

Geographic Information System

# Midterm GIS Project

## 5000 Evler Neighborhood - KARABUK

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## Introduction

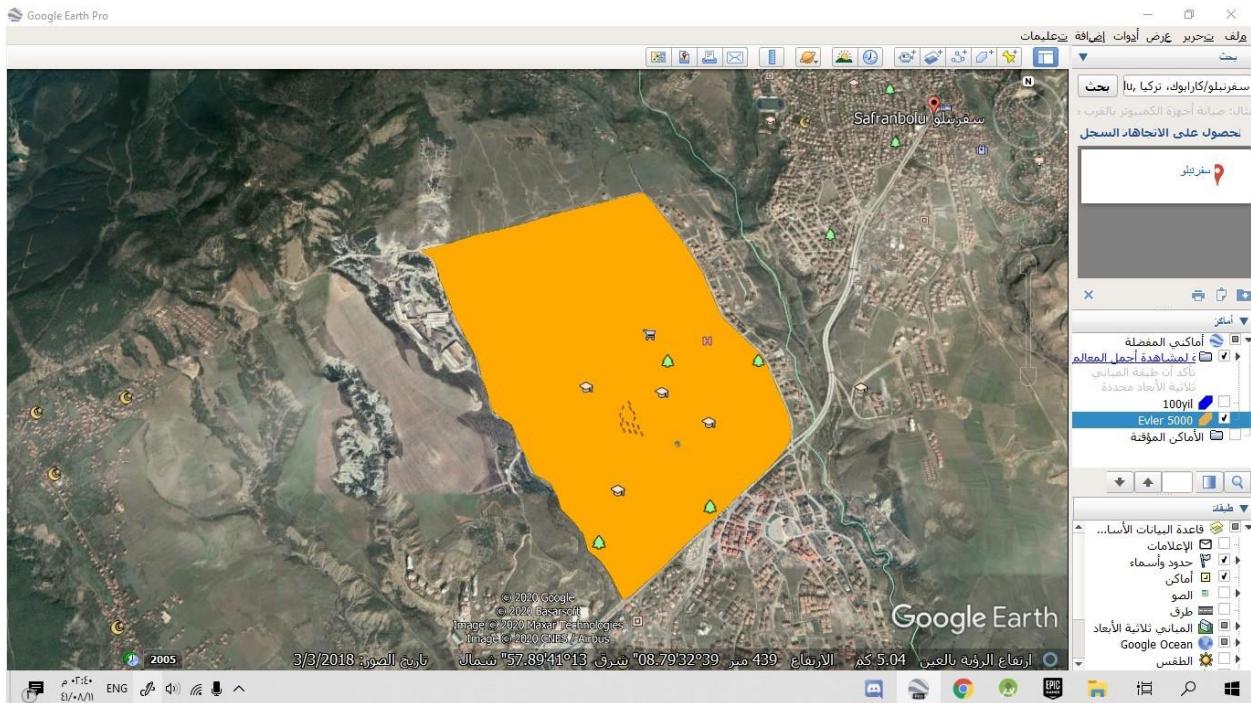
In this project we managed to follow four main steps:

1. Define the objective
  2. Data collection
  3. Data analysis
  4. Data presentation
-

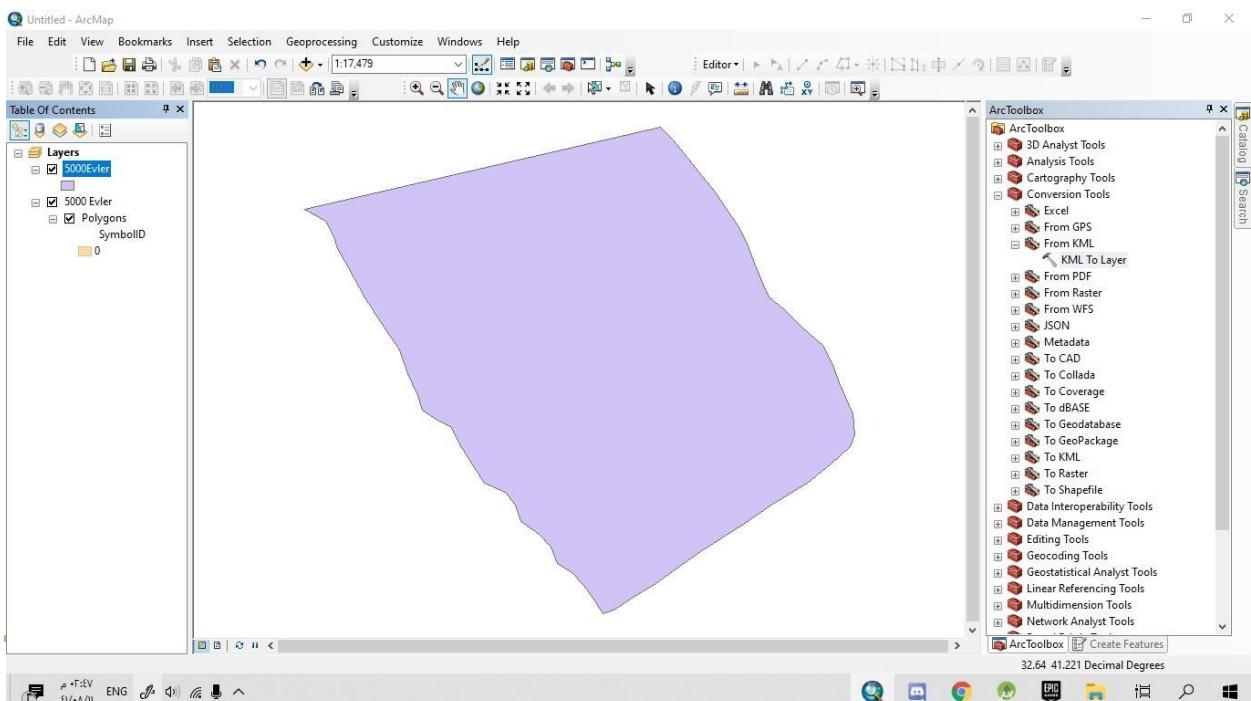
## Project report

In the first step after defining the objectives we started to collect the data as follows:

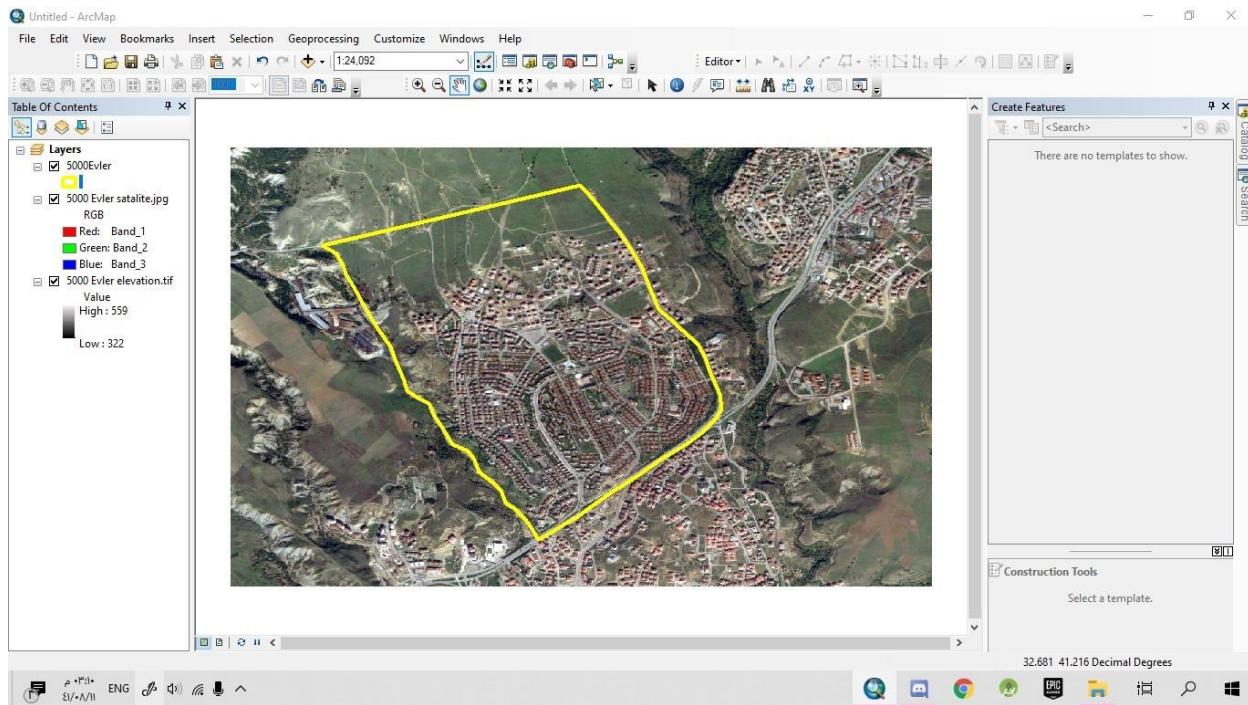
- Cutting the border for the working area that we need using **Google earth pro**



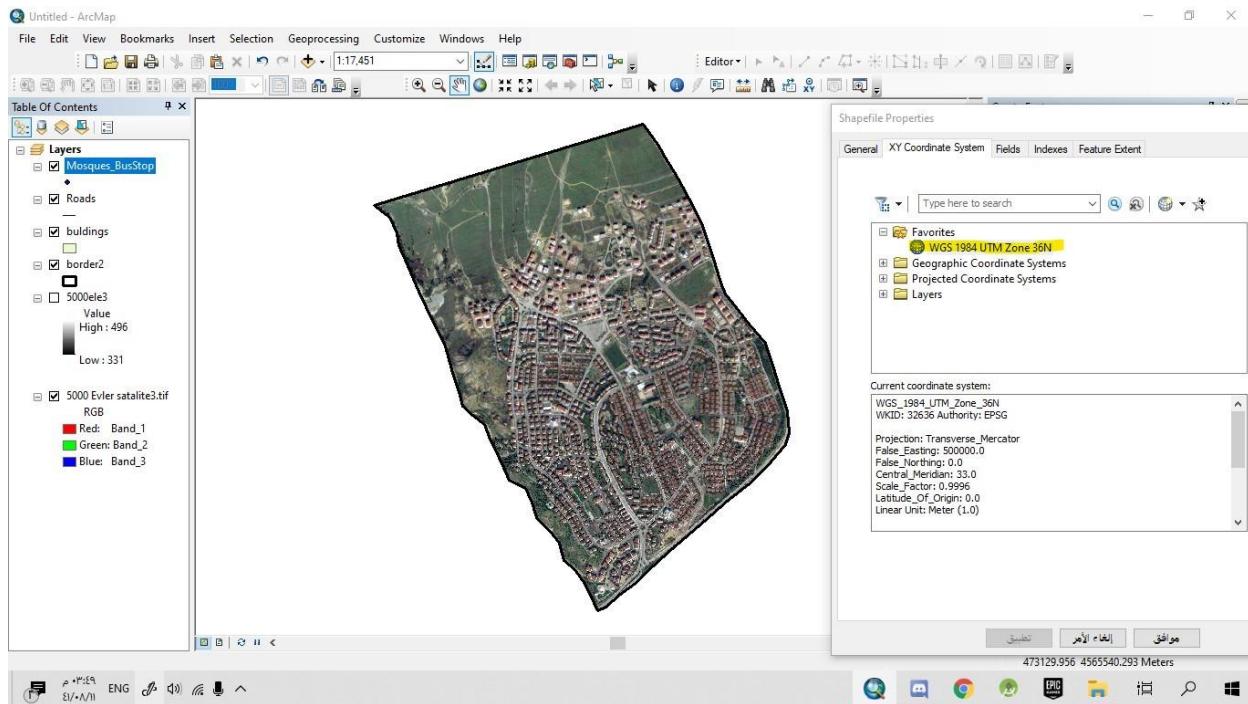
- Importing the data that we got into the **ArcMap** app



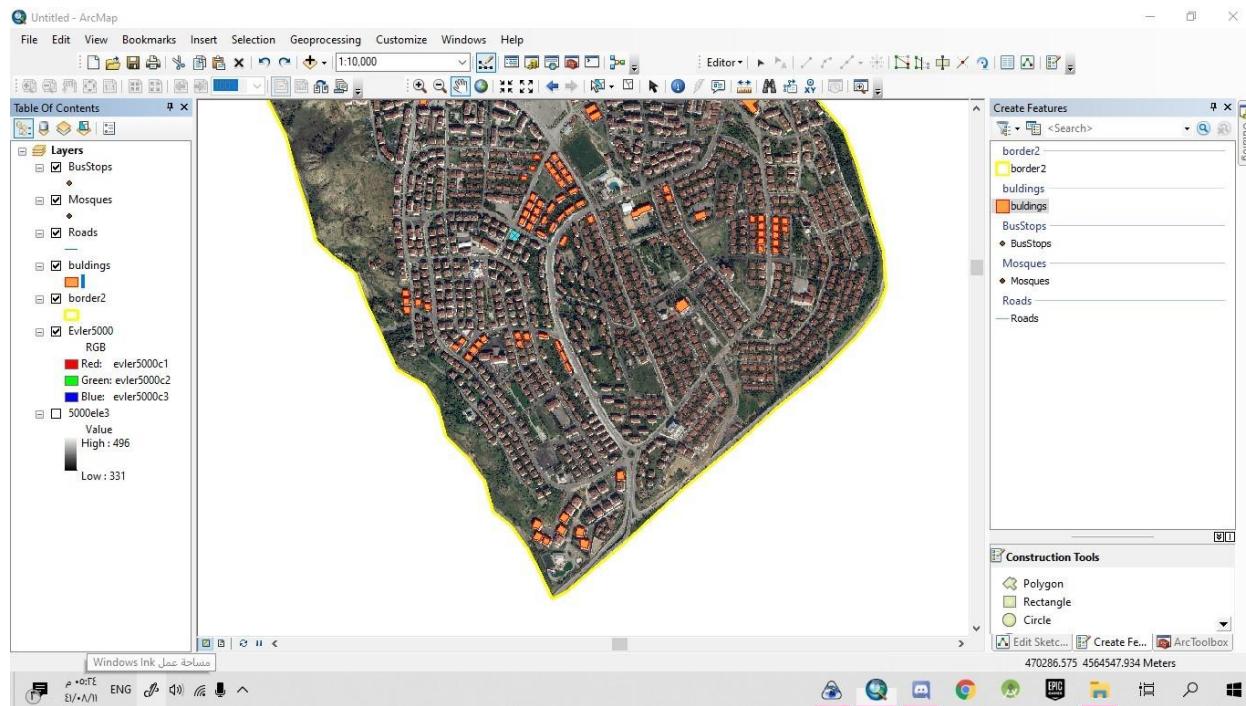
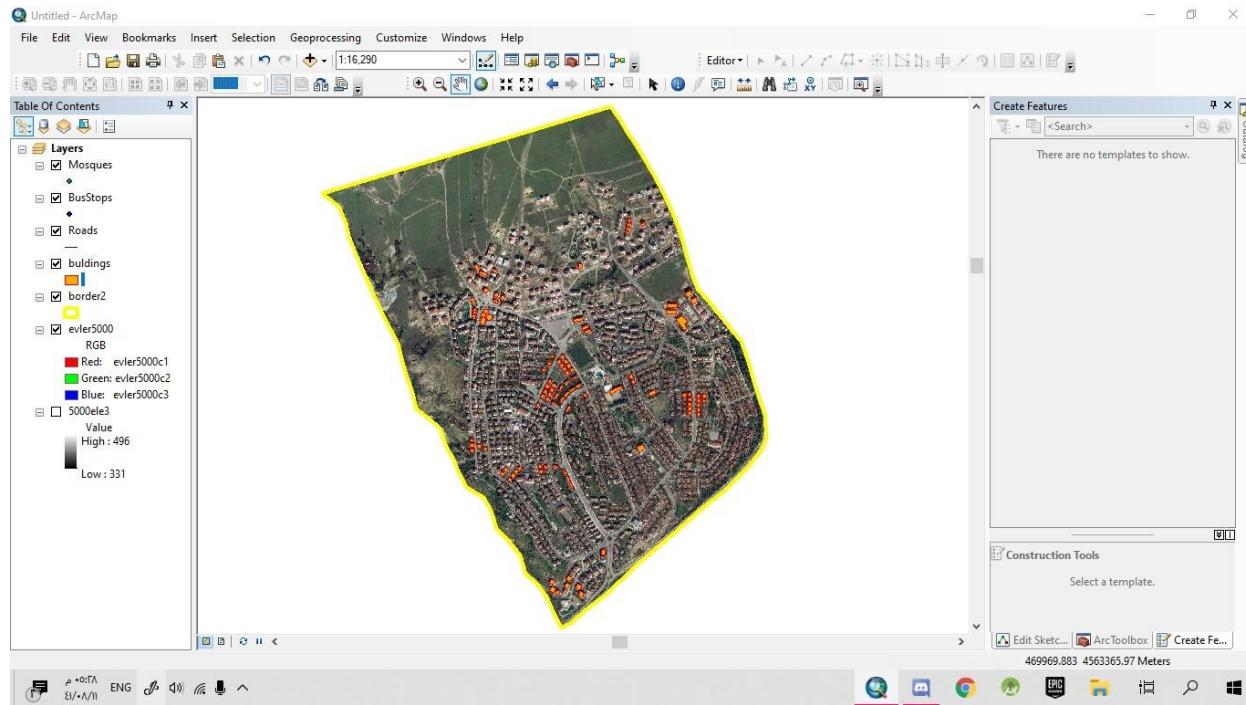
- Importing the satellite image into ArcGIS using SasPPlanet



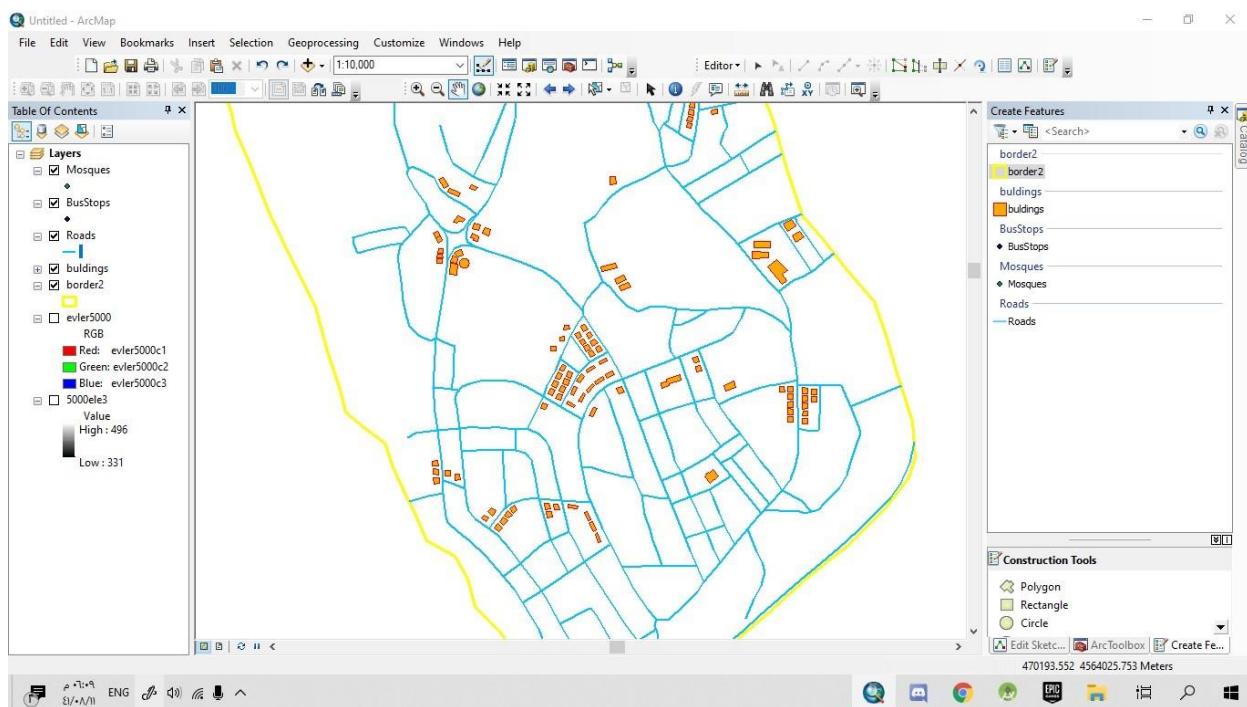
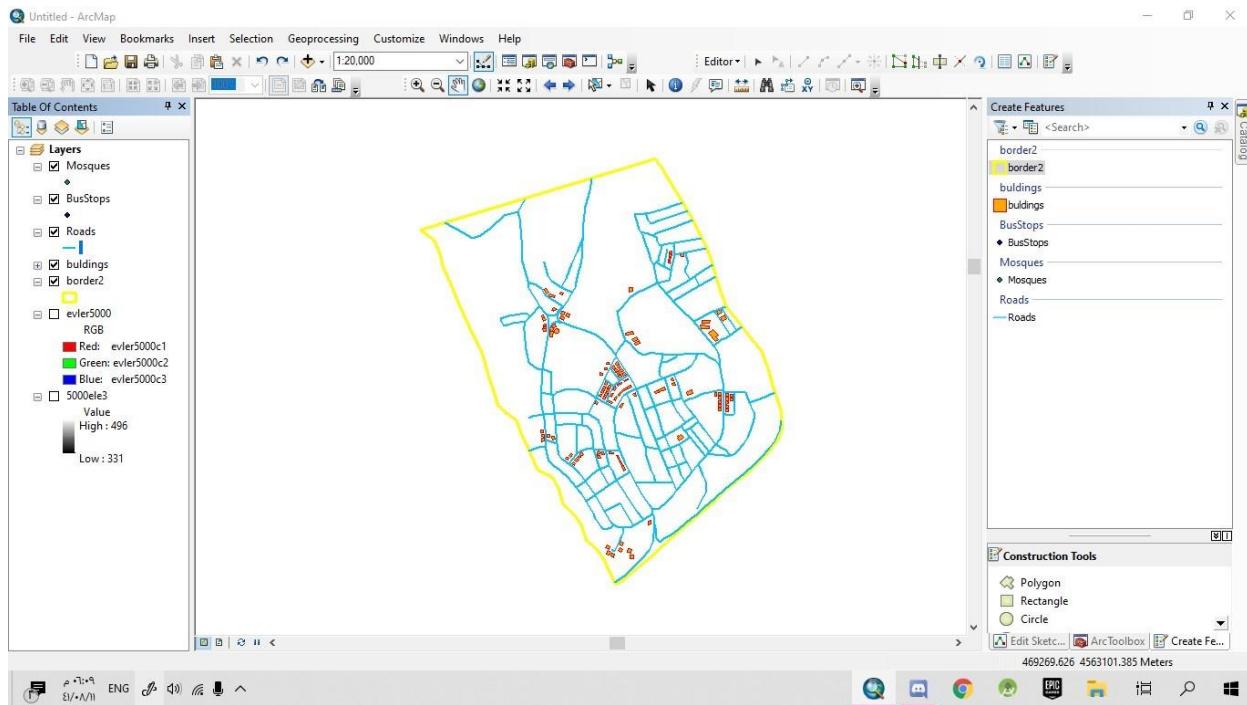
- Converting all layers to **WGS\_1984\_UTM\_Zone\_36N** coordinate system and creating the four demanded layers



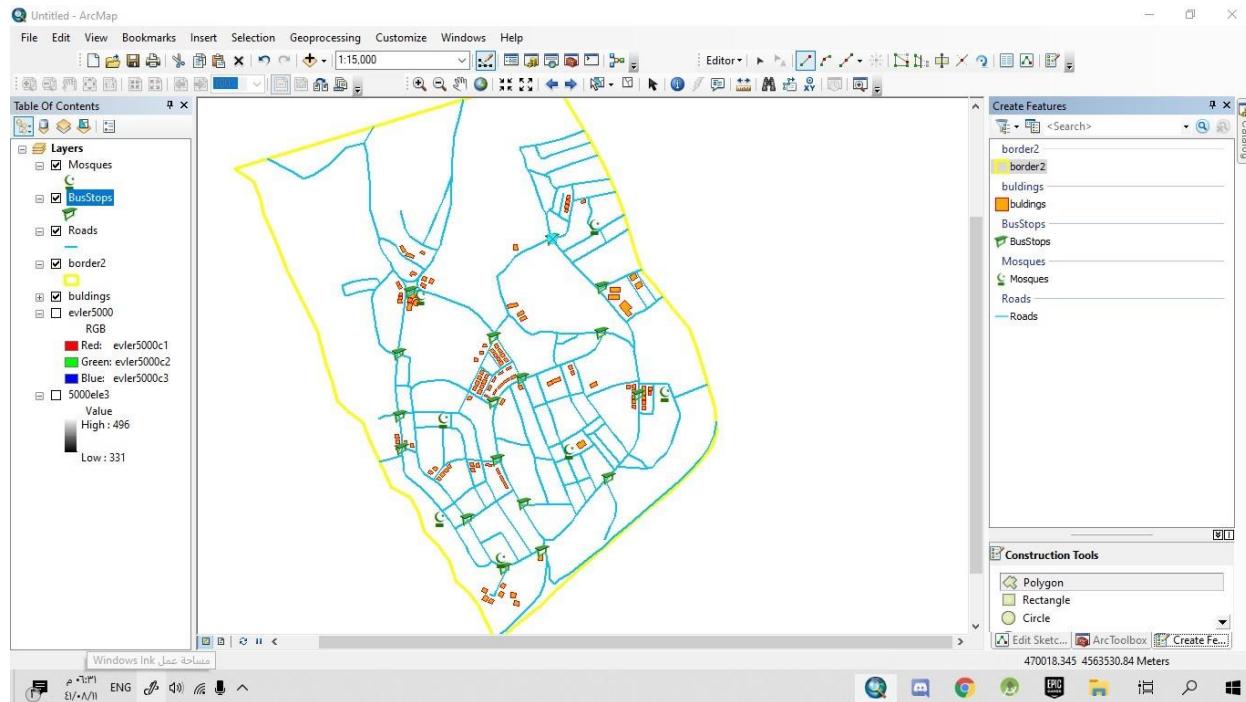
- Creating the building layer



- Creating the Roads layer

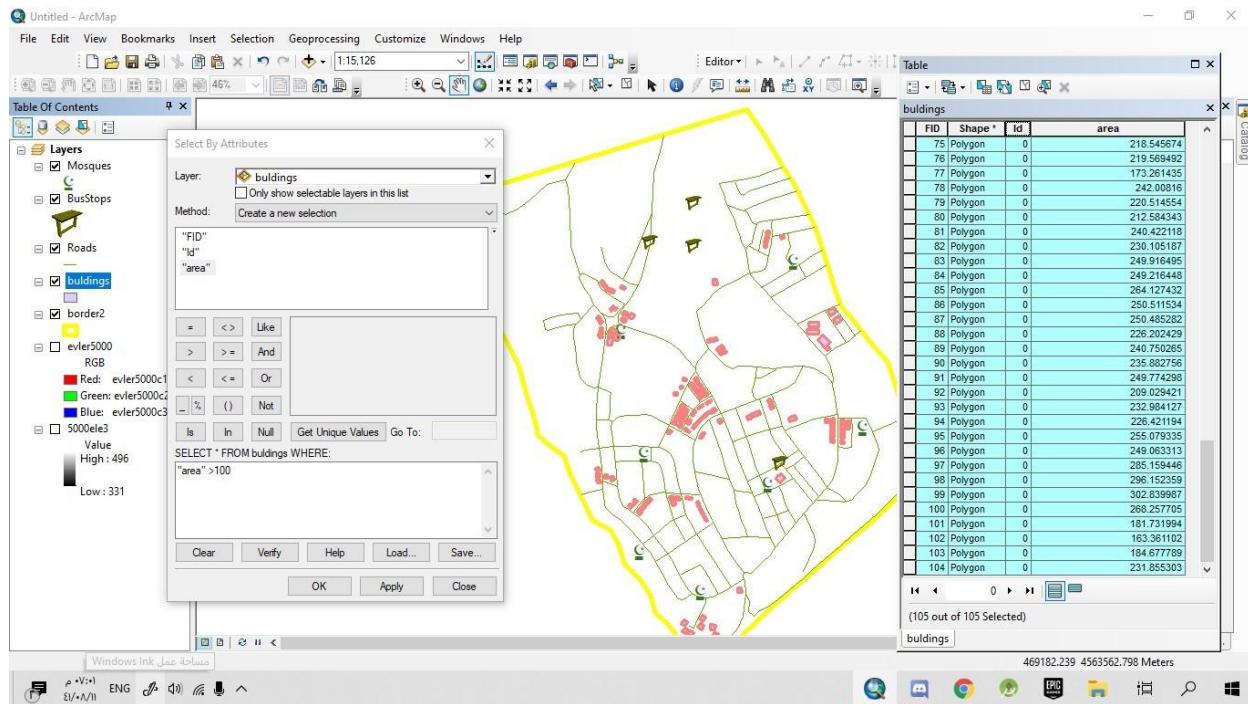


All the layers including mosques and bus stops

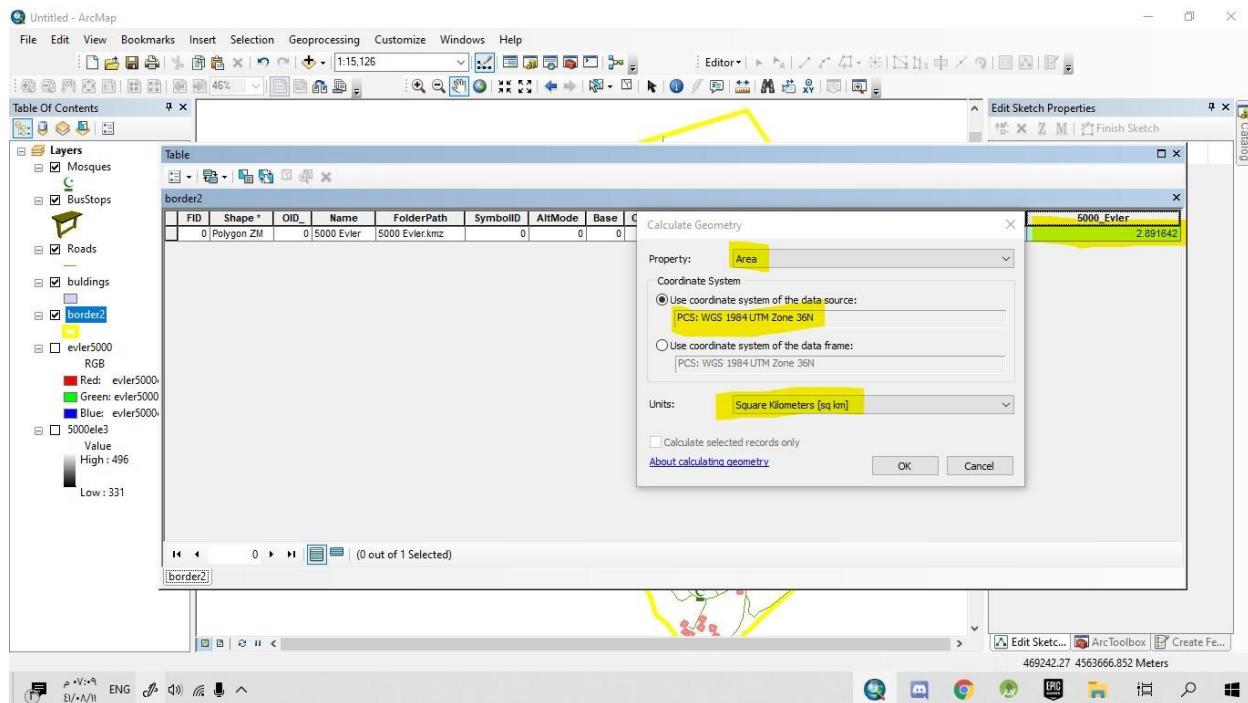


### 5.a) Number of buildings that their area is more than 100 m square

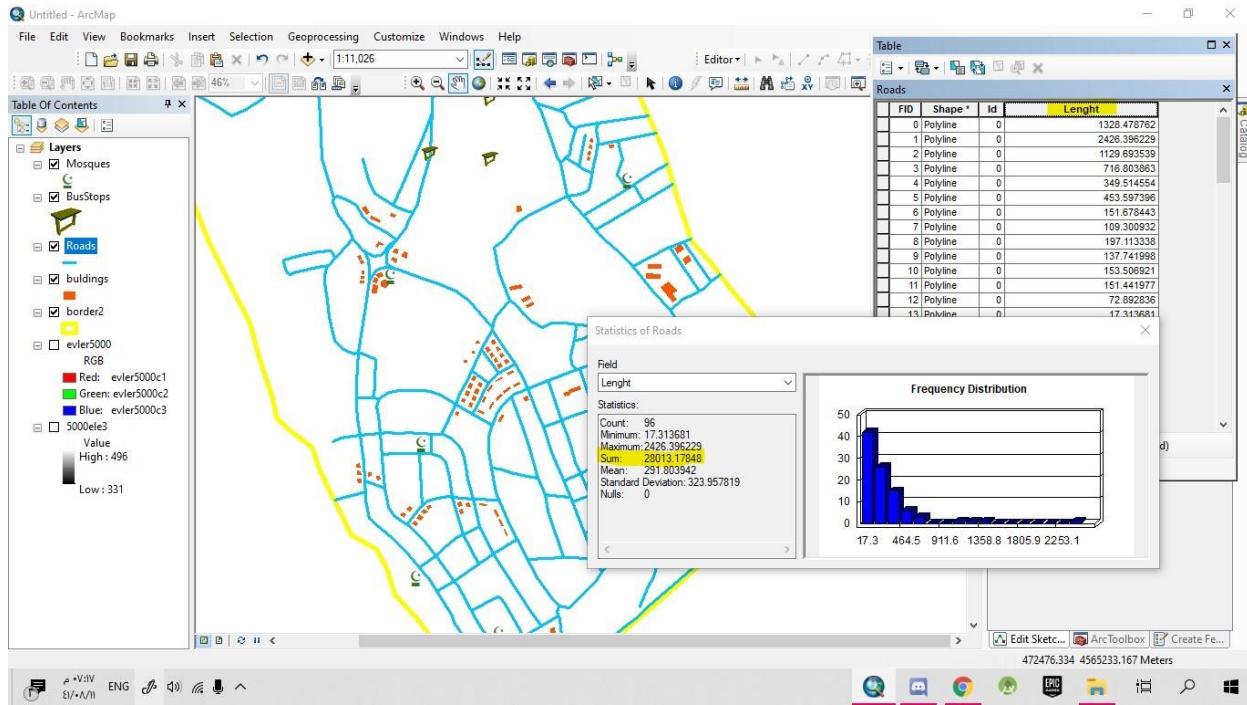
Note: all our buildings are more than 100m square as you can see



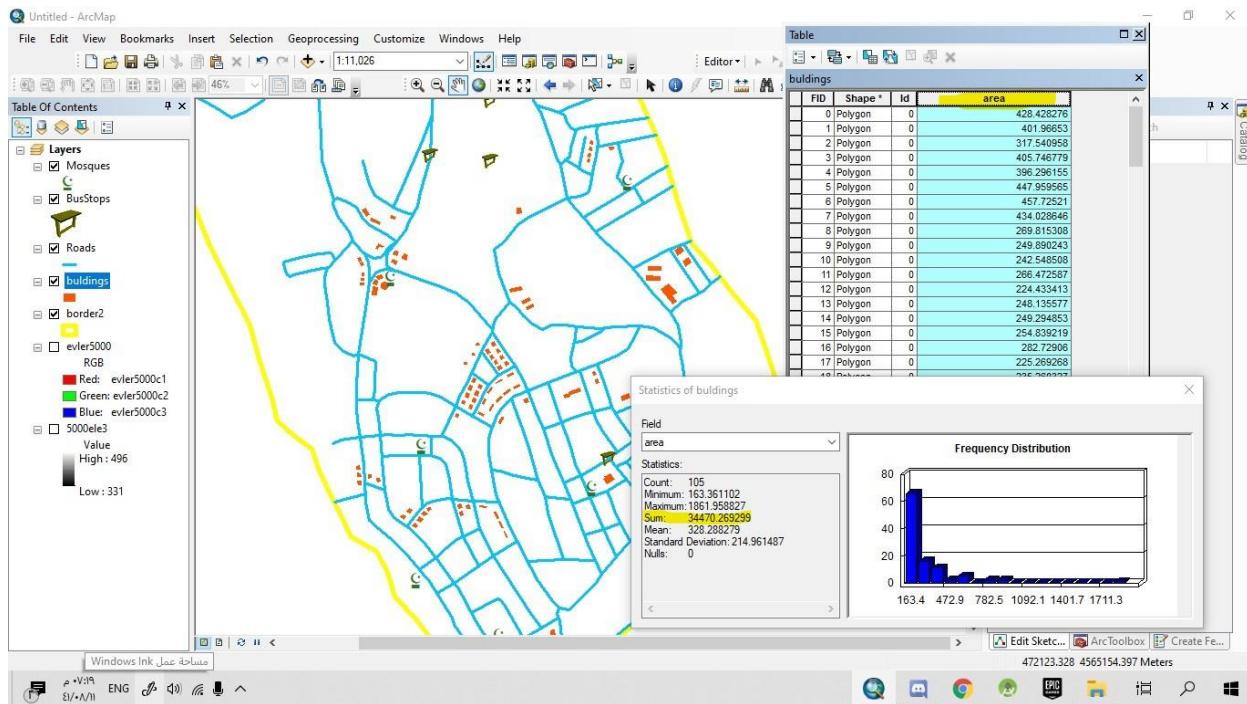
### 5.b) The area of the map project that we create



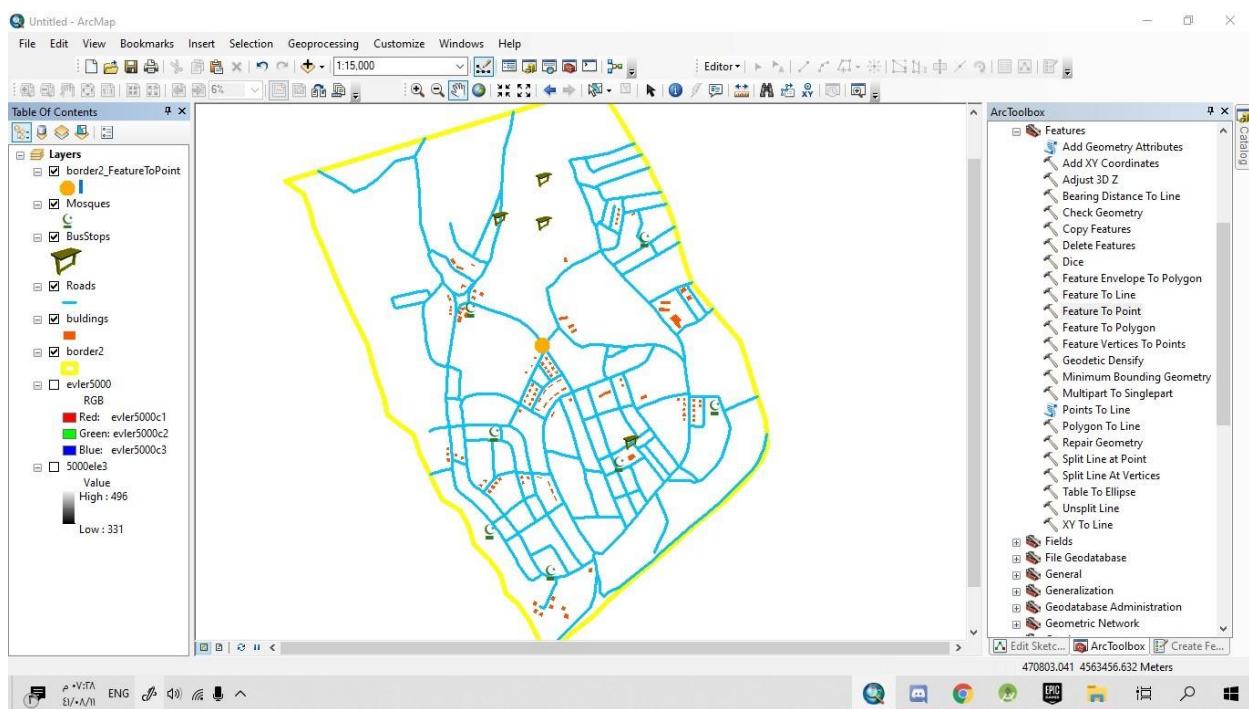
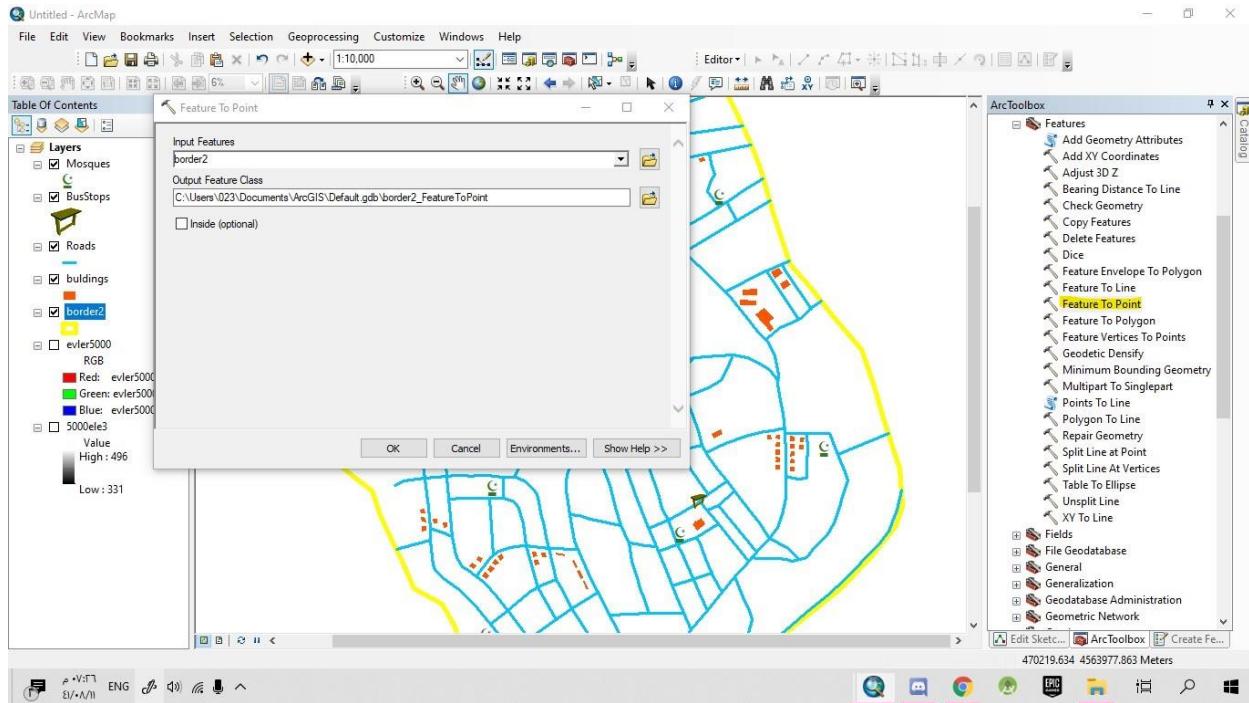
### 5.c) the total length of the roads



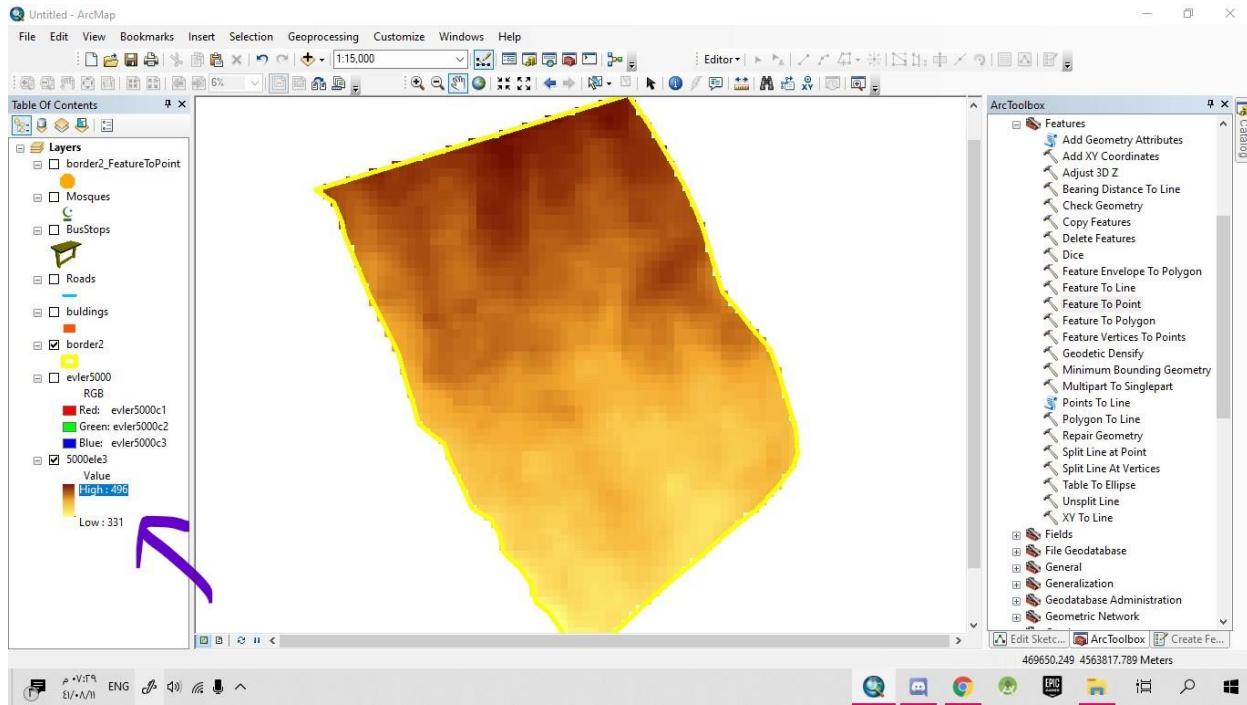
### 5.d) the total area of the buildings



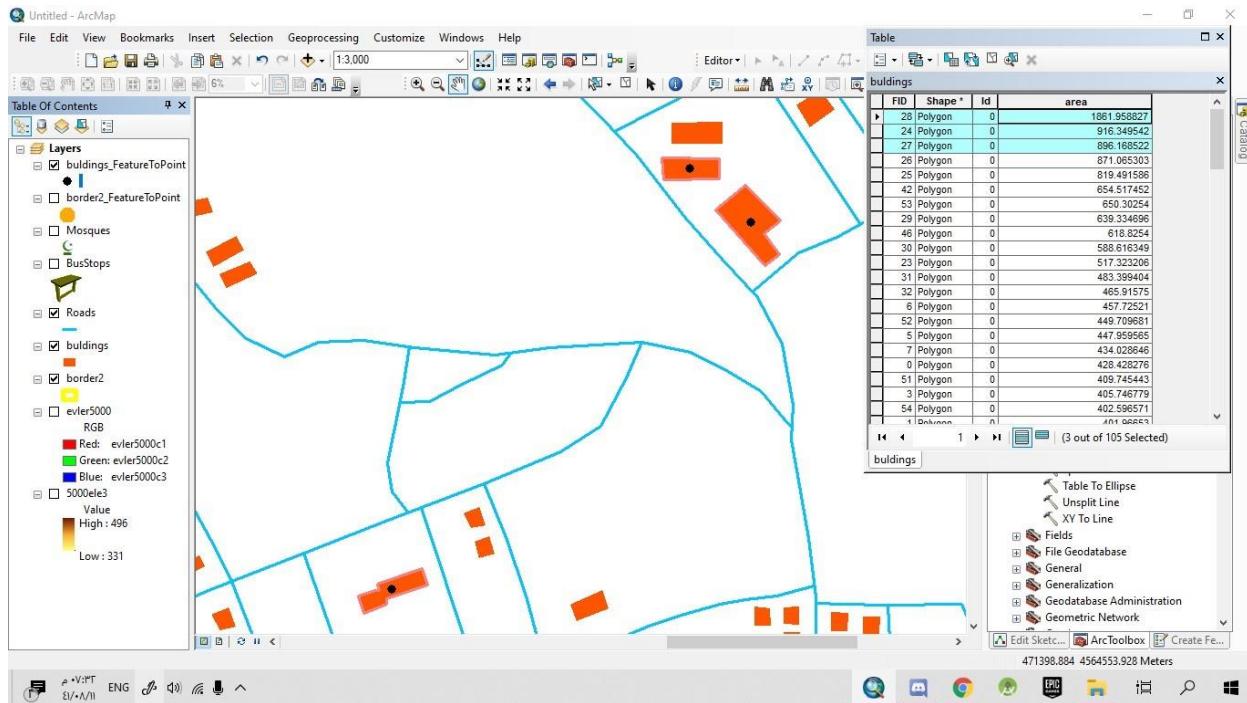
### 5.e) the centroid of the neighborhood



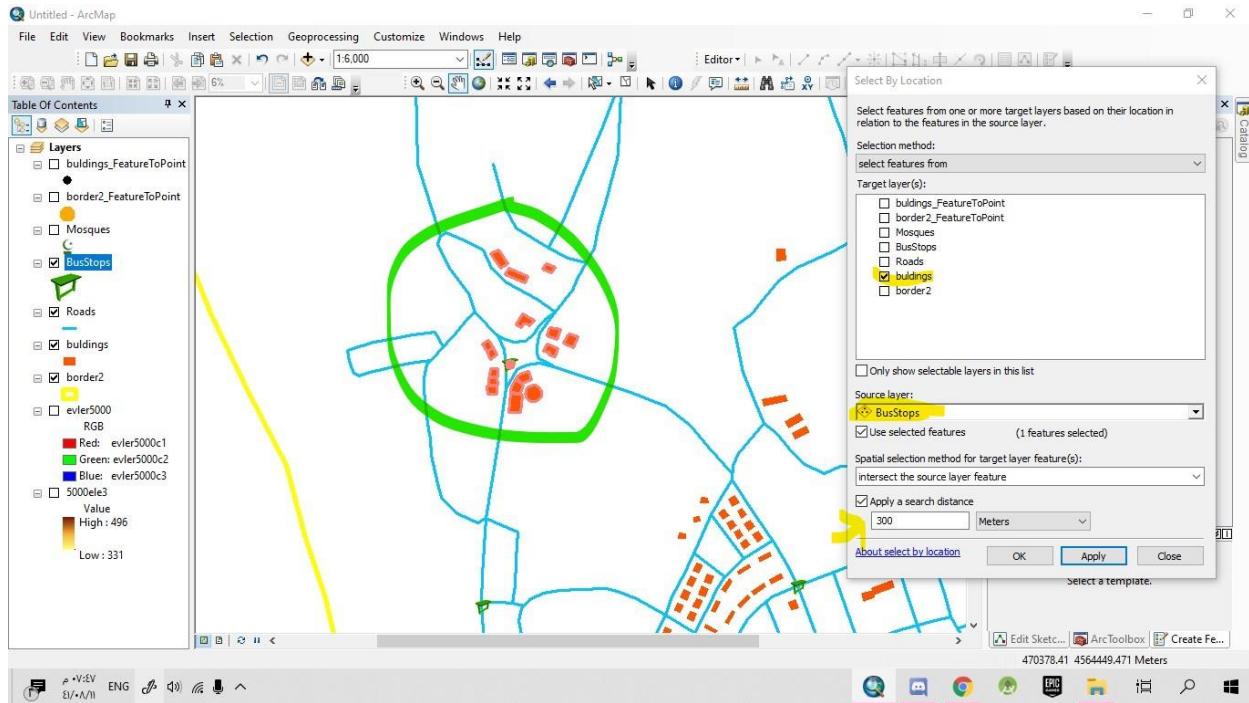
### 5.f) Highest and lowest elevation



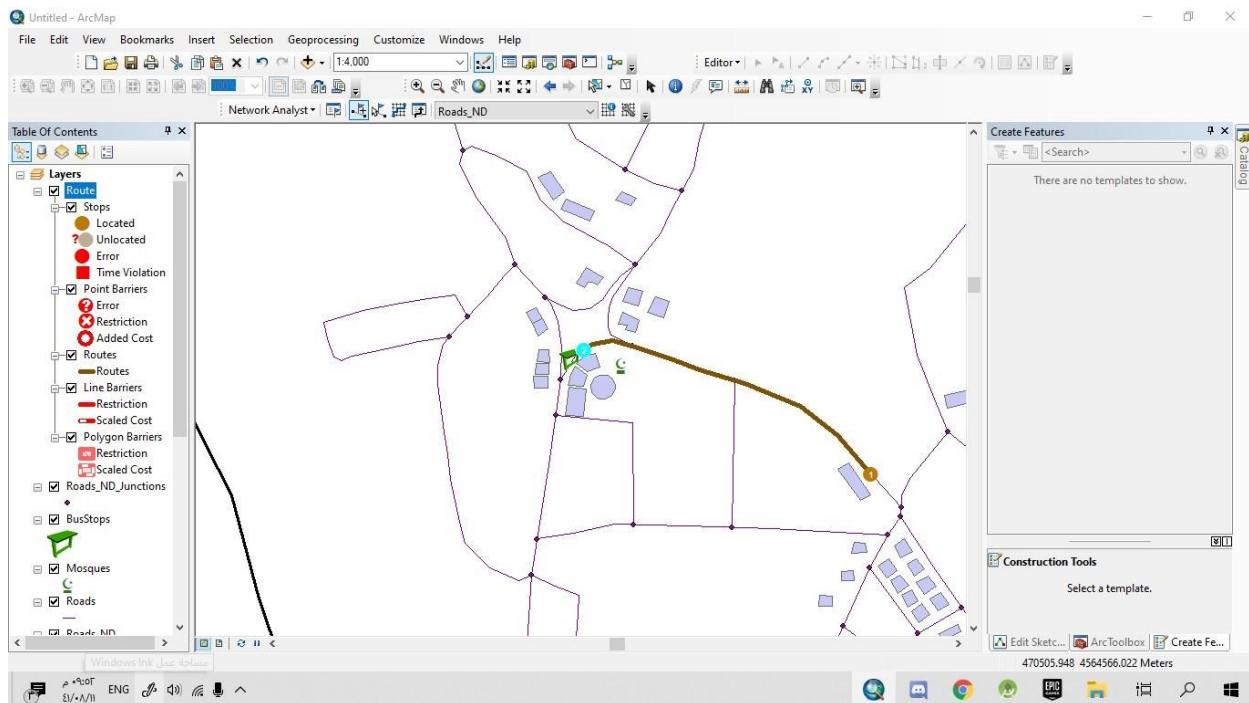
### 5.g) The centroid of the biggest three buildings



### 5.h) Building within 300 meters from the main bus stop

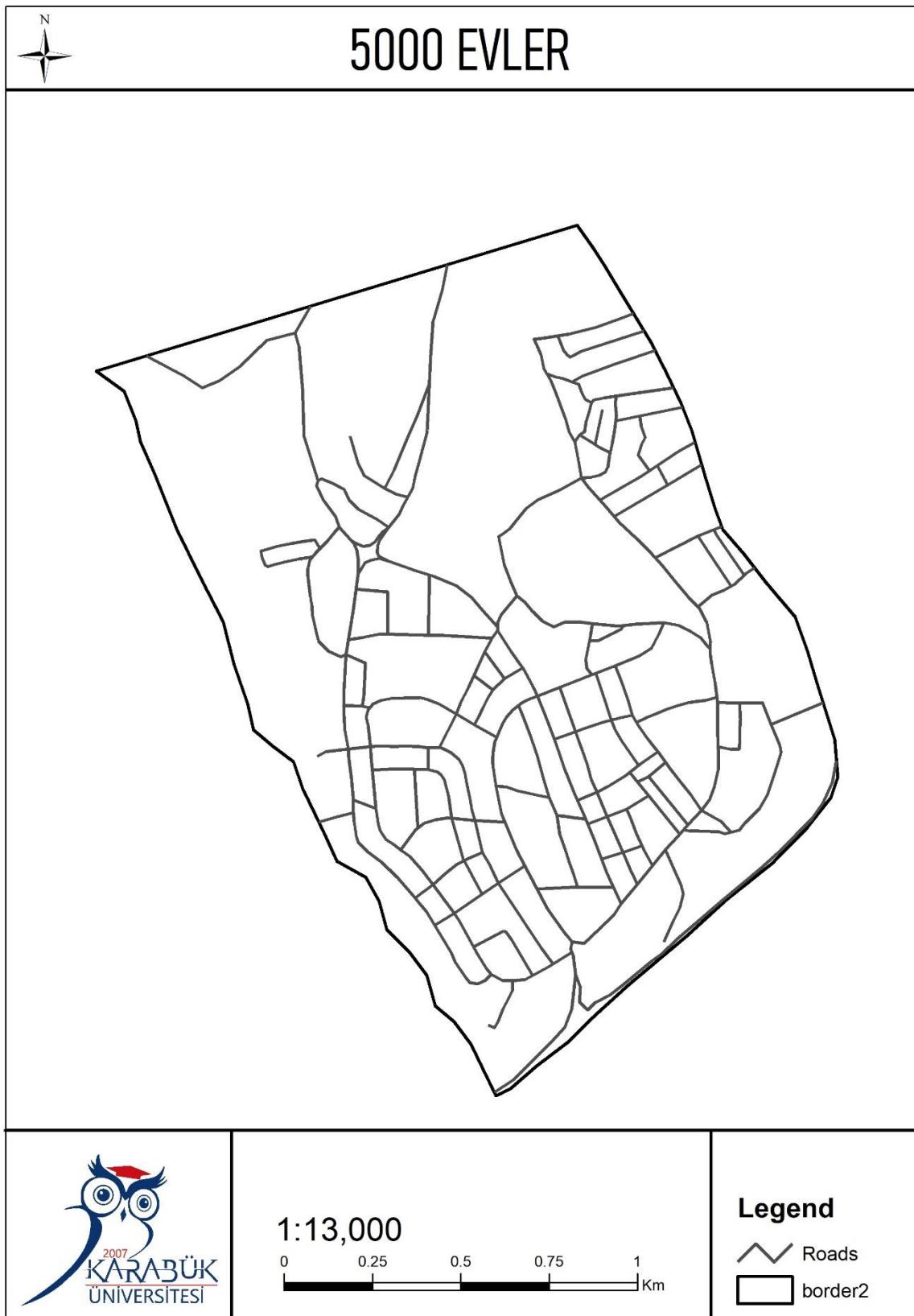


### 5.i) The shortest way between the main bus stop and any building

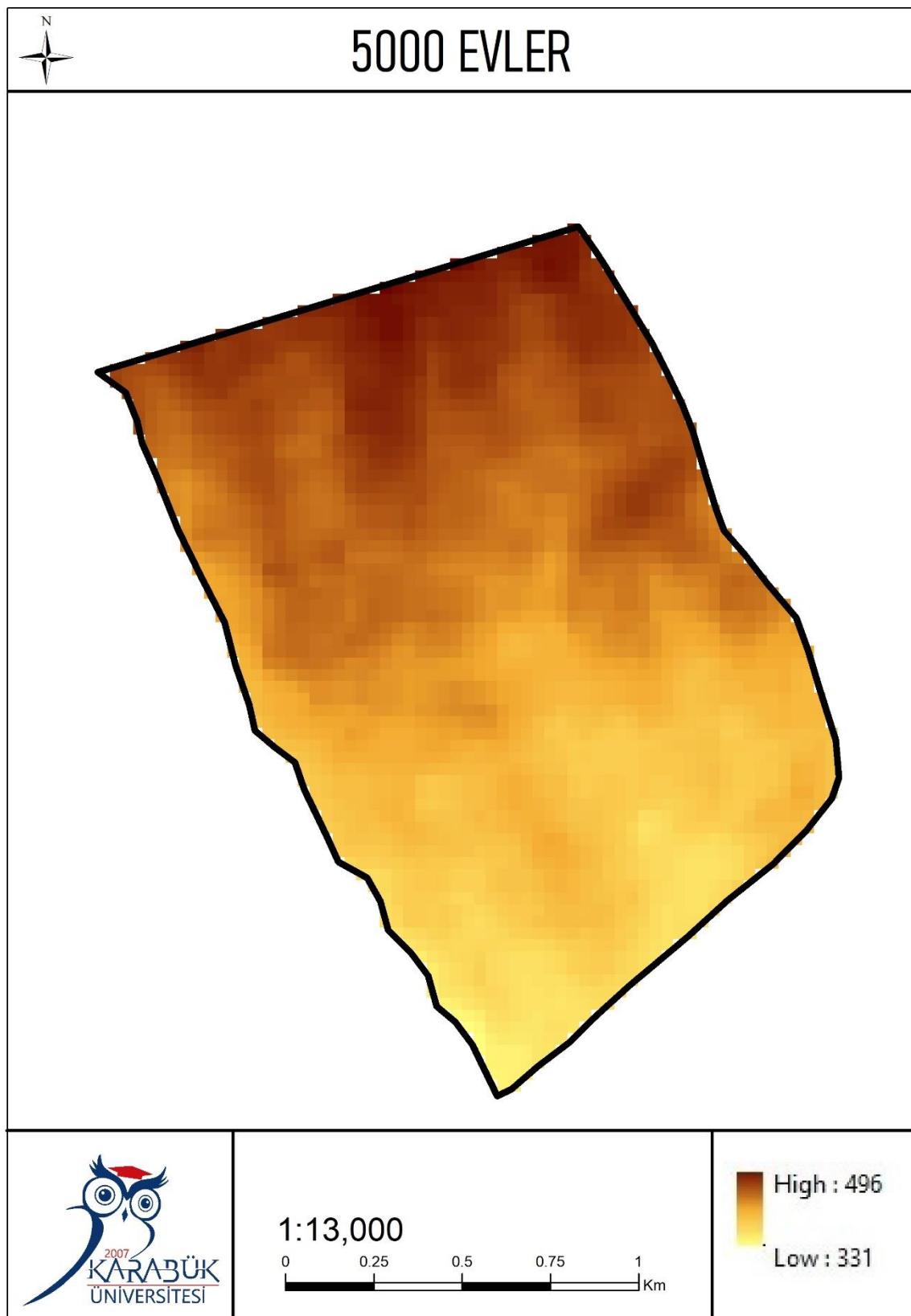


**6.a) buildings with their label (area)**

**6.b)** Coloring the buildings based on their area

**6.c) Roads layout**

**6.d) Elevation Layout**



**6.e) Bus Stops and Mosques layout**

**6.f) Satellite Image**



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