

Creating a Strip Map Series

This exercise shows you how to make a series of maps along a linear feature. In this scenario, you will be making a series of maps along Dixie Highway starting at the Watterson Expressway south to the Meijer just south of Stonestreet Road. You will need to be able to read the Parcel IDs along the highway to do property research on certain properties. A sample of the final layout for this map is on the last page of the exercise.

Open **ArcMap** in a Citrix connection. In the **ArcMap – Getting Started** window, go to **Existing Maps>Browse for more...** and go to the **H:/DataDrivenPages** directory and select **DixieStrip.mxd**.

The map opens showing the 5 mile study corridor along Dixie Hwy. Look at the table of contents to see what layers will be shown in this map series.

Creating Strip Map Index Features

A Strip Map Index feature class needs to be created to use Data Driven Pages to produce a Strip Map Series. It is a series of rectangles along the linear feature.

Open the **ArcToolbox** button  in the Standard tool bar along the top of the mxd. Navigate to **ArcToolbox>Cartography Tools>Data Driven Pages**. (Figure 1) **Open the Strip Map Index Features** tool.

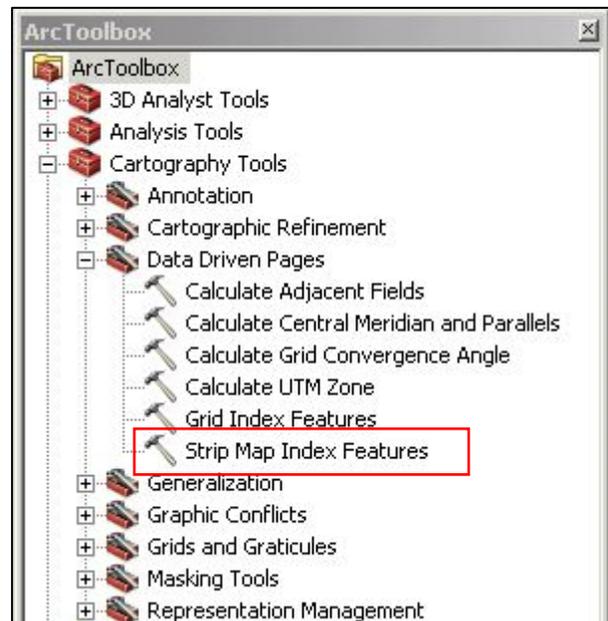


Figure 1 - Data Driven Pages toolbox

We will be producing hardcopy maps on **8.5" x 14"** paper at a scale of **1 in. = 100 ft.** The page orientation will be **portrait**.

Figure 2 on the next page shows the setup for the **Strip Map Index Features** tool. The new Strip Map Index feature class will be called **DixieIndex** and placed in the **DDP.gdb**. Figure 3 on the next page explains some of the **components** of the tool.

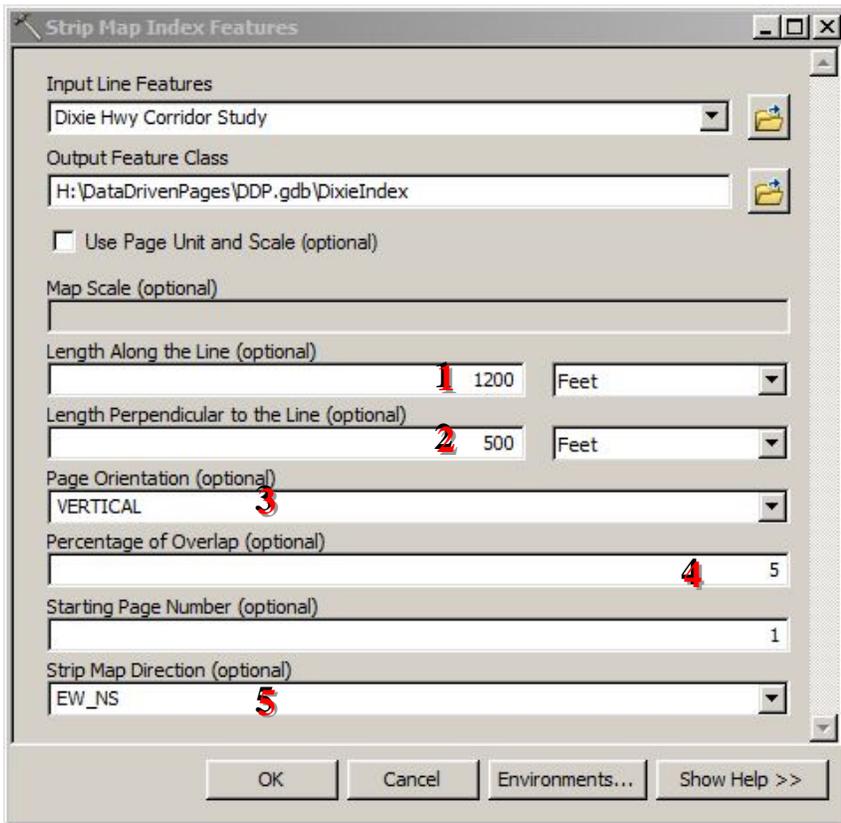


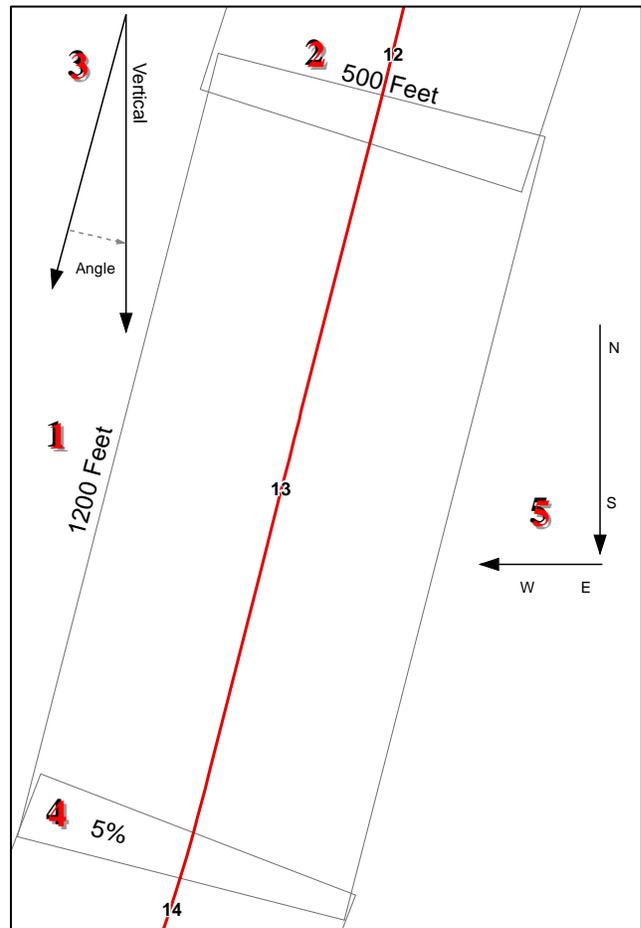
Figure 2 - Strip Map Index Features tool

- 1** – **Length** of an index rectangle **along** the line in map units.
- 2** – **Length** of an index rectangle **perpendicular** to the line in map units.
- 3** – The page orientation. **Vertical** used for **portrait** and **Horizontal** used for **landscape**.
- 4** – The **percentage of overlap** between index rectangles.
- 5** – The **start and direction** of the page numbering.

When all the components are set, click **OK**. The new Strip Map Index feature class, **DixieIndex**, will be added to the mxd and appear in the map.

To set the scale, **right click** on the Data Frame called **Layers** and select **Properties**. Go to the **Data Frame** tab and set the **Extent** to **Fixed Scale** and set **Scale** to **1,200**. (1 inch = 100 feet)

Figure 3 – Strip Map Index Feature Components



Creating the Data Driven Pages

To open the **Data Driven Pages** toolbar, go to **Customize > Toolbars** and select **Data Driven Pages**.

On the **Data Driven Pages** toolbar, use the **Definition** tab to open the **Setup Data Driven Pages** property pages. (Figure 4)

Check Enable Data Driven Pages.

Choose the **Layers** data frame that contains the index layer.

For **Layer**, choose the index layer. In this exercise, select **DixieIndex**.

For the **Name Field**, choose the field name '**PageNumber**'.

For the **Sort Field**, choose the field name '**PageNumber**'.

For the **Rotation**, choose the field name '**Angle**'.

Switch to the **Extent** tab. (Figure 5)

Select **Center and Maintain Current Scale**. This will keep a fixed scale with the current map scale.

Click **OK**. This will zoom to the first page in your index layer.

Change the symbology in the **DixieIndex** layer to **Fill Color** of **No Color**. Increase the **Outline Width** to **5.0** and change the **Outline Color** to **Black**.

Check on the **Current Parcel Polygons** layer. **Check off** the **Dixie Hwy Corridor Study** layer.

On the **Data Driven Pages** toolbar, step through some of your pages using the arrow buttons.

Figure 4 - Setup Data Driven Pages, Definition tab

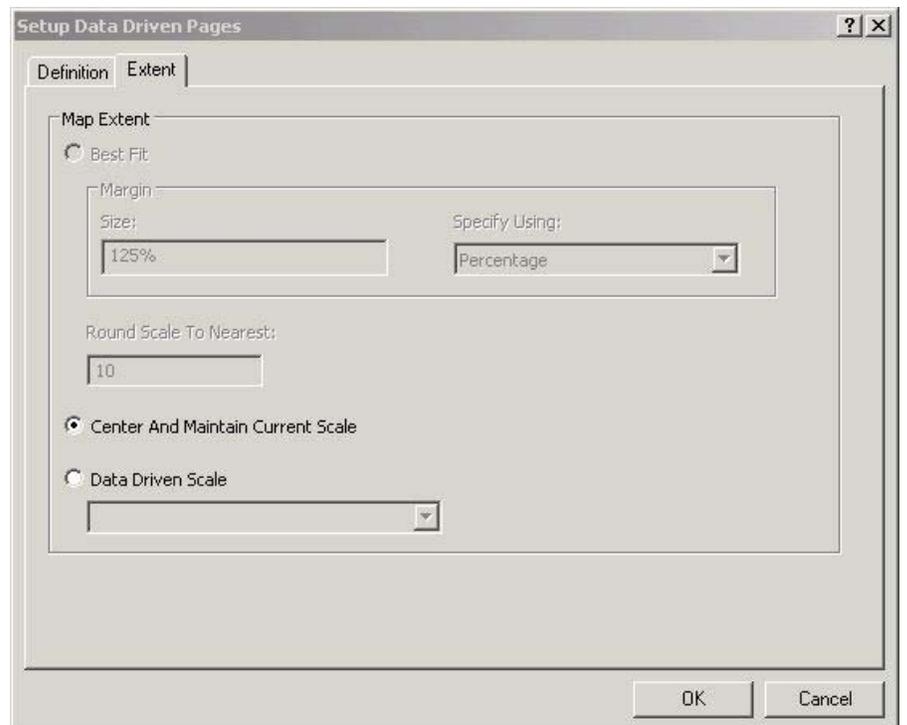
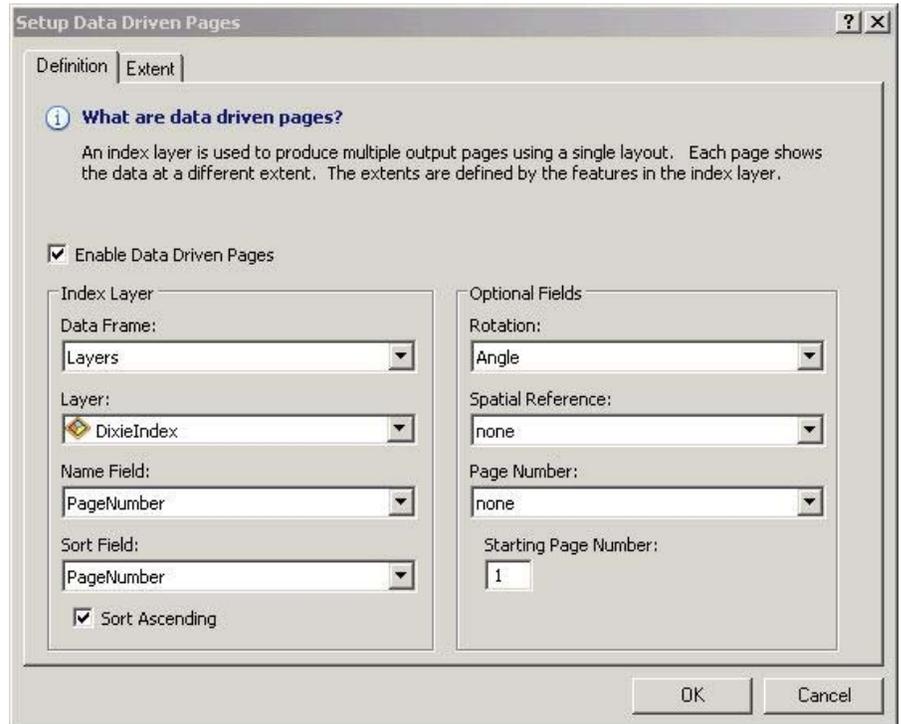


Figure 5 - Setup Data Driven Pages, Extent tab

Adding Dynamic Text the Layout View

If necessary, go to the **Layout** view to view the pages. Double check to make sure the Map Scale is set to **1:1,200** in the **Standard** toolbar.

To add the page number with the total page number (1 of 26), go to the **Data Driven Pages** toolbar, click on the **Page Text** button and select **Data Driven Page with Count**. (Figure 6)

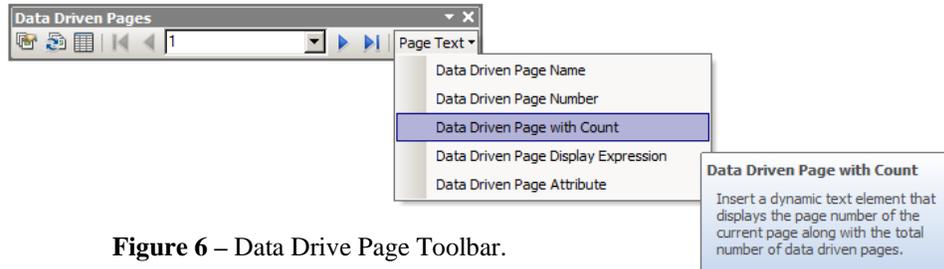


Figure 6 – Data Drive Page Toolbar.

The text box will appear in the **center** of the layout. **Move** it to the **lower right corner** of the **layout**. (See Sample Map on the last page.)

To add a **Title** with the page number, **click** on the **Page Text** button in the **Data Driven Pages** toolbar and select **Data Driven Page Number**. The **page number** will appear in the **center** of the layout.

Right click in the **page number**, select **Properties** and click on the **Text** tab.

In the **Text** window, notice the html code enabling the dynamic text:
`<dyn type="page" property="name"/>`

In front of the html code, type “**Dixie Highway Corridor Map #:** “ (Figure 7)

Change the font size to **16**. Click **OK**.

Move the **Title** to the **center** of the margin below the data frame. (See Sample Map on the last page.)



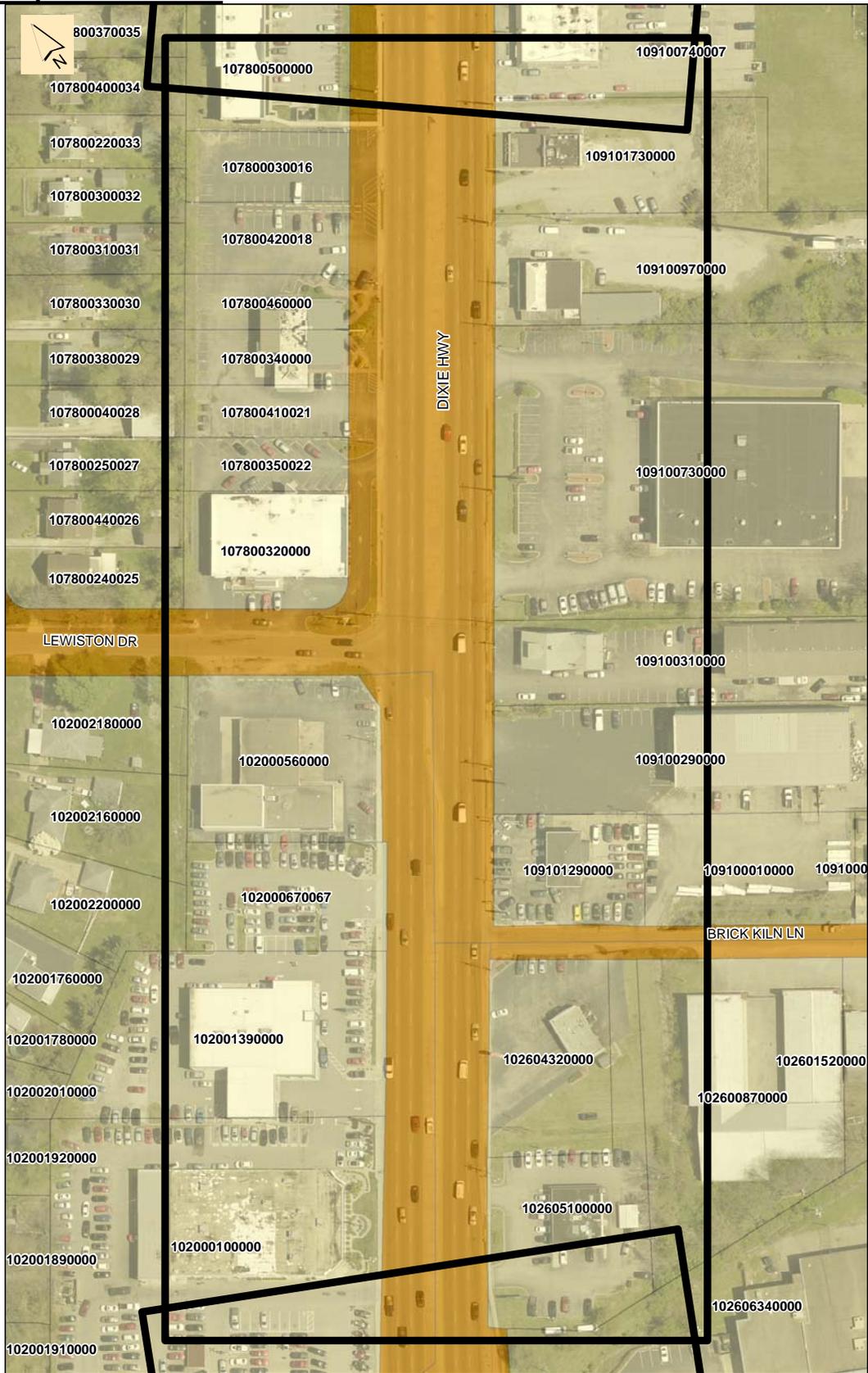
Figure 7 - Adding Static Text with Dynamic Text

Save the mxd.

If you choose, **export** the all the pages of the map series into one **Single PDF file**. (See Exercise 1, page 4.)

Close the mxd.

Sample Map for Exercise 3



Map Created: 3/22/2017
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Dixie Highway Corridor Map #: 5

