



**AN-Najah National University**  
**Faculty of Engineering and Information Technology**  
**Urban Planning Engineering Department**

**Graduation Project**  
**" Planning of Student Housing /**  
**AN-Najah National University"**

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**Presented to: Dr.Ali Abd-Alhameed**  
**Dr.Zahra'a Zawawi**

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It is residential complex where there are reasons for rest , tranquility and academic atmosphere , where the student lives and combines the family and the hotel , but it differs from the nature of its members and nature service.



## **Project justification**

**Until now** there is no specific experience related to student housing complex as the existing housing is implemented and controlled by the private sector not the university.

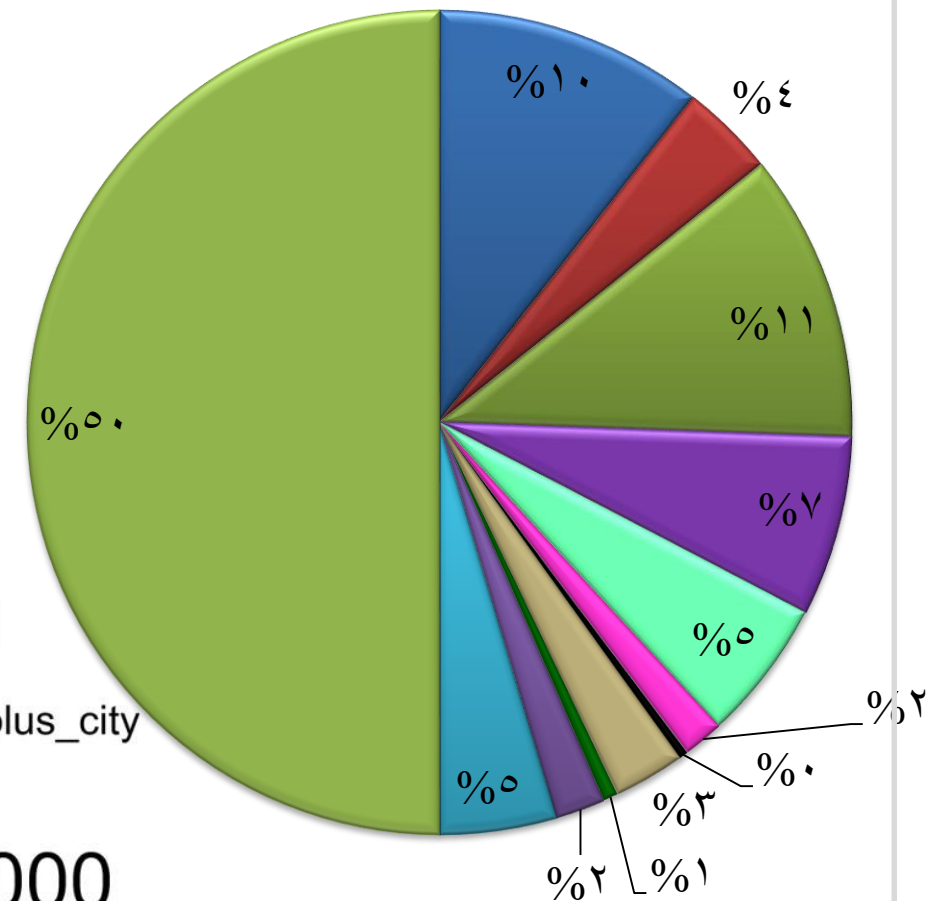


**Distinguished** student housing provides **comfort** for students and meets their different **needs**

# Classification of students in An-Najah University by place of residence (at the governorate level)



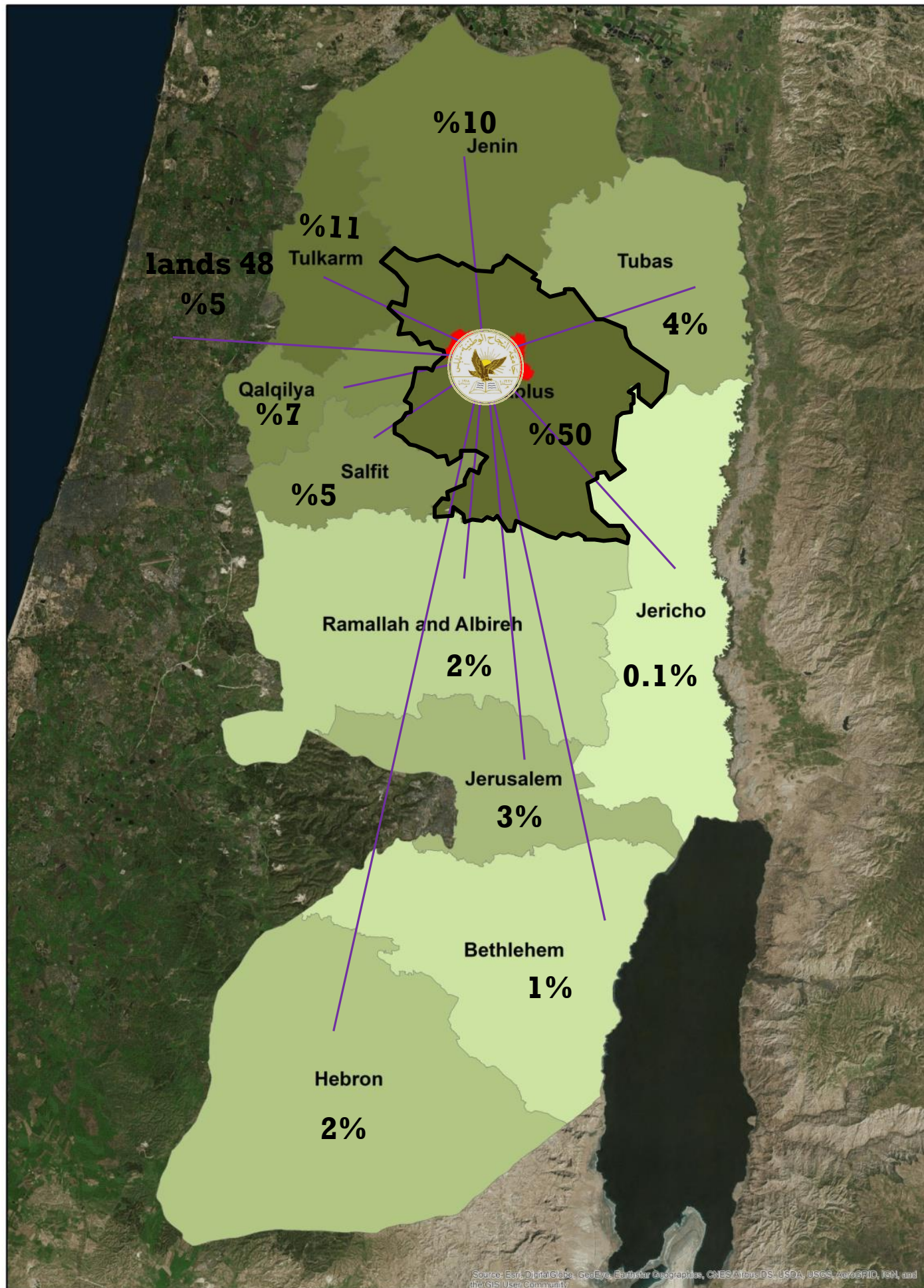
- Jenin
- tulkarm
- Salfit
- Jericho
- Bethlehem
- 48 Land
- Tubas
- Qalqilya
- Ramallah & Albereh
- Jerusalem
- Hebron
- Nablus



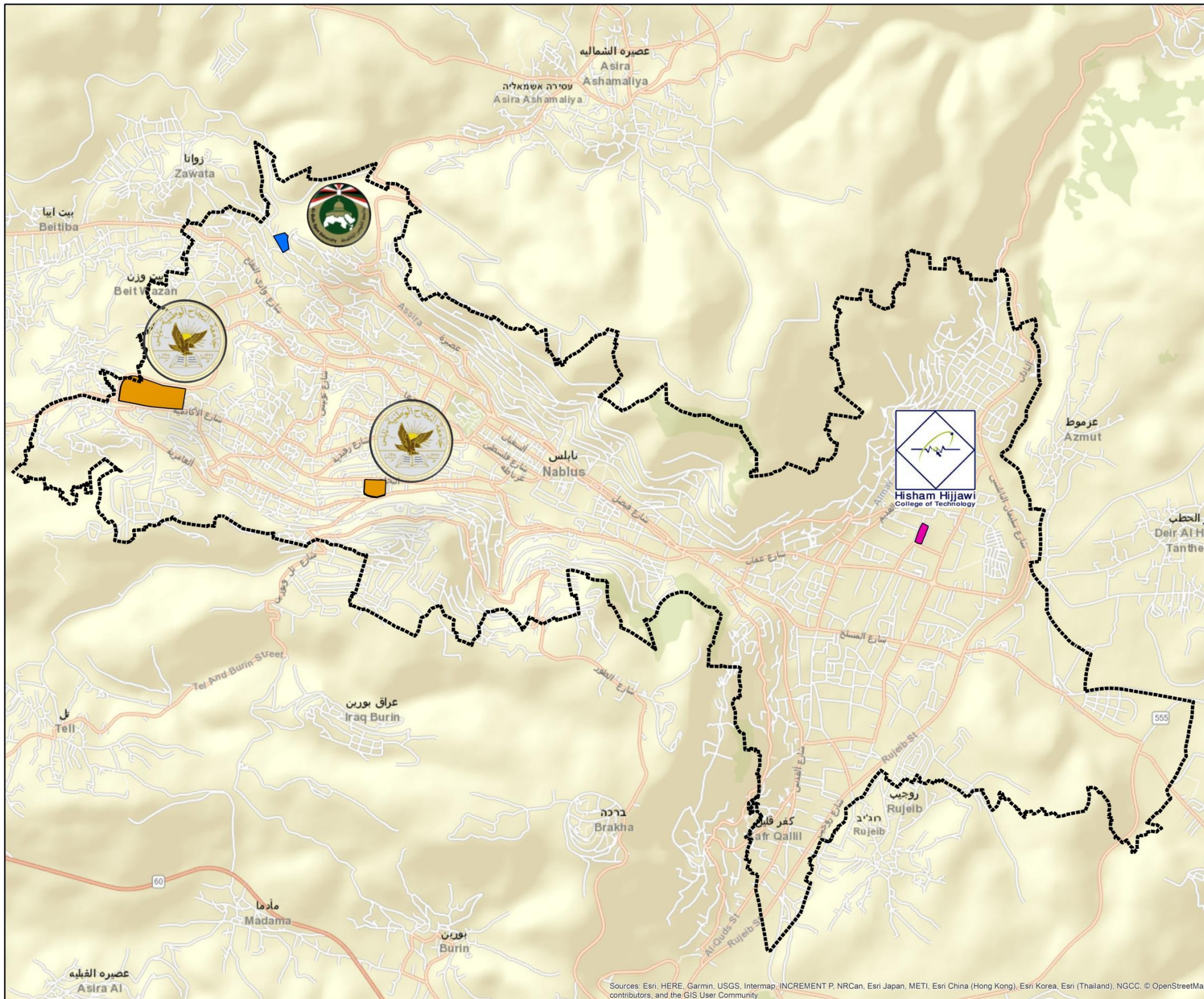
## Legend

■ Nablus\_city

1:400,000



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community







# Location of Universities in Nablus



Urban Planning Department

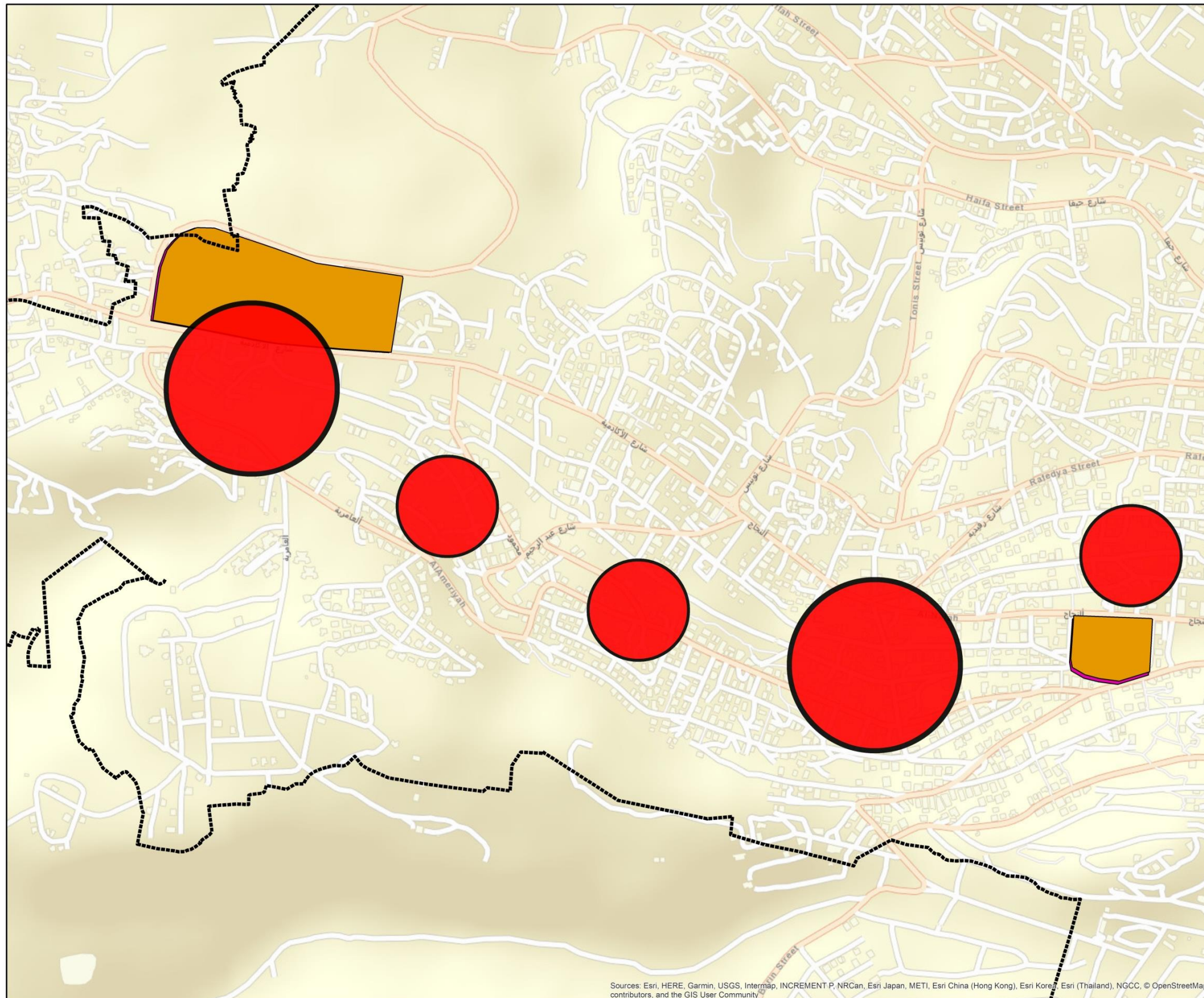
## Legend

-  Nablus boundary
-  Najah\_University
-  Open\_Quds\_University
-  Hisham Hijawi College

World Street Map

1:30,000

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community



# Location of student housing



Urban Planning Department

## Legend

- Nablus boundary
- Najah\_University
- Open\_Quds\_University
- Hisham Hijawi College
- most\_dense
- medium\_dense
- less\_dense

World Street Map

# 1:8000

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community





# **Site Selection**

# CRITERIA

1. The topography
2. Far from wadis
3. Far from high agricultural value
4. Near to University
5. Empty parcels
6. Proximity to the main road
7. Infrastructure availability
8. Easy access
9. Security
10. The area of the site  $\geq 100$



# The Topography of Nablus City












## Legend

 Nablus boundary

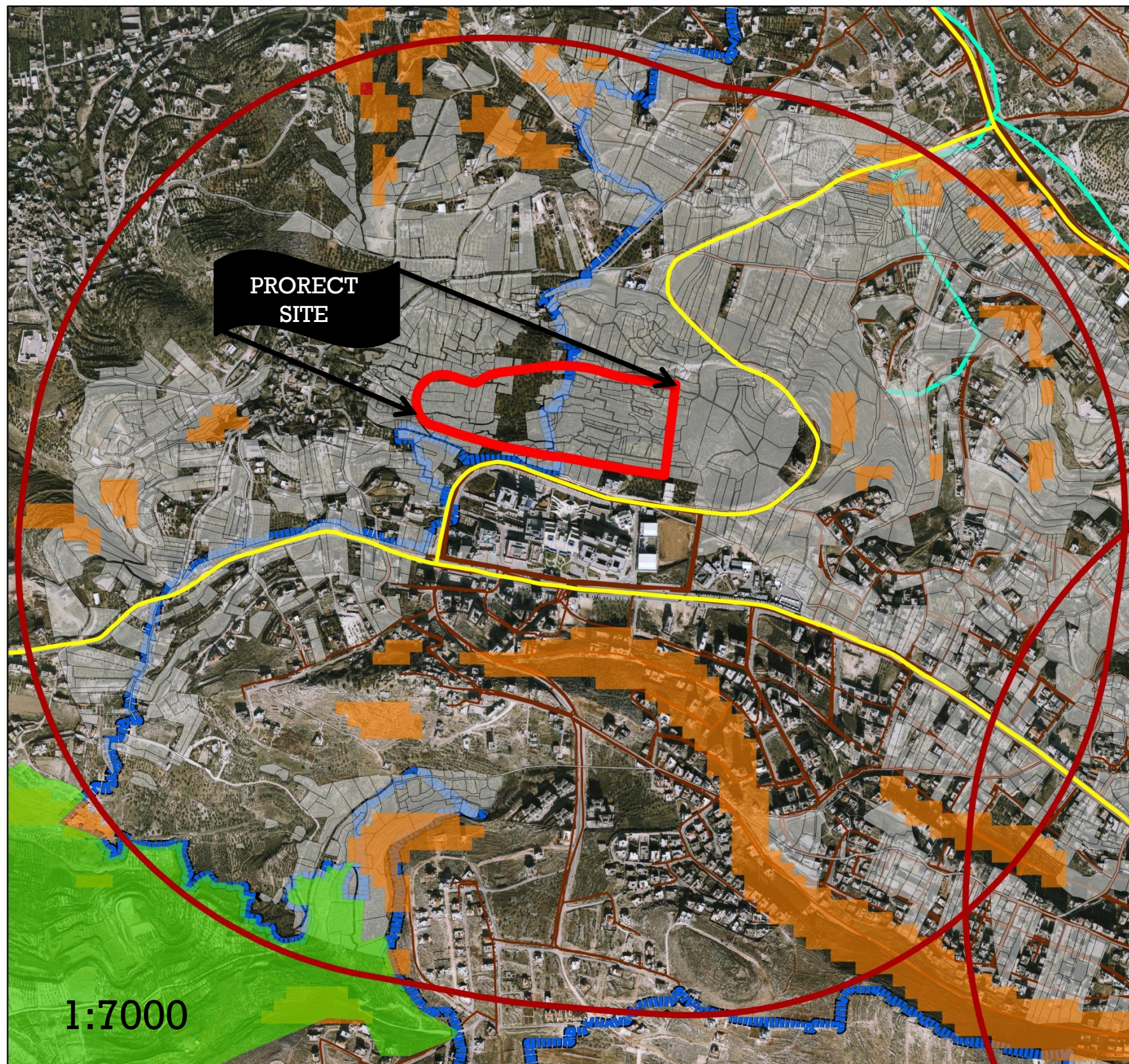
### Topography

#### Elevation

-  852.222 - 915
-  789.444 - 852.222
-  726.667 - 789.444
-  663.889 - 726.667
-  601.111 - 663.889
-  538.333 - 601.111
-  475.556 - 538.333
-  412.778 - 475.556
-  350 - 412.778

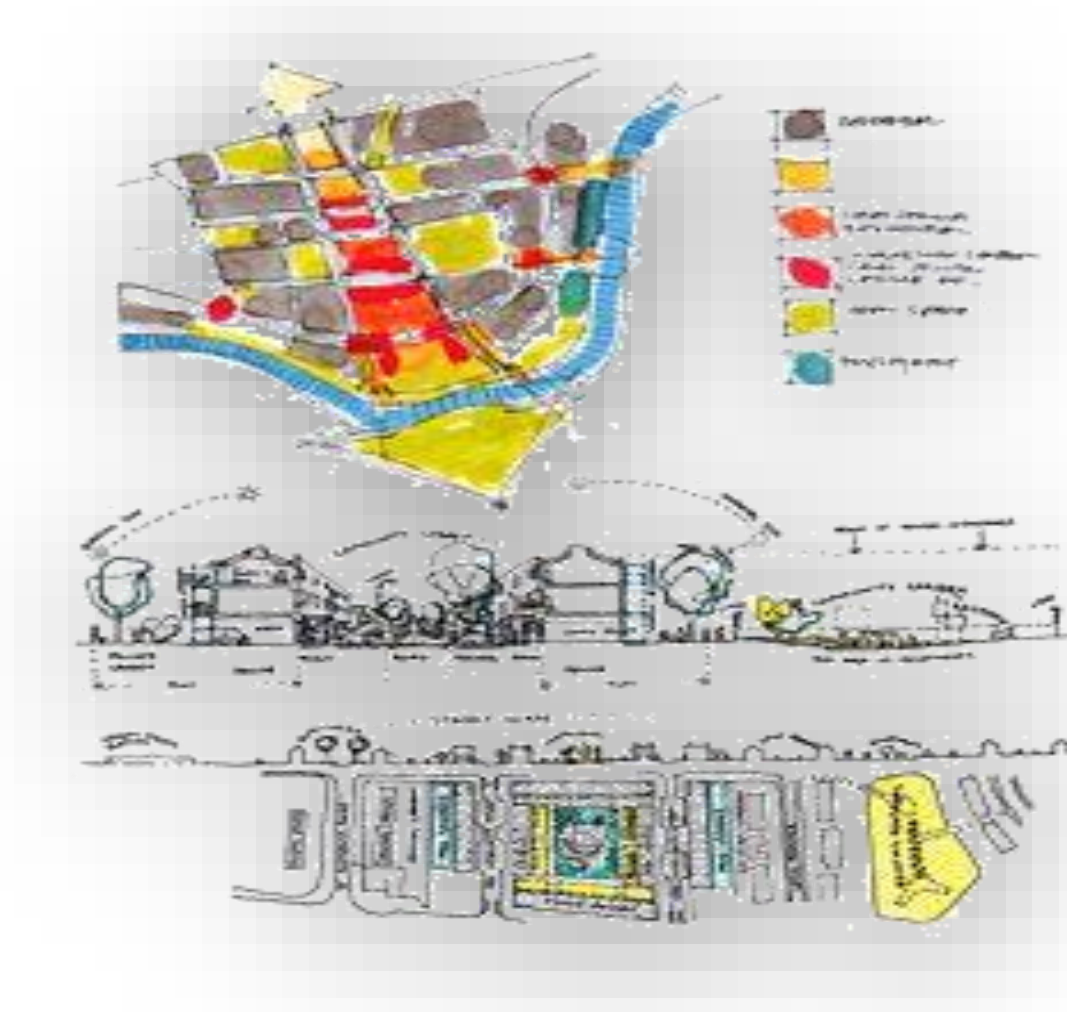
**1:30,000**

# Criteria and Site Selection



## Legend

- Nablus boundary
- Slope**
  - >10
  - >20
  - >30
- Wadis
- High
- Medium
- forests
- Buffer(1000m)
- empty\_parcels
- main\_road
- sewer & water

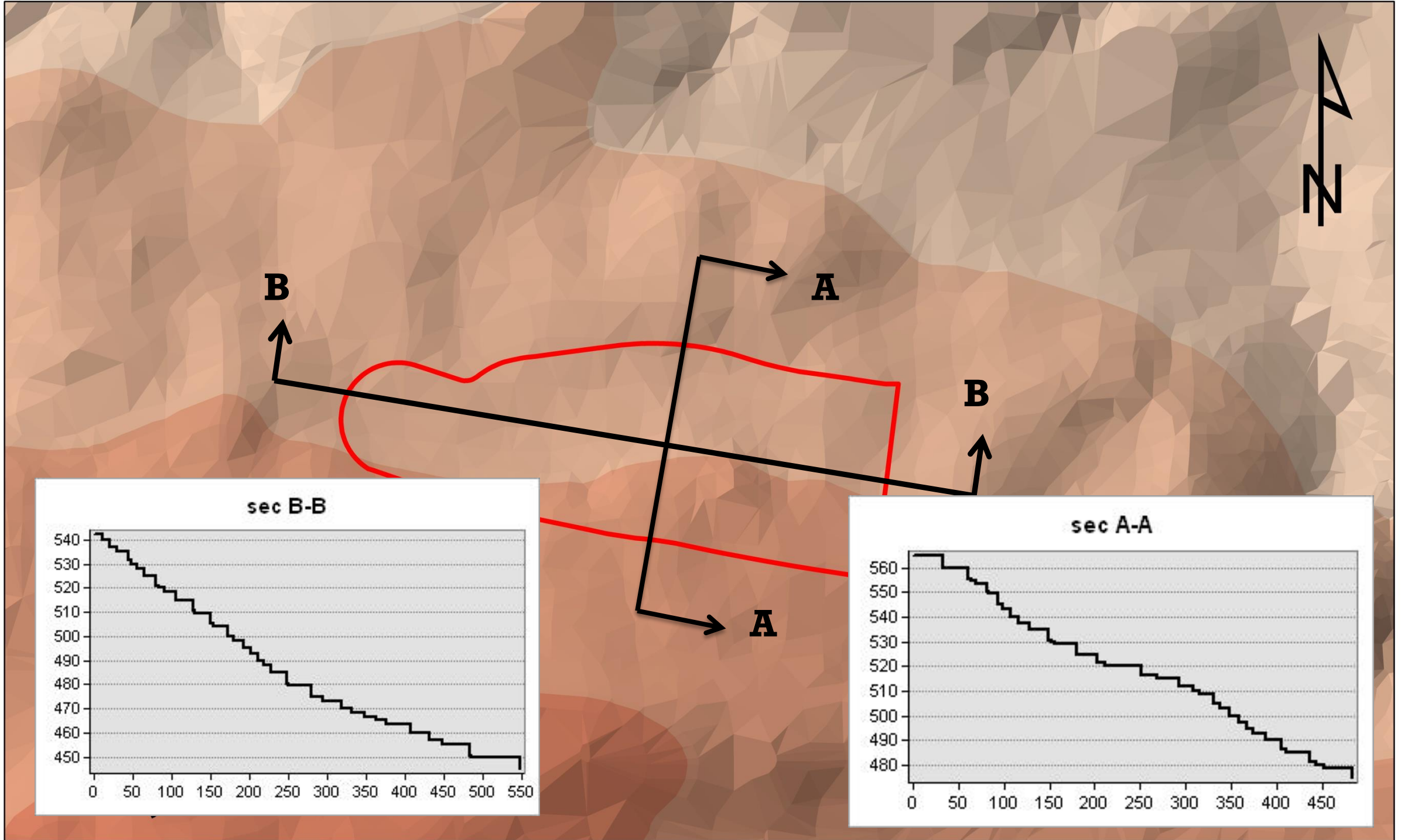


# Site analysis

# Project Site



# Topography









## Legend

Project Site Elevation	789.444 - 852.222	663.889 - 726.667	538.333 - 601.111	412.778 - 475.556
Topography	852.222 - 915	726.667 - 789.444	601.111 - 663.889	475.556 - 538.333
			350 - 412.778	

# Soil Classification



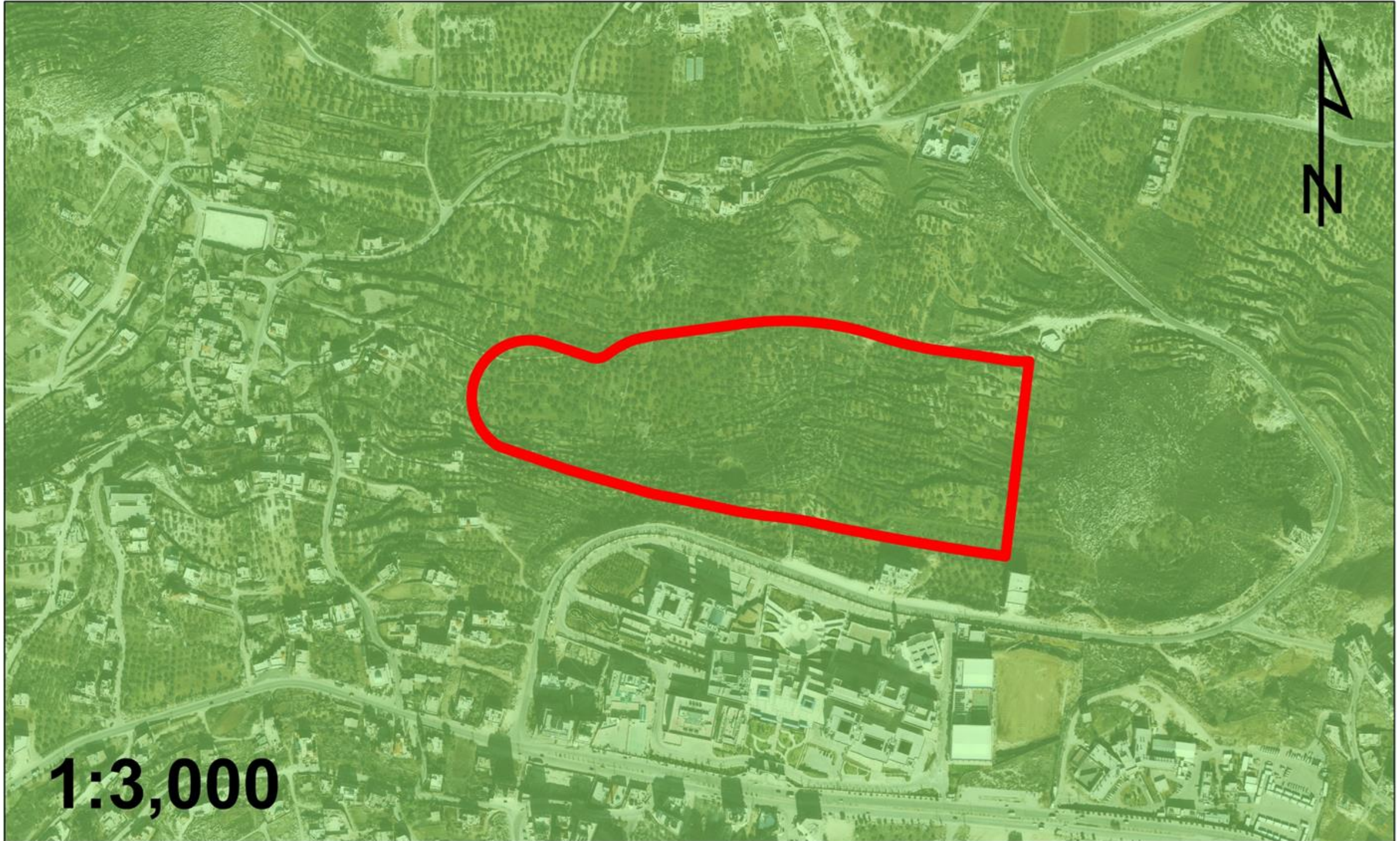
## Legend

- |   |  |
|---|--|
|  <b>Project Site</b> |  Clay loam  |
| <b>soil_classification</b>  |  Loamy      |
|                      |  Sandy loam |
|  Clay                |  |

Type of soil in the study area is clay loam(rocky soil) which is good in terms of resistance and can be built directly



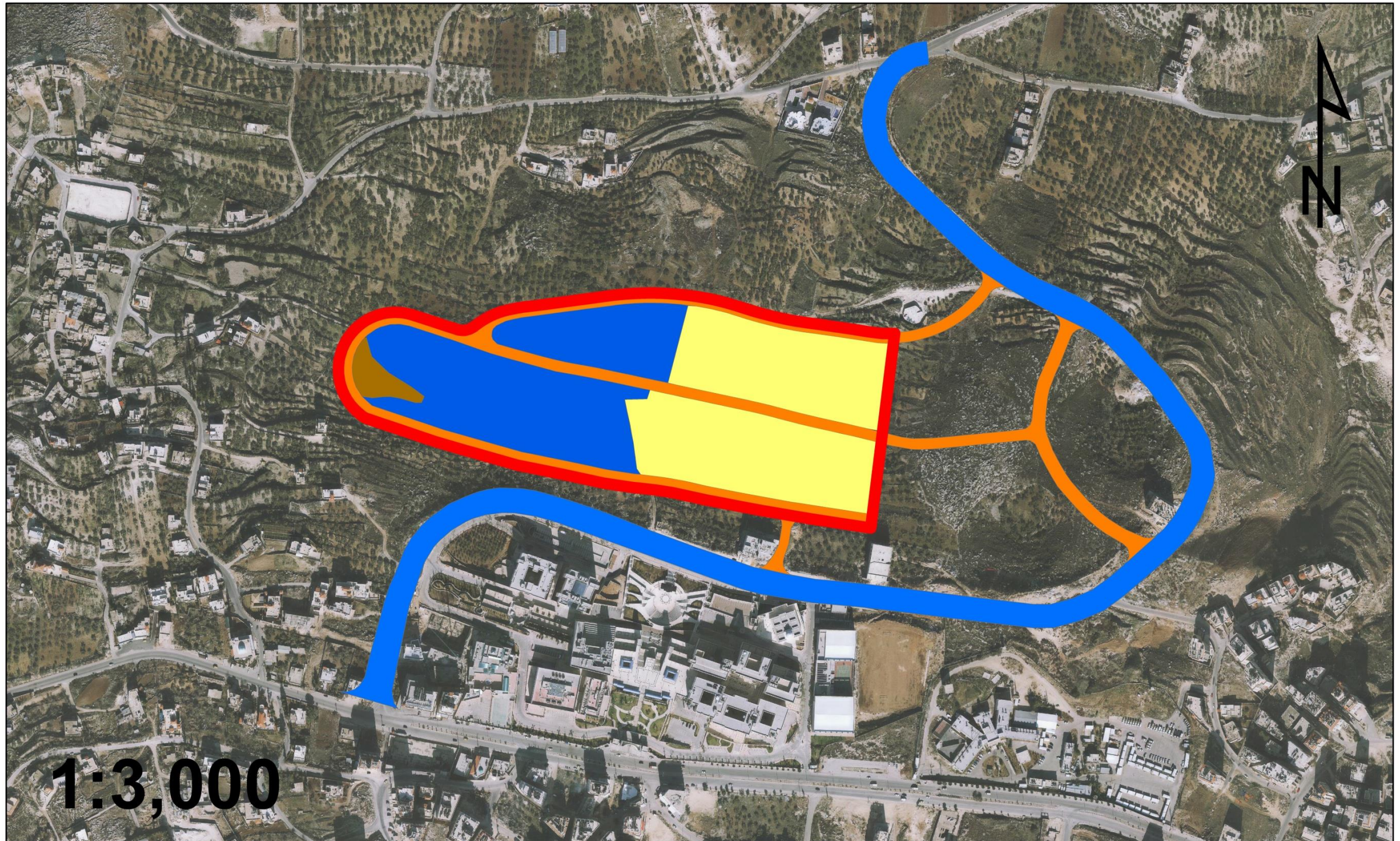
# Agricultural Value



## Legend

 Project Site  High  Medium  low  forests

# Land Use according to master plan of Nablus city (2013)



## Legend

 Project Site	 Residence "B"	 Residence "C"	 Proposed road
landuse	 Residence "B" with Special Regulatoin	 existing road	

# Accessibility



Regional road  
Main road  
Local road

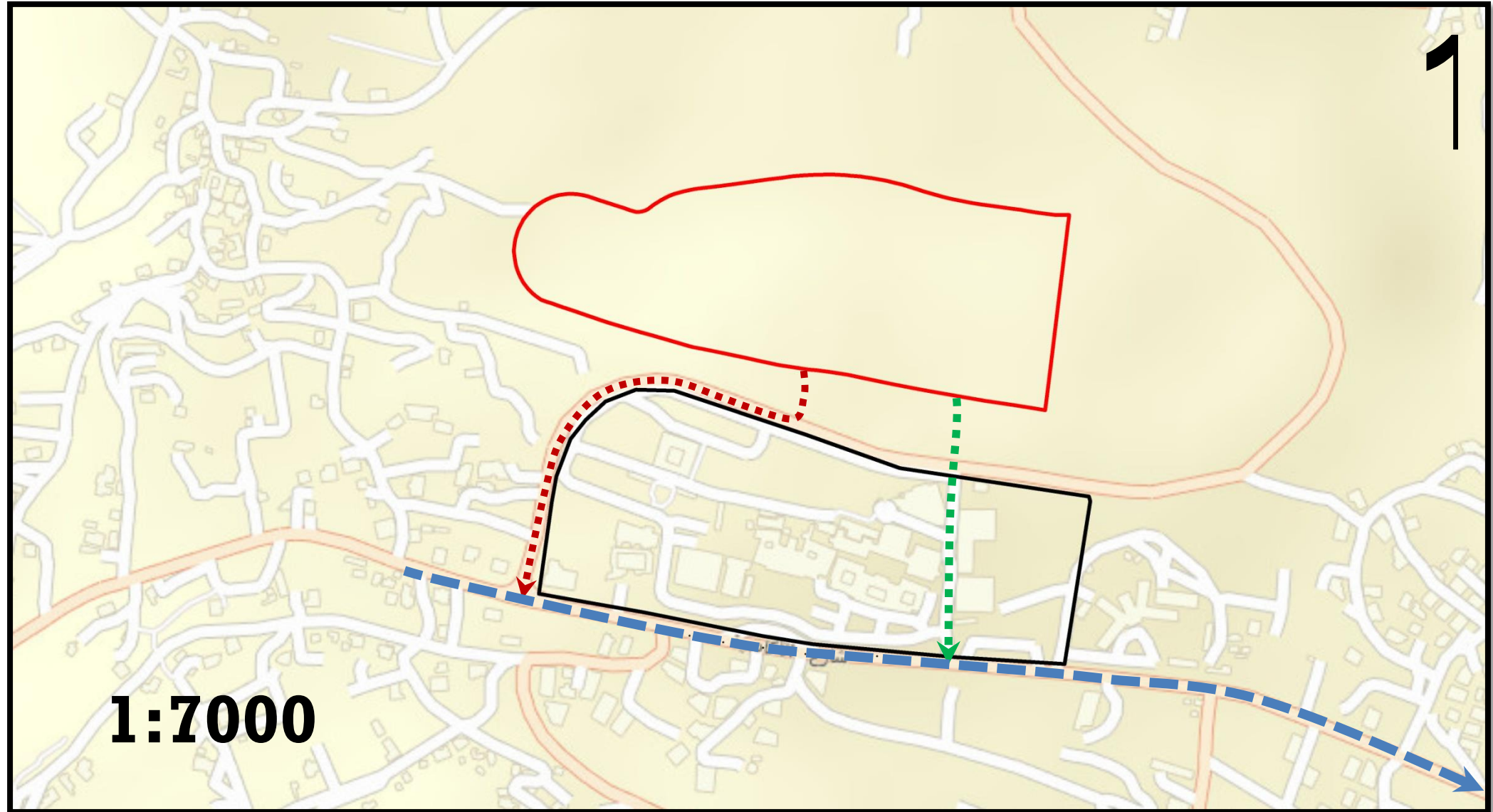


Dangerous intersection  
Non-Dangerous intersection



entrance

# Accessibility to the University street



## Legend



Project Site



An-Najah University



University street

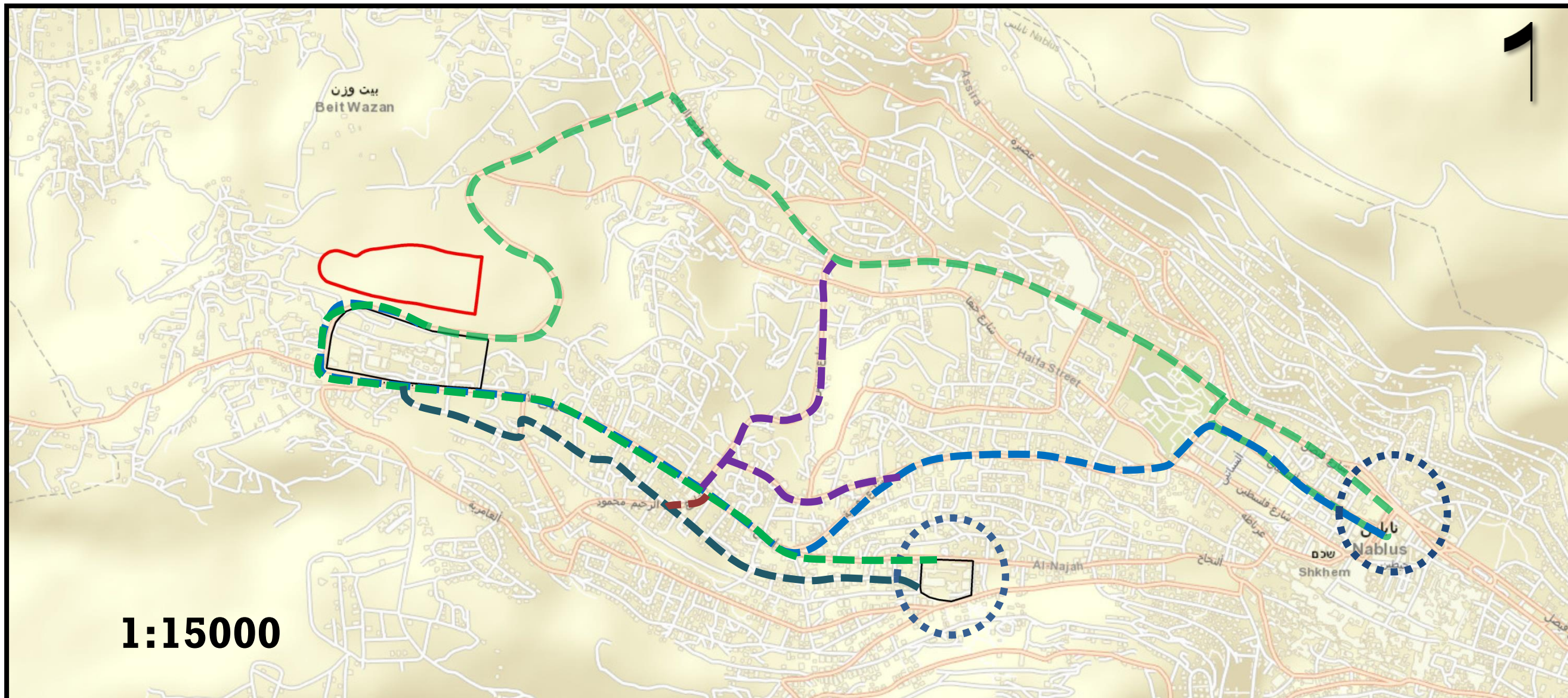
Short way



long way



## The relationship between the Site and (city center, old campus)



**The distance from the site to the city center is 2km and the distance from the site to the old campus is 1 km.**



# **The Concept and Design**

# The project program and areas

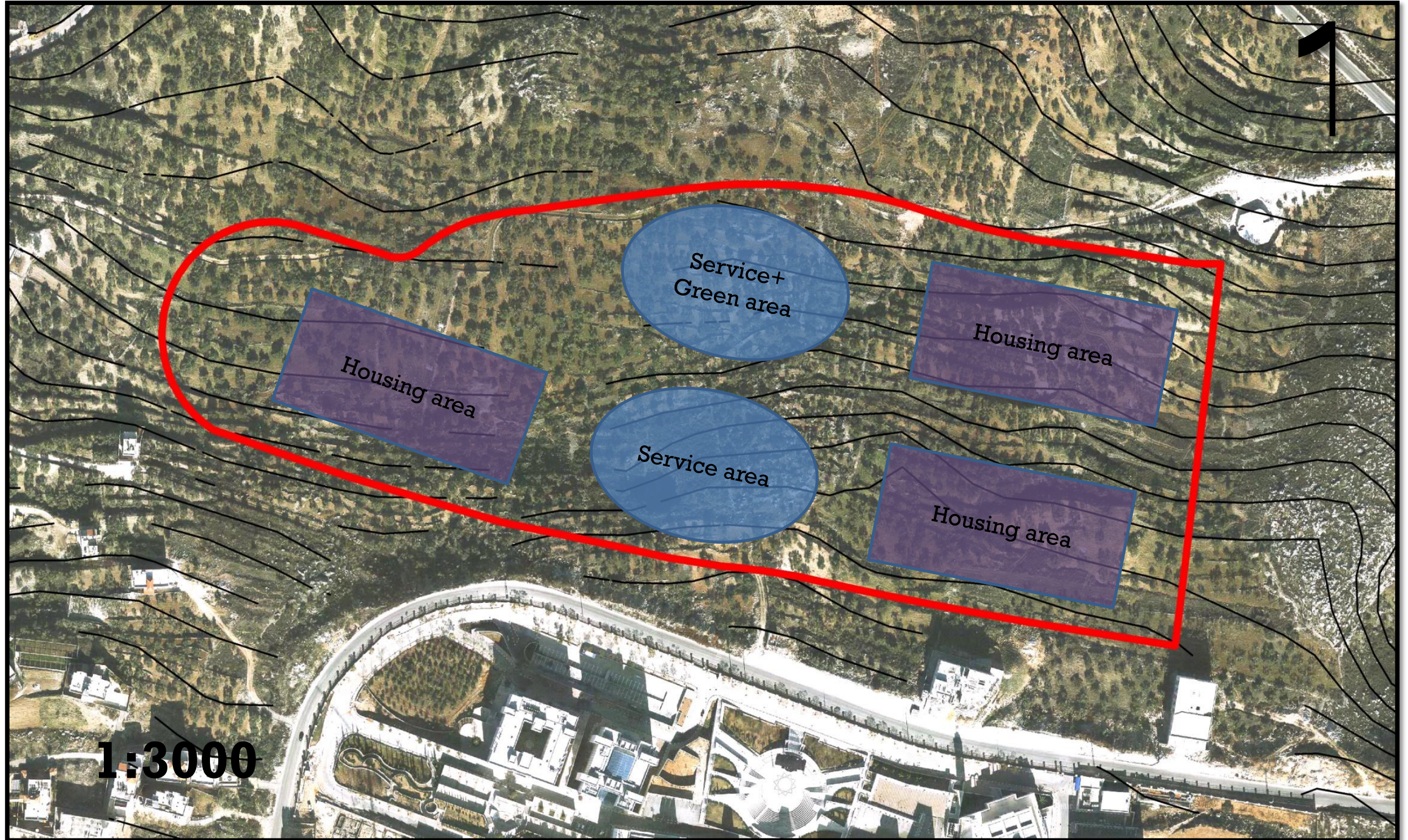
the housing designed on 109 Acres for 1500 student

Girls (65%) : 975

Boys (35%) :525

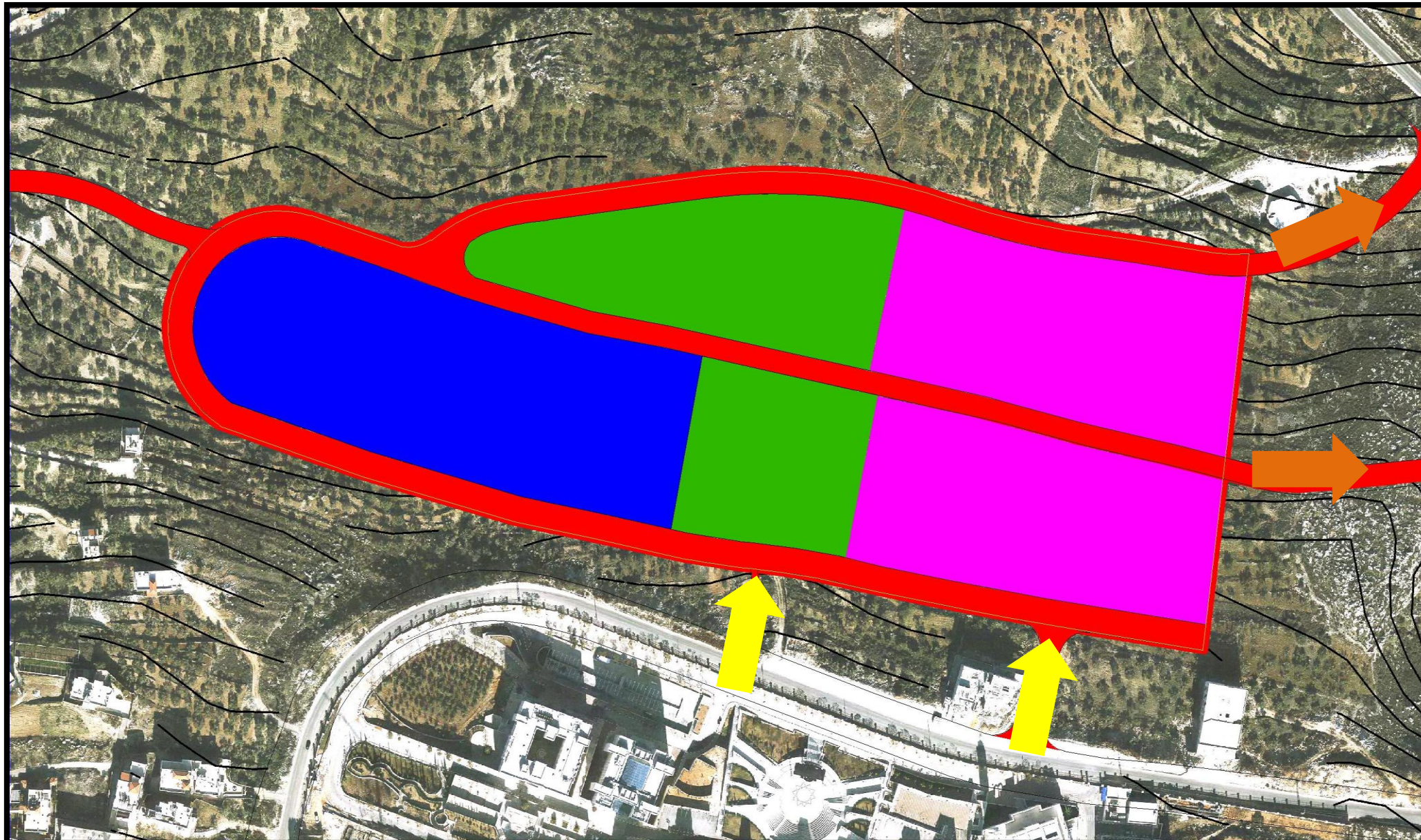
Zons	Total Area(m <sup>2</sup> )	% from the site						
Residential Area	61871.9040	56%	Girl housing			Boy Housing		
			Area (m <sup>2</sup> )	%from zons	% from site	Area (m <sup>2</sup> )	%from zons	% from site
			35383.7981	57%	33%	26488.1059	43%	25%
Service Area	24652.7374	18%	Main Administrative			Service & Green		
			Area (m <sup>2</sup> )	%from zons	% from site	Area (m <sup>2</sup> )	%from zons	% from site
			9273.6251	37%	.2%	15379.1123	63%	15%
Street network								
	22475	26%						


# The Land Use map concept








# The project concept

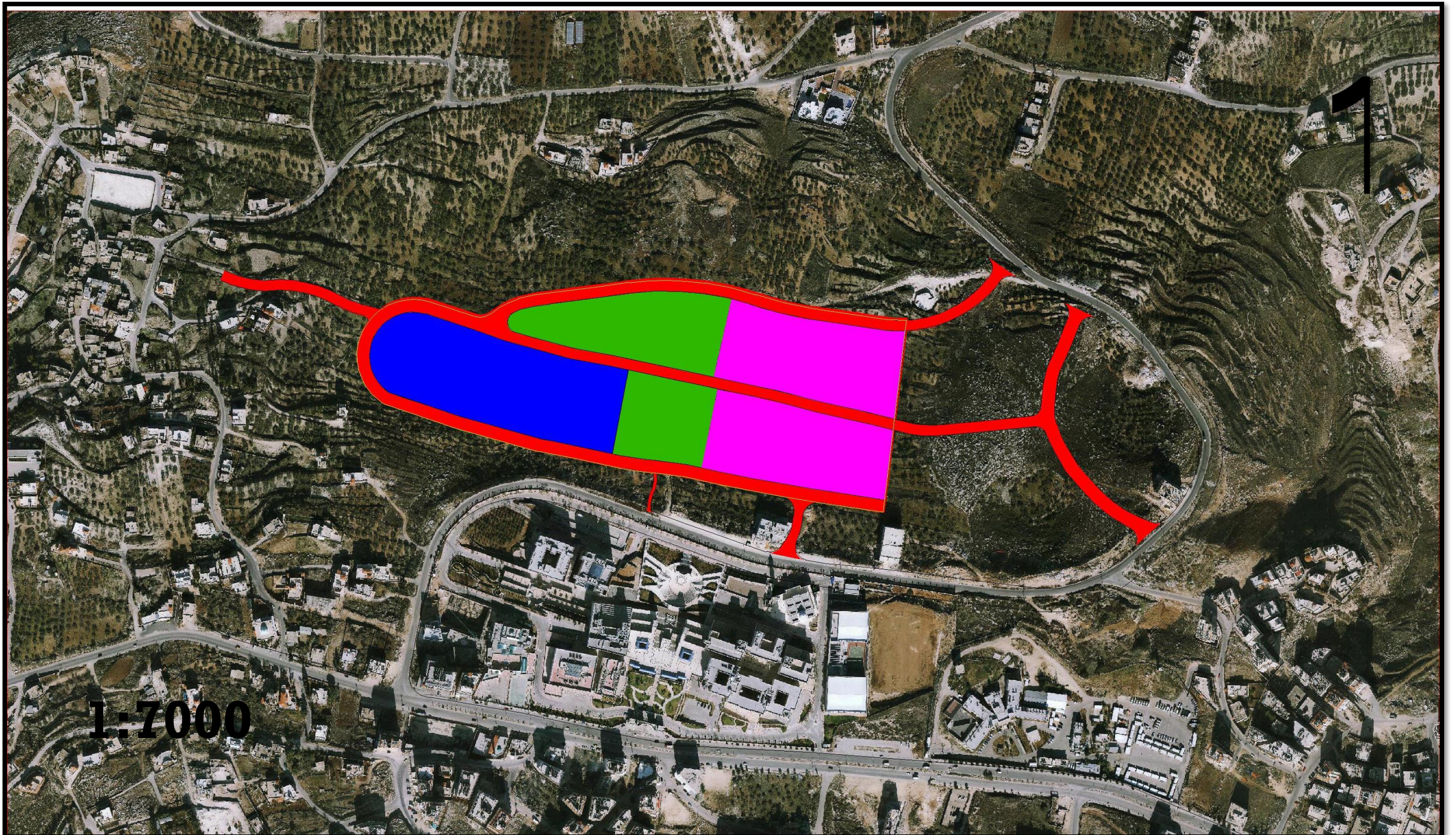


   
Urban Planning  
Department

 Girl  
 Boy  
 Service  
 Road  
 Entry  
 Exit

**1:3000**

# The project concept

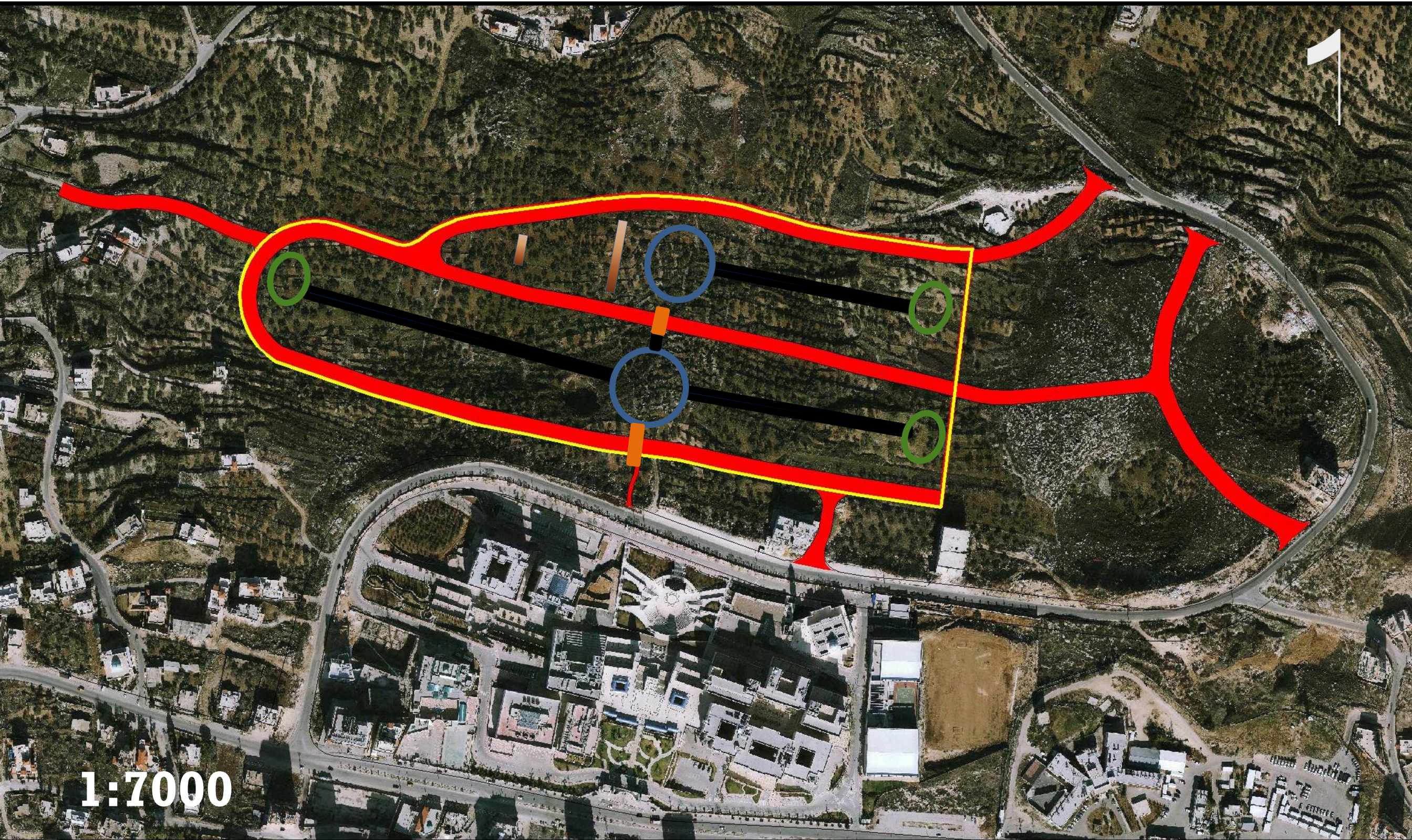


# Street network



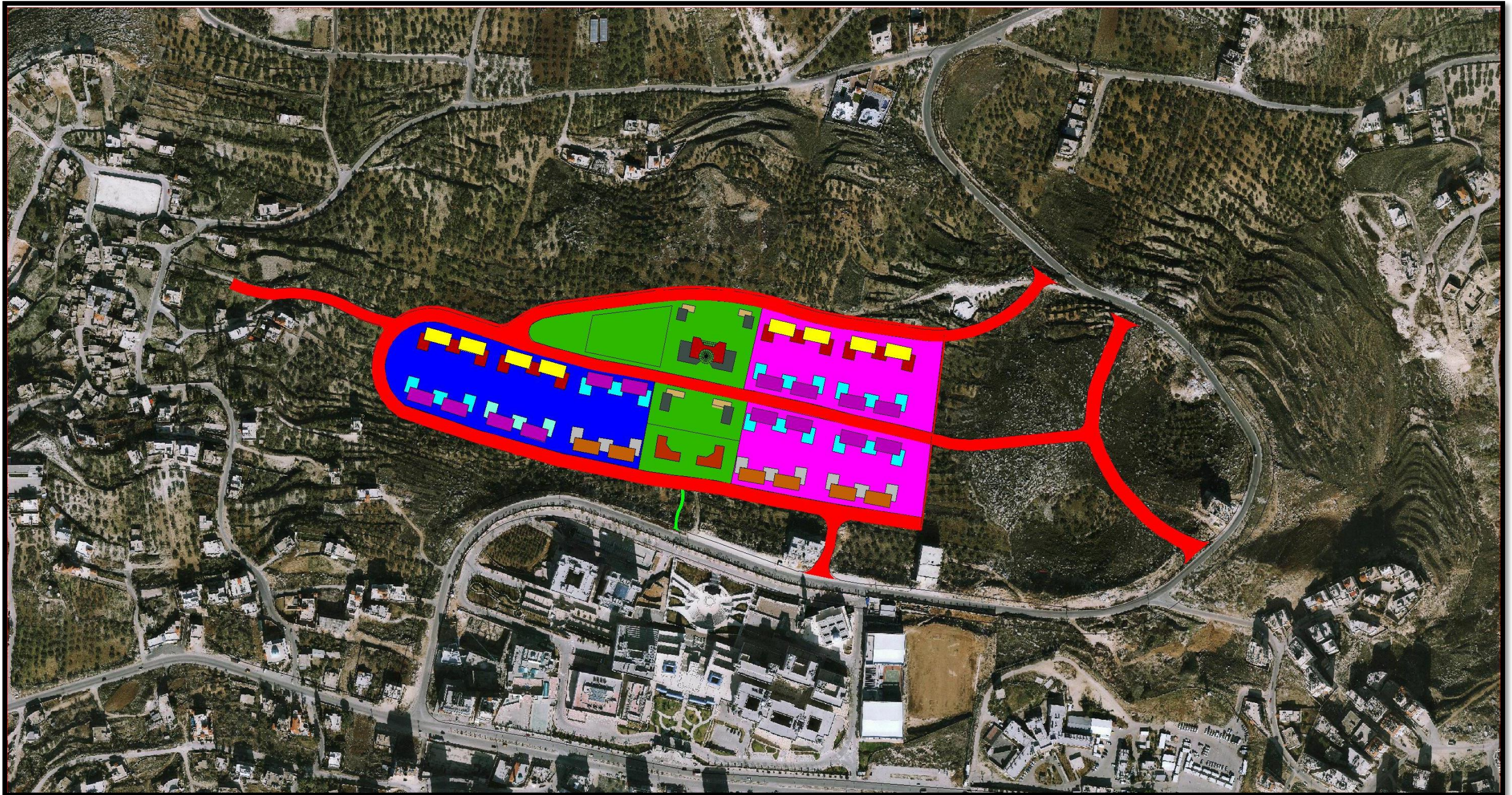
1:7000

# The Circulation in the site

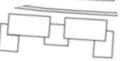

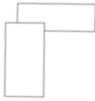


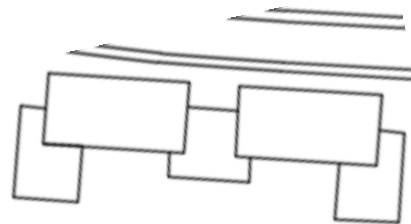
1:7000

# The Number of Floor

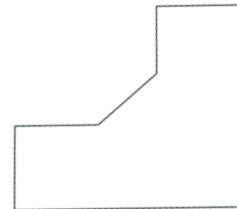


# Total area of unit

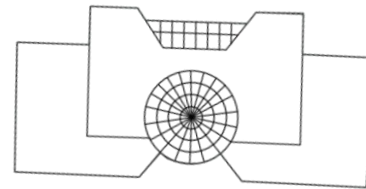
	Type	Number of unit	Number of Floor	Number of Apartment/ Area(m <sup>2</sup> )		Number of Student in apartment	Area(m <sup>2</sup> )
Residential 	Student Housing	8	4 - 6	4	95 m <sup>2</sup>	3	1299
Public 	Administration	2	3	-			430
	Mall	1	2 - 3	-			1477
Multipurpose 	Bank,Library,Mosque Shops,Halls,cafiteria	4	2 - 1	-			315
							214
Road	Main Road	-	-	-			22475
Parking	Car Parking			-			730
Sport	Sport Field	-	-	-			4343
Green Area	Garden	-	-	-			1605



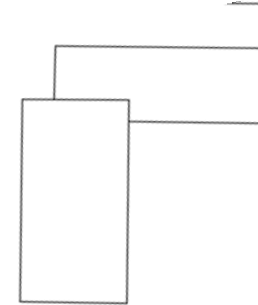
Student Housing



Administration

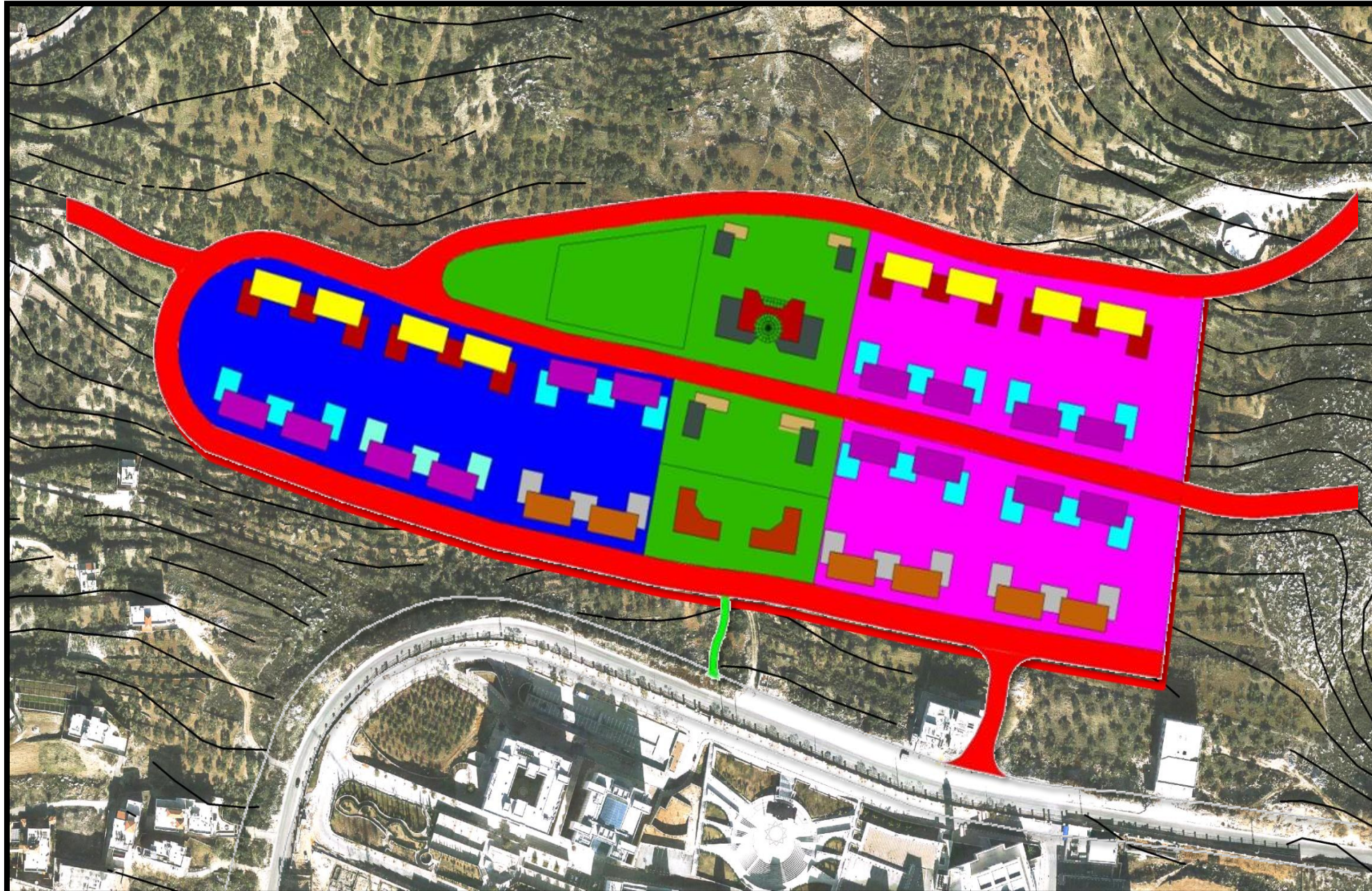


Mall



Multipurpose

# The Number of Floor



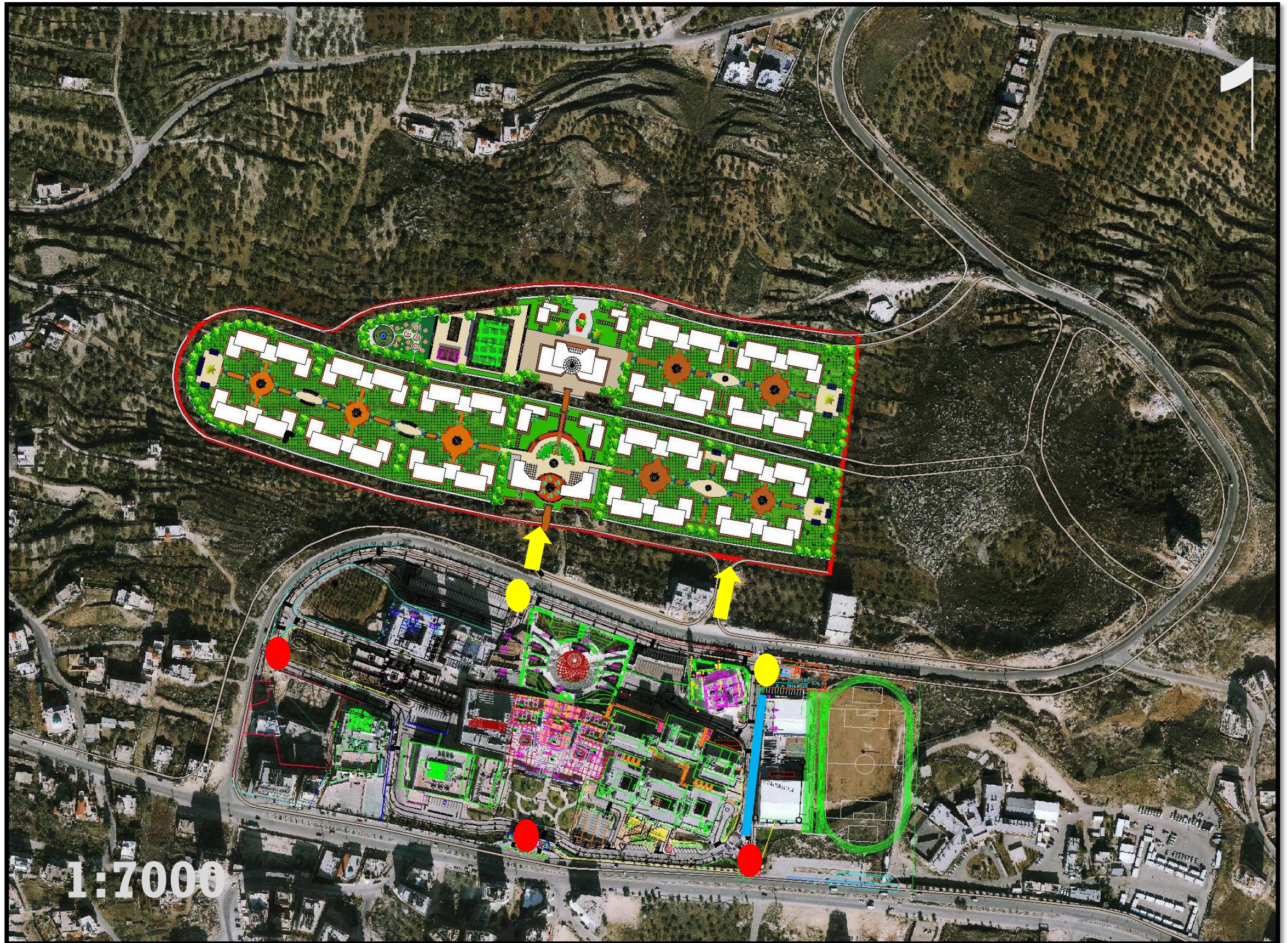
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- 1
- 2
- 3
- 4
- 5
- 6

**1:3000**

# The Masterplan map





# The Masterplan map

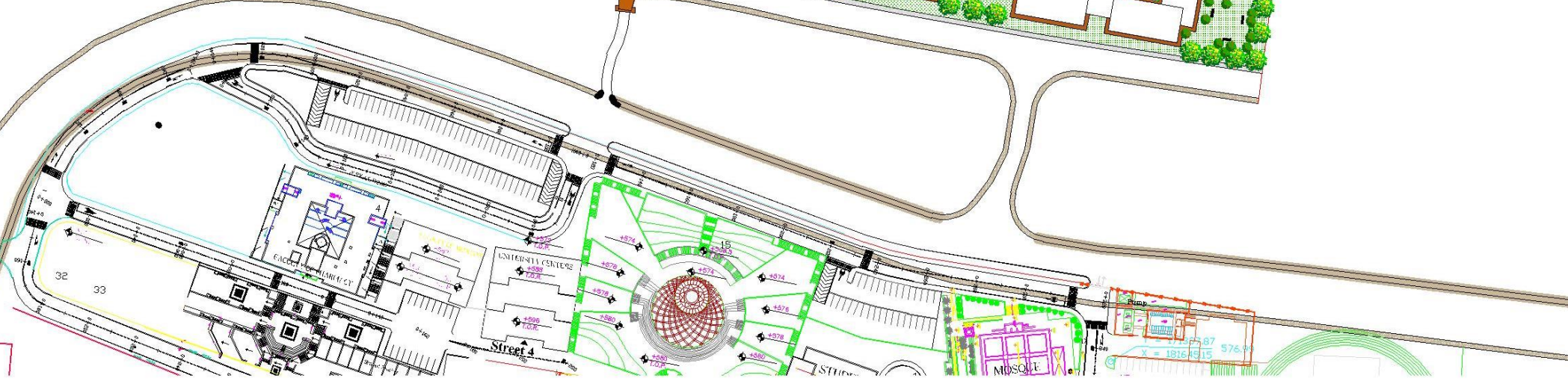


1:3000

# The Master plan map



**1:3000**



# Service Area

