

What We Do

Allegan County GIS
www.allegancounty.org/gis

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Part I

Methods

Chapter 1

Methods Chapter

1.1 Documentation

1.1.1 How the GIS book works

Project General Notes:

- Book folder can be renamed and moved.
- This project is coded with relative paths from processing folder down.

Project file structure:

J:\LIS\GIS_Doc\mybsBook\build

pdf docs created by the underlying .tex docs and copied here manually.

J:\LIS\GIS_Doc\Book\source

images that appear in \GIS_Documentation.tex.

J:\LIS\GIS_Doc\Book\processing

the Tex workspace.

\GIS_Documentation.tex

top level of documentation of type "book" in L^AT_EX. Where book properties and book parts are managed and chapters are imported.

\archive

archive copies of entire processing folder.

\brandPart

L^AT_EX "book part" about the brand.

`\methodsPart`

L^AT_EX "book part" about the methods.

`\servicePart`

L^AT_EX "book part" about services.

`\build`

folder for temp docs when `GIS_Documentation.tex` is compiled.

*** Note: each level from here down has a build folder for temp Latex files like this.**

Service Book Part Detail

relative path:

```
\processing\servicePart
```

absolute path:

```
J:\LIS\GIS_Doc\Book\processing\servicePart
```

```
\toolsChapter.tex
```

intermediate level of "book" in \LaTeX . Where (service part, tool) chapter properties are managed and sections are imported.

toolsChapter

relative path:

```
\processing\servicePart\toolsChapter
```

absolute path:

```
J:\LIS\GIS_Doc\Book\processing\servicePart\toolsChapter
```

\LaTeX file \QGISSection.tex

intermed level of "book" in \LaTeX . Where book section properties are managed and subsections are imported.

Part II

Service

Chapter 2

Tools Chapter

2.1 QGIS Tools

2.1.1 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.).

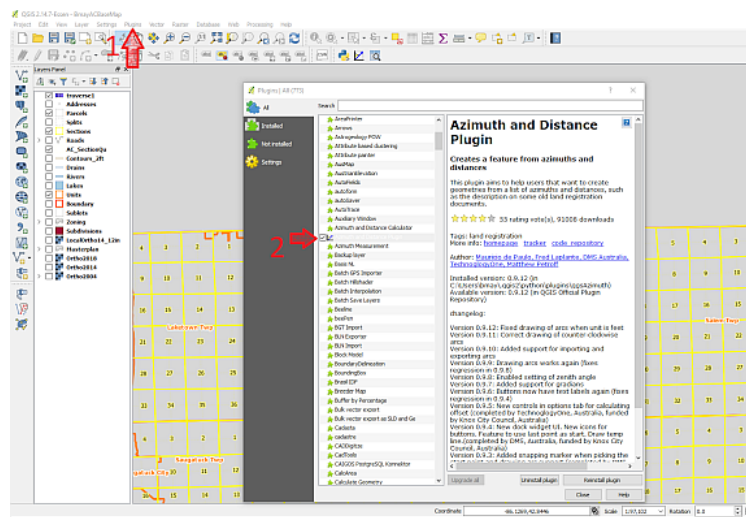


Figure 2.1: launch plugin

Configure Active Layer Note here which layer is active.

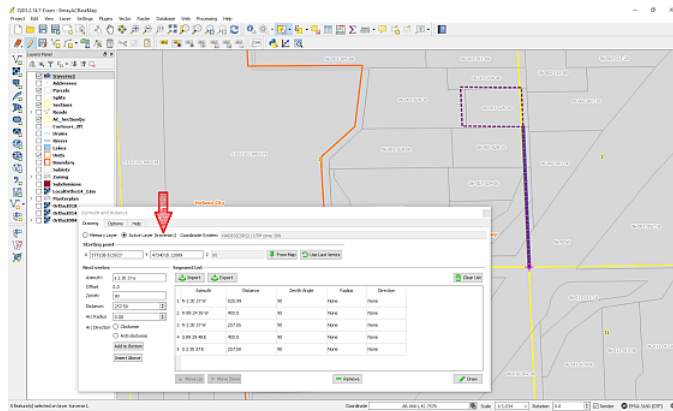


Figure 2.2: check active layer

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

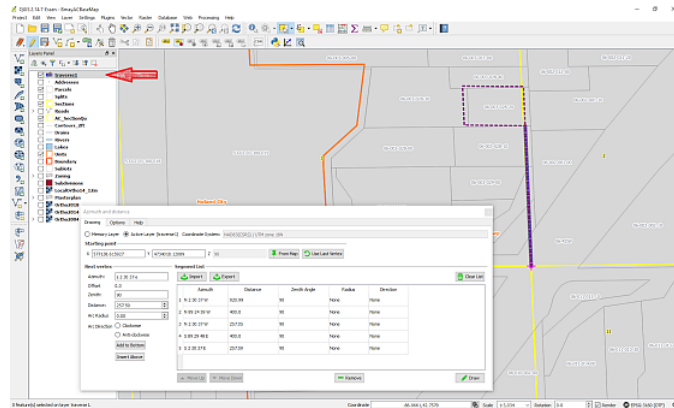


Figure 2.3: activate layer

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

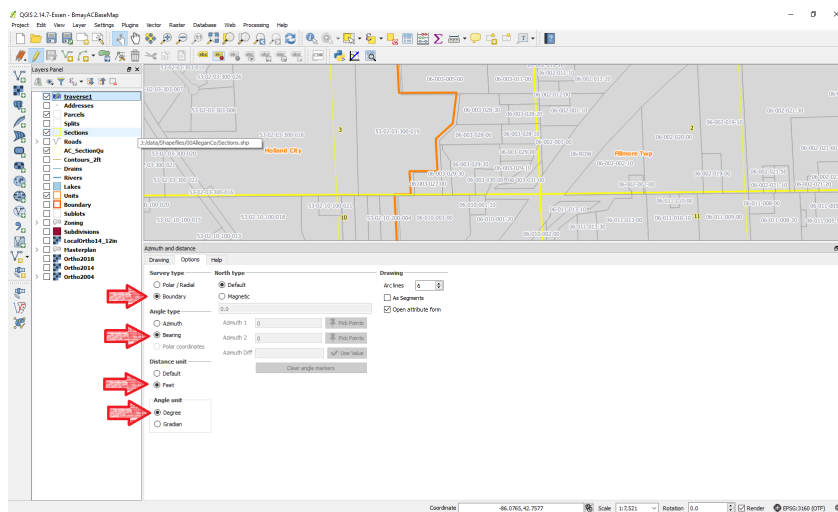


Figure 2.4: Plugin Options

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).

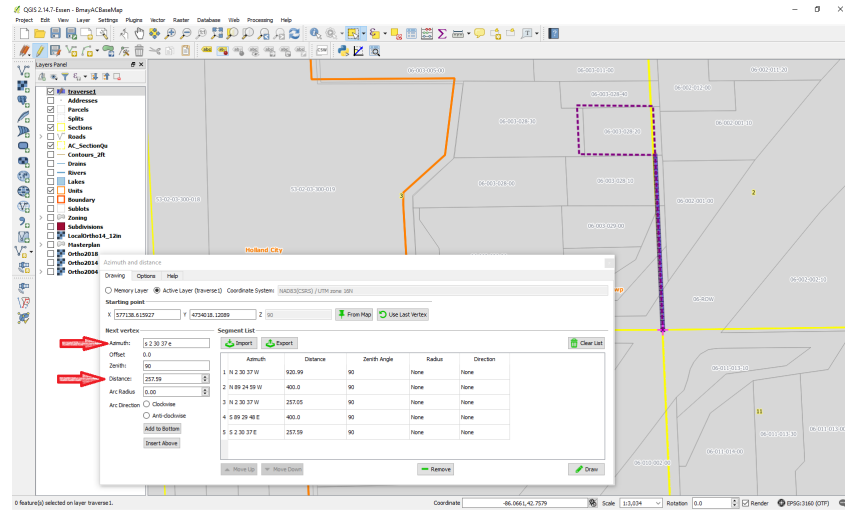


Figure 2.5: Entering Bounds

Configure editing environment

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

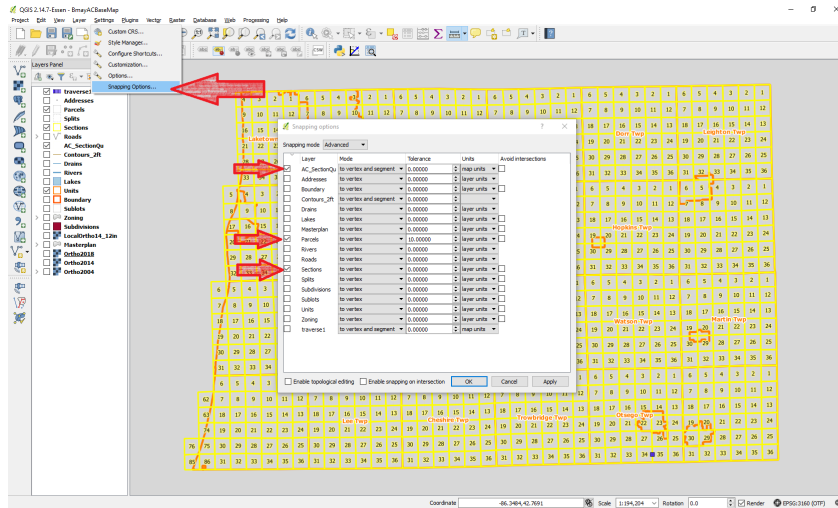


Figure 2.6: Configure editing environment

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.).