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.

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.
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)
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.
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.](image)

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.)

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.