

# Practice Exercise 1

## Design Modeling in Revit



Objective Domains that are covered within this practice exercise are:

- 1.1g Use massing elements
- 1.1h Work with site and topography tools
- 5.1a Understand the difference between imported and linked files

Video resources that may help with this challenge exercise are:

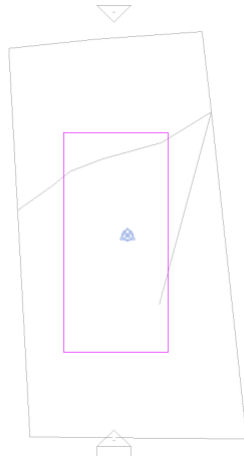
- Create topography from an imported CAD file
- Create a building using massing tools – Parts 1 and 2

The purpose of this exercise is to explore the conceptual modeling options available in Revit. The intent is to have the framework of a model that could potentially be used for schematic design, design development, and eventually construction documents. The techniques shown in this video series are not intended to be used for precise modeling, but instead are gathered to create a toolset for designers and architects to use when creating conceptual designs.

**The following steps need to be completed:**

1. Start a project based on the default architectural template.
2. Create Property Lines based upon the included CAD file (**Parcel Map.dwg**)
3. Create a topo surface using the point method that has a minimum of 5' of change in elevation.
4. Create a building pad that allows for a 25' front setback (north), 25' Rear setback, and 10' side setbacks.

Note: You may need to change the Import units. Be sure the site comes in at real-world scale.



5. Use the massing tools to create a conceptual design of a house.