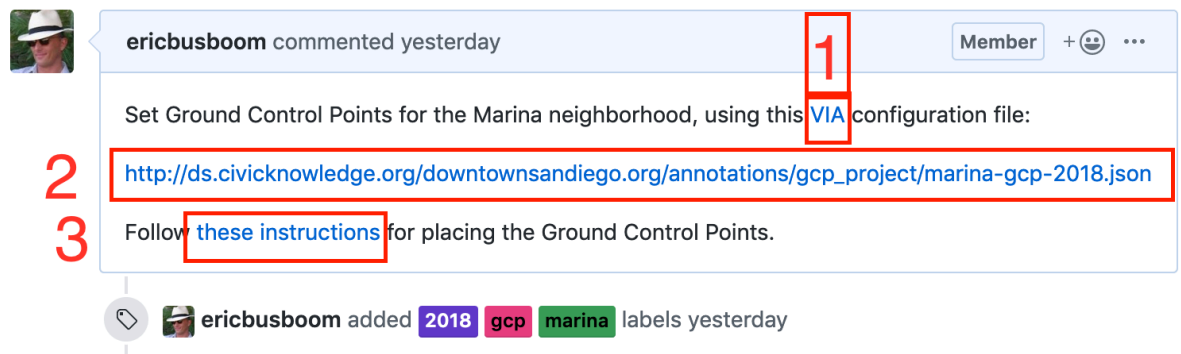


# How To Place Ground Control Points

The GCP ( 'ground control point' ) task involves placing a square that covers each of four predefined intersections on each of the map images, using a web application called VIA.

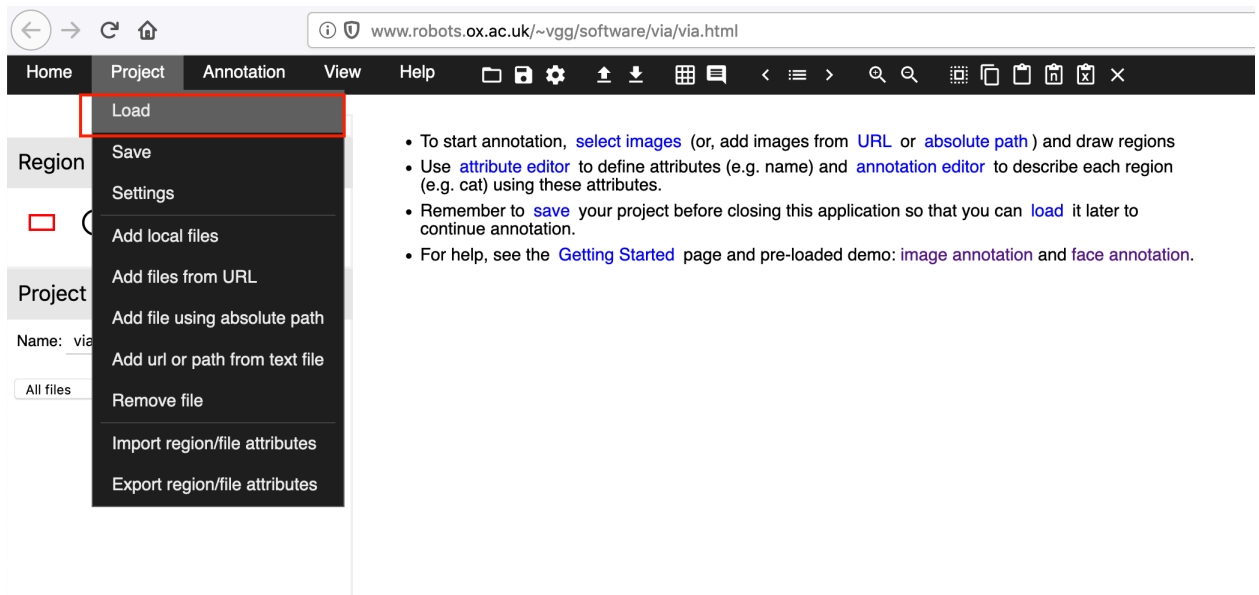
This is a critical step in digitizing the homelessness maps, creating a correspondence between the locations of markings on the map with known positions on the ground, in geographic positions. By placing these “ground control points”, which are all known street intersections, on the paper maps, we can link the x,y pixel positions on the paper map to the latitude/longitude positions in the real world.

1. To work on a GCP Task, visit GitHub to get a list of remaining GCP tasks. This [search using 'label:gcp' will show only GCP tasks.](#)
2. Click on one of the tasks. The task description will have all of the links you will need, except for the Google Drive location for submitting your data, which is later in this document. In the image a Github issue below, link (1) will open the VIA image annotation program. Link (3) is the configuration file to download and load into VIA. Link (3) is this document.



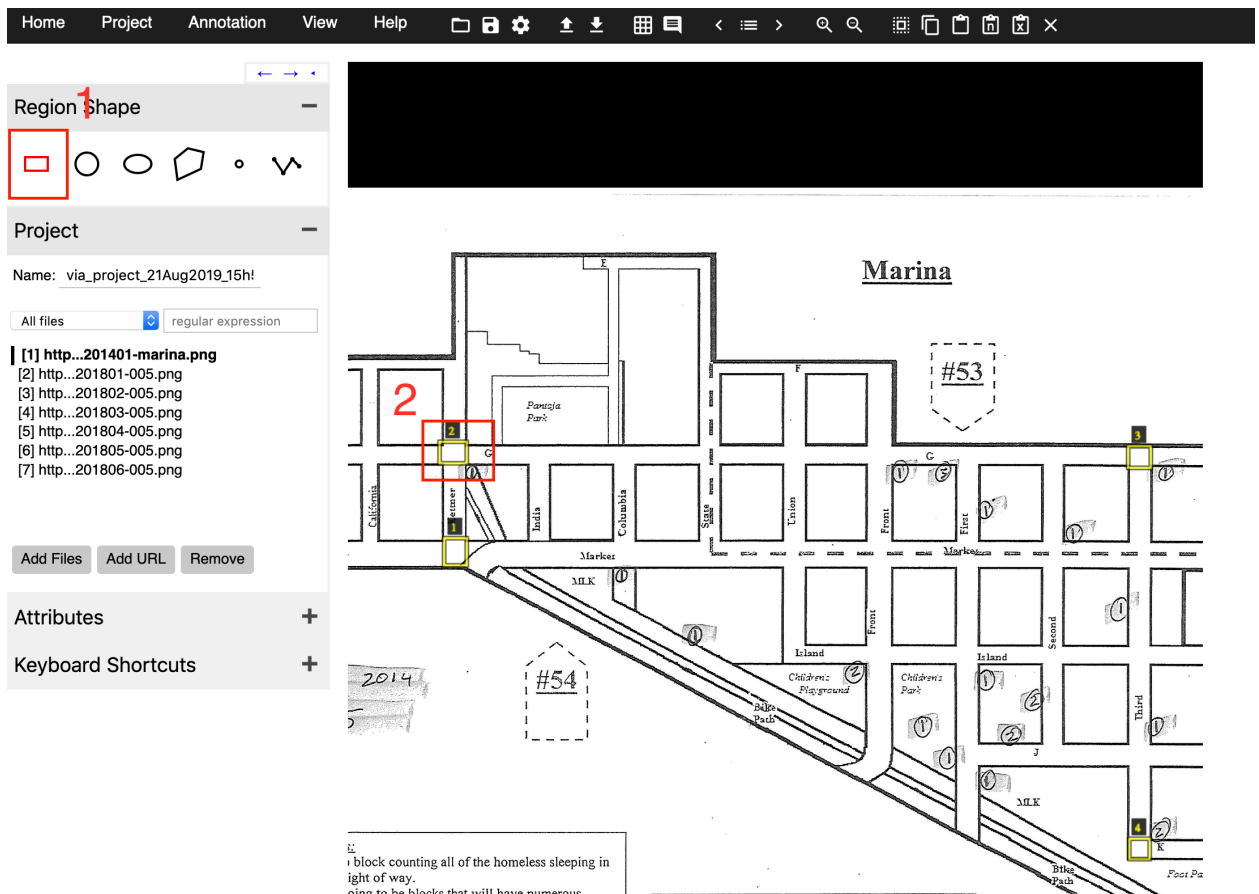
3. **Best, but Optional. It would be best if you assign the Github issue to yourself.** To do this, create a github account and email me ( [eric@sandiegodata.org](mailto:eric@sandiegodata.org) ) your Github profile name. I'll add you to the project. Click on “Assignees” to the right of the issue and enter your Github name
4. Right click on Link (1) to open VIA in another browser window.
5. Right click on Link (3) and use “Save As ...” to save the file.

6. In the VIA application, click on the `Project>Load` menu option.



Load in the file that you downloaded and saved from link (2) in Step 2





7. After the configuration file is loaded, you will see the first map in the file set for the chosen issue.



The red box (1) in the Region Shape is the kind of shape you will place on the image. If

the square is not selected ( red) select it. Area (2) shows an example of how you will place these squares into intersections, and the locations of where the squares will be placed. Hit the space bar to open the region attributed editor at the bottom of the page, which will look like the following, but with different intersection names:

[Region Annotations](#) [File Annotations](#)

	Intersection
1	<input type="text" value="Ketner_Market"/> 
2	<input type="text" value="Ketner_G"/> 
3	<input type="text" value="3rd_G"/> 
4	<input type="text" value="3rd_K"/> 

8. The list of intersections is different for each neighborhood, but will be the same for all of the maps in an issue. Your job is to place squares on the second through last map in the same places as they are in the first map, and to set the proper names in the pull-down list.
9. Click on the second URL in the “Project” section in the left side of the page. Drag a square over the entire intersection for each of the same four intersections that are annotated in the example map. Then, set the name of the intersection in the pull-down list associated with each entry.
10. After completing all four of the intersections for each of the images, click on the `Project>Save` menu item to download the same file. **Important!** This application **only** stores data in your browser page. If you reload the page, you will lose all data. The only way to save the data is by downloading the file to your location computer.
11. Open this [Google Drive Folder](#) and drag-and-drop the save file.
12. **Optional But Best.** If you assigned the Github issue to yourself, open the issue again, and click on the “Labels” heading above the colored label bars. Add a new label, “Needs Review”.