

Phased Earthwork

Use this process to create a phased earthwork report.

Plan View Preparation

Levels

We have 2 levels set up:

XS_M_EXCAVATION_LIMITS

XS_M_EXCAVATION_LIMITS_1

This is to allow you to run 2 different phases on the same cross section if need be.

Plotting on the Plan View

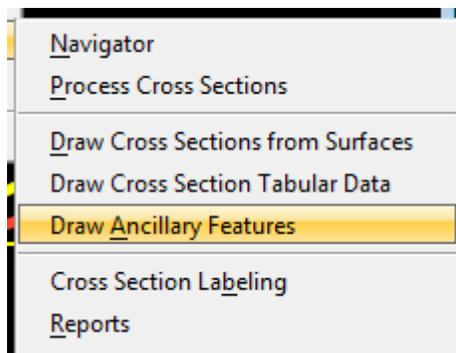
You will want to draw lines parallel to your limits of construction lines for the area you want to compute:



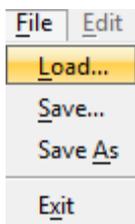
Draw Ancillary Settings

Importing Saved Settings

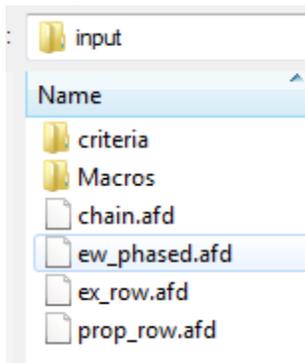
To launch Draw Ancillary, choose it from Applications -> Geopak -> Road -> Cross Sections -> Draw Ancillary Features



1. Choose File -> Load from the Draw Ancillary window:

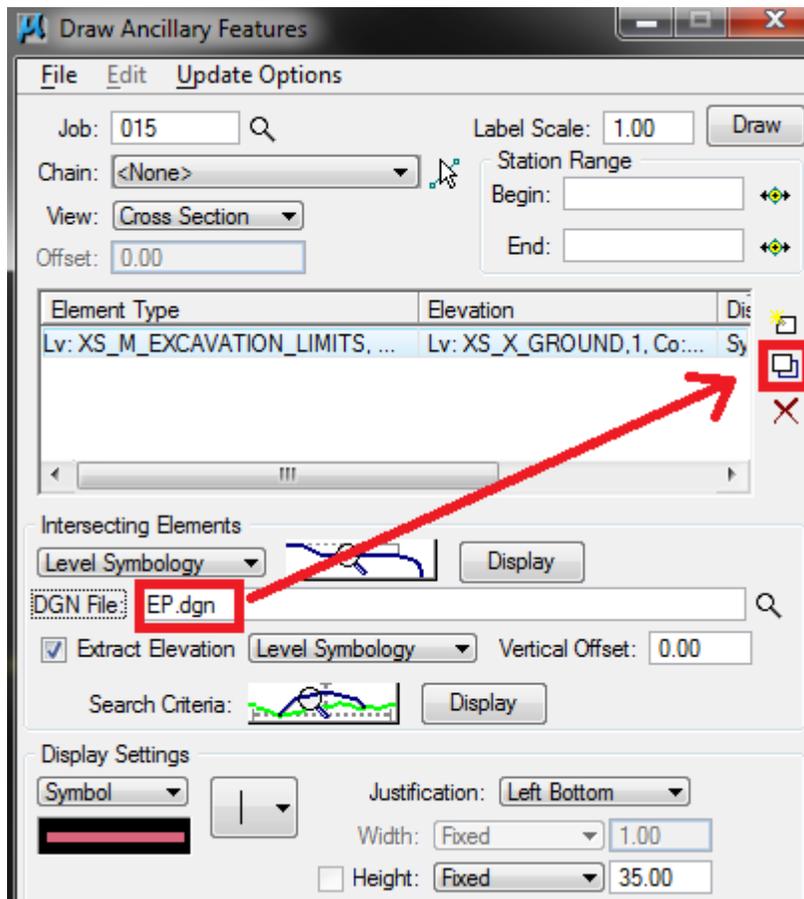


2. Navigate to RWDDATA -> Input and choose ew_phased.afd



Modifying Settings

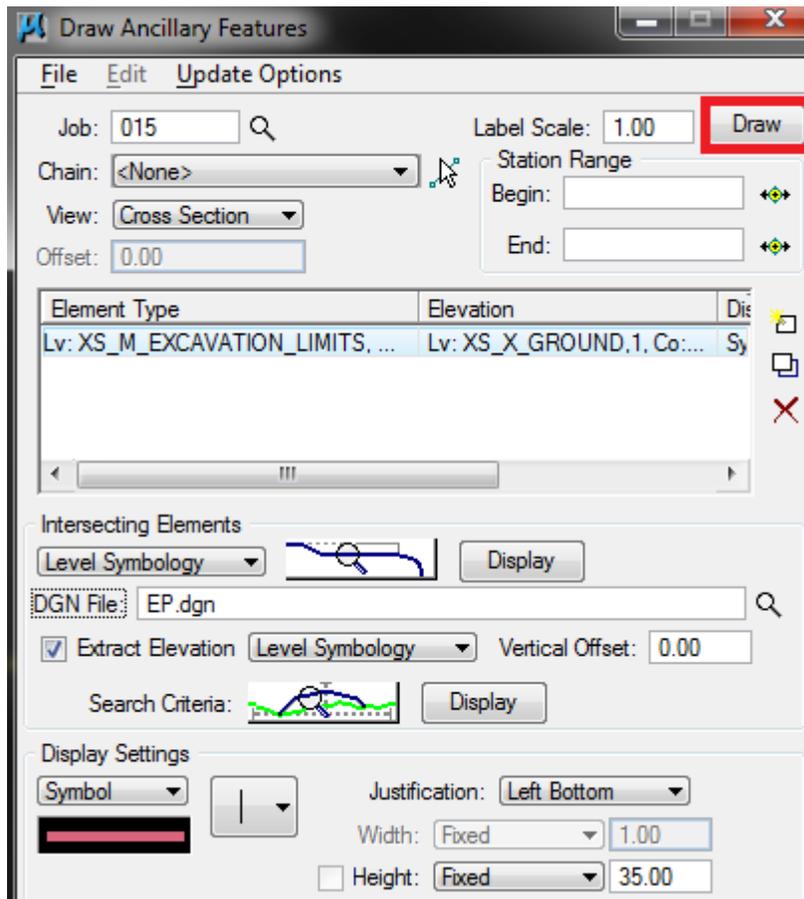
Choose the DGN file your EXCAVATION limits are plotted in and the chain. Then click modify.



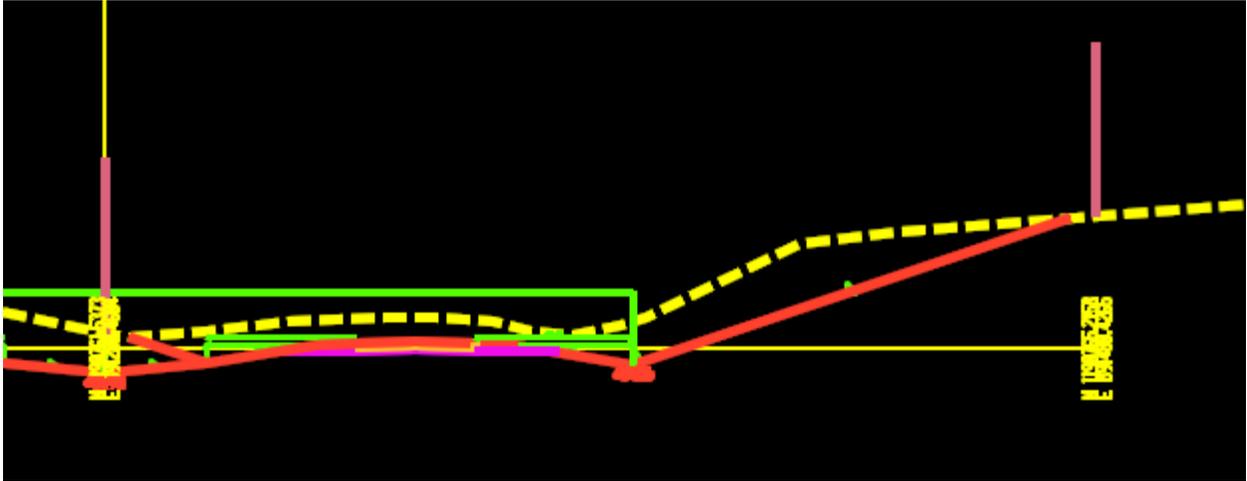
- NOTE: If you are using the XS_M_EXCAVATION_LIMITS_1 level you must also change the level symbology to reflect the correct level before you hit modify.

Running Draw Ancillary

Click DRAW and watch the tool run.



Scroll through the sections and make sure they were placed right. They should look similar to the following:

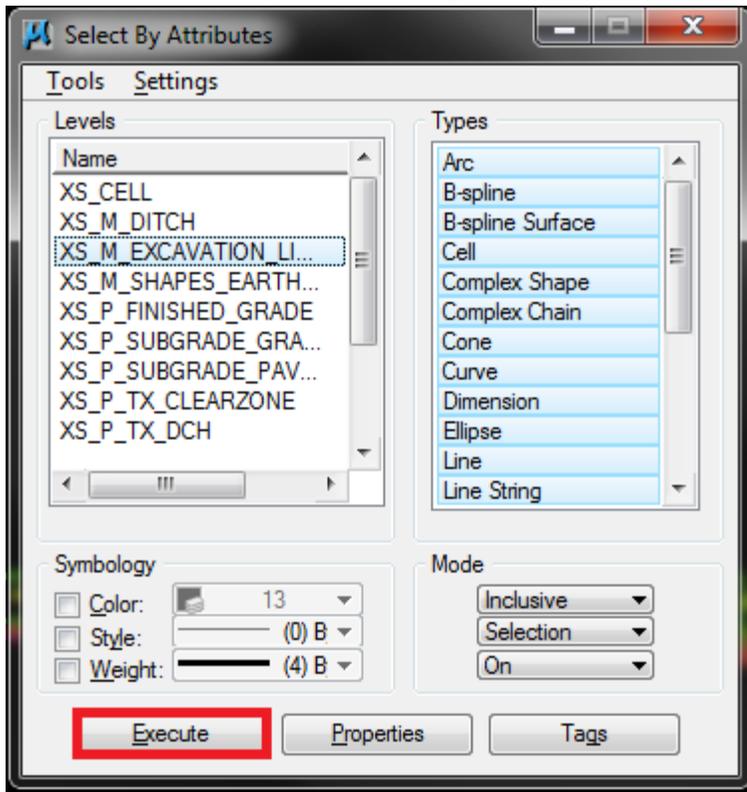


Dropping Elements to lines

This step is VERY important. If not done, the lines will not be picked up by the program. Draw Ancillary places these lines in as cells, not as lines.

1. Invoke "Select by Attributes" Edit -> Select by Attributes

2. Choose the correct level and tag “Execute”.



3. Choose the “Drop Element” command from the Microstation tool palette.
4. Click to accept.

Running the Input File

Prepping Input File

1. Open the input file you intend to modify for this run.
2. Scroll down to the excavation limit area.

3. Remove the “comment” lines as shown below:

```
/* excavation limits
lvname = 53,XS_M_EXCAVATION_LIMITS
co = 13
type = line */

write earthwork shapes
plot parameters
lvname = XS_M_SHAPES_EARTHWORK
lc = bylevel
wt = bylevel
co = bylevel
stratify shape color

/* calculate only between excavation limits */
COMBINE COMMON EXC + SUBGRADE EXC + SUBSOIL EXC
```

NOTE: If you need to use the other level, add _1 to the level name.

4. Save the file.

Running the file

1. Choose “Process Cross Sections” from Applications -> Geopak -> Road -> Cross Sections.
2. Choose your earthwork input file.
3. Click Apply on in the Process Cross Section Dialog.