most of them are a modern and traditional style.
- 22% are in bad condition, only few of them are not able to live in.

Buildings Heights



- 46% of the buildings are between 4 to 6 floors which is the average number of floors.
- Less percentage in between 7 to 9 floors.
- And with more than 9 floors there is only one building located in the north side of the area and it's a residential building with 14 floors.



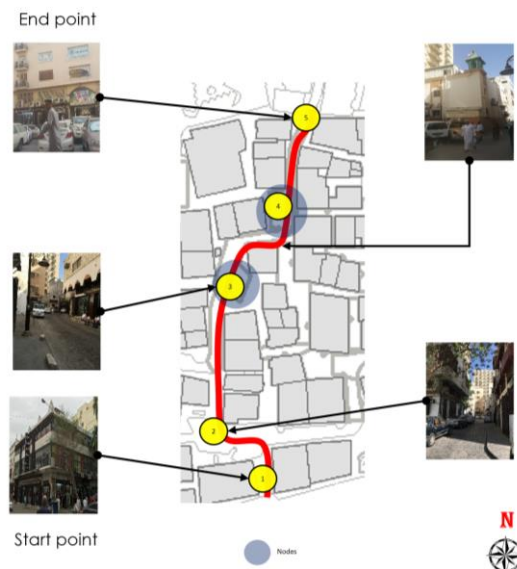
The New Master plan



The existing land use for the area is one mosque and few residential ground.

The project is aiming to give it the same ground use but with a change is some function to attract tourist and adding restaurant and cafes to the area serving the people who are going to visit the site

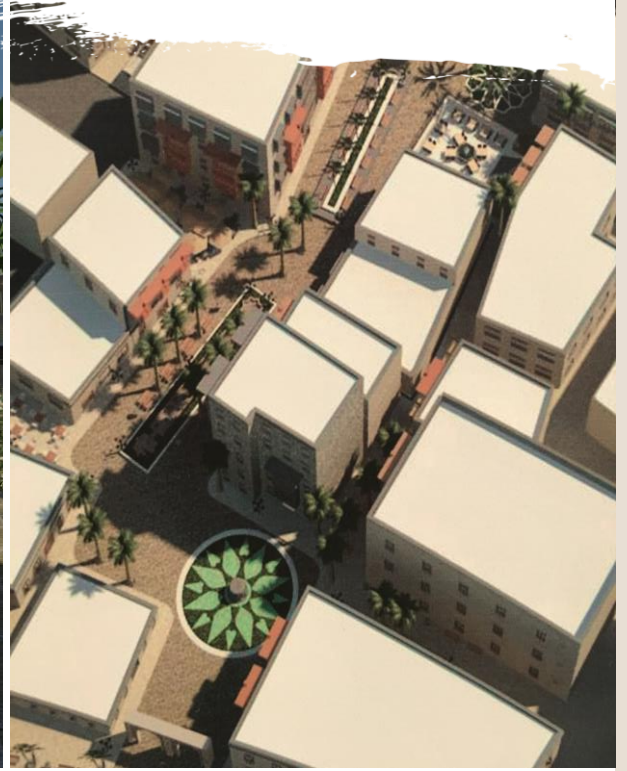
Serial vision



02.

Urban Design in Al-Balad Jeddah, KSA





03.

Children Medical Center



Concept

Children medical center are dedicated to providing the best paediatric care for patients, families, and communities. As part of this commitment, the medical is working to provide an environment that is healthy and safe for the children and employees and ensuring its preservation for their future.

Discretion

The Care-Giving Core:

The design and planning process focused extensively on maximizing efficiency for staff while creating a welcoming interface between the collaborative support core and the patient-care area. Each patient floor features two identical nurses stations, which are backed up by their own support services.

Inpatient Care:

- The center will include more than 50 rooms for the patient. also, the center is aiming not just to heal the children but make the replace the fairness and complexity into joy and relaxing. the centre will include a zoo that patients and people from outside can visit.
- Children entering the Emergency Department are greeted with playful colours, ocean themes, and an interactive digital fish tank display. Children can create personal “fish avatars” that appear in the virtual aquarium.
- The physical therapy floor features a sun-filled playroom. The room is designed to provide a space outside of the patient room to relax, play, and interact with other children. The playroom is located in the corner of the floor plate, creating an opportunity to have floor to ceiling glass windows that capture 135° of sunlight.



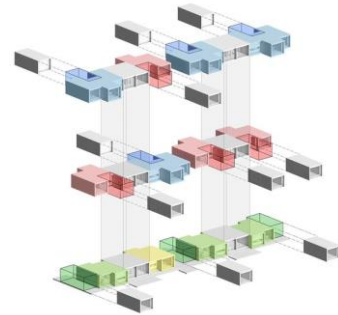
03. Children Medical Center

Families as Part of the Care-Giving Team

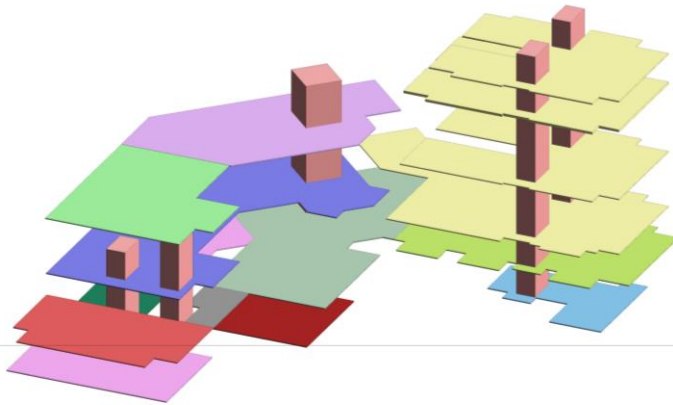
The patient rooms encourage active participation by the family in the healing process. Each single patient room includes a family zone with thoughtful amenities like separate TVs, reading lights, wifi, and storage. Family rooms on the inpatient floors create an area of respite where families can resume a semblance of routine, apart from the stress of medical treatment.

Façade

The exterior design intended to create a landmark. Create an art wall by using paints by making each patient room has different colours. the used colour in the facade is representing the Lego blocks.



Circulation Studies



Room Legend

- | | | |
|------------------|-----------------|------------------|
| C.S.S.D | Administration | Healing Garden |
| Kitchen | E.R | Physical Therapy |
| Laboratory | Medical Reports | Inpatient |
| Laundry | O.P.D | Operation |
| Radiology | Resption | |
| Support Services | | |



Floor Plan

Ground Floor



03. Children Medical Center

Floor Plan

First Floor



Room Legend

- 1
- Anesthetic
- Bay service
- Cafe
- Change room
- Electrical
- ICU
- Isolation room
- Kitchen
- Mechanical
- Nursery
- Office
- Operating
- Patient room
- Recovery bay
- Solid utility
- Solid utility
- Storage
- Supply room
- Toilet
- Transfer Room
- Treatment
- waiting area f



- Inpatient dept.



- Patient service



- Operation dept.



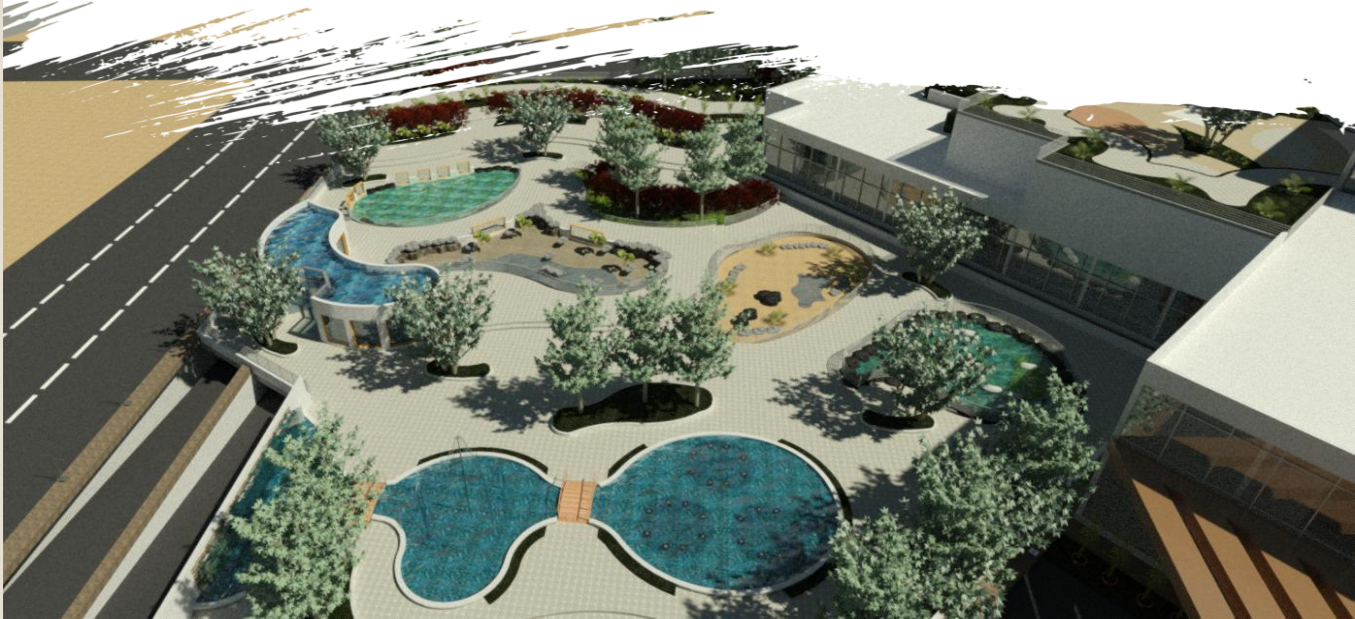
- Semi-private



- private



- Clean area



Second Floor



- Inpatient dept.



- Physical therapy



- Health garden



- Semi-private

Third Floor



Fourth Floor



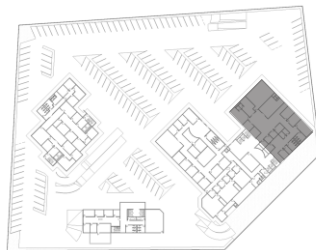
03. Children Medical Center

Floor Plan

- Basement



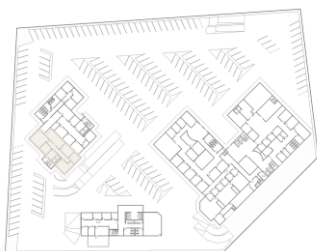
- Laboratory dept.



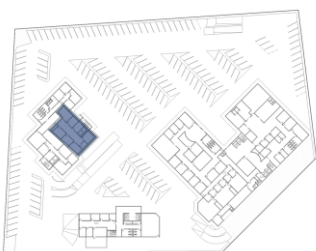
- Radiology dept.



- CSSD dept.



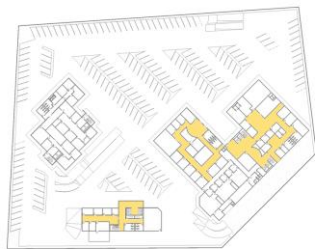
- Kitchen dept.



- laundry dept.



- Services dept.



- Semi-private



- private

Section 1



Section 2



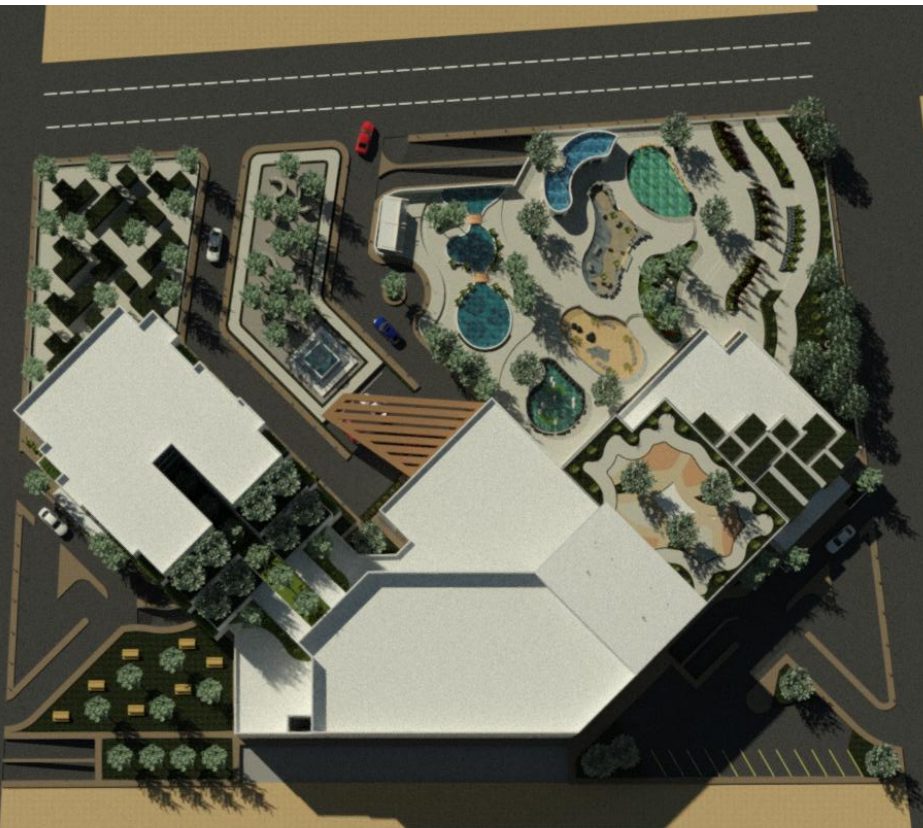
Elevation 1



Elevation 2



Site plan



03.

Children Medical Center





04.

Nucleus Rehab Center



Concept

It is the intermediate step between reform school and penitentiaries. The project seek not only to discipline, But to reform the men who come within its jurisdiction.

It attempts , also to rehabilitate the men who leave it door, to help them find new places for themselves in the social structure outside the high grey walls.

The first constriction of the state of ohio had these prophetic words written into it.

Mission

- To make the children have a good, pure healthy brain, and act in a behaviour way instead of the madness.
- Exploitation of daily activities by read to the children's books that discuss values and ethics through interesting stories, or give them books that teach them the values will install in them.
- Encourage children to take on challenges for integral part of life. Encouraging the child can lead to useful challenges such as planting a garden with your children so that they learn the value of maintaining and not cutting the plant.
- To enhance the lives of children and families by helping parents meet the financial by establishing and enforcing.

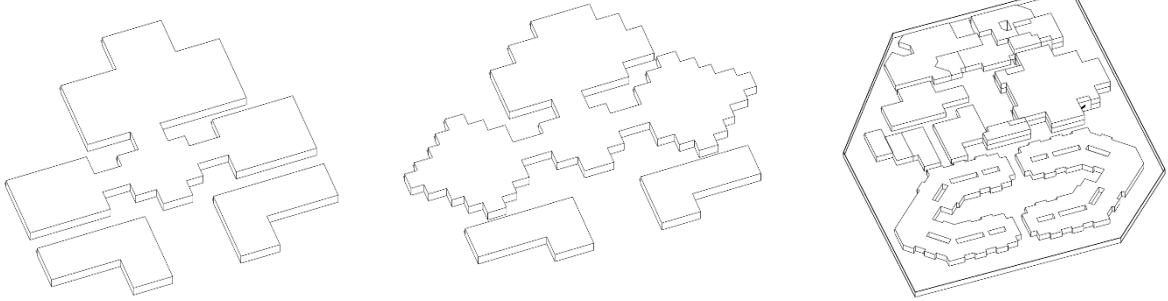
Vision & Goal

To figure this out, the project will be a more habitation than lock them. It will Approaches to HIV prevention, treatment, care and support services to prisoners, also it will have clinic if someone of them got into bad health situation. Also, the center would like to provide the children basics on which to devolve into free, morally responsible and integrity individuals and to help every child fulfill his unique space in this world.

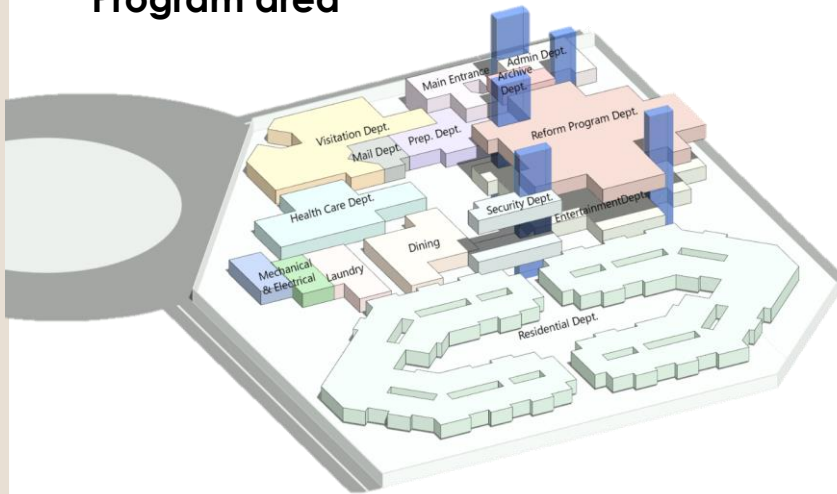


04. Nucleus Rehab Center

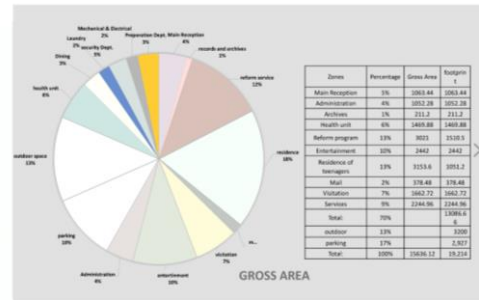
Conceptual 3D plan



Program area



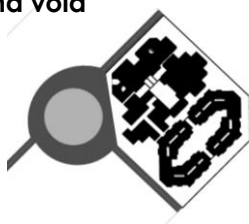
Space area



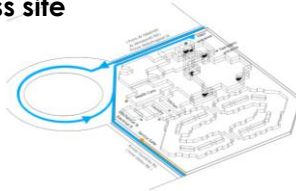
Matrix

CRITERIA MATRIX		DO VISITOR ACCESS		PUBLIC ACCESS		VISITOR PROHIBITED		PROHIBITED	
		RECEPTION	ENTRANCE	ENTRANCE	ENTRANCE	ENTRANCE	ENTRANCE	ENTRANCE	ENTRANCE
1. Main Reception	177.24	2,4	H	Y	N	Y	N	N	
2. Administration	175.36	4	M	Y	L	Y	N	N	
3. Preparation	245.6	2	L	N	H	Y	Y	N	
4. Archives	35.2	2	L	N	H	Y	N	N	
5. Health unit	344.98	6	L	I	H	Y	Y	Y	
6. Reform program	503.5	5,8	L	I	Y	Y	Y	Y	
7. Entertainment	407	6	L	Y	Y	Y	Y	Y	
8. Residence of teenagers	525.6	6,10	X	I	Y	Y	N	N	
9. Mail	63.08	10	L	I	M	Y	N	N	
10. Visitation	277.12	8	M	Y	M	Y	N	N	
11. Services	374.16		X	I	X	Y	Y	Y	

Solid and void



Access site



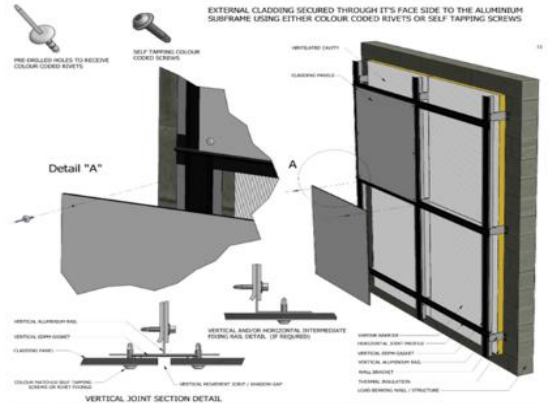
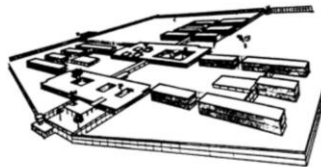
Structural system

Structural style : Skeleton System
Structural Marital : reinforcement concrete and steel

Room will contains:
4 beds
6 beds

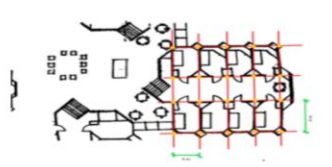
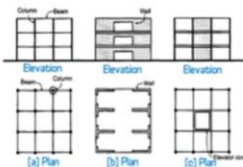
Every 8 rooms will be grouped in one unit

The reformatory it will be designed in one to two levels maximum for security the extend will be oriental

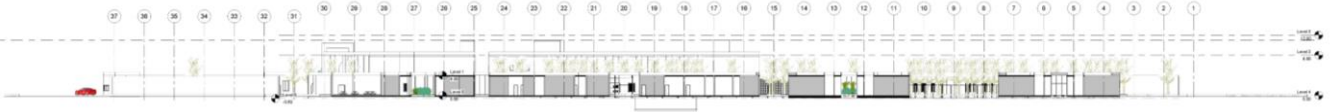


Exterior wall will be used by concert then installing cladding panels with different size and different shapes

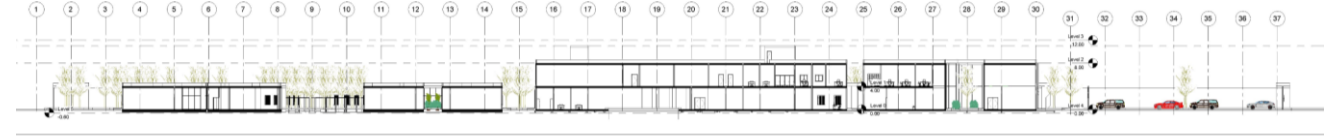
The panels will fixed on the wall by steel frame



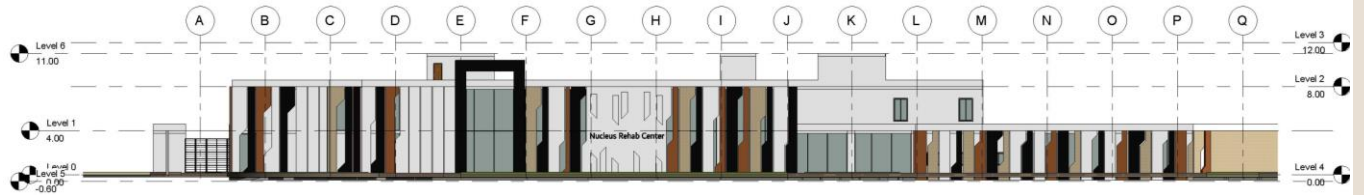
Section 1



Section 2



Elevation 1



Elevation 2



Elevation 3



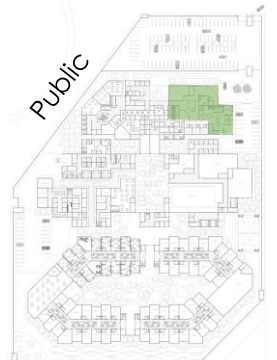
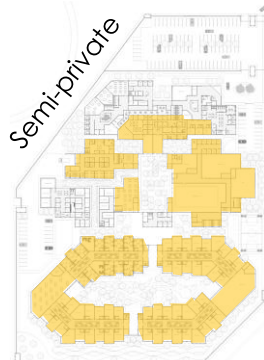
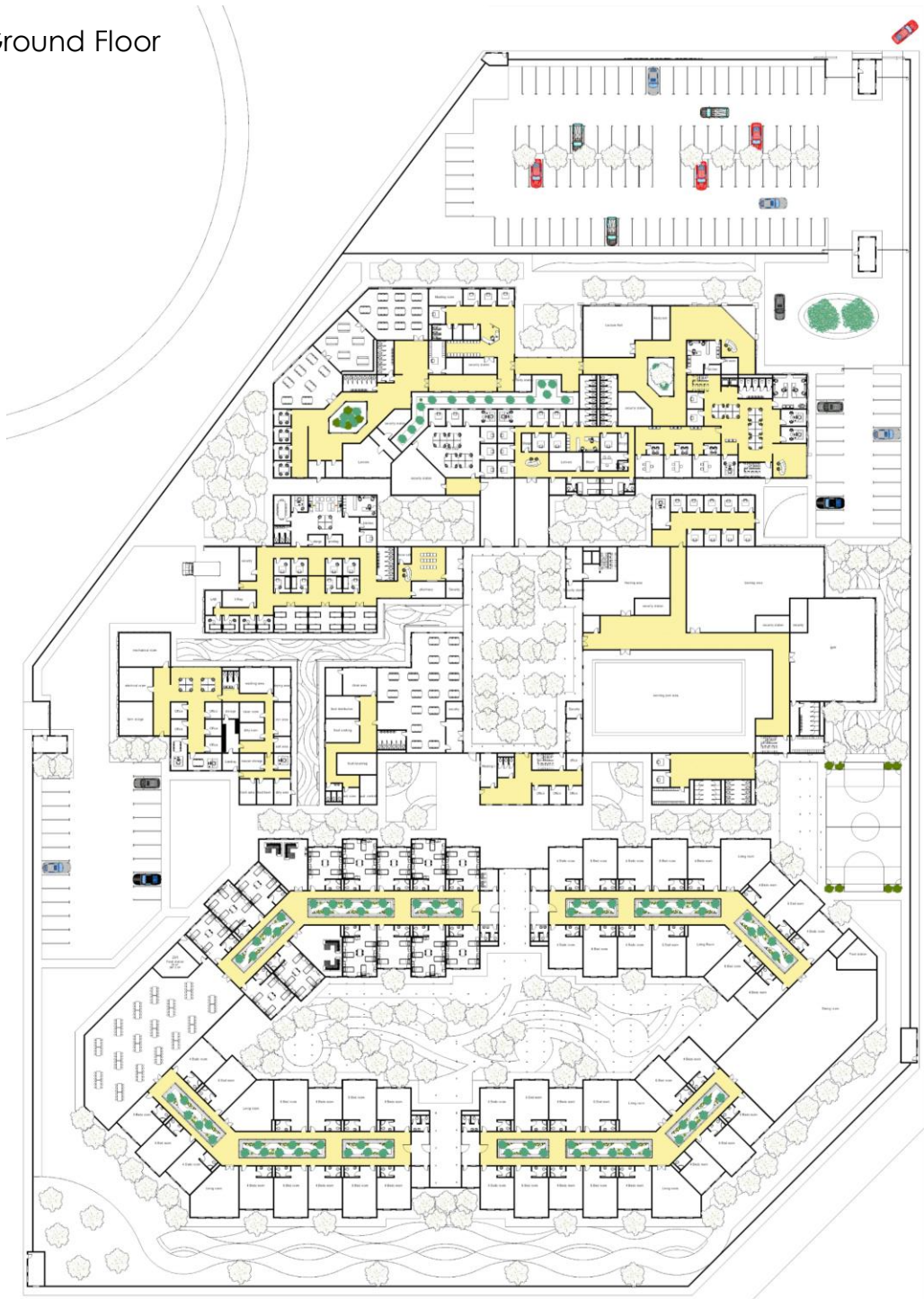
Site plan



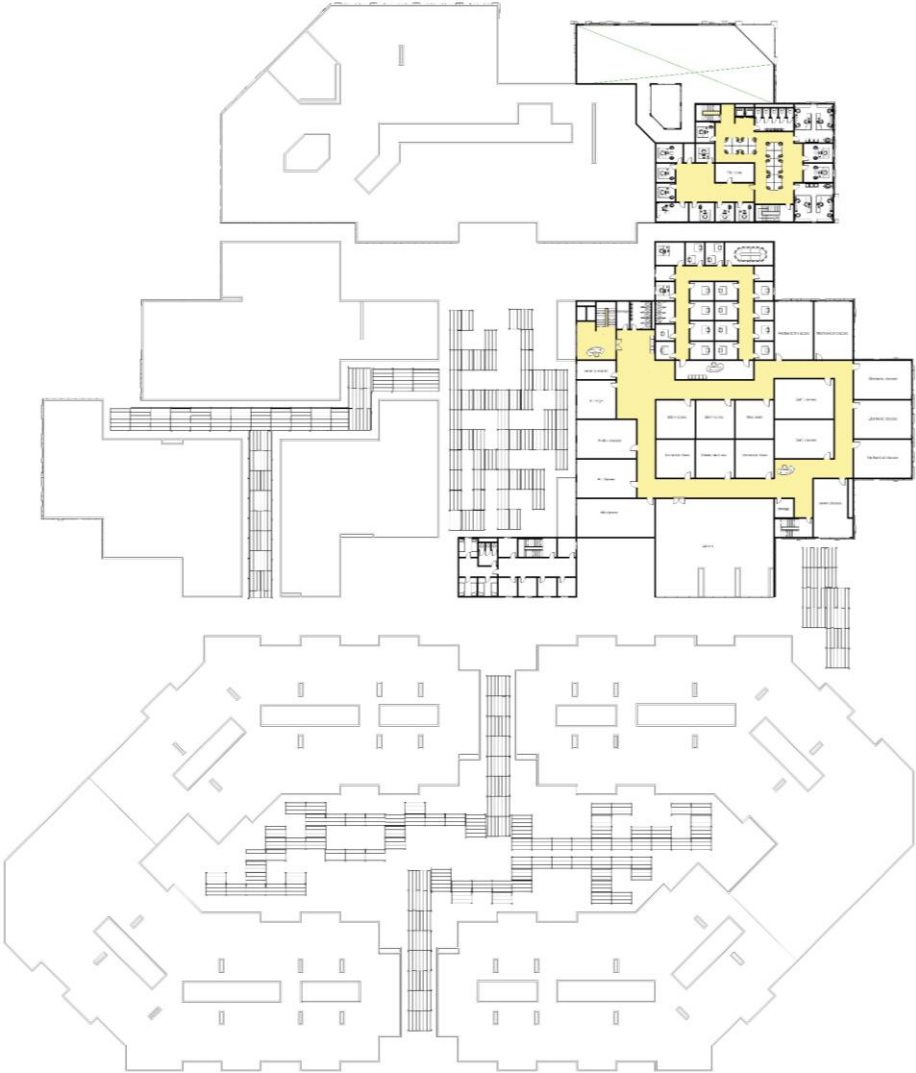
04. Nucleus Rehab Center

Floor Plan

- Ground Floor



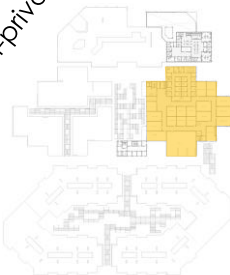
- First Floor



Private



Semi-private

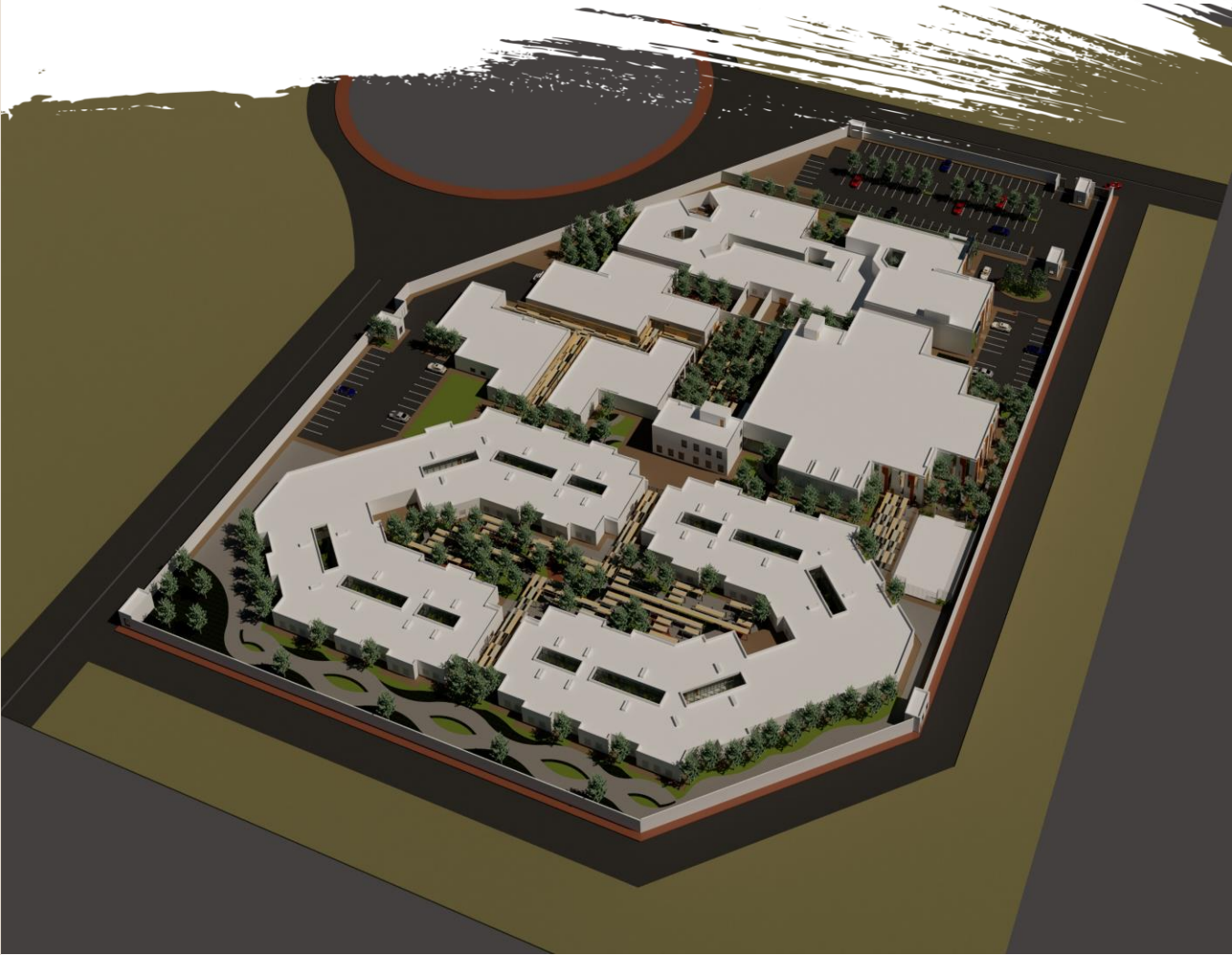


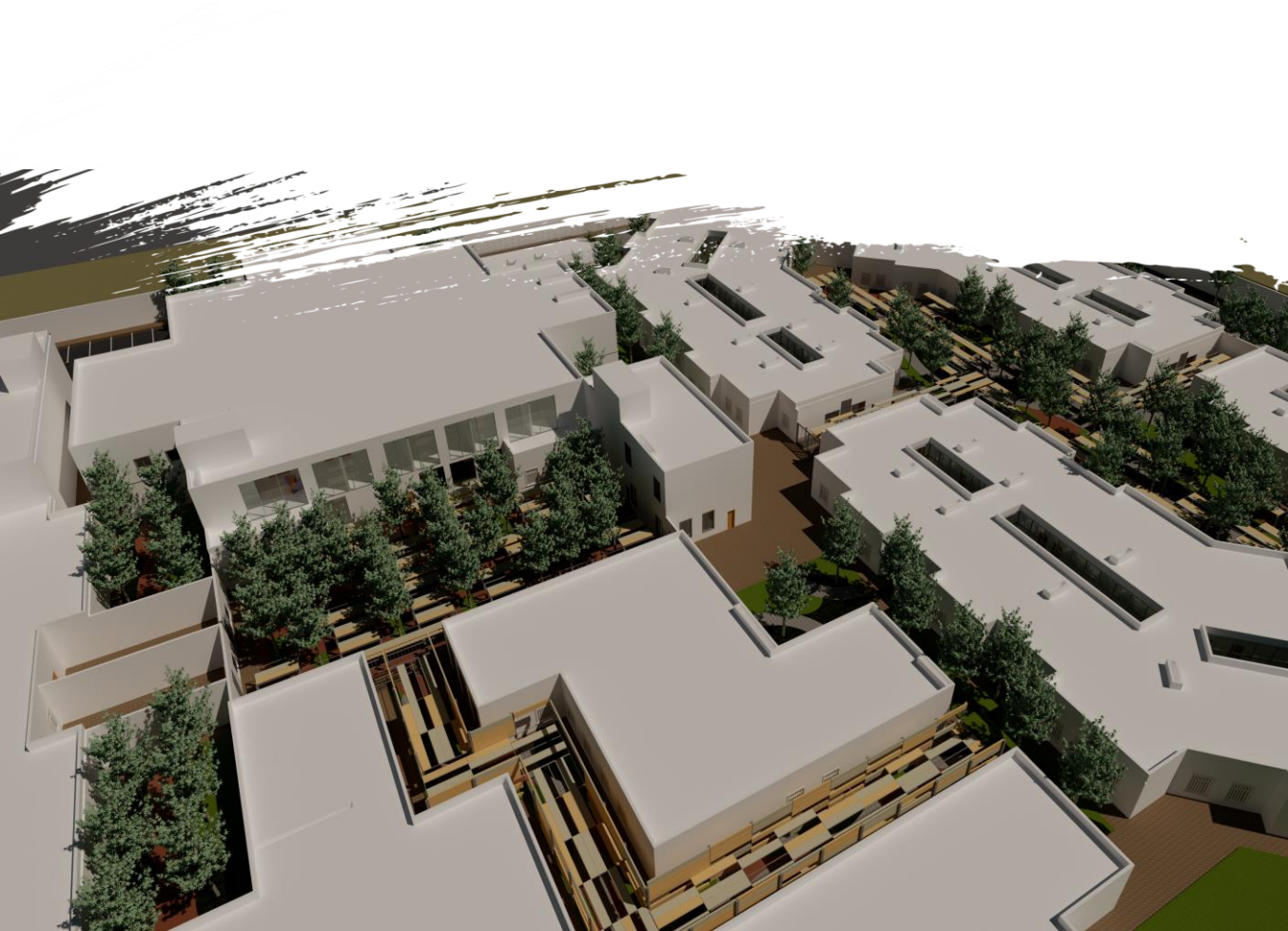
Public



04.

Nucleus Rehab Center





05. Affordable Houses



Concept & philosophy

Design low economic units that satisfy users' needs physically and psychosocially by achieving sustainability of using local materials, containers as walls which have easy and fast installation, maintenance and future expansion.

Easily to change and extend the area of the house

Socialization In While shipping containers are constructed to be used again and again, many eventually fall into disuse and end up sitting in empty land. We decided in our project to take these containers which is no longer use in ship and recycled and use it as a structure system

Vision

- Allow the maximum communication among neighbours by the gathering points and playground for their children.
- Having easy maintenance and flexibility in design due to the containers.

Mission

- Make it affordable for everyone to buy and rent.
- Using local and environmentally friendly materials such as containers reinforced concrete and built up a sustainable neighbourhood.

Goals

1) Educational

- The project will provide schools.

2) Social

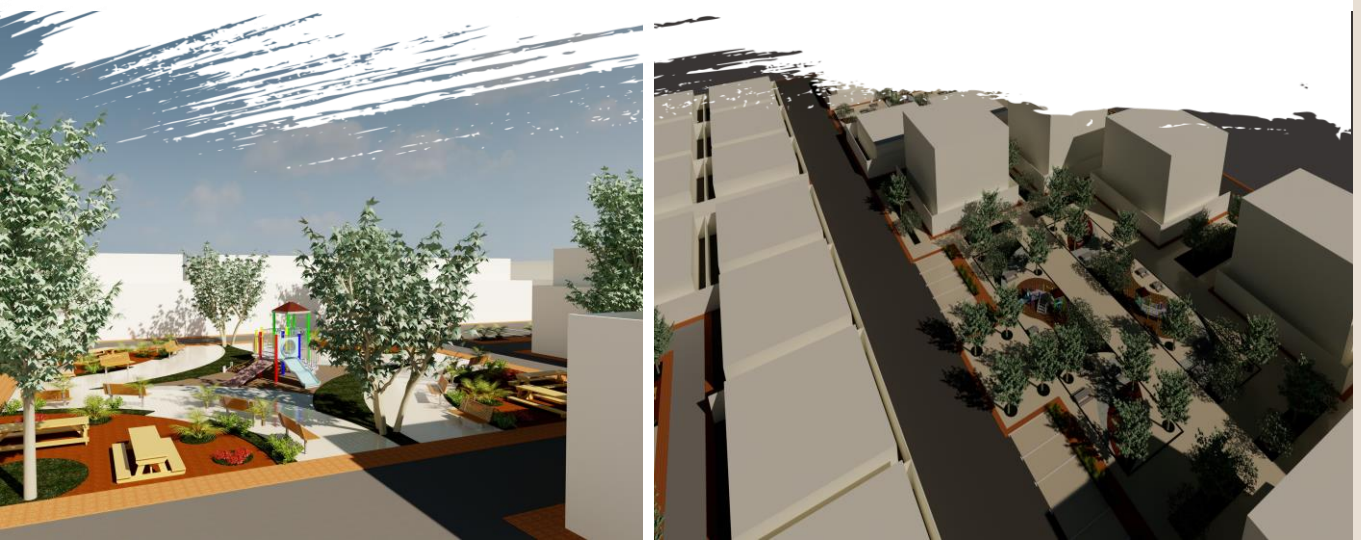
- Making social connection with the families by grouping houses to gather and create for them a place to gather in.

3) Economic

- Using a local materials for the building to make the houses affordable to everyone.
- Jeddah city has a lot of containers boxes and some of those containers are not used for shipping any more. So we decided to use it as a structure material for our building.
- For the heat and ventilation, in our project also we are focusing on the natural air, and isolating materials to make the family control heating and cooling inside the building.

4) Entertainment

- The site will be surrounded by a connecting pedestrian road and every grouped houses



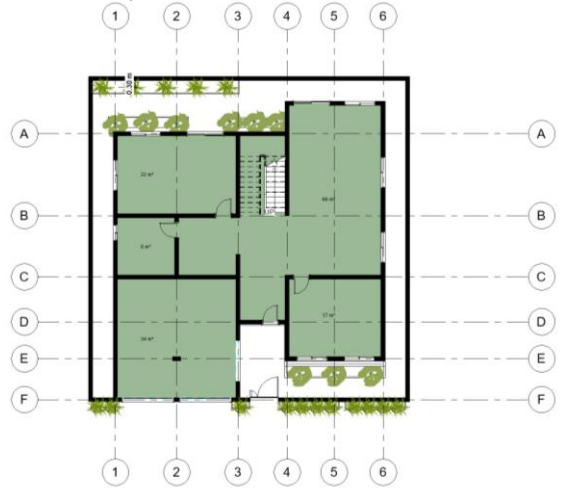
05.

Affordable Houses



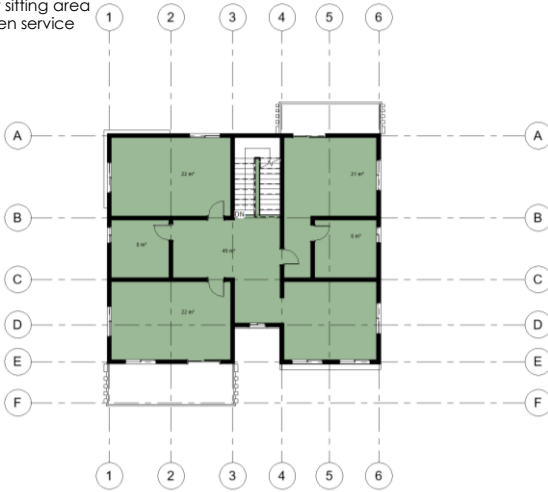
Ground Floor:

- Main entrance
- Garage for two car parking
- 1 w.c
- Bed room
- Kitchen w/ storage
- Gest room with dining area



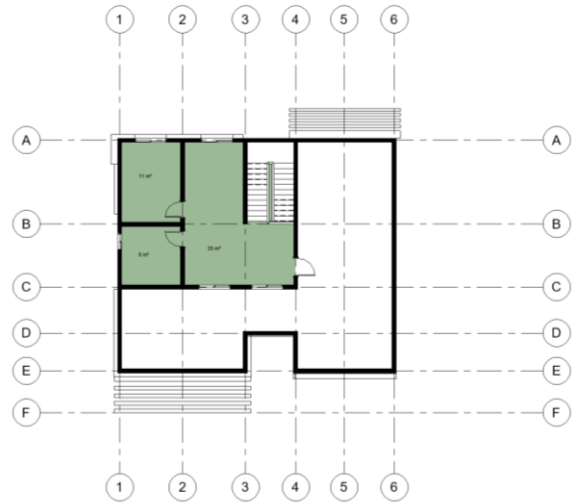
First Floor:

- Master bed room with w.c, have a trace
- 2 bed rooms have traces
- 1 w.c
- Privat sitting area
- Kitchen service



Roof Floor:

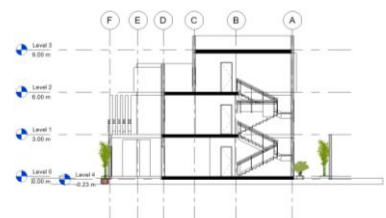
- 1 Bed room
- 1 W.c
- Laundry area



Elevation 2



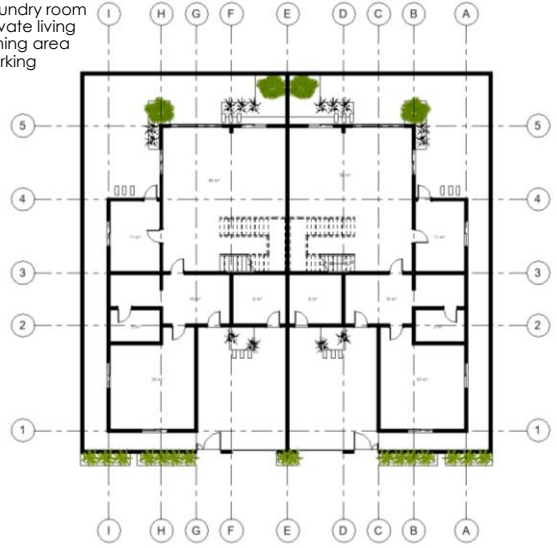
Section





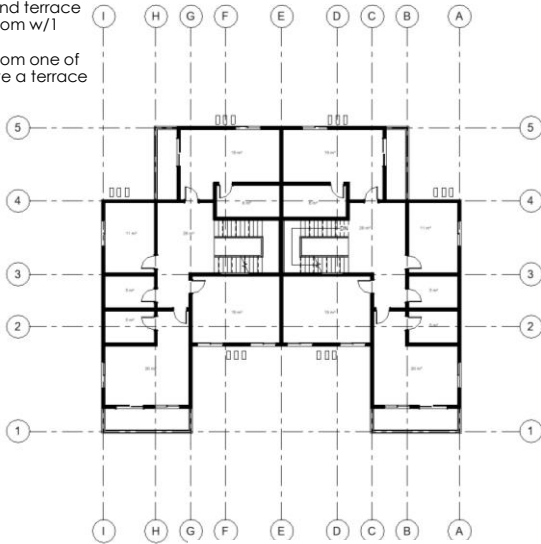
Ground Floor:

- Gest living room
- 1 W.c w/ sink area
- American Kitchen
- Laundry room
- Private living
- Dining area
- Parking



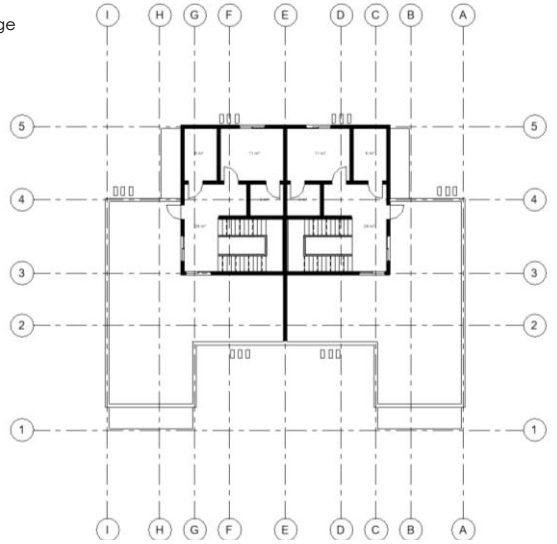
Second Floor:

- Master Bed room w/ w.c and terrace
- 1 Bed room w/1 W.c
- 2 Bed room one of them have a terrace
- 1 w.c



Roof Floor:

- 1 Bed room
- 1 W.c
- 1 Storage



Elevation 2

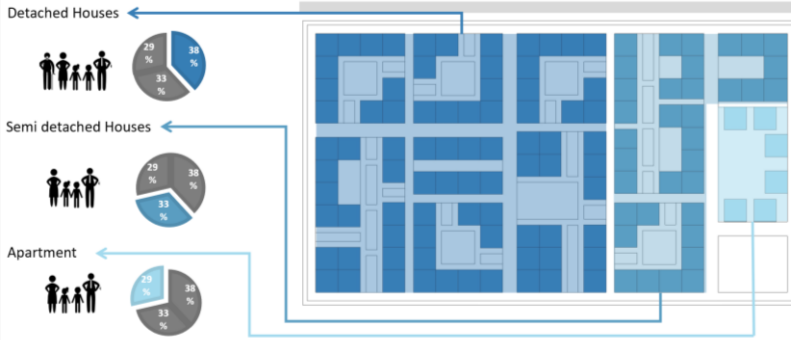


Section



05. Affordable Houses

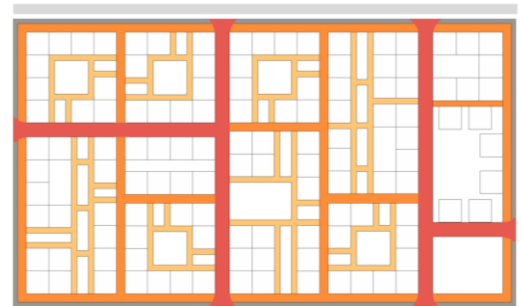
Type of Houses Instalments



Housing type	Total materials cost	Contractor rent
Detached Houses	Concrete = 5700 Iron= 171000 Bricks= 5700	28,500 + other expenses (drilling, reclamation, insulation, or buying cement sand and concrete) = 10000
Semi-detached Houses	Concrete = 5600 Iron= 1008 Bricks= 5600	28,000 + 10000
Apartments	Concrete = 193000 Iron= 347400 Bricks= 19300	96,500 + 10000

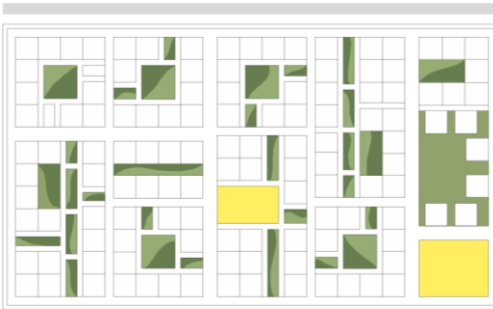
Street connection

Housing units	Services	Open spaces
- Detach units (38%) = 80 units Total area per 1 = 285 Sqm Total of the 80 units= 22,800 Sqm - Semi Detached (33%)= 70 unit Each 2 unit is attached with one wall Total area per 1 unit = 280 Sqm Total of 35 units = 1736 sqm - Apartment unit (29%) = 60% Each 10 apartments in one block Each floor have 2 apartments Total of one floor = 193* 5 floors = 965sqm Total of 6 blocks = 5790sqm	- Residential Total area = - School Total area = 1270 Sqm - Offices Total area = 700 Sqm - Mosque Total area = 449 Sqm - Clinic Total area = 321 Sqm - Commercial Total area = 321 Sqm	- Green area Total of green area = 1570 Sqm - Parking area Total parking = 2800 Sqm - Streets Total area of three type of roads = 1415 Sqm
Total 30,526 sqm	3061 sqm	2985 sqm



- Main roads
- Second roads
- Sub-street

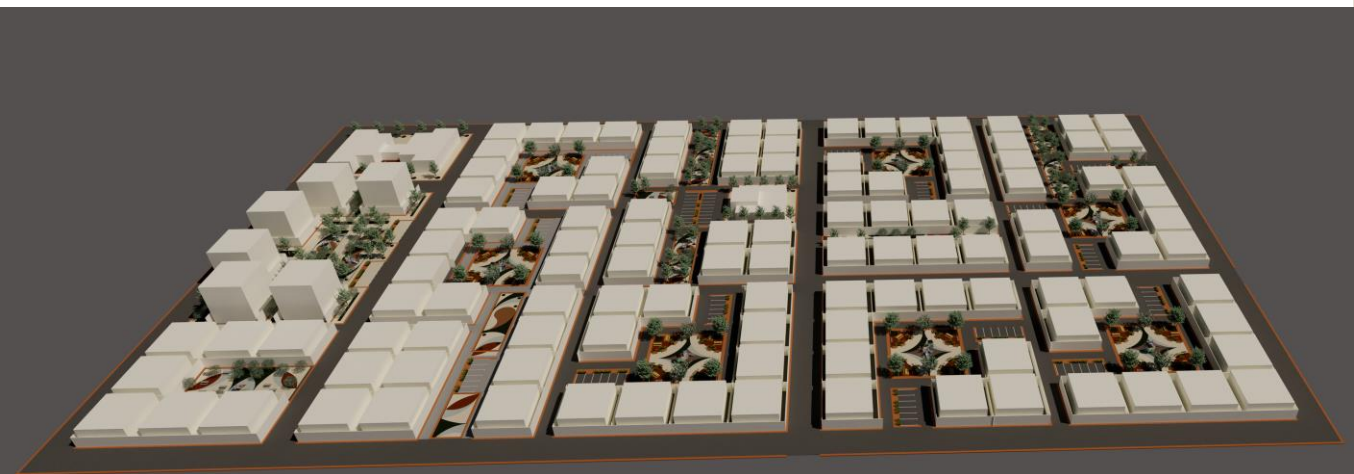
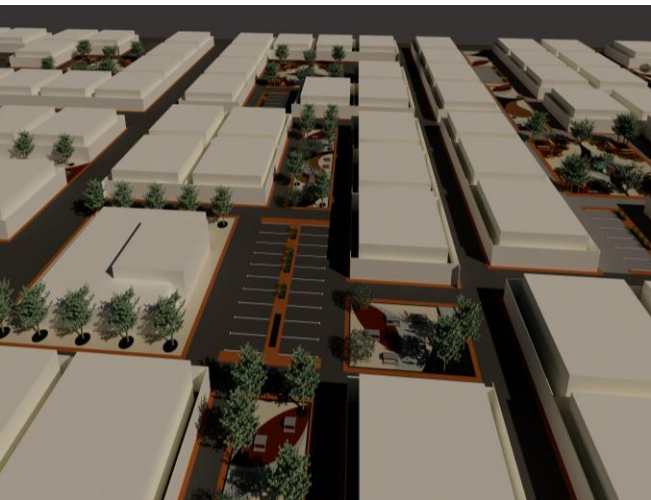
Street connection



- Each grouped units has a private green area with parking.
- Also there is a open space to service outside people for example: making some activities and events.

- Services such as:
 - School
 - Mosque
 - Commercial building
 - Office building
 - Clinic







Concept & philosophy

Wonder Park is a place that aspires to improve the lifestyle of a person and families, to build a society of members to have a balanced lifestyle through direct or indirect factors through the practice of various activities and events.

In addition to the presence of water and green areas giving an aesthetic view of the park and the presence of fun & gaming area suitable for all different ages and a yard for sport exercise.

Vision

- Targeting all individuals of different ages, to have strengthen social relationships between individuals.
- Support talented people from all walks of life to showcase their ideas of graphics and art designs.
- Develop an ecosystem that supports the vision for a better life.

Goals

1) Educational

- Provide space for various cultural activities.
- Organize a forum that includes all talented and artistic professionals.

2) Social

- To raise awareness by improve a public spaces that provide comfort for people and also focusing on the special need people.
- Building a bridge connecting the park with near areas such as the opposite neighbourhood by passing over King Abdulaziz Road to enables people to move safely and easily to the park to have benefit and enjoy it.

3) Economic

- Provide entertainment spaces and special places for companies and employers to rent, to place such as restaurants and others to sell in.
- These spaces conceded as a one of the park's sources of income.

4) Entertainment

- Develop and have a diversify entertainment opportunities to meet the needs of the population.
- Achieving excellence in sports games regionally and globally.
- Wonder Park offers a games arena for all age groups, a football and basketball arena and a ski board yard.



06.

Wonder Park

Areas Relationship:

Name	● Adjacent	○ Not adjacent	⊖ Nearby
Main entrance zone	●	○	⊖
Fun zone	●	○	⊖
Skate zone	●	○	⊖
Gym zone	●	○	⊖
Relax zone	●	○	⊖
Event zone	●	○	⊖
Art zone	●	○	⊖
Food court	●	○	⊖
Runway	●	○	⊖
Services	●	○	⊖
Parking	○	○	⊖

Bubble diagram

