

# Chapter 1

## Tools Chapter

### 1.1 QGIS Tools

#### 1.1.1 Using COGO Tools in QGIS

Set up the Azimuth and Distance Plugin (Azd Plugin).

**Launch Azd Plugin** In the Plugins drop down(1) under the topography group select the Azd Plugin(2)(see fig.).

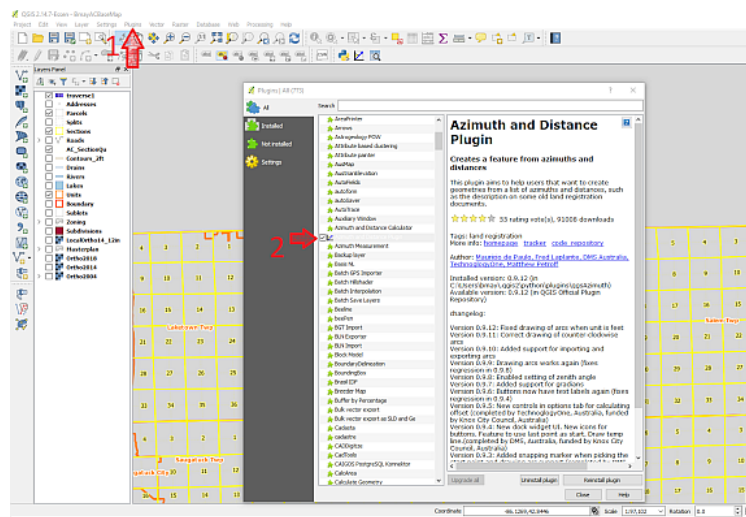


Figure 1.1: launch plugin

**Configure Active Layer** Note here which layer is active.



If necessary, left click the layer traverse 1 in Layer Panel to activate it (see fig.).

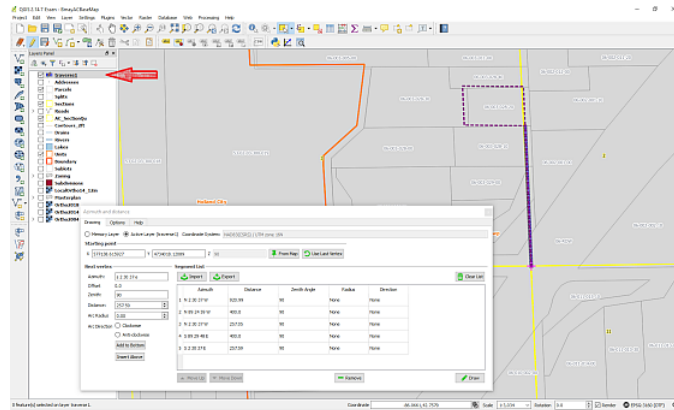


Figure 1.3: activate layer

**Configure Options** On Options Tab: Select Boundary, Bearing, Feet, and Degree radio buttons.

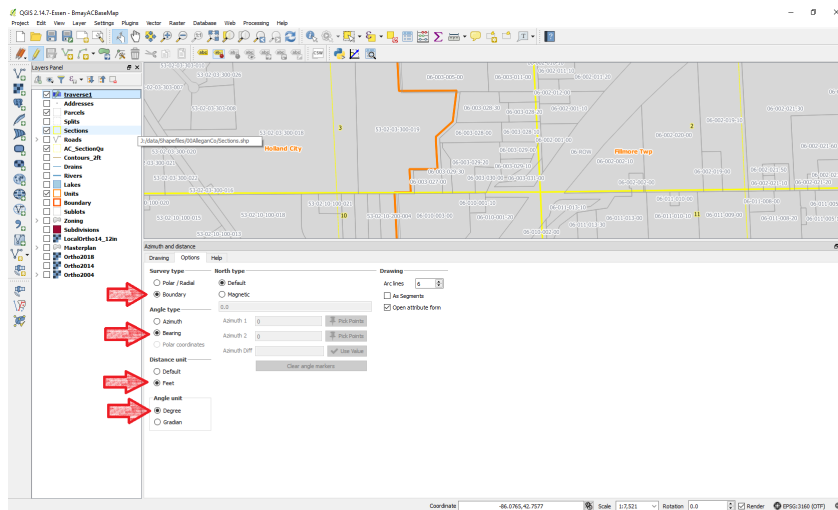


Figure 1.4: Plugin Options

Using the tool Boundary descriptions are entered into the Drawing Tab. Azimuth (bearing) and Distance are the important boxes (Set Offset = 0 and Zenith = 90 and ignore)(see below).

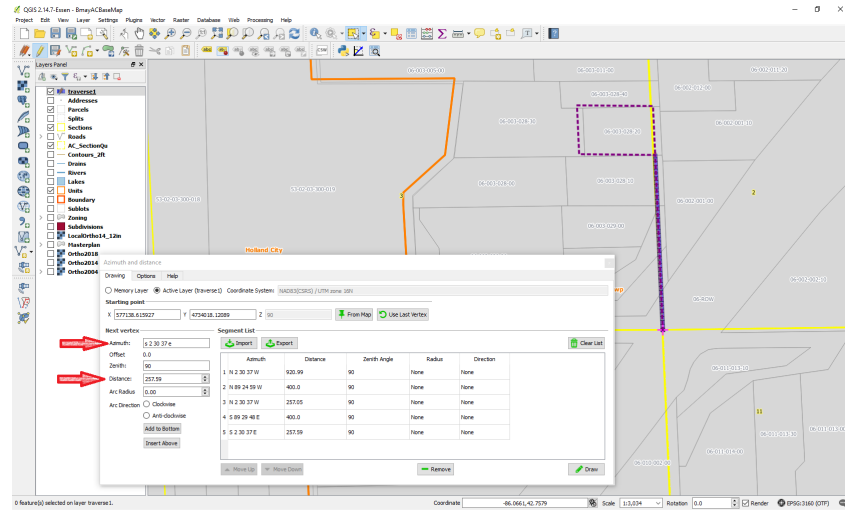


Figure 1.5: Entering Bounds

## Configure editing environment

Use Settings Dropdown and Snapping Options to enable snapping to Sections, Quarter Sections, and or Parcels if desired (see fig.).

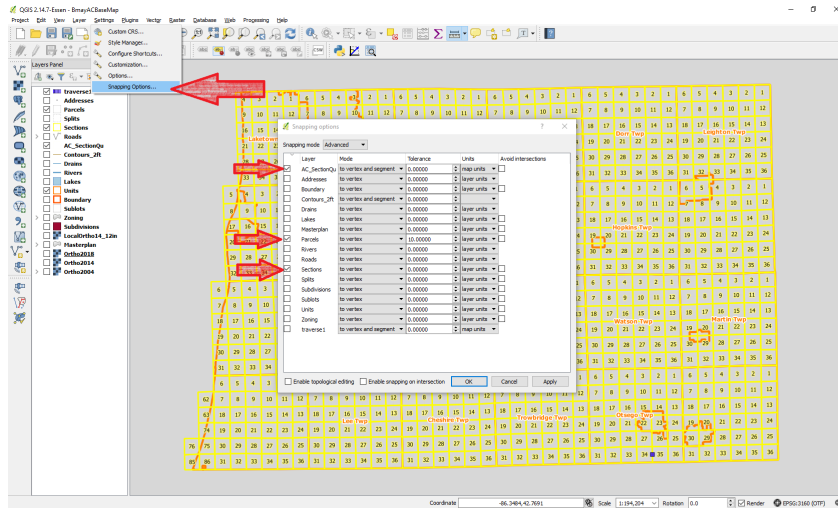


Figure 1.6: Configure editing environment

### Locate Point of Commencement

To get to the Point of Commencement,

Use **any combination** of the following methods:

- Using Reference Layer
- Using Measuring Tool
- Search by Parcel Number (Search Layers Plugin)
- Draw COGO lines (Azd Plugin)

**Using Reference Layer** Use reference layers; Units, AC\_SectionsQu, Sections, and Parcels. Toggle layers on and off in Layers Panel and zoom in and out with mouse wheel.

**Using Measuring Tool** Use the measuring tool, make sure to set units to feet. To exit current measurement right click (see fig.).