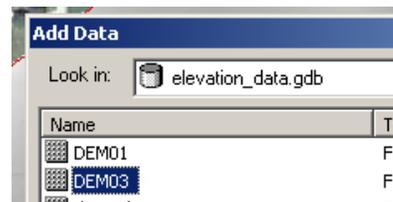
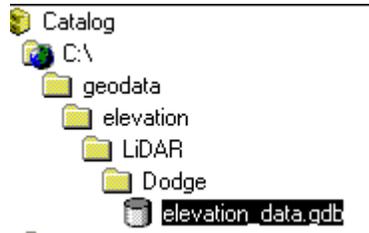


This guide covers the procedure of importing a LIDAR DEM into a Civil 3D surface using an ArcMap tool. A tool has been developed to select the extent of the DEM you want and converts it from meters to feet.

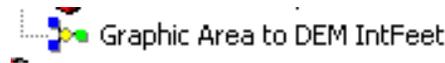
- Open any ArcMap project . If you do not have a DEM in your project

- Select Add data 
- Browse to your DEM data. This should be on your C drive or on a portable drive on your Computer preferably

C:\geodata\elevation\LiDAR\[countyname]\elevation_data.gdb



- Open your NRCS Toolbox
- Double click the model



Select Folder to place files

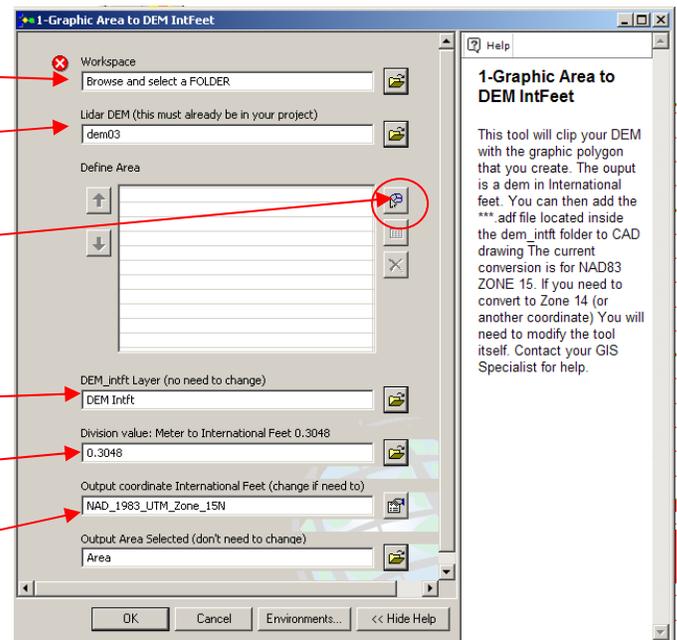
Select DEM

Draw Feature Tool
(Can select more than 1 area)

Select Name for New Folder

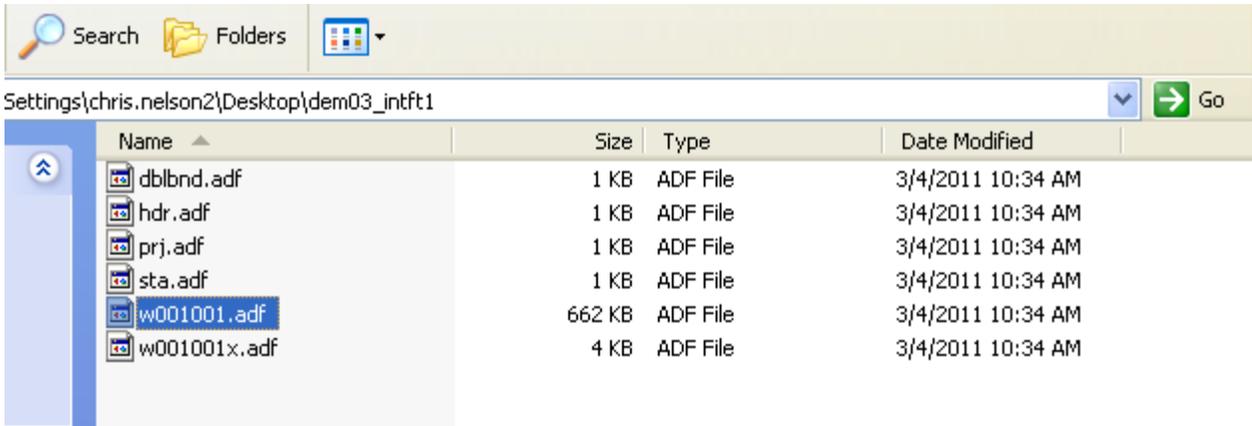
Select Vertical Conversion Factor
(Should not change)

Select Horizontal Coordinate System

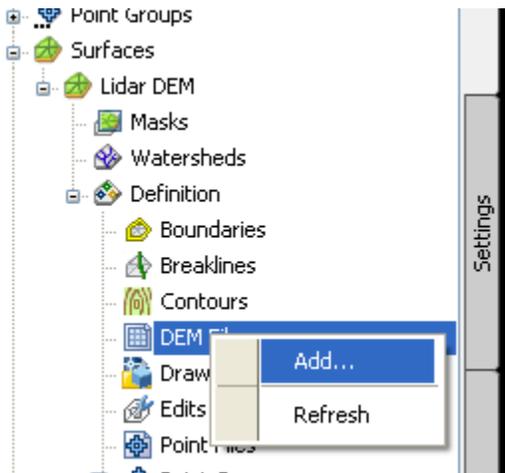


- Click OK when the parameters have been set
- A Subfolder will be created called *DEM_xxtft* in the location selected

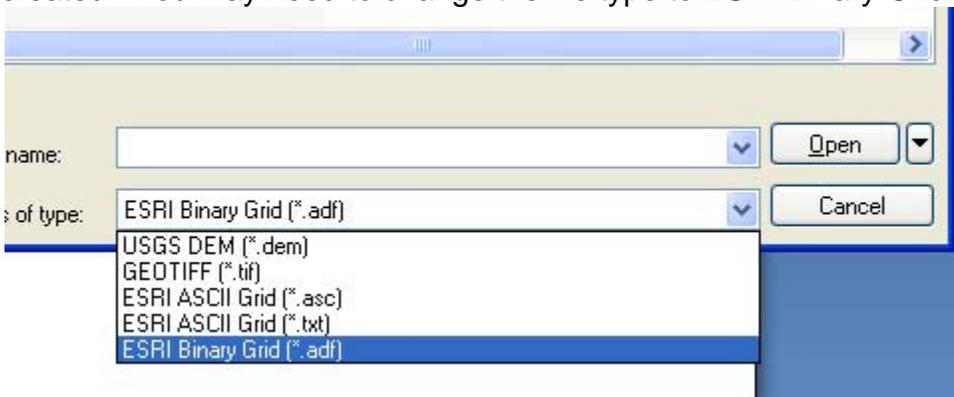
This process will develop a series of files located in the location that you selected that are in an **.adf** format. The file that you are looking for is the largest file in the folder.

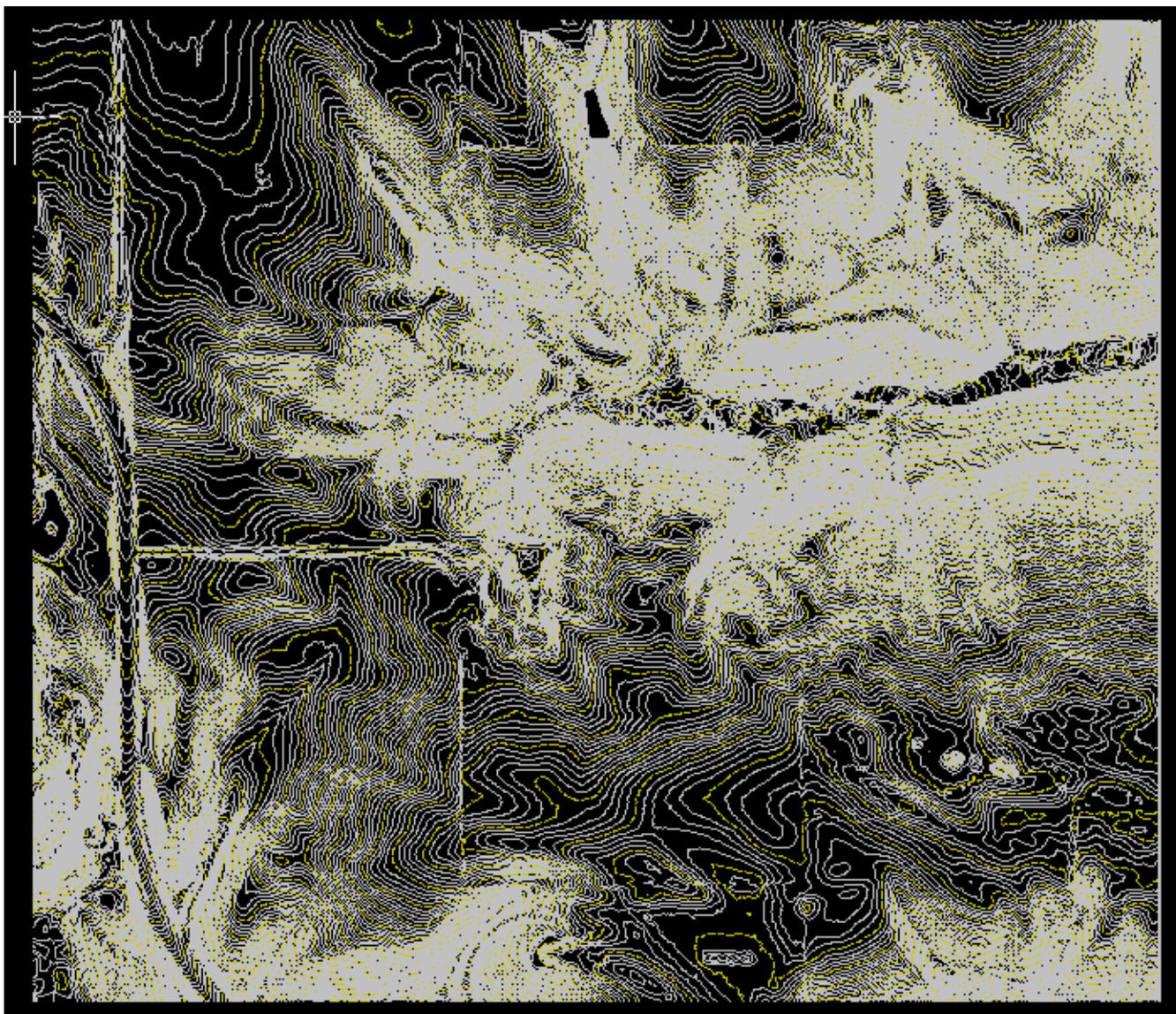


Open Civil 3D and go to the Toolspace and either create a new surface called Lidar Dem or use one that is already created. Expand the surface and navigate to the definition and right-click on DEM Files and select Add.



A window will appear that will allow you to navigate to the location of your DEM that you created. You may need to change the file type to ESRI Binary Grid (*.adf).





Keep in mind that larger surfaces like this have a tendency to slow the functionality of the system and have caused the program to lock up at times. Generally, if you bring in just the area that you will be doing work the program works just fine. If whole watersheds or sections are selected the system may have a hard time processing the data.