

04 Gorgan Neighborhood

Site Analysis

Public Transportation
 Based on the map there are different forms of transportation in the neighborhood but they are not spread well as in the north and north west of the neighborhood there are lack of public transportation and people are suffering from this problem.



Line 6 of subway which is in construction



Imam Hossein subway station



Most of the streets in this neighborhood follow the same pattern; giving the majority of space to the cars and the least to pedestrians. Namjoo street which is the main street in this area and is a collector street is a two way street with 2 lanes in each side with a bus line that increases the access.



Commercial units in Namjoo street



Tous street is a one way street with 3 lanes



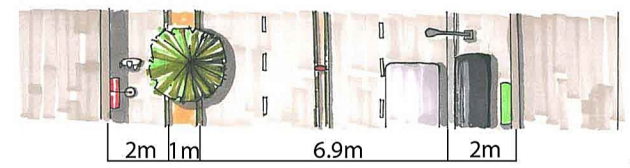
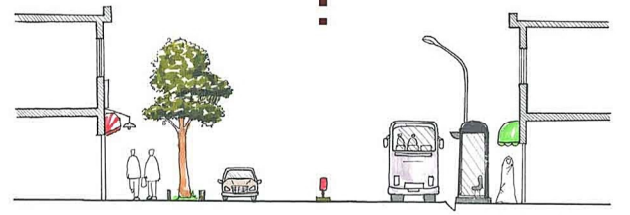
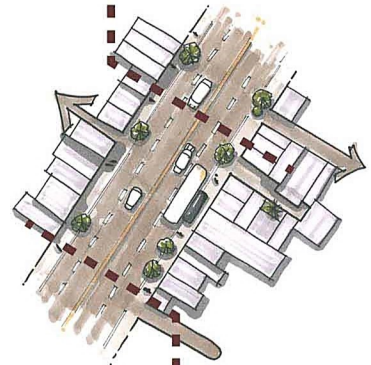
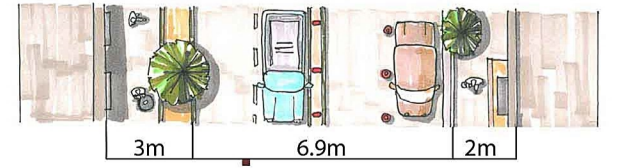
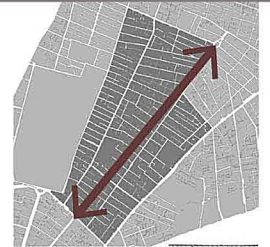
Bus station in Madani street



Taxi station in Tousi street









Bus station in Madani street

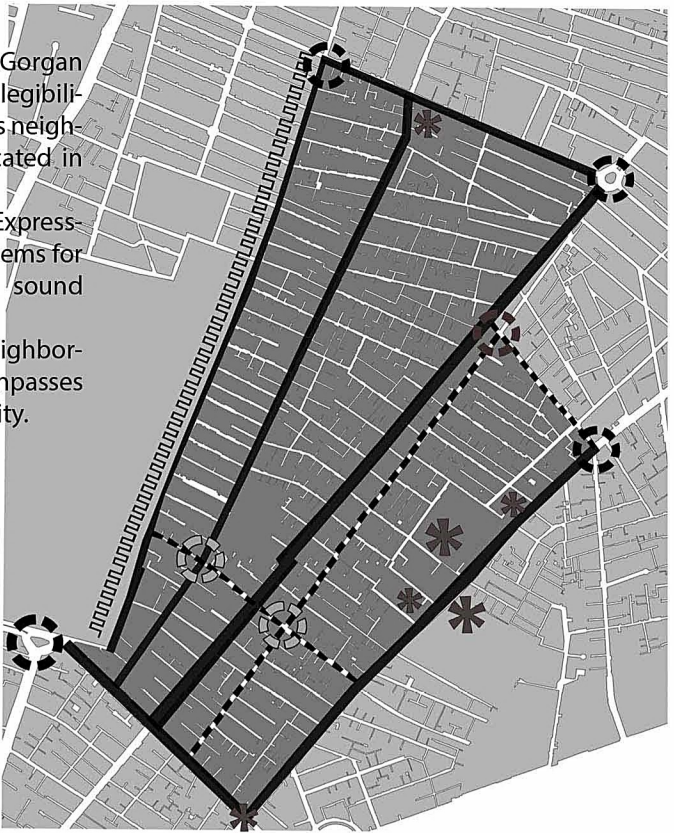


04 Gorgan Neighborhood Site Analysis

Lynch

There are not many landmarks in Gorgan neighborhood, which has affected its legibility. The most noticeable landmark in this neighborhood is Tirajeh mall which is located in Tous street. The edge of this area is Sayadshirazi Expressway which has caused so many problems for the neighborhood, such as air and sound pollution. The majority of the paths in Gorgan neighborhood are local streets and lots of impasses which have decreased the permeability.

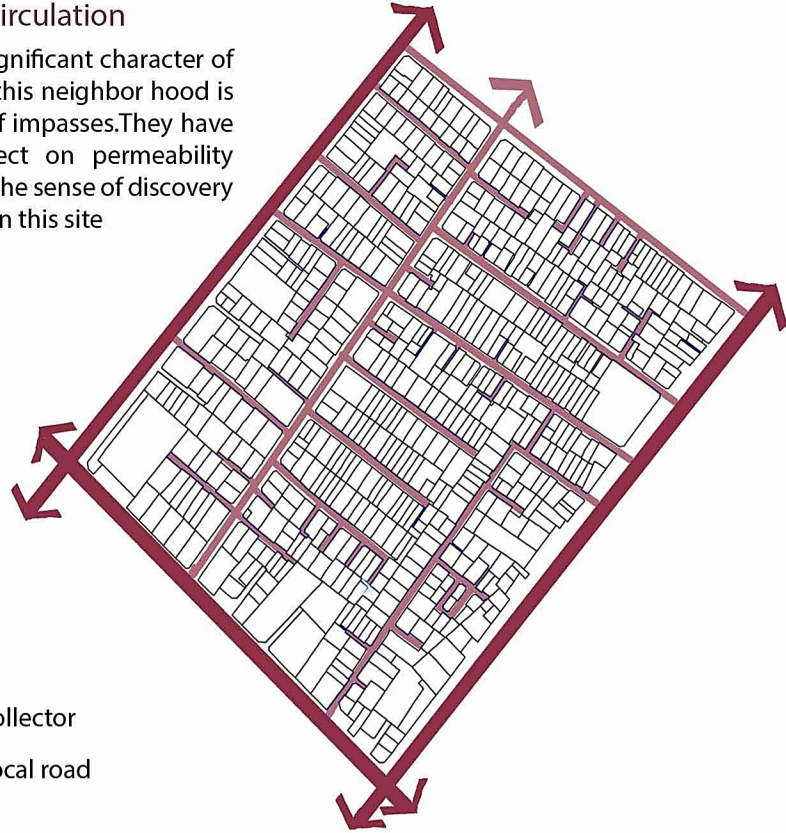
-  Major node
-  Minor node
-  Landmark
-  Major path
-  Minor path
-  Edge



Vehicular Circulation

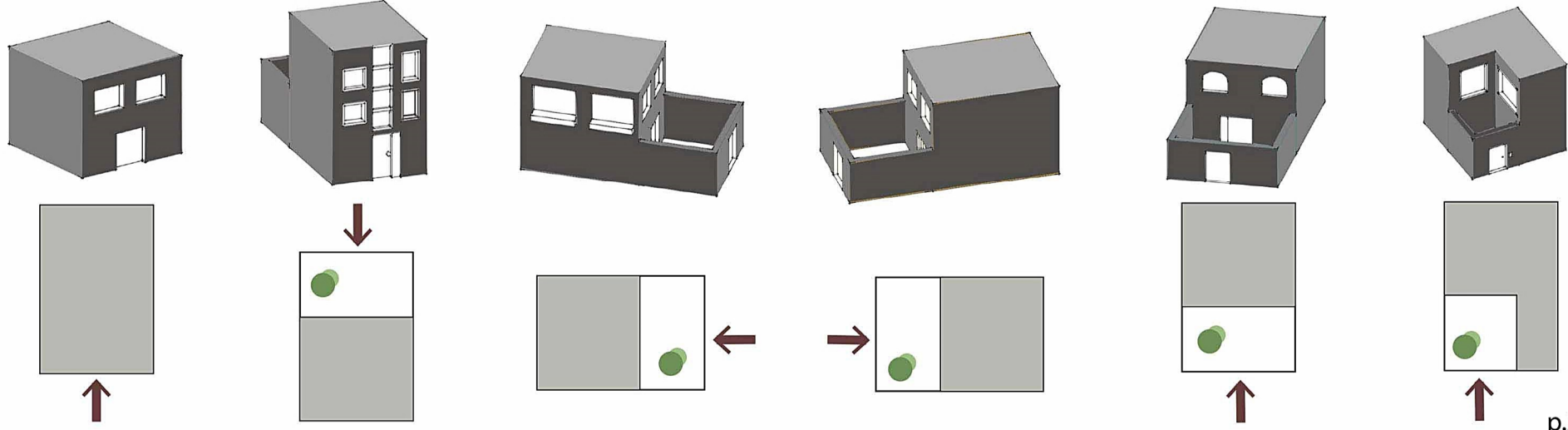
One of the significant characters of the paths in this neighborhood is having lots of impasses. They have a negative effect on permeability but increase the sense of discovery and identity in this site.

-  Collector
-  Local road



Building Typology

The majority of parcels in this neighborhood have average and small size. The entrance of some buildings is from the street and some from the alley. Buildings in this neighborhood are in different forms, shapes, and sizes.

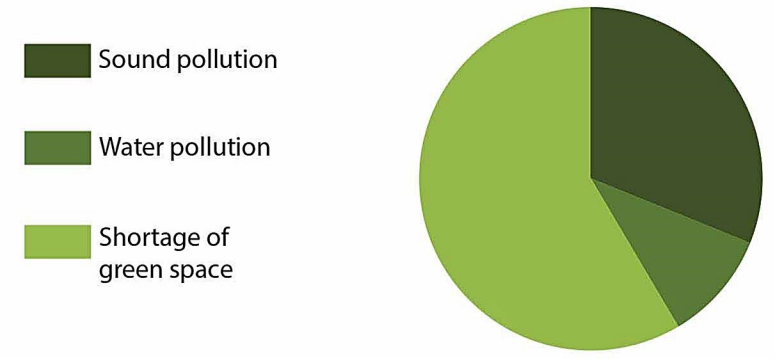


04 Gorgan Neighborhood

Site analysis

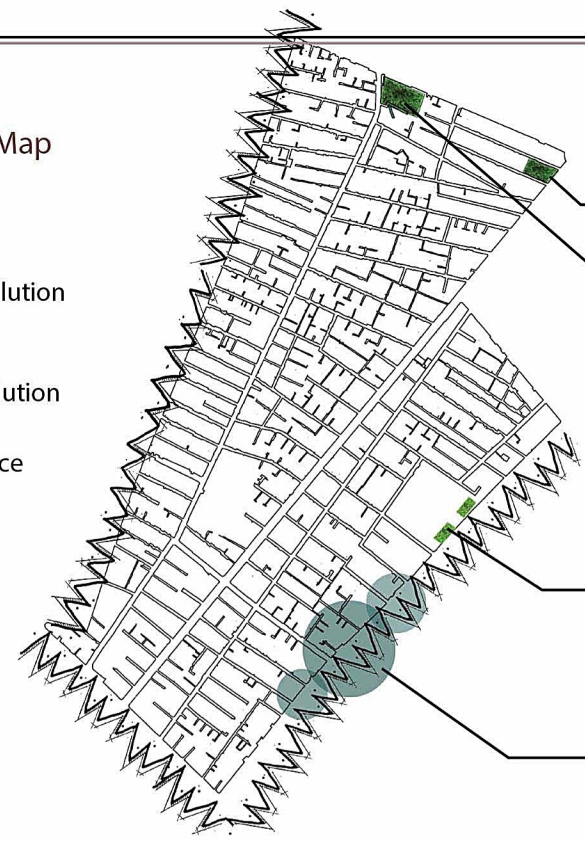
Environmental Issues

The two main environmental issues that almost all the residents mentioned are lack of green spaces and parks which is really harmful for people specially children and sound pollution which is in all the streets due to heavy traffic.



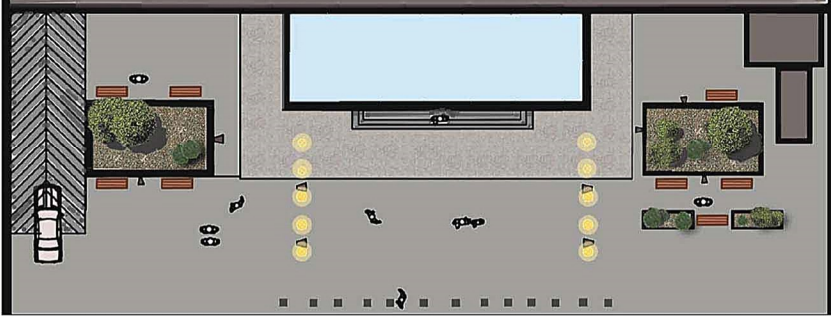
Environmental Map

- Sound pollution
- Water pollution
- Green space
- Park



Open Urban Space

Tirajeh mall is a noticeable place which is a regional landuse and it attracts many people from the city. It is located next to Madani metro which makes it more accessible. Most of the residents of the neighborhood are unsatisfied, as it is not suitable to people's lifestyle and income and has created heavy traffic and social contrast between residents and visitors. The open space in front of Tirajeh mall is the only space where people can gather and have social communication.



- Street lamp
- Dustbin
- Bench
- Bollard





Dissertation

Organizing the Golabdarreh Neighborhood with an Ecological Approach

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Email: m.tafti@ut.ac.ir

Academic Project

Individual Project

Semester 8/2019



01 Golabdarreh Neighborhood

Project Principles

Project description and Vision

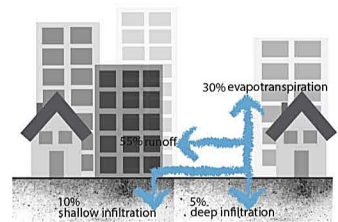
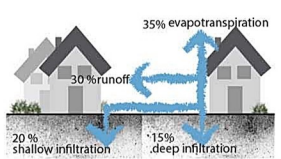
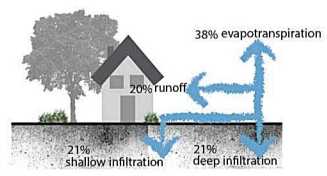
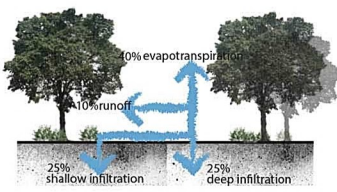
Golabdarreh neighborhood is located in district one in Tehran city. In recent years because of noticeable ecological features, such as Golabdarreh riverfront, green spaces and better weather comparing to other neighborhoods it has attracted lots of people and investments which has lead to overpopulation and illegitimate constructions, which has caused so many damages for the environment and the nature.

My design is based on ecological approaches to enhance the environmental situation of this area and try to increase people's connection with nature. The main objective of this design is to restore Golabdarreh riverfront and mitigate the current damages of human activities. Also it is considered to make this neighborhood with dual roles, as a citywide destination and a local amenity. As a city wide destination it will become one of the tourism attraction for sport activities and mountaineering because of Kolakchal mountains in the northern area of the neighbourhood. It will become a place for recreational activities in Tehran. As a local amenity it will provide local services, which are currently one of the neighborhood weaknesses, also designing two urban spaces for social and recreational activities of residents and visitors

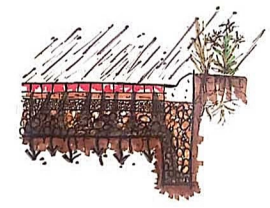
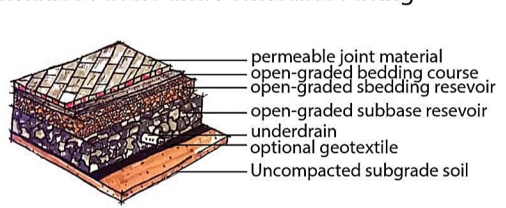
DESIGN PRINCIPLES

1. Reduce hardscapes: Hardscapes are roads, parking lots, sidewalks, driveways, paved paths, rooftops, and other impervious surfaces that prevent rainwater from filtering through soil and replenishing rivers and streams as groundwater.

- Removing buildings and pavings from the floodplain

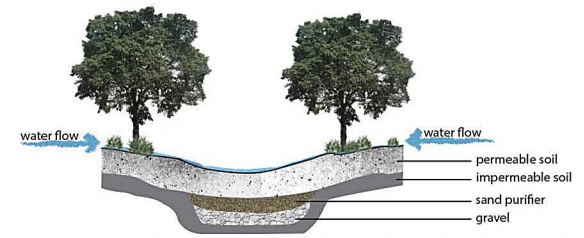


- Alternative Pavers and Permeable Paving

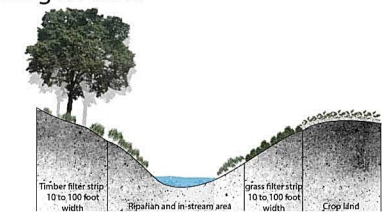


2. Manage stormwater on site and use nonstructural approaches: Ecologically designed riverfronts capture, store, and infiltrate or otherwise naturally treat and release stormwater.

- Bioretention ponds and Infiltration basins and trenches.



- Vegetation management: removing exotic plants and replanting native species to absorb stormwater before pouring to river.

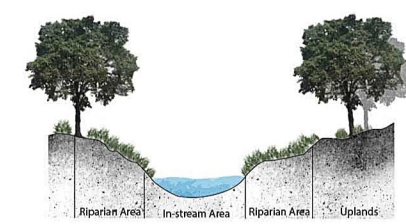


3. Restore riparian and in-stream habitats :replanting indigenous plants, address watershed and regional factors to establish healthy hydrological cycles and water quality.

- Mitigate the current harms of riverfront

- Adapt and coordinate human activities to nature to minimise the changes

- Riparian zones and in-stream zones



- preserve the natural structure of the river

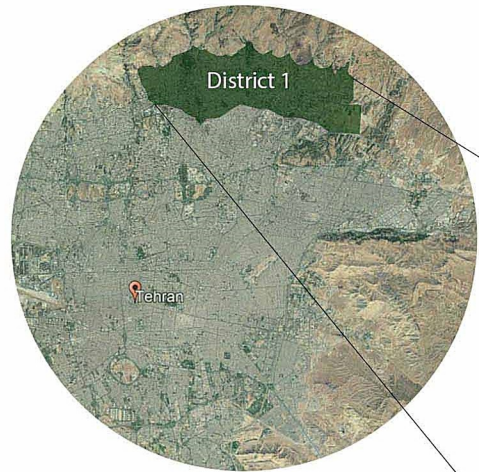


4. Balance recreational and public access goals with river protection by zoning and creating buffers

5. Try to have the least human activities in natural zones and have the most protection to mitigate the current harms and avoid the future ones.

01 Golabdarreh Neighborhood

Location and History

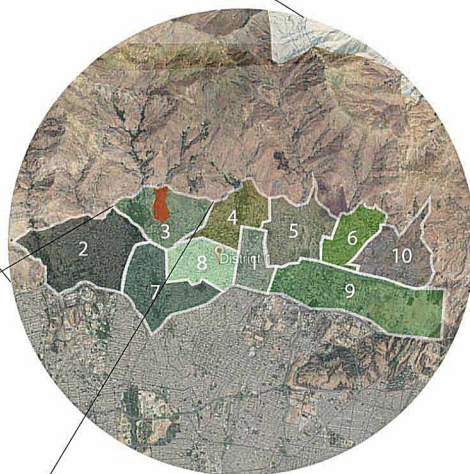


The site in context to Tehran

Golabdarreh is located in north of Tehran in district 1. It has developed over different phases from being a village to a modern neighborhood. Although it is located in district 1, comparing to other neighborhoods it is less expensive because of informal settlements in the northern part, so the morphology, social life and income of residents are varied from each other and from other districts and neighborhoods.

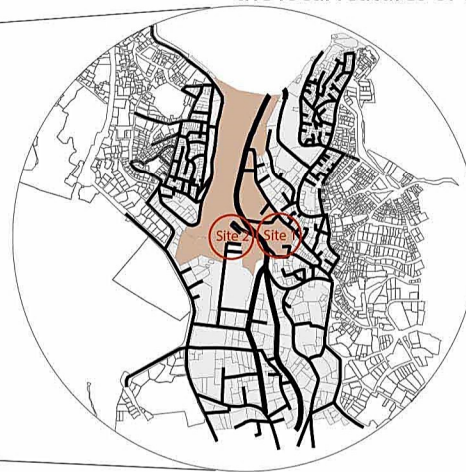
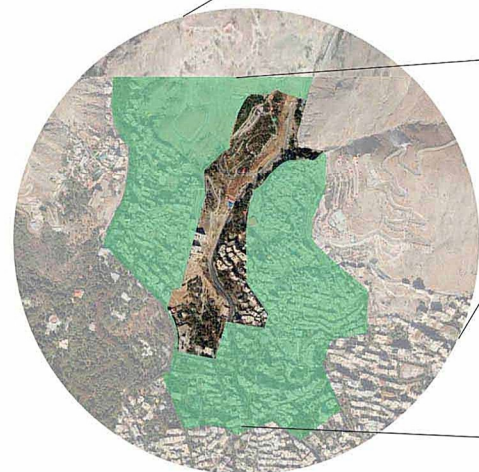
The site in context to District 1

Golabdarreh neighbourhood is located in one of the most noticeable and historical districts with many landmarks, which are remarkable for the city. This area is one of the oldest neighborhoods, which is located in the north of district 1 and having connection to Alborz mountains from the northern area. Because of having mild weather and green pastures it had recognisable development through time.



The site in context to Region 3

This neighborhood is located in region 3 with two other neighborhoods; including Darband and Emamzadeh-ghasem. With a population of 12600 (based on 2015 census) it has the most population in region 3 but the least area which is 68.9 hectare. So it has the highest population density in this region.



History of Golabdarreh Neighborhood

1900s-1950s

This area was first a village around Tehran far from the city and was considered for kings' palaces to spend their summertime due to beautiful nature and cool weather. It was not common for urban dwellers to visit and spend time in this area, as it was a village and did not have sign of urbanisation.

2000s-present

In the last 20 years, Golabdarreh neighborhood has developed with a rapid pace and has turned into a modern neighborhood with lots of high-rised, luxury and expensive buildings which can not be found in any other areas. Beside all of these modernisation, there are still few old houses and gardens which are one of the local features of this area.

1950s-2000s

Over time by growth of the city, this village became a part of city and during Iran revolution, because of noticeable growth of population many informal settlements formed in this area and started a fast growth in this area.



The site in context to Golabdarreh neighborhood

The site is located next to Golabdarreh River which is a landmark in this neighborhood. Due to this reason it has better weather comparing to other parts of the neighborhood. Also there are many green spaces, private and public gardens which are not useable for people because of mismanagement and destroying them for future constructions. It is worthy to mention that in this area there are many illegitimate high-rised constructions which have harmed the environment.

01 Golabdarreh Neighborhood

Site Analysis

Description of the site

Gollabdareh neighborhood is a significant area in Tehran, as it has lots of green spaces and the River Gollabdareh. But this neighborhood not only has gotten lots of environmental issues such as flood risk, destroying green spaces for constructions and different kind of human activities which have damaged the nature, but also some social issues such as informal residence which has caused social gap between residents. Most of these damages are caused because of mismanagement and lack of knowledge about ecological planning and design. This neighborhood has lots of potentials of attracting people which have been unnoticed in the past decades.

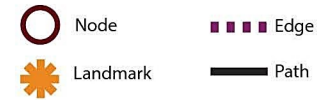
In the face of growing environmental threat and resource depletion, urban landscapes must be developed with sustainability and green infrastructure at their center. The green spaces in this area should become integrated to create a greenway with pedestrian and cycle path to increase human connection with nature and creating buffers to limit human activities around river. This area will be developed as an ecological park while also providing the needs of the site users and residents through resources and recreation.

This neighborhood is located down the mountains with intense topography. The construction of houses has entered the river zone, which has caused so many environmental problems. Although there has been lots of new, high-rised constructions the neighborhood has almost preserved its structure and shape.



Layered Site Analysis

Lynch



Vegetation



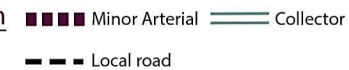
Solid and Void



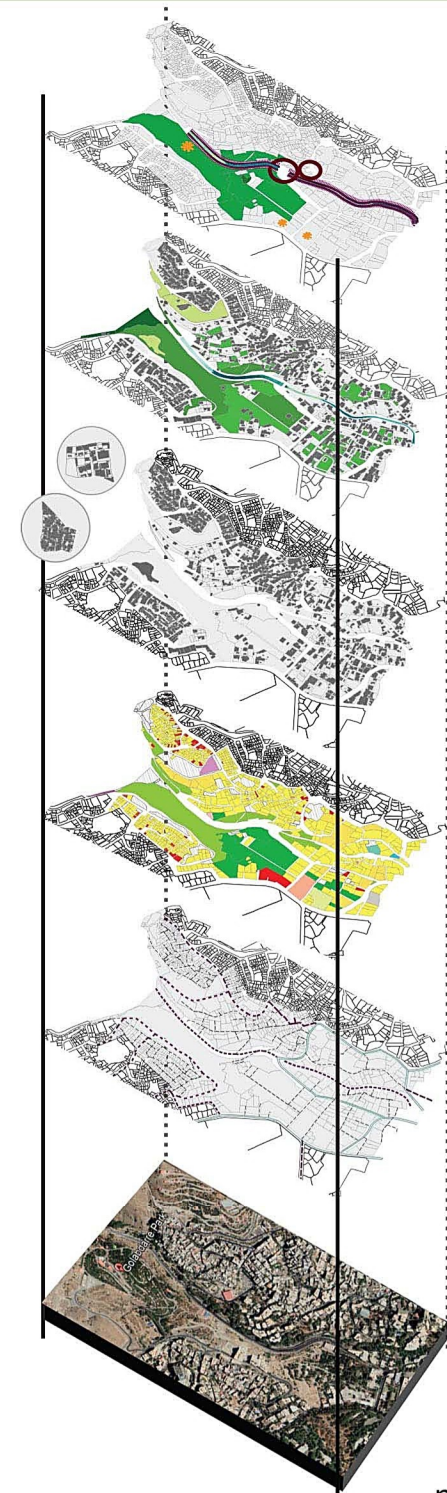
Land use



Vehicular Circulation



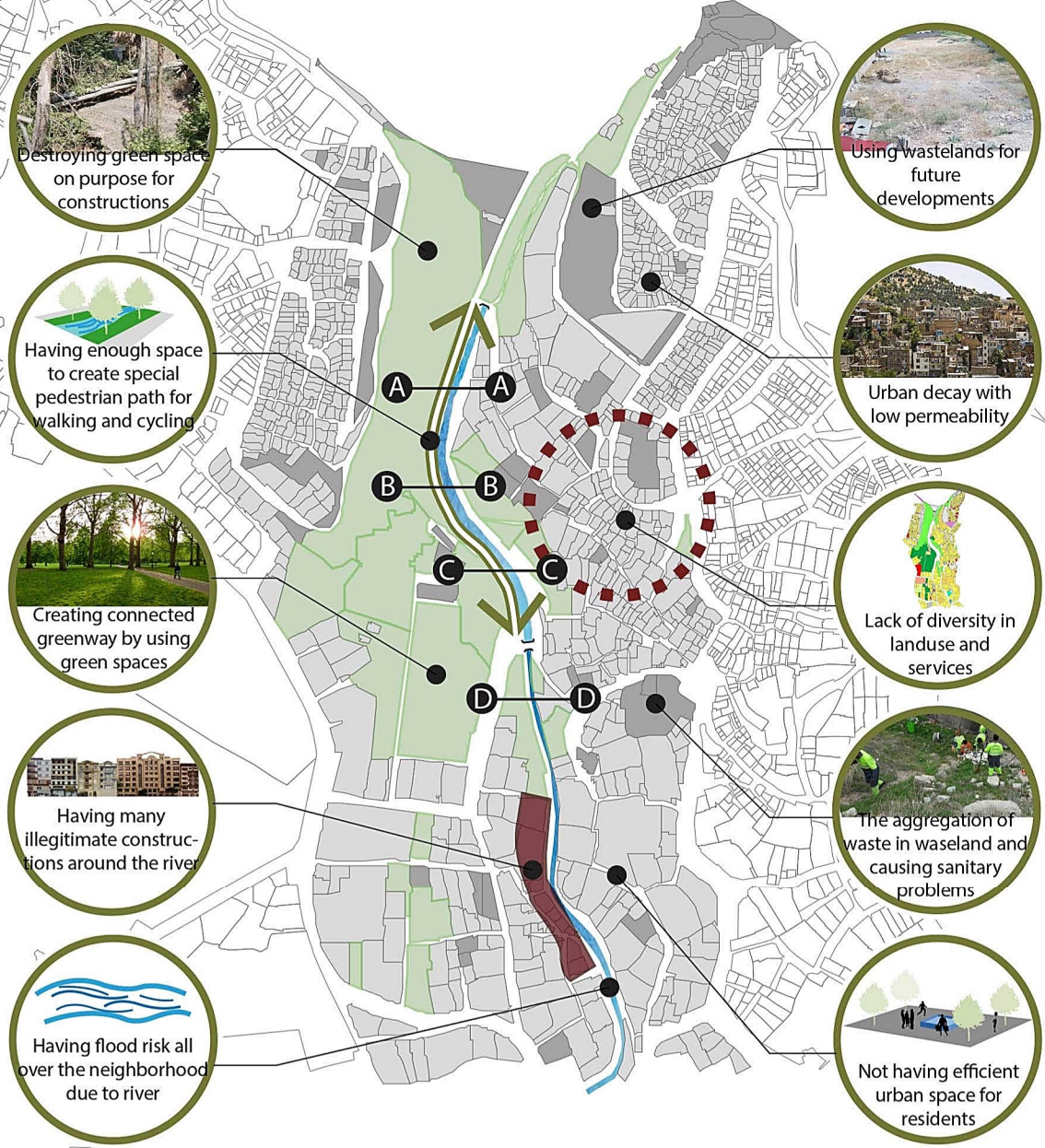
This area has average density with diverse housing and the majority of residential land use with lack of local services. Besides all of the damages mentioned before, it has saved its historical identity and still there are old and local residents who are living with a great majority of new people shifting to this neighborhood in recent years. Also the informal residence in the northern part of the neighborhood with low quality of construction and services is causing problems for residents, which should be considered as fast as possible.



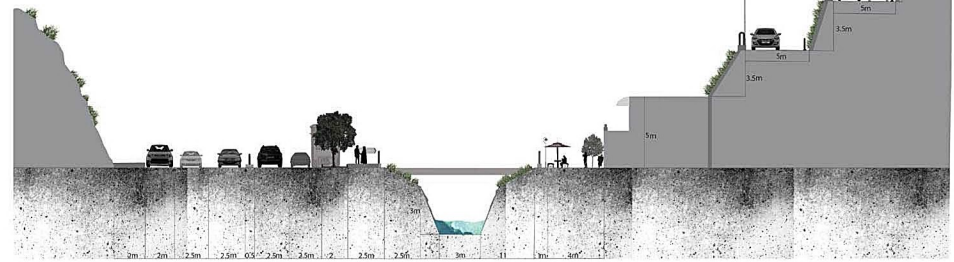
01 Golabdarreh Neighborhood

Site Analysis

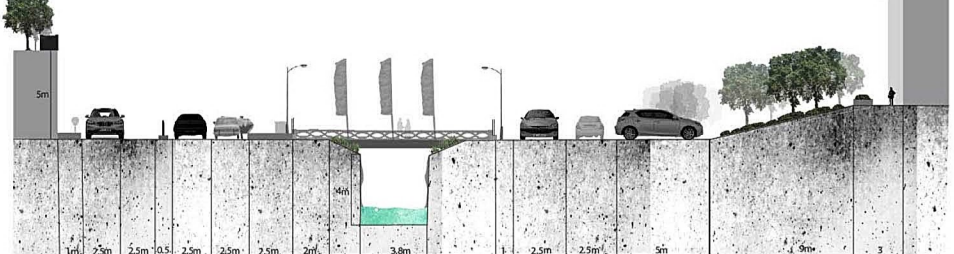
The main strength of this neighborhood is its location which is next to river and lots of green spaces. So, the environmental situation is considerably better comparing to other neighborhoods, but due to mismanagement in the last two decades these natural elements have suffered from lots of human harms, as a result of which this neighborhood has lost most of its identity and is suffering from spatial discrimination because of wrong investment in different aspect of urbanism.



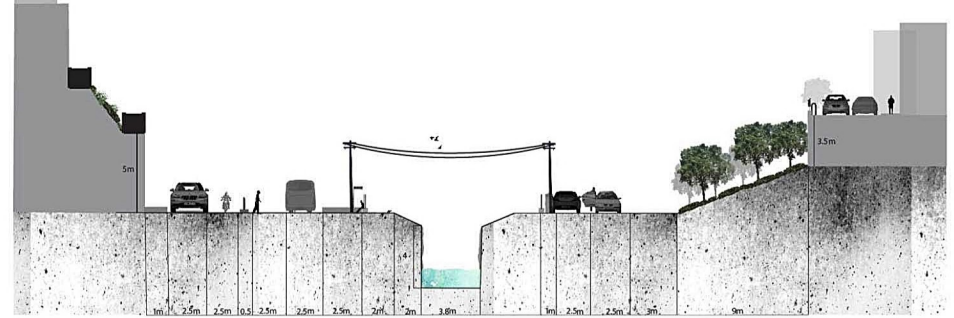
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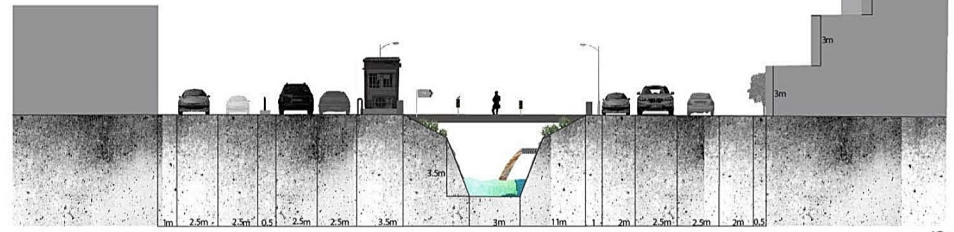
Section B-B



Section C-C



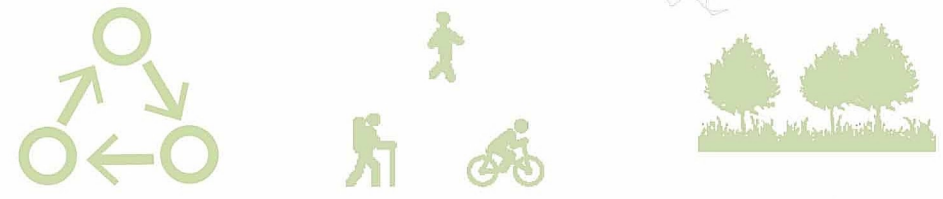
Section D-D



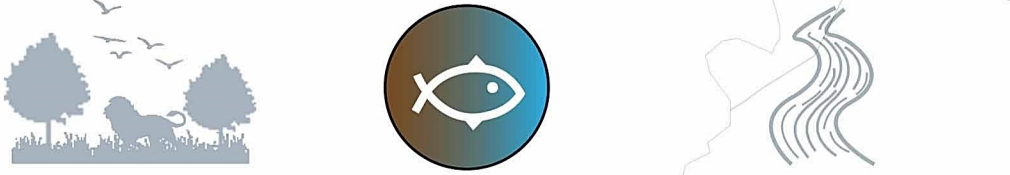
01 Golabdarreh Neighborhood Concepts

Planning and Design ideas

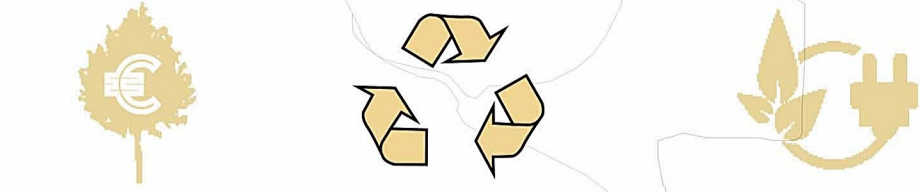
- Enhance: the urban space concept
A landscape experienced through movement connection outdoor activities ecological enhancement



- Change: riverside ecological enhancement
new habitat improved water quality sustainable flood management

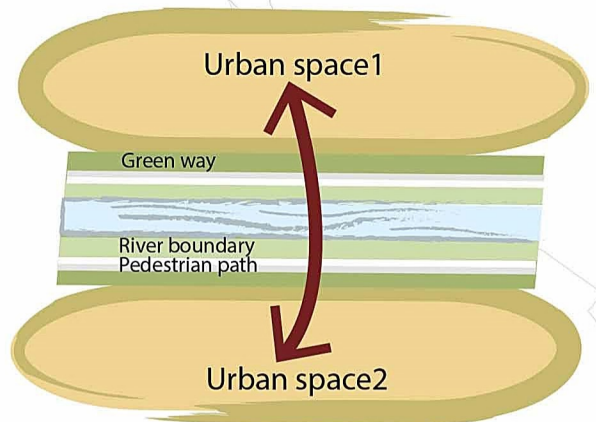


- Sustain: the city as a supplier
eco-business recycle reusable energy



Concept

The concept of this design is to consider boundary for river to prevent future harms and have an integrated green way with bicycle path to promote active transit (walking and cycling). Also by having urban spaces in both sides of the river with different services, they can turn to attractive centers for both residents and visitors.



Alternative Map

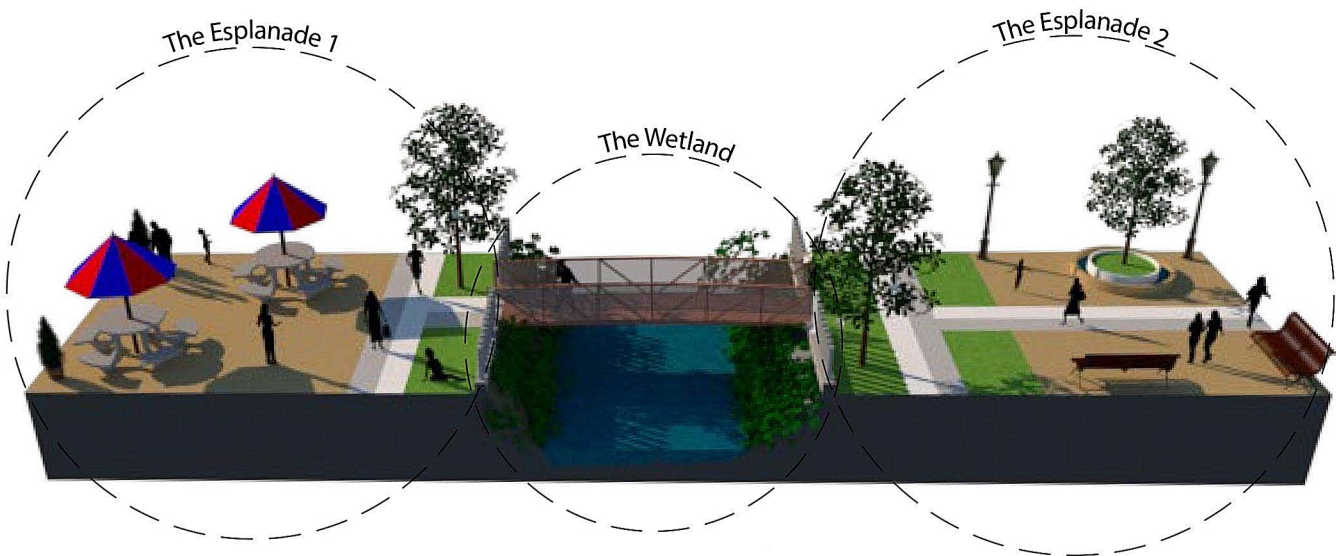
Based on the ideas and concept for preserving our nature and increasing human connection with it, having an integrated greenway would protect the gardens and green spaces from human misuses and would benefit people with having better environmental situation. Also due to being located next to the mountain, the cycling path, greenway and the urban spaces which are located next to the river would attract more people specially the athletes and would flourish the eco-tourism and have benefits for local economy.

- Having a river zone to limit human activities next to the river and prevent environmental harms.
- Create an integrated green space to preserve them and prevent human harms.
- Design an urban space with some services for residents and visitors for recreational activities.
- Create a network of pedestrian path.
- Create a neighborhood center by having some new landuses and local services
- Connect sides of the river to facilitate pedestrians' transit
- Design an urban space with some services for residents and visitors for recreational activities.
- Create a main pedestrian path with cycling and walking path next to the river.

Urban space	Major pedestrian path	River zone	Infirmary	Playground
Service center	Minor pedestrian path	Gym	Primary school	Cultural center
Green way	Site entry	Possession of residential units	Commercial services	

01 Golabdarreh Neighborhood

Design



Connection



Connect the neighborhood to landscape
 Connect the neighborhood to the city
 Connect the city to river

Community



The urban spaces which are located around the river are places for communication of residents and visitors. They will allow a community to flourish around the site and cause social changes.

service



Residents in Golabdarreh neighborhood are having problems because of shortage of services. These urban spaces can offer some noticeable services to remedy this problem.

The urban spaces which are considered as esplanade are a combination of life, space and buildings. These areas not only are considered to offer some local services to provide lack of services in the neighborhood, but also offer some trans-local services to attract visitors from the city to develop the local economy. These urban spaces are places to connect people from different social classes and a place to increase communication and spend time with family and friends. Because of being located next to the river there is a chance of having a good connection with the landscape and spending time in the nature, which make it more attractive for both residents and visitors for different purposes.

The Esplanade 1

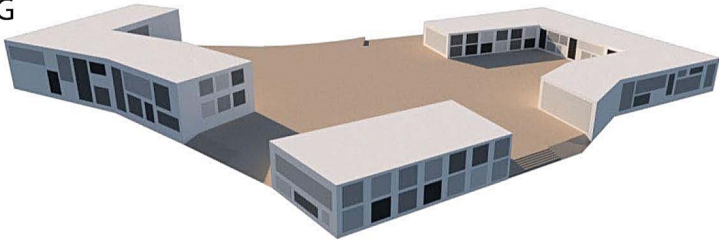
LIFE



SPACE

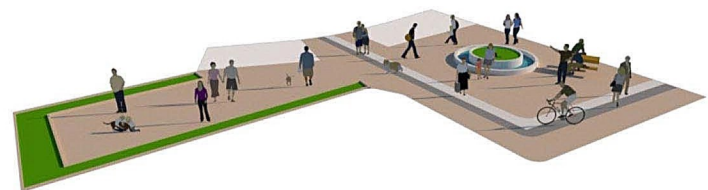


BUILDING

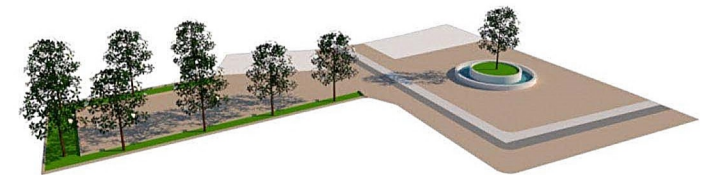


The Esplanade 2

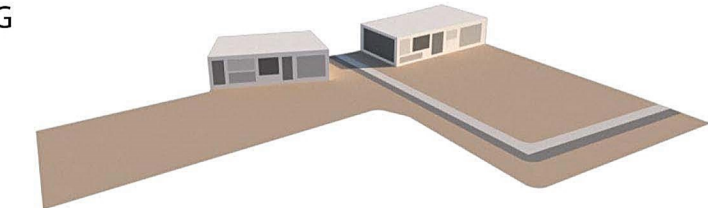
LIFE



SPACE



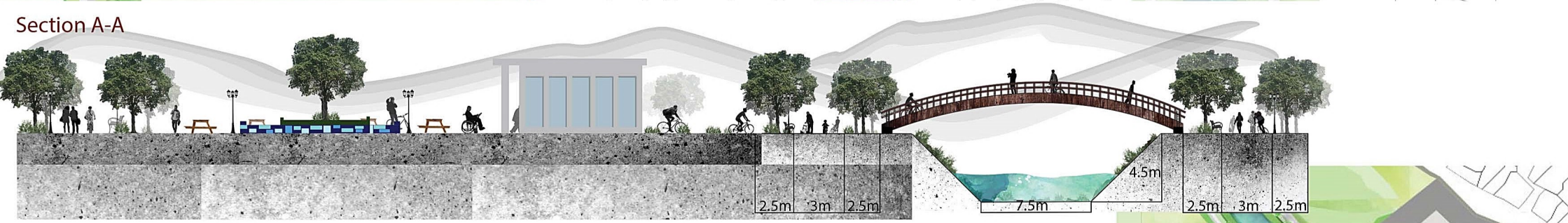
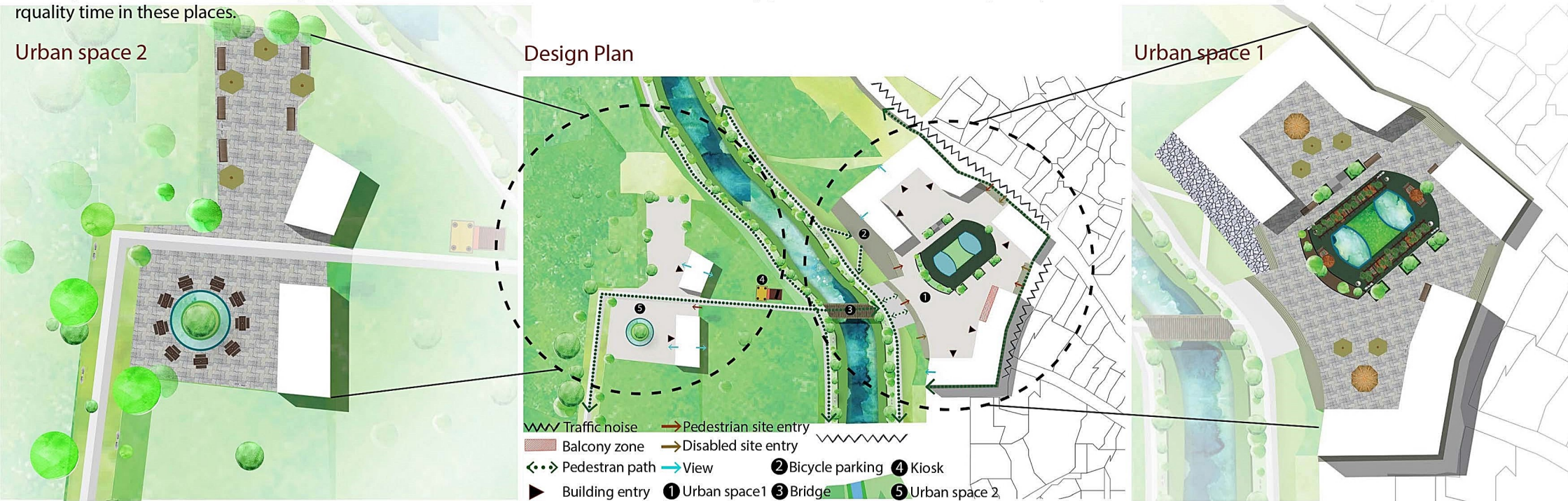
BUILDING



01 Golabdarreh Neighborhood

Design

The aim of this design is to create a connected greenway with two urban spaces in both sides of the river and make a connection with a bridge. These urban spaces will provide some local services, such as daily errands and trans-local services, such as restaurants, coffee shops and shops. So, both visitors and residents can enjoy their time in these places, communicate and have recreational activities. These urban spaces can be a connection of people and nature as it is located next to the river with a very good view of mountain and green spaces. Users can walk or use bicycle through the way and have some quality time in these places.



01 Golabdarreh Neighborhood

Visions



Studio 4

Urban Design: Designing an urban space in Imam
Hossein Neighborhood

Supervisor: Dr. Shamin Golrokh

Email: sh.golrokh@ut.ac.ir

Academic Project

Individual Project

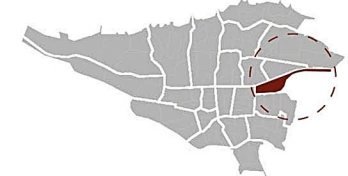
Semester 7/2018



02 Imam Hossein Neighborhood

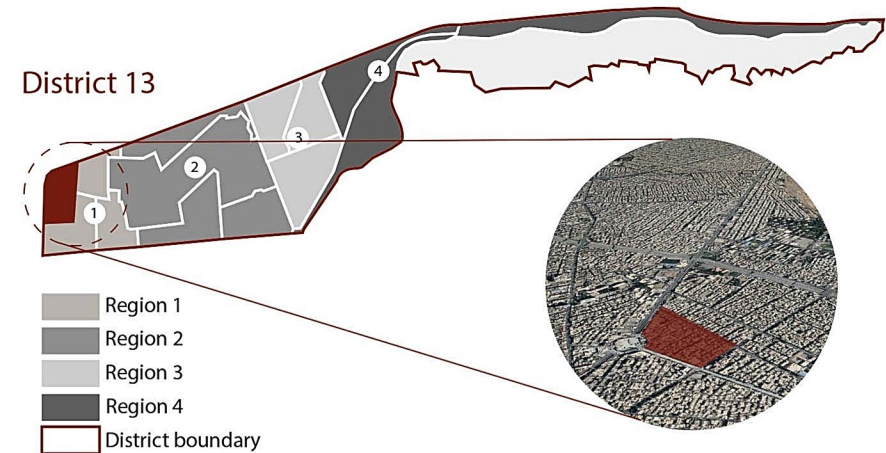
Site Analysis

Tehran



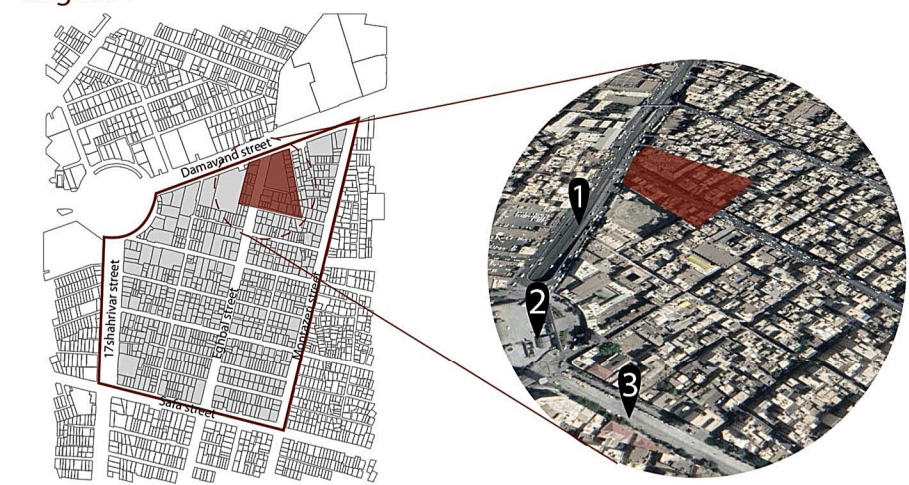
Imam Hossein neighborhood is located in district 13 next to Damavand street. It is located next to district 12, which has lots of historical landmarks. The area of the design is located in region 1 next to 17shahrivar street which is a trans-local street with many trans-local services.

District 13



- Region 1
- Region 2
- Region 3
- Region 4
- District boundary

Region 1



- Design area
- Study area
- 1 Damavand street
- 2 Imam Hossein square
- 3 17shahrivar street

Cognitive Map

Wastelands which have turned into dumps and caused danger for residents

Lots of old buildings in the neighborhood

Heavy traffic in most of the local streets with noise and air pollution

Having lots of garages in the residential neighborhood

Imam Hossein square which is an urban space and people gather for different ceremonies

Shahrestani bazaar which is a trans-local place and attract many people from the city

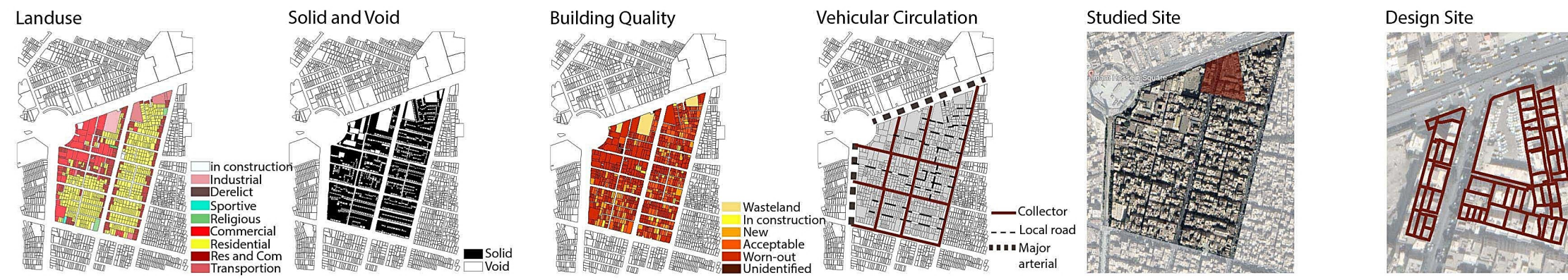
Vendors in 17shahrivar street that make it more livable and attractive

17shahrivar street, which is a pedestrian way and offer some trans-local services

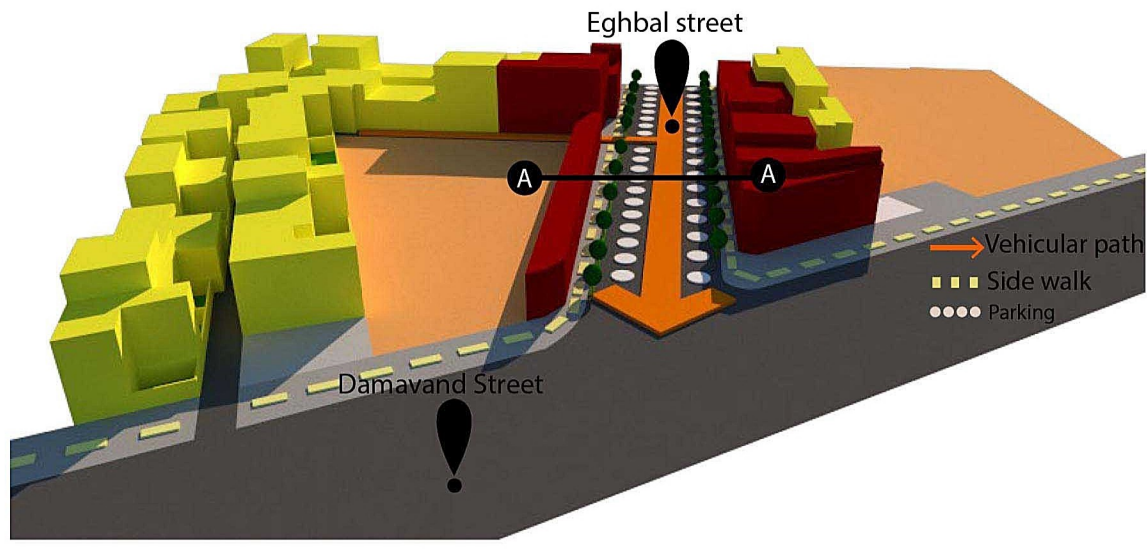
Lack of local services in the neighborhood

02 Imam Hossein Neighborhood

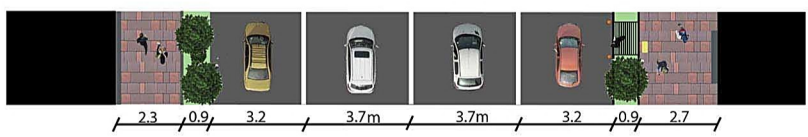
Site Analysis



The design site is located next to Eghbal street which is a very crowded one way street and Damavand street which is a major arterial.

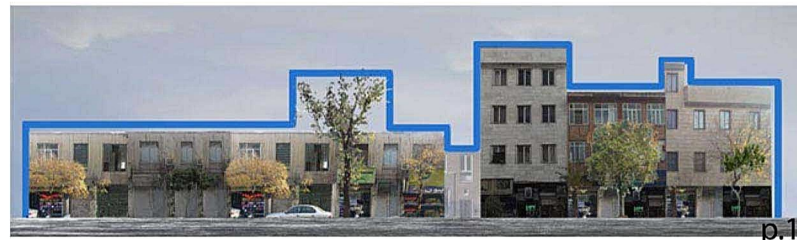


This site has a parking which is almost empty most of the time. Most of the buildings around this site are old and need a serious renovation.



One of the main problems in this neighborhood is extreme car dependency which lead to wide lanes and narrow side walks. Pedestrians are almost the last priority in this neighborhood.

Also, the old buildings that need serious renovation are causing serious problems for residents but due to low income of these people they are not able to afford for the renovation costs. These buildings which are the majority of the neighborhood have created a bad skyline and vision in the area.

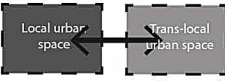


02 Imam Hossein Neighborhood

Concepts

Concepts

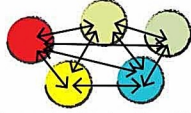
Connectivity: to create a connection between residents and visitors



Walkability: to give a chance to people with different abilities to be a part of city



Mixed Land use: to provide different kind of services for people specially the residents



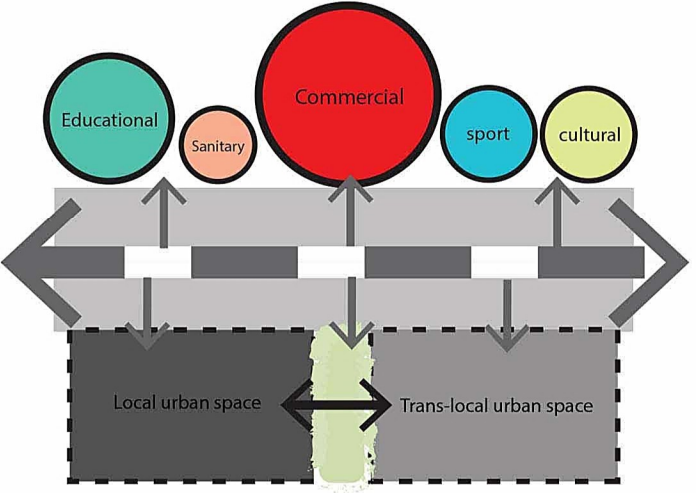
Livability: by creating different kind of activities in day and night



Increase Greenspaces: to bring nature in to the neighborhood

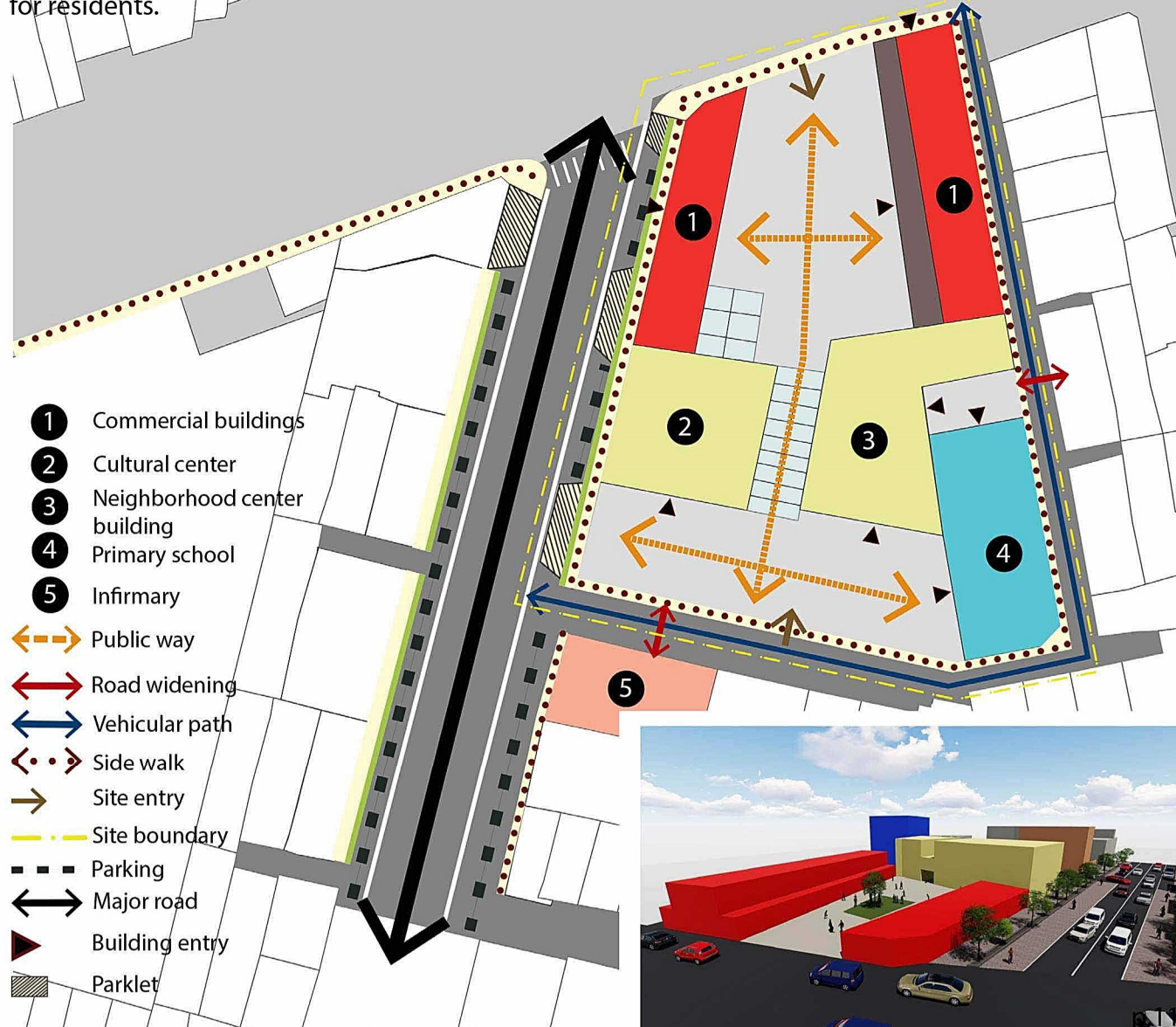


Socialisation: to create more spaces for people's interaction



Alternative Map

Based on the concepts, to increase the connection between residents and visitors we designed a local and a trans-local urban space which are connected to each other. Local services such as super-market, bakery and etc can provide people's daily needs and trans-local services, such as cultural center, cafes, restaurants and etc can attract more people to this neighborhood. Also, these places will make the neighborhood more livable with the chance of communication and spend some free time for residents.



02 Imam Hossein Neighborhood

Design

These urban spaces are a combination of life, space and buildings. Life is for people to gather and have social connection with each other. For residents to communicate and meet their neighbors and for visitors to meet new people. These spaces will let people to have different activities and face their needs. The buildings which are around these urban spaces offer different services and make the place more livable.

Space

Life

Building

Design Plan

To have a good urban space, where people could communicate and have some quality time, we use some new and attractive urban furnitures to entice people to stay and spend time in this place. These urban spaces are well qualified for people with different abilities and age, so everyone are able to come and have fun. With more green spaces people may have more calm and can run away from their hectic life and go to restaurants, cafes, shops, visit the cultural center and galleries or just sit and read a book.

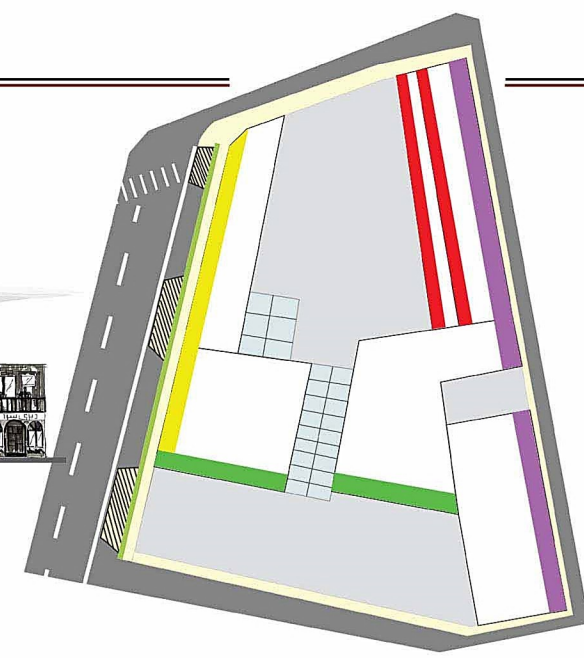
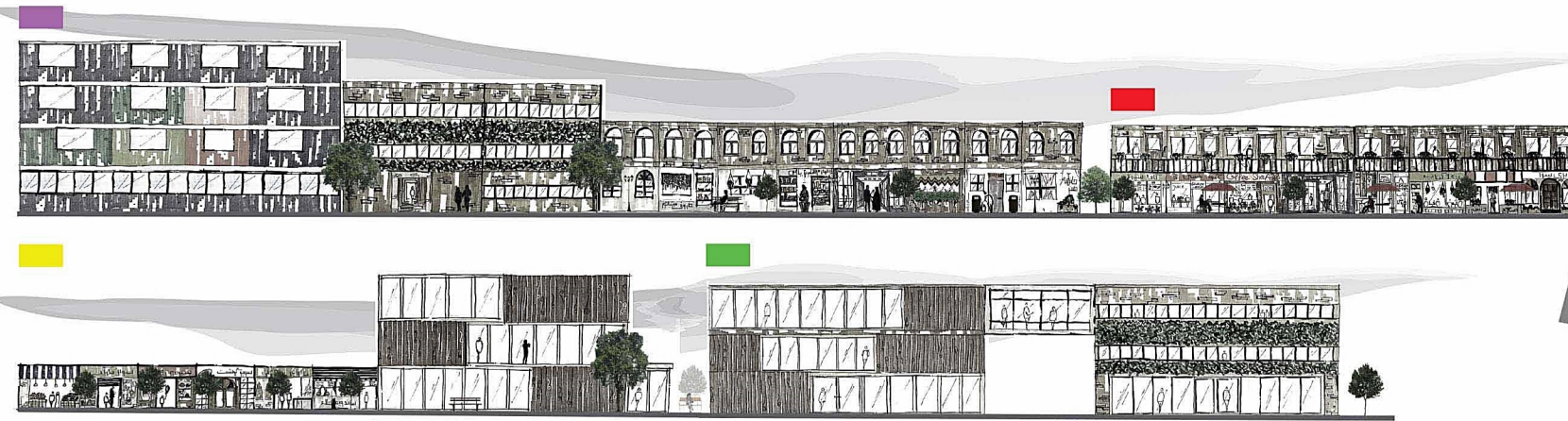
Also for giving more importance to pedestrians next to the new constructed urban space we design some parklets in front of the local services to let walkers specially residents have more chance of spending time in the street with better and safer situation.



02 Imam Hossein Neighborhood

Design

For having a better place to attract people, designing and redesigning the new and old buildings is necessary. Having coordinated facade and compatible construction with the rest of the neighborhood can create a familiar and agreeable feeling in people.



02 Imam Hossein Neighborhood

Visions



Studio 3

Street Design: Designing Keshavarz Boulevard

Supervisor: Dr. Shahab Kermanshahi

Email: shahab.kermanshahi@gmail.com

Academic Project

Group Project: The data collection and some site analysis was in groups of 4. But the design, project illustration and the rest was individual

Semester 6/2017-2018

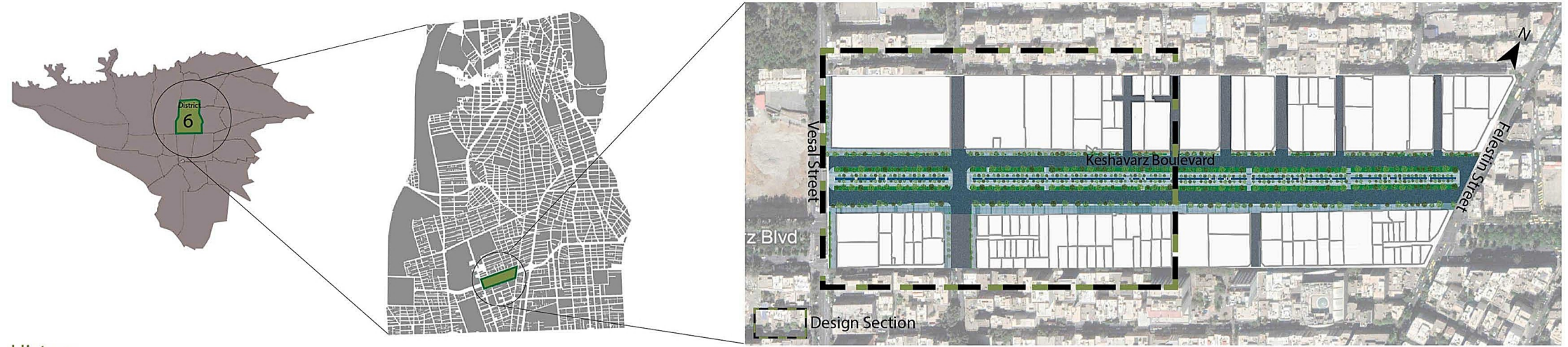


03 Keshavarz Boulevard

Site Analysis

Location

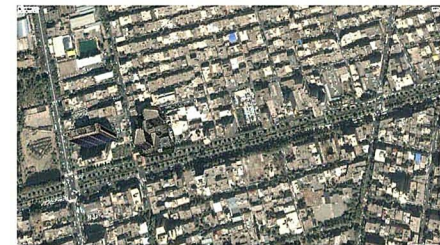
Keshavarz Boulevard is an east-west boulevard in district 6. This Boulevard starts from Valiasr square from east to Doctor Gharib street in the west. It is about 2,2 km and has intersections with many main streets, such as Vesal street, Qods street and etc. The southern side of Laleh park is located in Keshavarz Boulevard and it is near University of Tehran.



History

In the past this street was called Elisabeth Boulevard, which was one of the main recreational centers in Tehran. As people spent a lot of time in this street in weekends and after work. After Iran's revolution this street was renamed to Keshavarz Boulevard due to having Agricultural minister building in it. Nowadays, this boulevard has lost its efficiency and people do not spend a lot of time in it.

2005



2010



2015

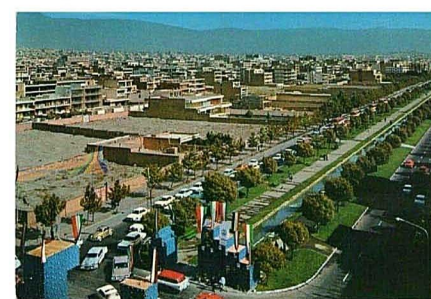


2019



Keshavarz Boulevard has not changed a lot in the past decades. But over time, the trees grew significantly and they play an important role, as they are a symbol of this street. Nowadays, there are more buildings around this boulevard and there are more landmarks, such as Saman residential complex and Pars hospital.

Before



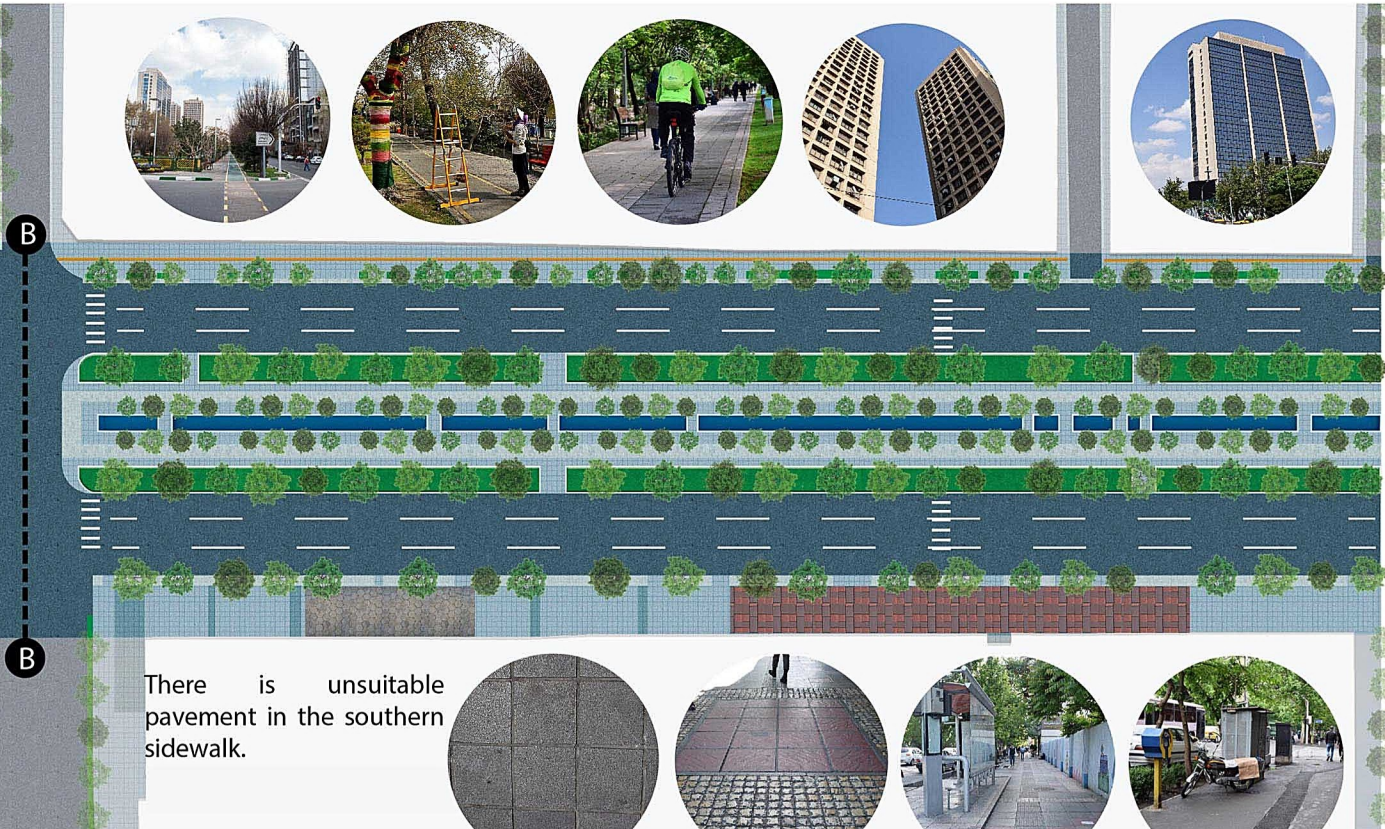
After



03 Keshavarz Boulevard

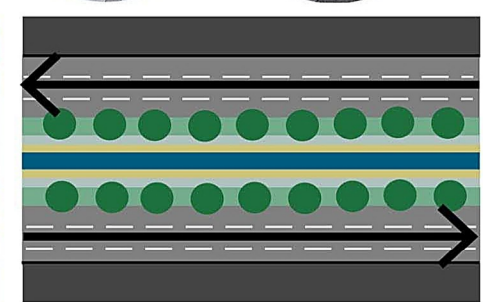
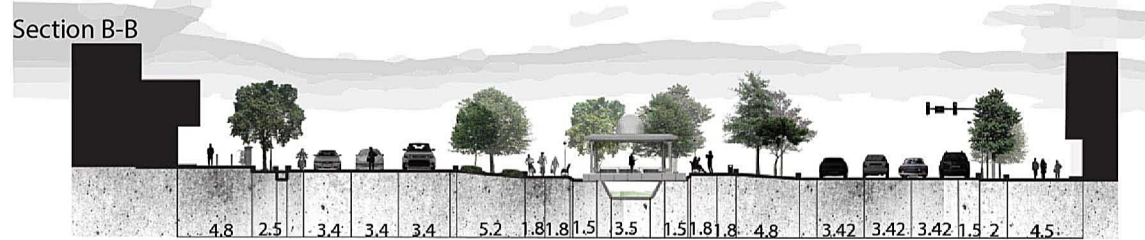
Site Analysis

Keshavarz Boulevard is a minor arterial that is connected to many collectors, so most of the time it is crowded. Although it has wide sidewalks and the green path in the middle it is highly car oriented. The sidewalks are not suitable for all pedestrians specially old and disabled people, as there are many obstacles, such as construction in middle of the way. Also, there are many motorcycles in the boulevard that cause problems for pedestrians.



Keshavarz Boulevard is a landmark in Tehran. It is surrounded by many regional landuses and trans-local services such as hospitals and hotels. In different times of the year such as new year this place is designed and many events are observed. Usually people enjoy being in this place and spend some quality time.

There is unsuitable pavement in the southern sidewalk.

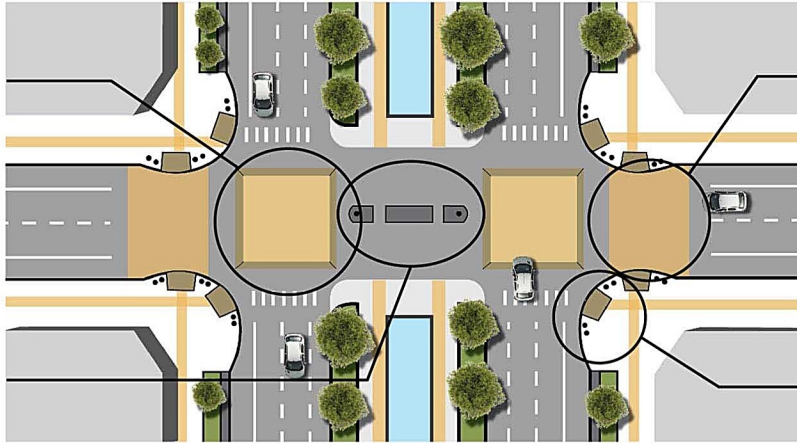


Keshavarz Boulevard is a two way street with green space and watercourse in the middle. Each way has 3 wide lanes. There are wide sidewalks that are not well organized for the pedestrians. In the middle there is a cycling path which attract many people to use bicycle for transfer.

03 Keshavarz Boulevard Concepts

- The main concept of this design is based on complete streets and to bring more people with different abilities to this street to spend more free time in it. To get to this aim, the first action is traffic calming to have safer street for walkers and give priority to pedestrians rather than cars.

Speed Table
Using speed tables in the intersection to raise the entire wheelbase of a vehicle to reduce its traffic speed.

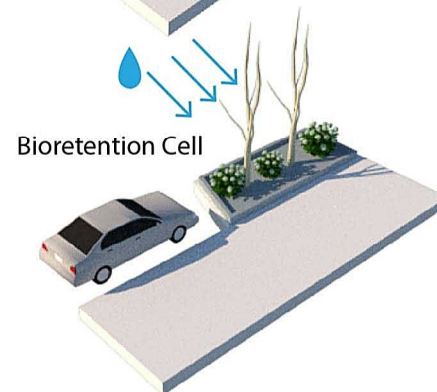
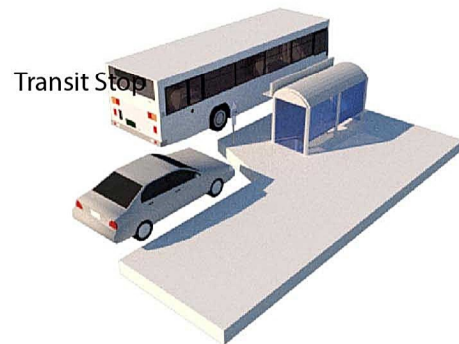
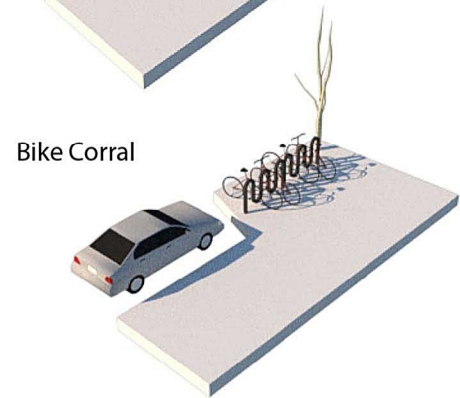
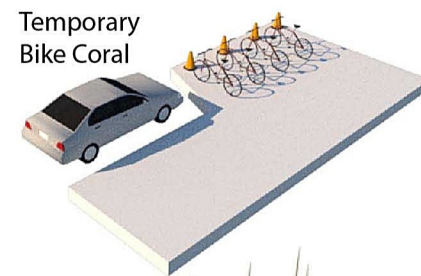
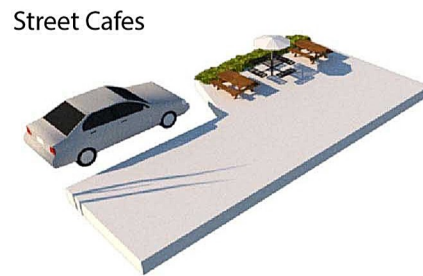
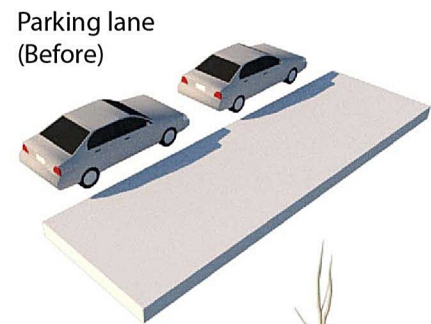


Change the pavement
Change the pavement in the intersections to reduce speed and help blind people while they are crossing the streets.

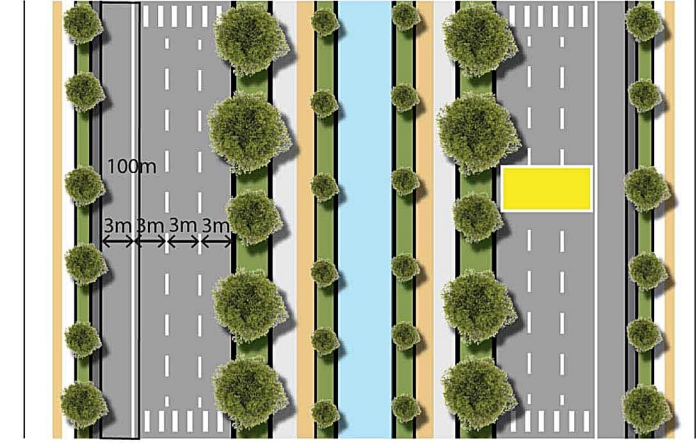
Safety Island
Having safety island in the street to create a safe space for the pedestrians and bicycle users from the traffic flow.

Chokers
to build-outs added to a road to narrow the street to change its perception to drivers.

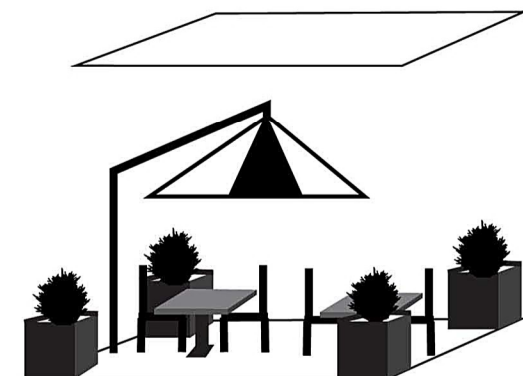
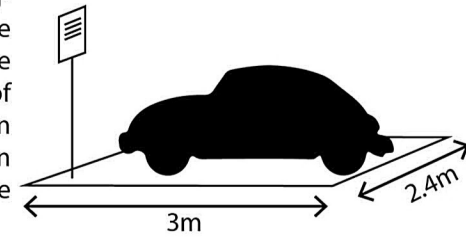
- One of the main idea of this street design is using parklets for different purposes. A parklet is a sidewalk extension that provides more space and amenities for people using the street. These parklets are installed on parking lanes and use several parking spaces.



- Increasing cross walks about every 100 meter and using some bright color on the street would slow down the cars' speed and make it a safer for pedestrians.



- Every parking space is about 7 m². Reducing the parkings and changing them to useable urban spaces can give walkers the chance of spending more time in the street and it can reduce give more priority to walkers.



03 Keshavarz Boulevard

Design

The main objective of this design is to make this street more walkable, more user friendly and safer for all people with different abilities. To reach this aim we use different traffic calming approaches and give more priority to pedestrians.

Speed table



Safety island



Increase the crosswalks



To make this street more user friendly we designed some parklets through this street to make it a place for pedestrians to spend time and have fun. Also, organising the sidewalks in a way to make it practical for all users is one of our main objectives.

Parklets



Change the pavement in the intersections



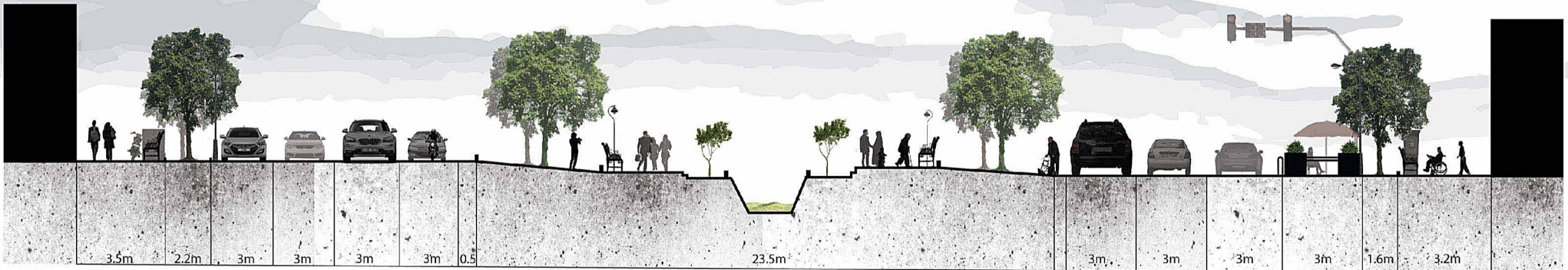
Color the street to slow down the speed



Organising the sidewalks



For having more space for the pedestrians we reduce the width of the lanes to have more space for street design, such as parklets. This action not only provide more space for walkers, but also reduce the speed of cars because of narrower lanes. So, the risk of accidents will be reduced and we have safer and more user friendly street.



03 Keshavarz Boulevard

Visions

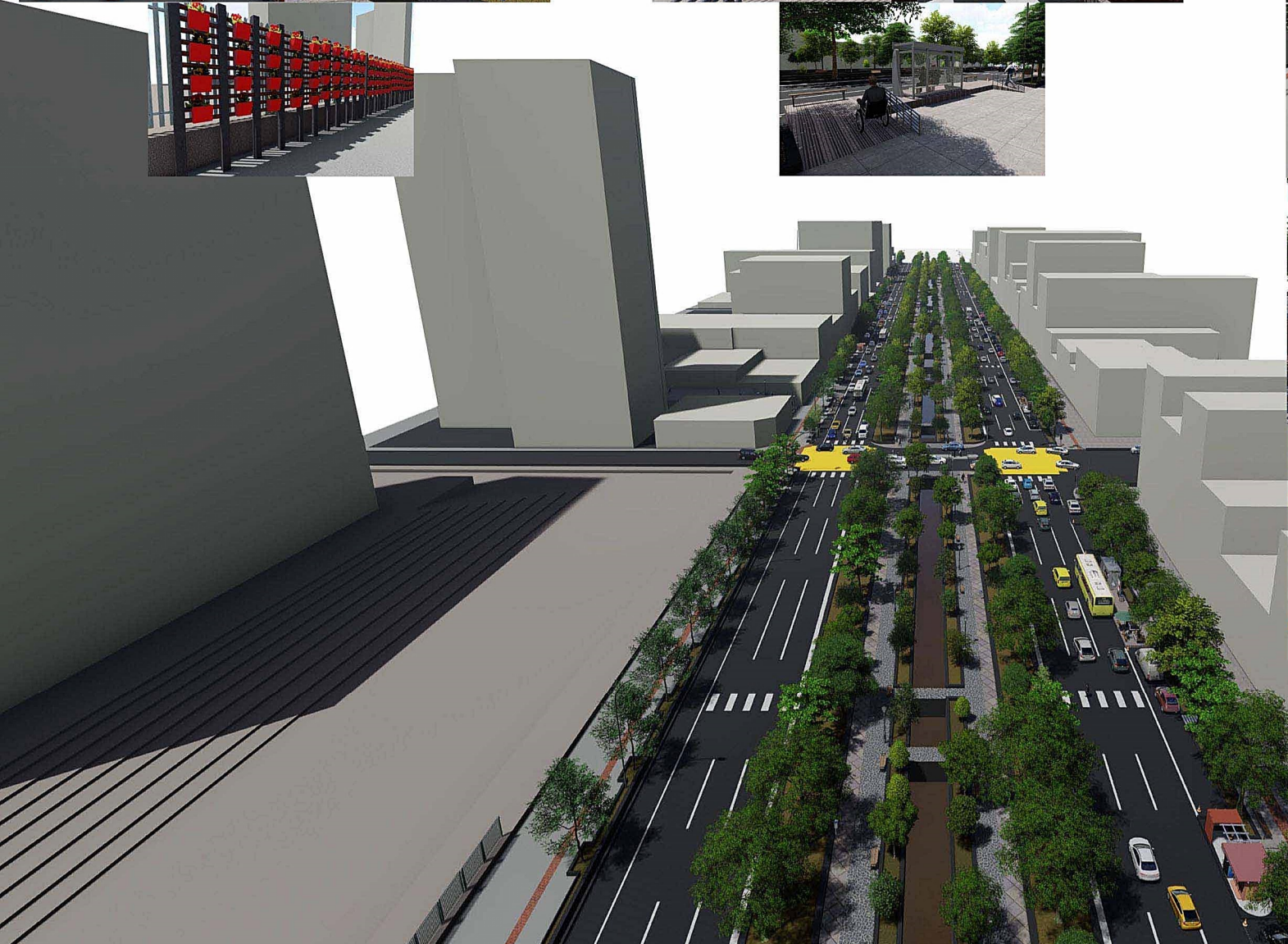
● Use unusable spaces in the city to provide services and urban spaces



● Redesign transit stops to facilitate using public transit for everyone



● Creating parklets for different uses in the street in the more useable spots



Studio 1

Site Analysis:Analysing Gorgan Neighborhood

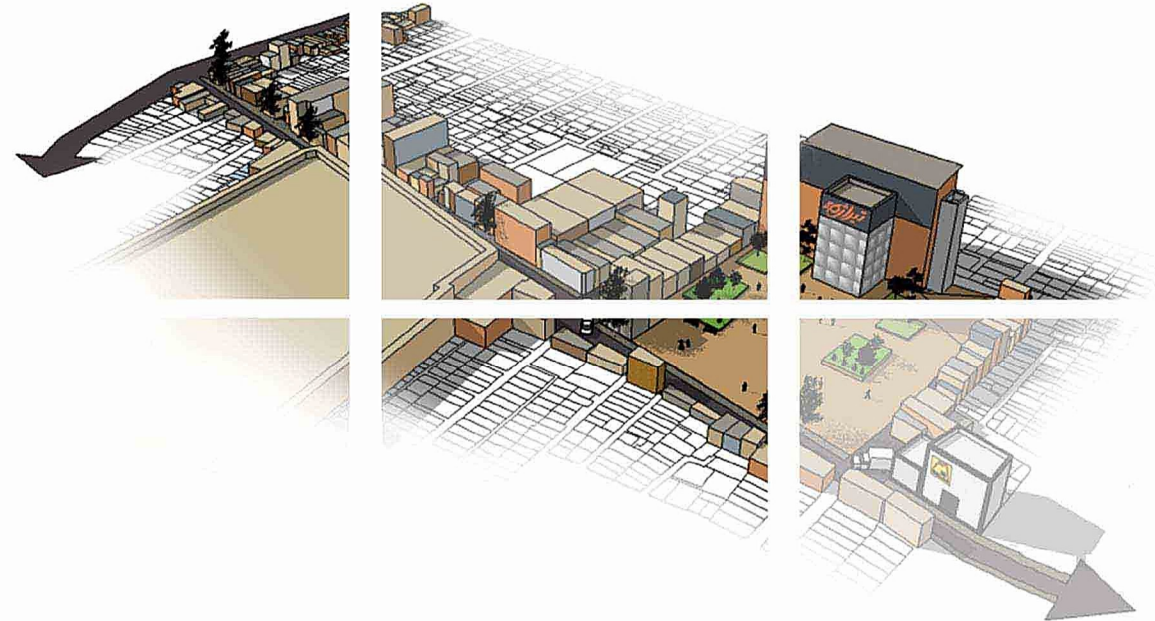
Supervisor:Mojgan Taheri Tafti

Email: m.tafti@ut.ac.ir

Academic Project

Group Project:The whole project from data collection to project illustration was in group of three and we all participated in different parts.Such as,drawing sketches,using 3d programmes,photoshop and gis for map production

Semester 4/2016-2017

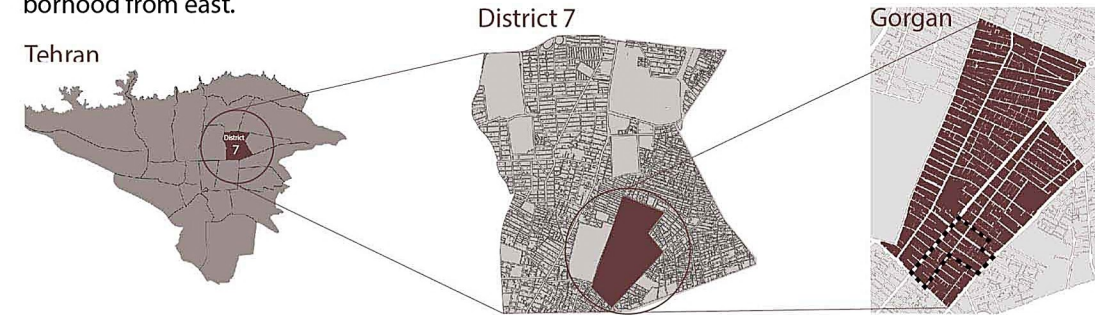


04 Gorgan Neighborhood

Site Analysis

Location

Gorgan neighborhood which is one of the oldest neighborhood in Tehran is located in district 7. This neighborhood is located next to Sayad shirazi express way from west and Nezamabad neighborhood from east.



In the recent years the financial situation of residents has become better. Lots of old houses have been demolished for new, hisgh-rised constructions. This neighborhood has becom over populated and due to modernity there is a gap between old and new residents.

History

This neighborhood is formed in Pahlavi dynasty when Teran was developing from the north. The lands were for Iran's minister's daughter that she built up a part of these lands and sold the rest to a business man. At first they were just farms and gardens but after few years people started living in this area due to cheap lands. The first street of this neighborhood was Namjoo, which has not changed a lot since that time.



Old building



Old alley



Naderi bathhouse

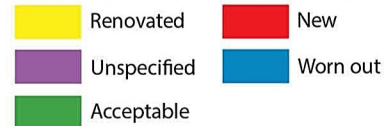


Safa mosque

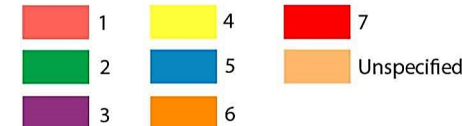
Landuse



Quality of buildings



Number of floor



Parking

