GISS Introductory Class

Multi-Page IAP Map
How To

Description
This lesson contains direction on using GIS tools to create a multi-page Incident Action Plan (IAP) map book or map series.

Target Audience
Incident GIS specialists responsible for creating detailed IAP maps for field personnel.

Objective
At the end of this lesson the student will demonstrate the ability to create a multi-page IAP map.

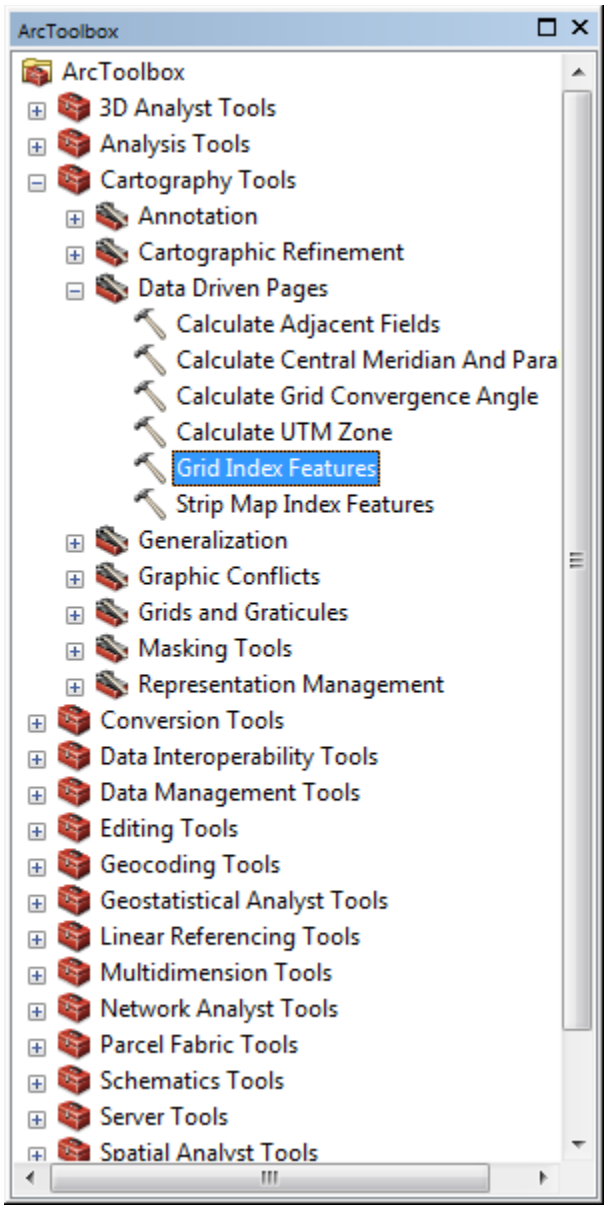
GSTOP Reference – Chapter 6, *Map Products*

Requirements
A multi-page IAP map book is often required to represent map details at a scale useable by Operations personnel. Multi-page maps should be scaled to 1:24000 or similar extent to show contour lines, relief, roads, trails and other features that affect tactical decision making.

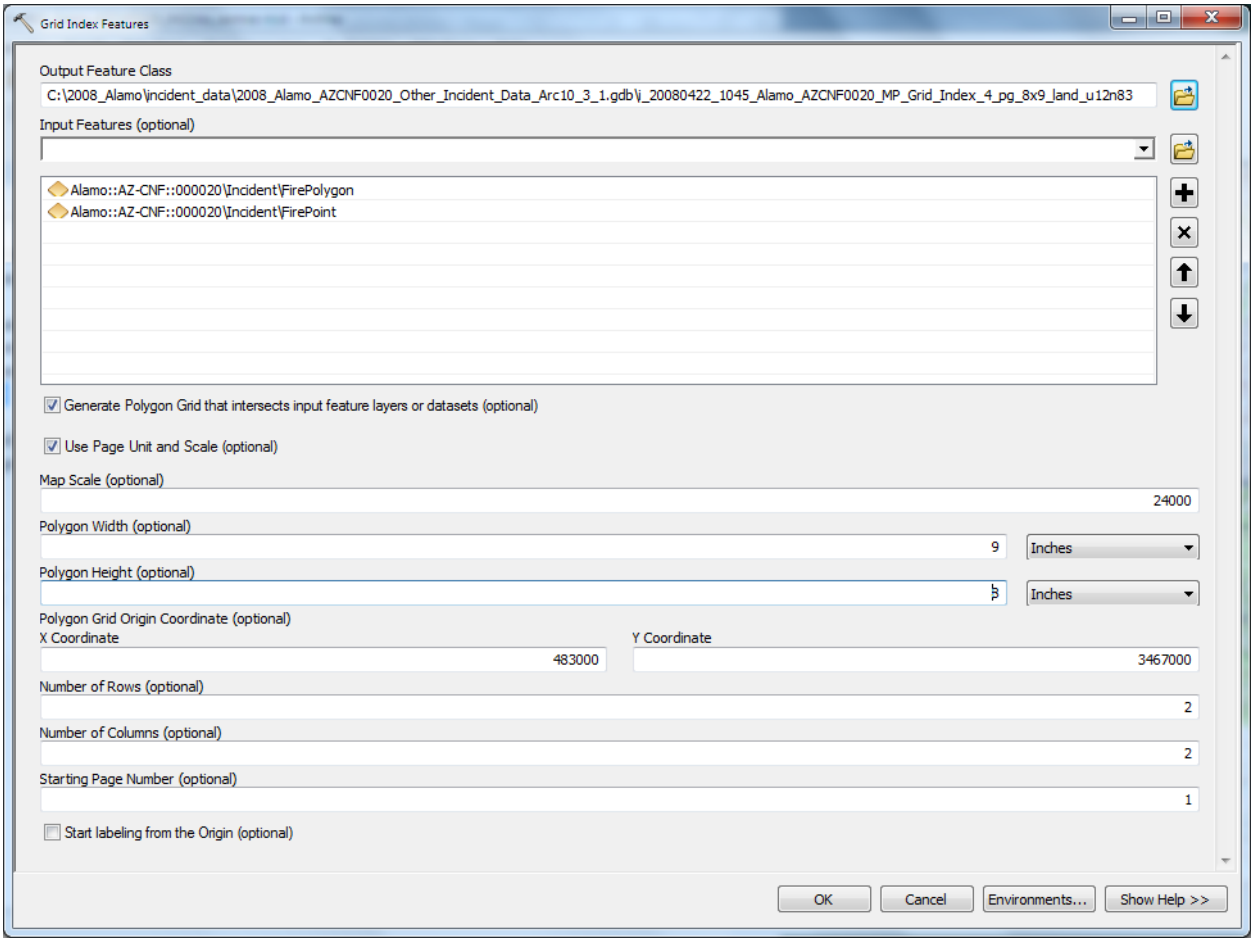
The steps for creating a Multi-Page IAP map book are the same whether your incident data is in a FIMT geodatabase or the NWCG standard Event geodatabase.

1. Start with an ArcMap project or template containing the fire incident data and other layers needed for an IAP map and save it using the GSTOP standard for a multi-page IAP map.

2. Use ***ArcToolbox*** to start the *Cartography Tools/Data Driven Pages/Grid Index Features* tool.



a. In the dialog set the *Output Feature Class* in the *other_incident_data* File Geodatabase in the *incident_data* folder.



b. Choose the feature classes that contain the fire polygon and the fire points for the *Input Features*

c. Check the box for *Use Page Unit and Scale*

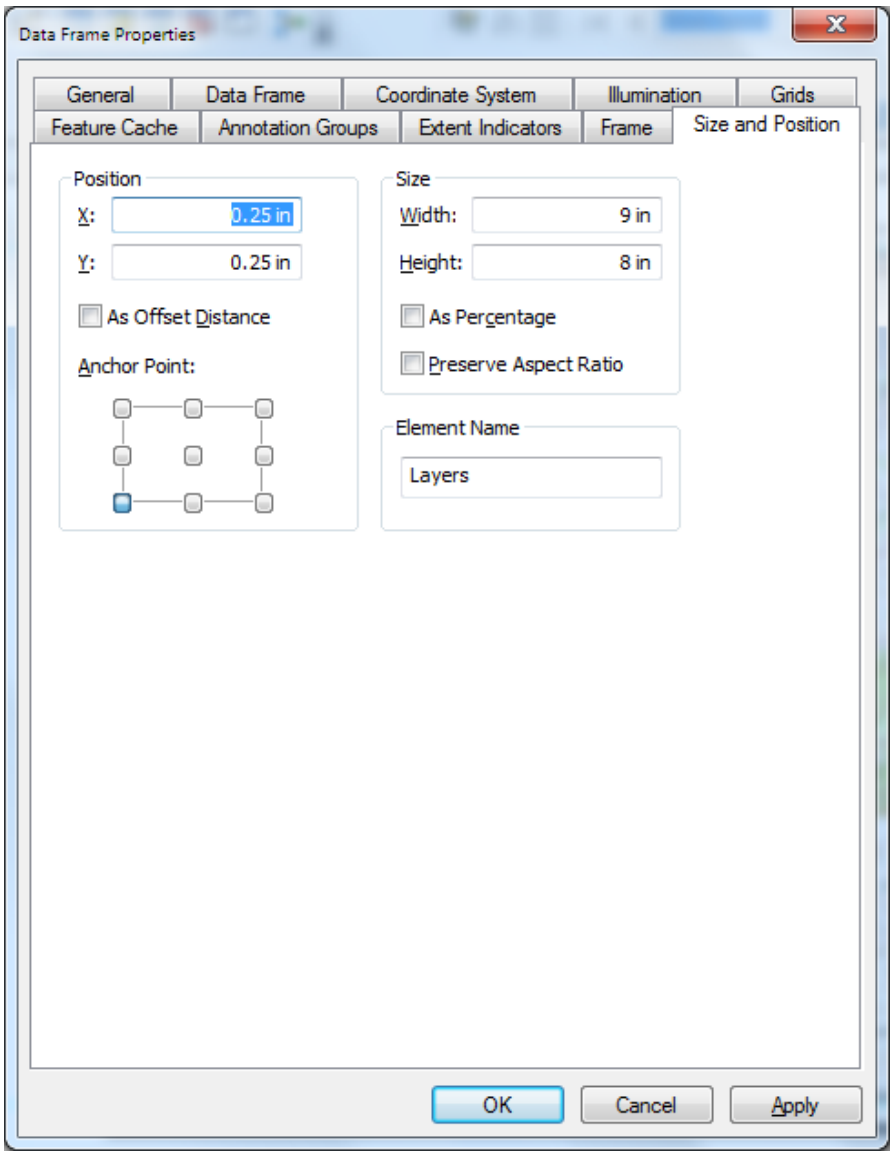
d. Set the *Map Scale* to 24000

e. Set the *Polygon Width* to 9 inches (9” x 8” for landscape letter page with legend on the side). For tabloid with a sidebar legend set the *Polygon Width* to 14.2 inches

f. Set the *Polygon Height* to 8” for letter, 10.2” for tabloid size

g. Change the number of Rows and Columns if needed

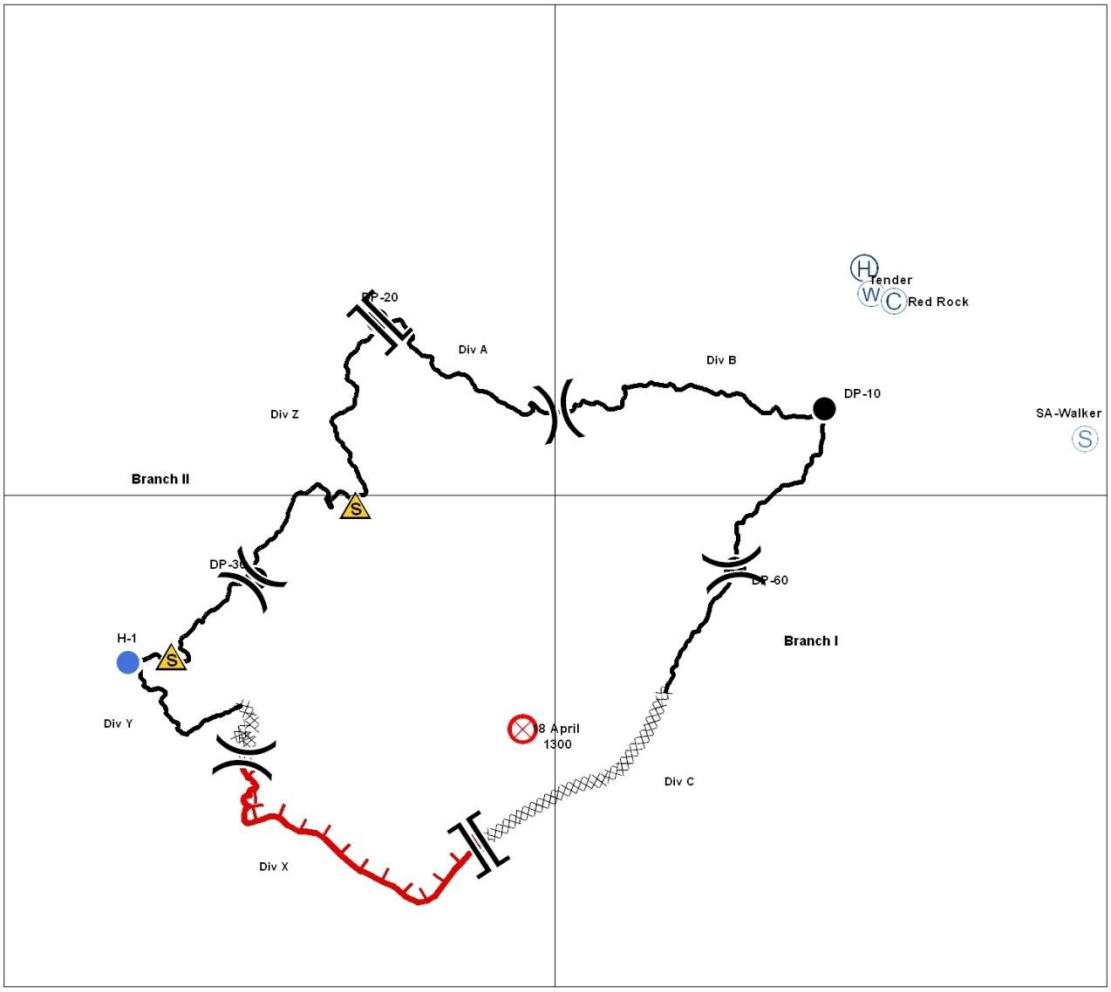
h. Click the **OK** button



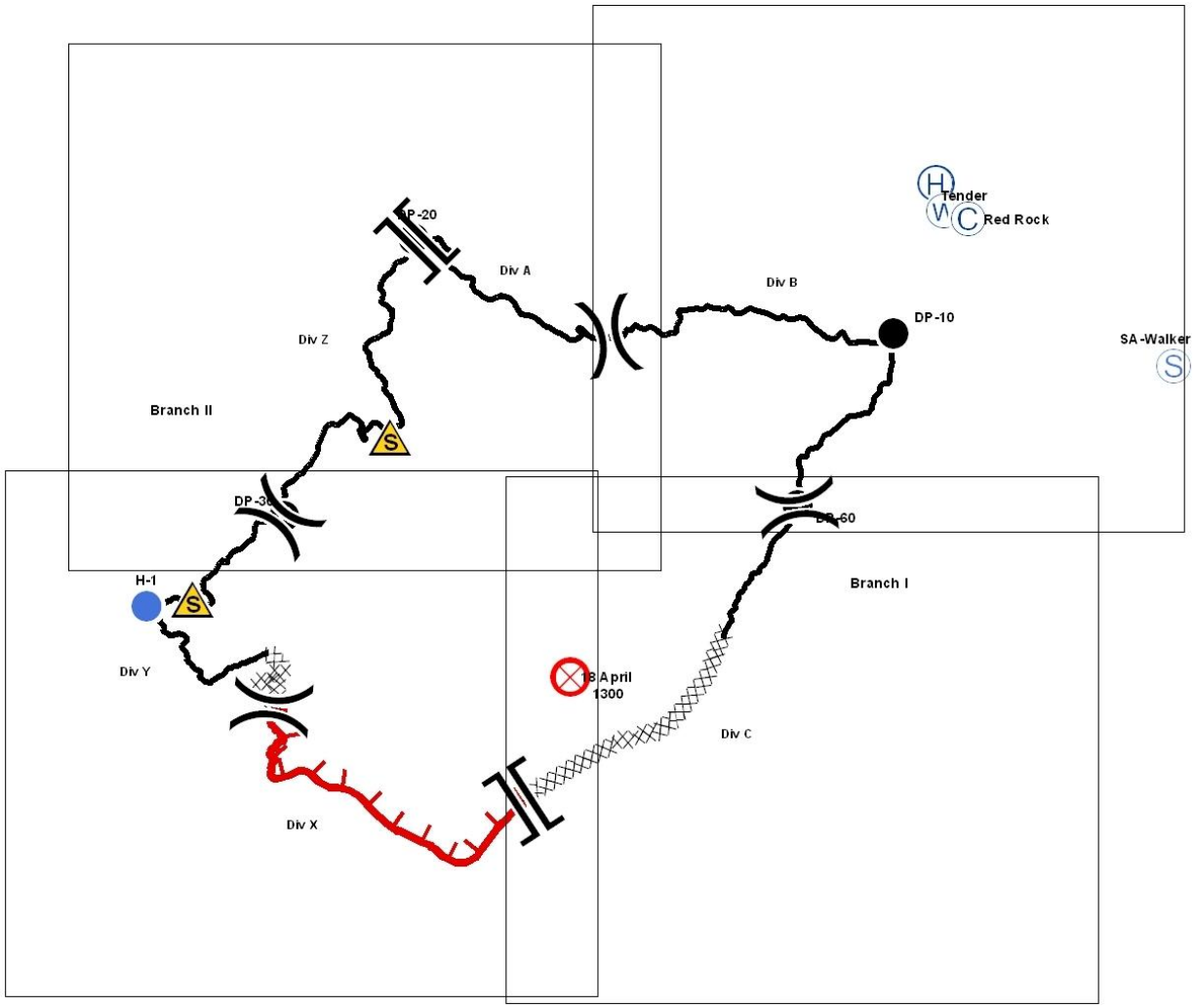
3. Modify the behavior of the new *Grid Index Feature* added to the data frame.
   a. In the table of contents change the symbology to outline

   b. Make the *Grid Index Feature* the only selectable feature

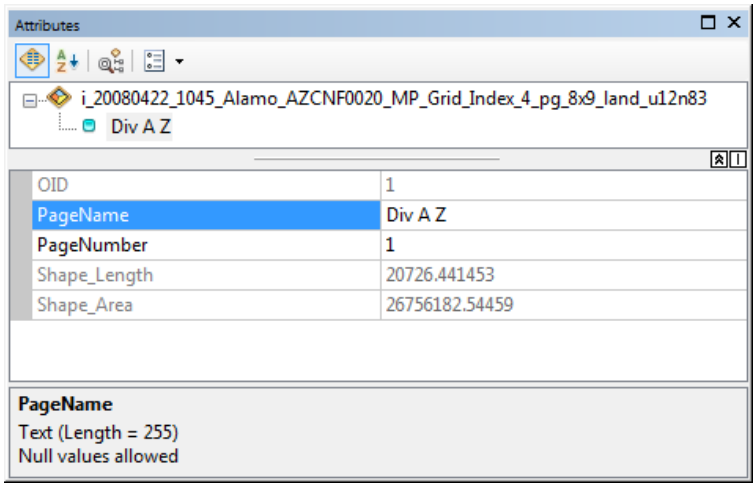
   c. Right click on the *Grid Index Feature* and choose *Edit Features/Start Editing*



d. Edit the tile polygons to ensure that each Division is covered appropriately and that there is enough overlap between sheets.



e. If desired change the *PageName* attribute to the appropriate Division(s)



f. *Save Edits* and *Stop Editing*

g. Save the MXD

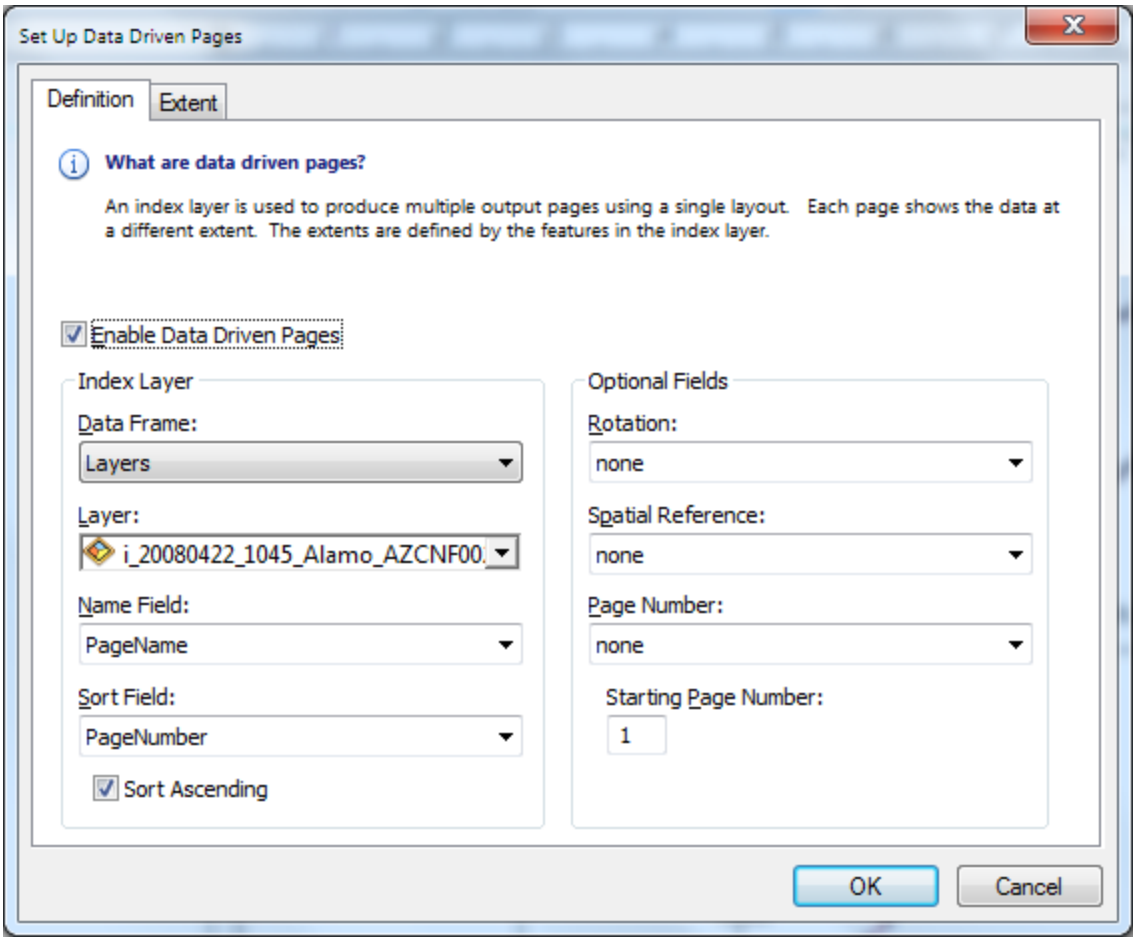
4. Turn on the*Data Drive Pages* toolbar

a. Switch to *Layout* mode

b. Set the map scale to 1:24,000

c. Choose *Data Driven Page Setup* from the toolbar

d. Check ☑ Enable Data Drive Pages from the dialog box



e. Choose the appropriate Data Frame

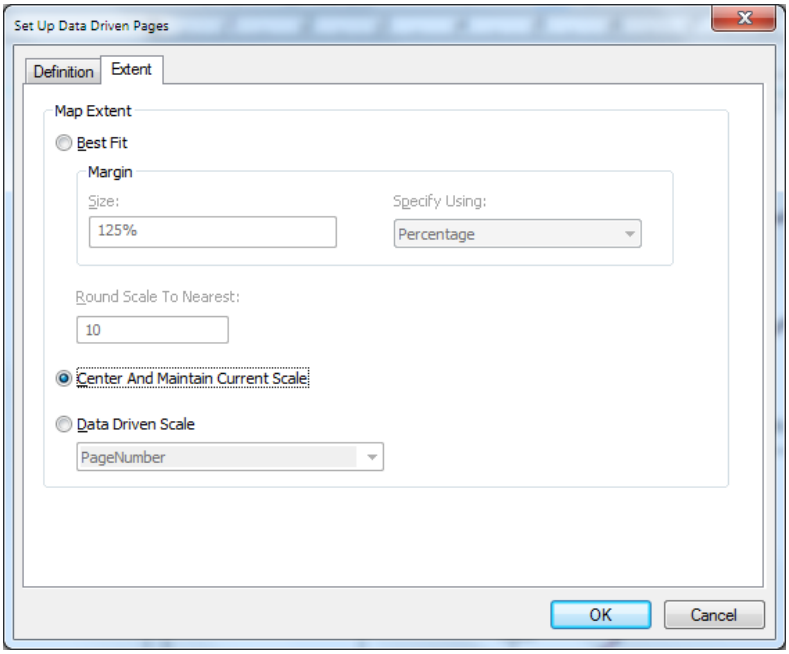
f. Choose the *Grid Index Feature* Layer

g. Switch to the *Extent* tab

h. Choose *Center And Maintain Current Scale*

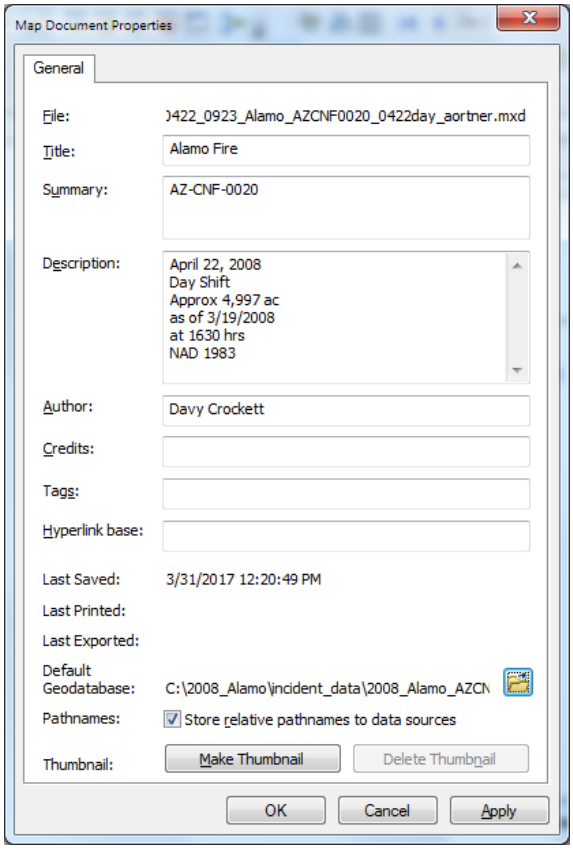
i. Choose the *OK* button

j. Review each sheet using the arrows on the *Data Drive Pages* toolbar

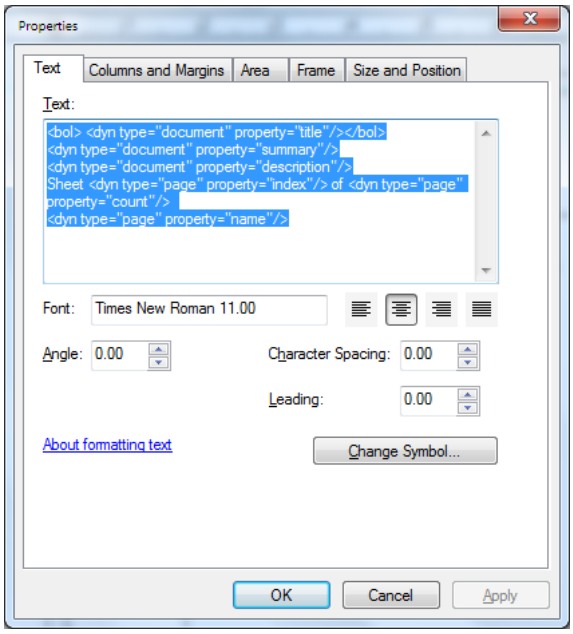


5. Update the text and cartographic elements of the layout

   a. Enter incident information into the Map Document Properties



   b. Review the text box properties in the layout template or create dynamic text for the map's Title text box



6. Export the map sheets from *File/Export Map*

   a. Navigate under *File name:* to *products/{date folder}*

   b. Name the output PDF file following GSTOP standards
   iap_{page size}_{page orientation}_MPall_ {date}_{time}_ {incident name}_{Unit ID+ Local Incident ID}_{Operational period}.pdf

   c. Choose *PDF* under *Save as type:*

   d. Under *Options* choose the *Pages* tab

   e. Select the radio button next to *All*

   f. Set *Export Pages As* to *Single PDF File*

   g. Click the **Save** button