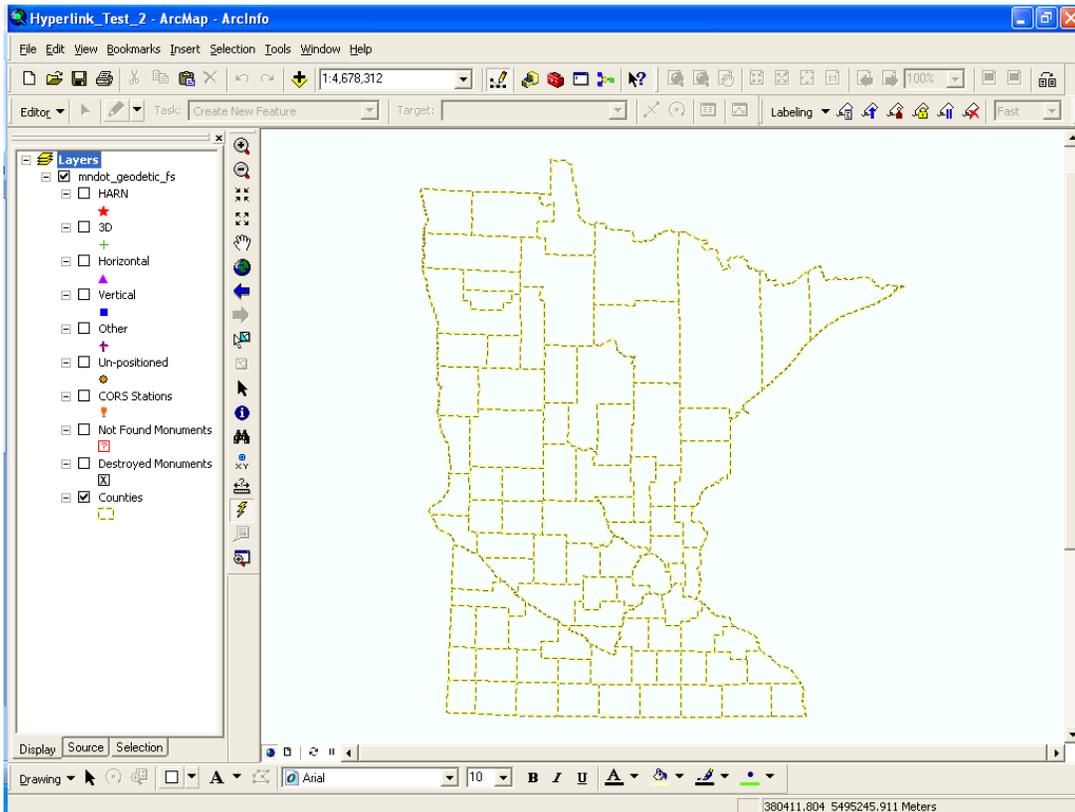
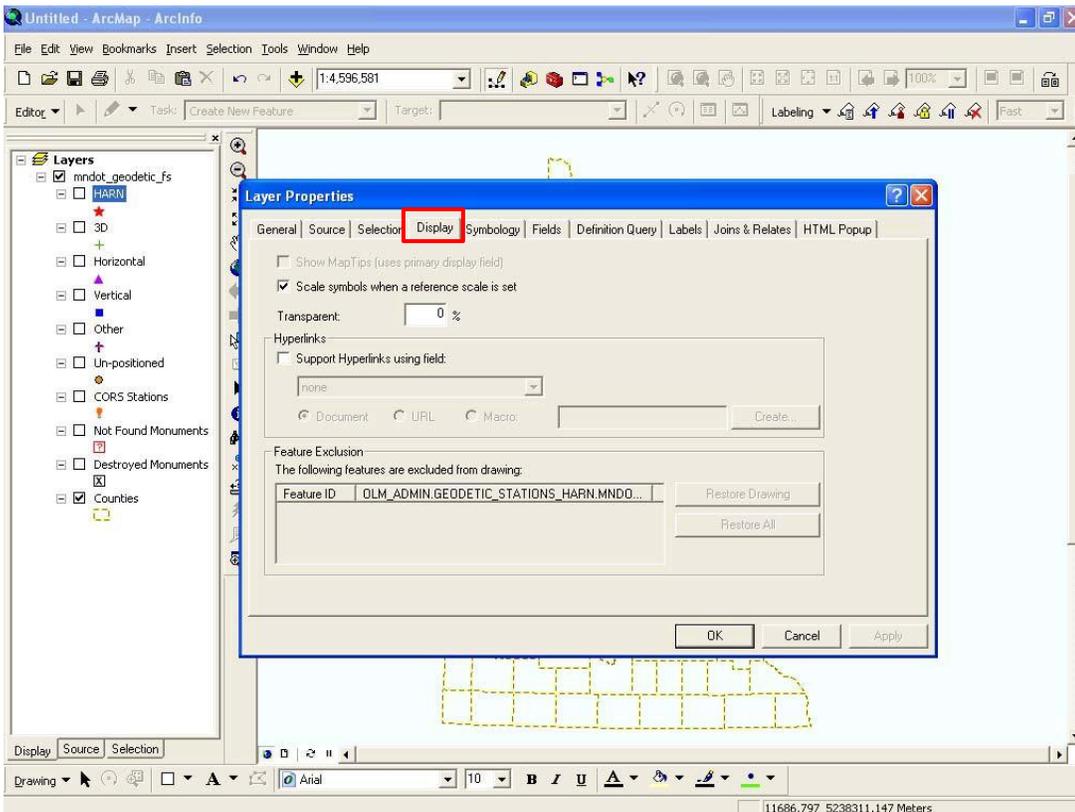


Hyperlinking Mn/DOT Data Sheets in the Geodetic Feature Service in ArcGIS 9.3.1

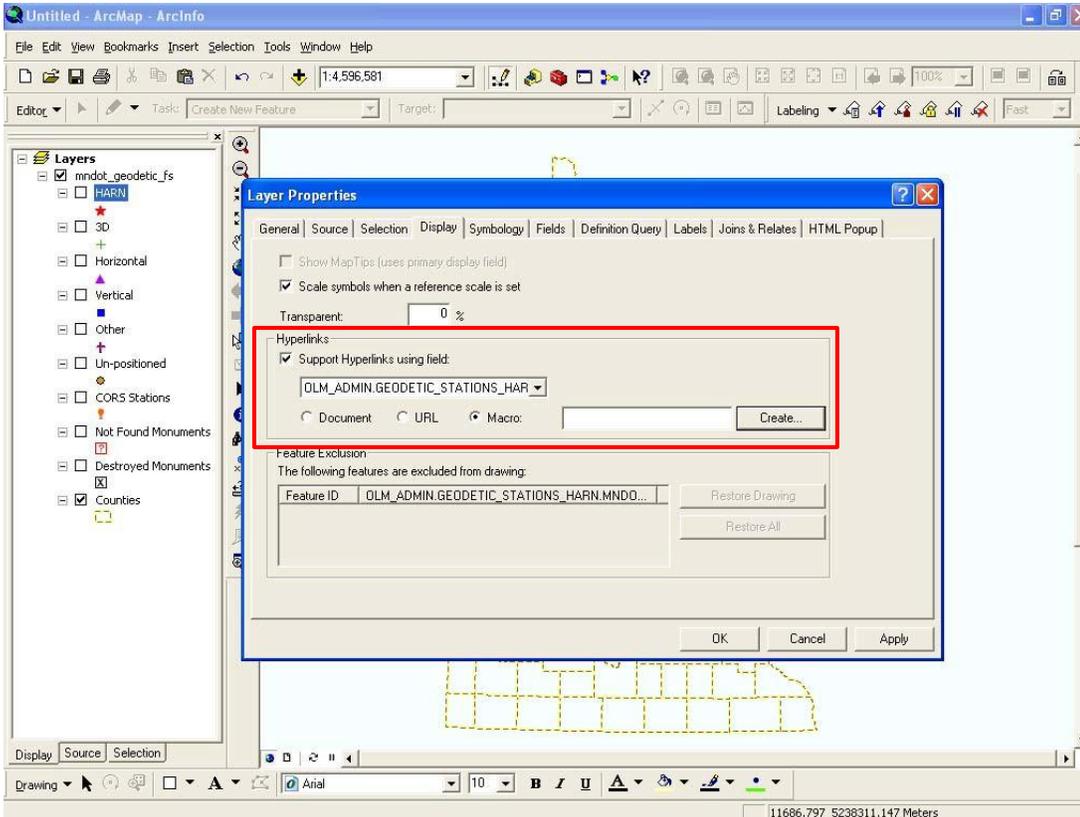
1. Add the Geodetic Feature Service. Download instructions can found at the [Geodetic Unit's website](#).



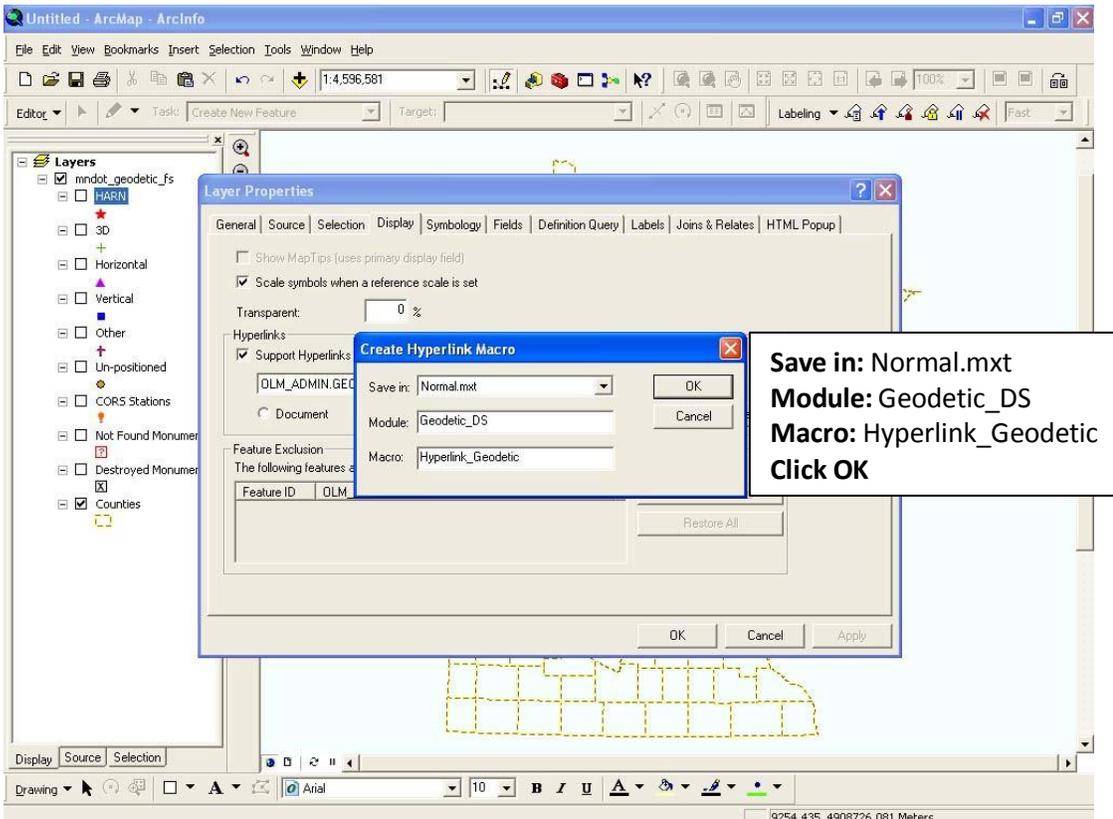
2. Create a new module in Visual Basic by opening the properties of the **HARN** layer and selecting the **Display** tab



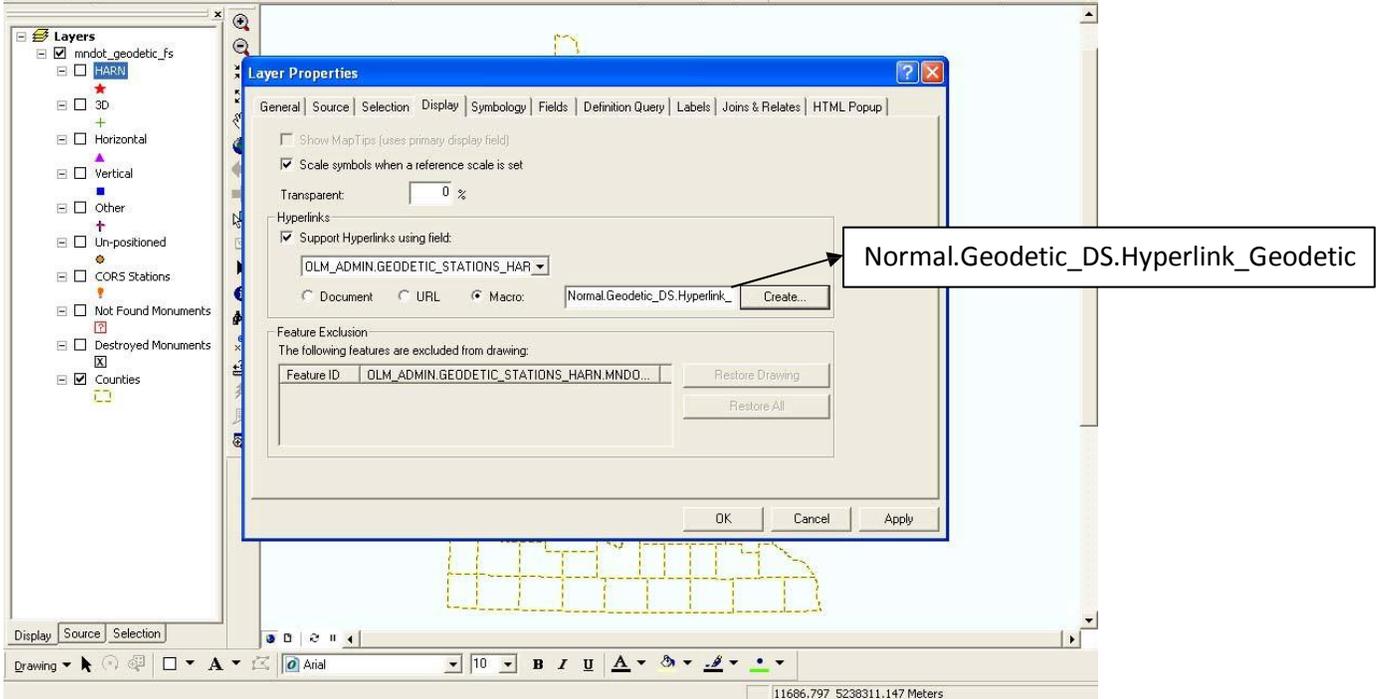
3. Check **Support Hyperlinks using field box**. In the dropdown, select **OLM_ADMIN.GEODETIC_STATIONS_HARN.DATA_SHEET_PDF**. Select **Macro** and the click the **Create** button.



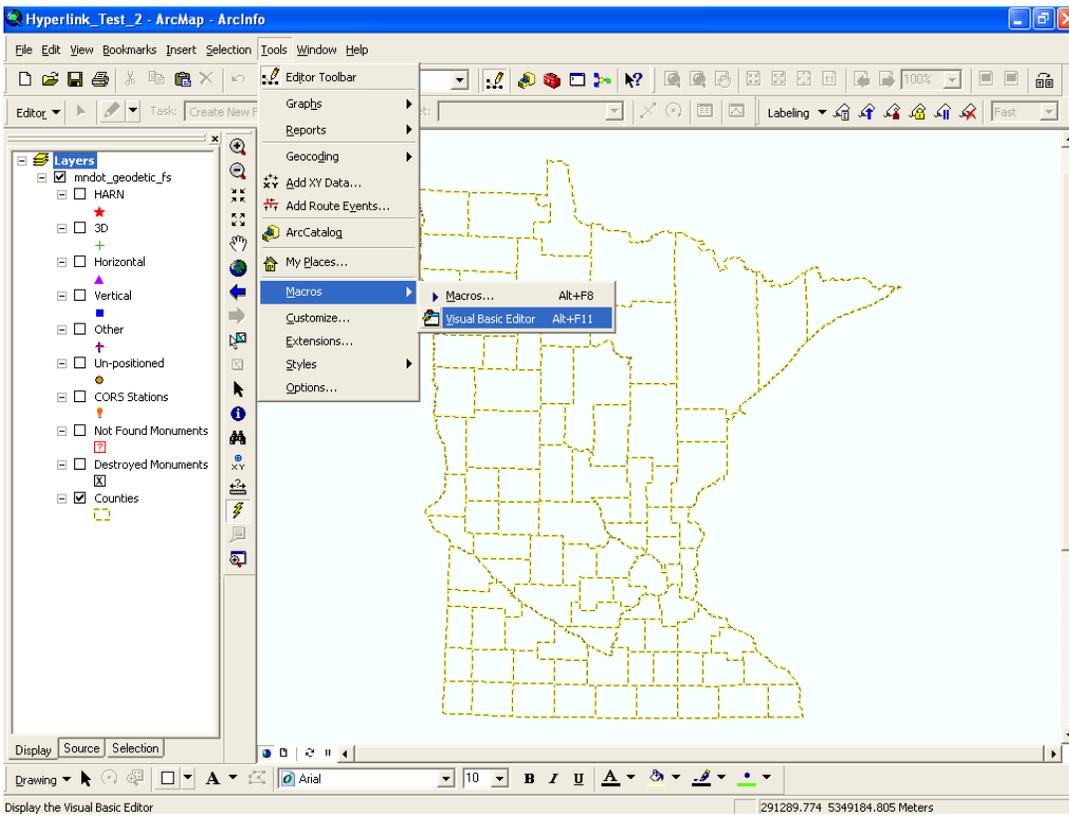
4. Create the Hyperlink Macro



5. The Macro box should read **Normal.Geodetic_DS.Hyperlink_Geodetic**, and then click OK.

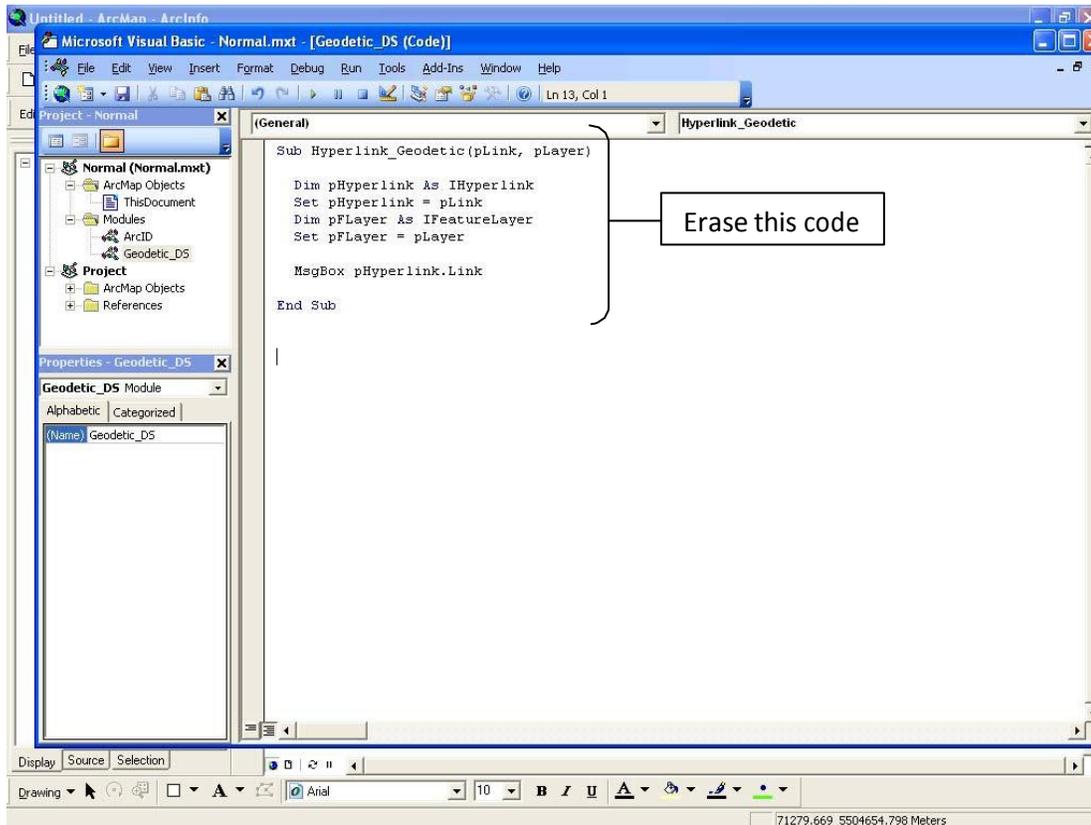


6. Under Tools...Macros, select the Visual Basic Editor



5. The Macro box should read **Normal.Geodetic_DS.Hyperlink_Geodetic**, and then click OK.

7. Select the module name, Geodetic_DS, (may need to double-click the module) that you created in step 4. Erase the existing code and replace it with the code below



Copy and paste this code into the Geodetic_DS module:

```
Private Declare Function ShellExecute Lib "shell32.dll" Alias "ShellExecuteA" _
    (ByVal hwnd As Long, ByVal lpszOp As String, _
    ByVal lpszFile As String, ByVal lpszParams As String, _
    ByVal lpszDir As String, ByVal FsShowCmd As Long) _
    As Long
```

```
Private Declare Function GetDesktopWindow Lib "user32" () As Long
```

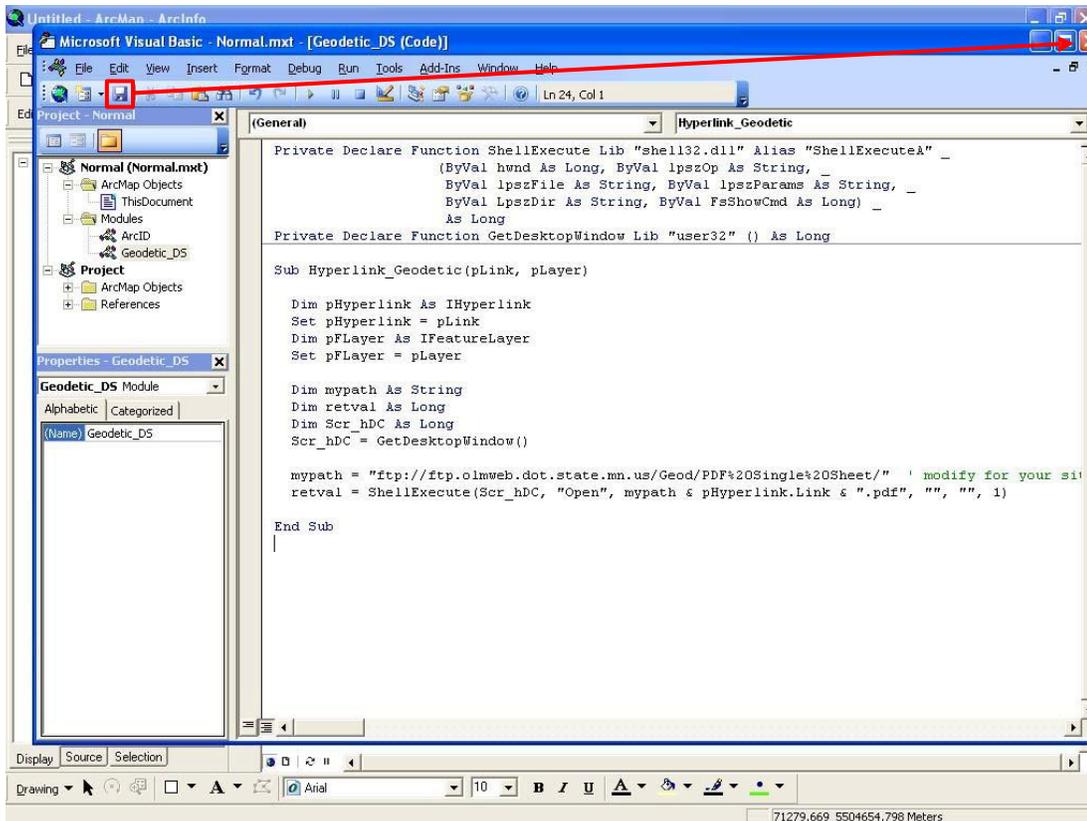
```
Sub Hyperlink_Geodetic(pLink, pLayer)
```

```
    Dim pHyperlink As IHyperlink
    Set pHyperlink = pLink
    Dim pFLayer As IFeatureLayer
    Set pFLayer = pLayer
```

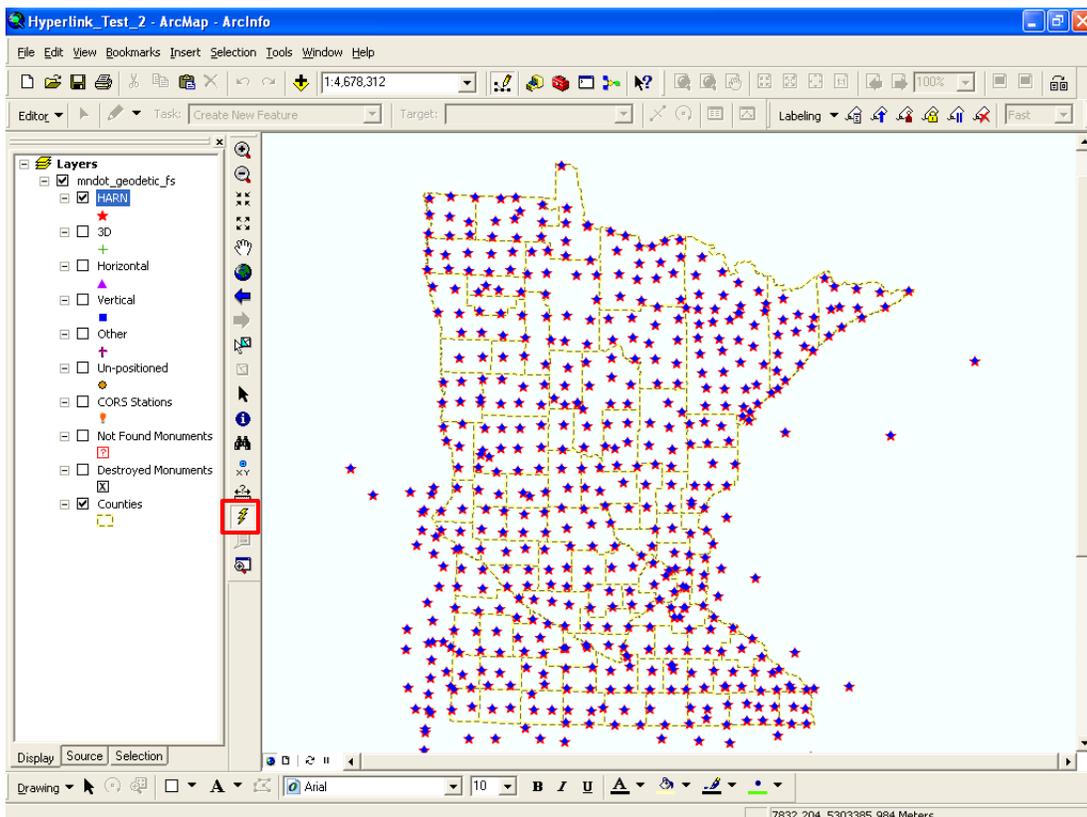
```
    Dim mypath As String
    Dim retval As Long
    Dim Scr_hDC As Long
    Scr_hDC = GetDesktopWindow()
```

```
    mypath = "ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/" ' modify for your site
    retval = ShellExecute(Scr_hDC, "Open", mypath & pHyperlink.Link & ".pdf", "", "", 1)
```

```
End Sub
```



9. Turn on the HARN points in the table of contents, and select the Hyperlink tool (lightning bolt on the Tools toolbar) and test the Macro by clicking on one of the HARN points



8. Once the above code is pasted into Visual Basic, click Save and then close the Visual Basic window

8.The data sheet should open in your default web browser as a PDF

GSID_83284.pdf (application/pdf Object)- Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://ftp.olmweb.dot.state.mn.us/Geod/PDF/Single Sheet/GSID_83284.pdf

Google

Most Visited Getting Started Latest Headlines Customize Links Free Hotmail Windows Marketplace Windows Media Windows

GSID_83284.pdf (application/pdf Dbj...)

1 / 1 102% Sign

1&J Q>odetic Data Sheet (Feet) 01/29/2011
GSID Station# 83284 [Sheet Help](#)

fo!DOT Name: G 26 NGS Name: G 26
 County: DICKEY, ND (Sheet I)

1/4 Sec	Reference Latitude	Reference Longitude	Ve11 Ordet-	Hom Order	NGS ACR'c: RO0079
NW 17	460451.50	980629.21		B	NGS Quad /Sta Num: 46098222/ USGS Quad: OAKES SE

Agency	Year Set	Last Recovery	Condition	GPSable	Photos	Bridge Nom	FIP/R	Magnetic Properties
NDDT	1934	2004	GOOD	YES	NO		PROJECTS 4 IN.	NO MAG MATERIAL

Monument Type
 CONCRETE MONUMENT

Disk Type
 BENCHMARK DISK

Description: (1996) Stamping: G 26 1934

11.80 MILES NORTH OF THE NORTH DAKOTA-SOUTH DAKOTA STATE LINE, 4.35 MILES SOUTH OF OAKES, IN THE NORTHWEST QUADRANT OF THE JUNCTION OF A SECTION LINE ROAD AND A RAILROAD TRACK, SOUTH WEST OF A ROAD ACROSS THE ROAD FROM AN ELECTRICAL SUBSTATION, AND IN LINE WITH A NORTH-SOUTH FENCE, TO REACH FROM THE TEE JUNCTION OF STATE HIGHWAYS I AND II EAST JUST SOUTH OF OAKES, GO SOUTH ON HIGHWAYS I AND II FOR 2.00 MILES TO A GRAVEL CROSSROAD JUST AFTER MILEPOST 13, TURN RIGHT, WEST, ON THE ROAD FOR 0.80 MILE TO THE STATION ON THE RIGHT, 44.9 FEET WEST OF THE WEST RAIL OF THE TRACKS, 20.0 FEET NORTH OF THE GRAVEL ROAD CENTER, 25.6 FEET SOUTH-SOUTHEAST OF THE SOUTH WEST GATE POST IN THE FENCE CORNER, 0.7 FOOT NORTH OF A STEEL POST.

: (Orthometric-Derived Orthometric Heights in the Database)

NonLeveling-Derived Orthometric and Ellipsoid Heights (Feet)

Orthometric Height			Ellipsoid (NAD83) Height			Project Info	
Height	Acc	Order (!Class)	Year	Acc	Year	Year	Reference
1216.435	.022	2007	2007	0.022	2007	2007	GPS2300
1216.467	.049	1996	1996	0.049	1996	2003	GPS1687

Determination Method

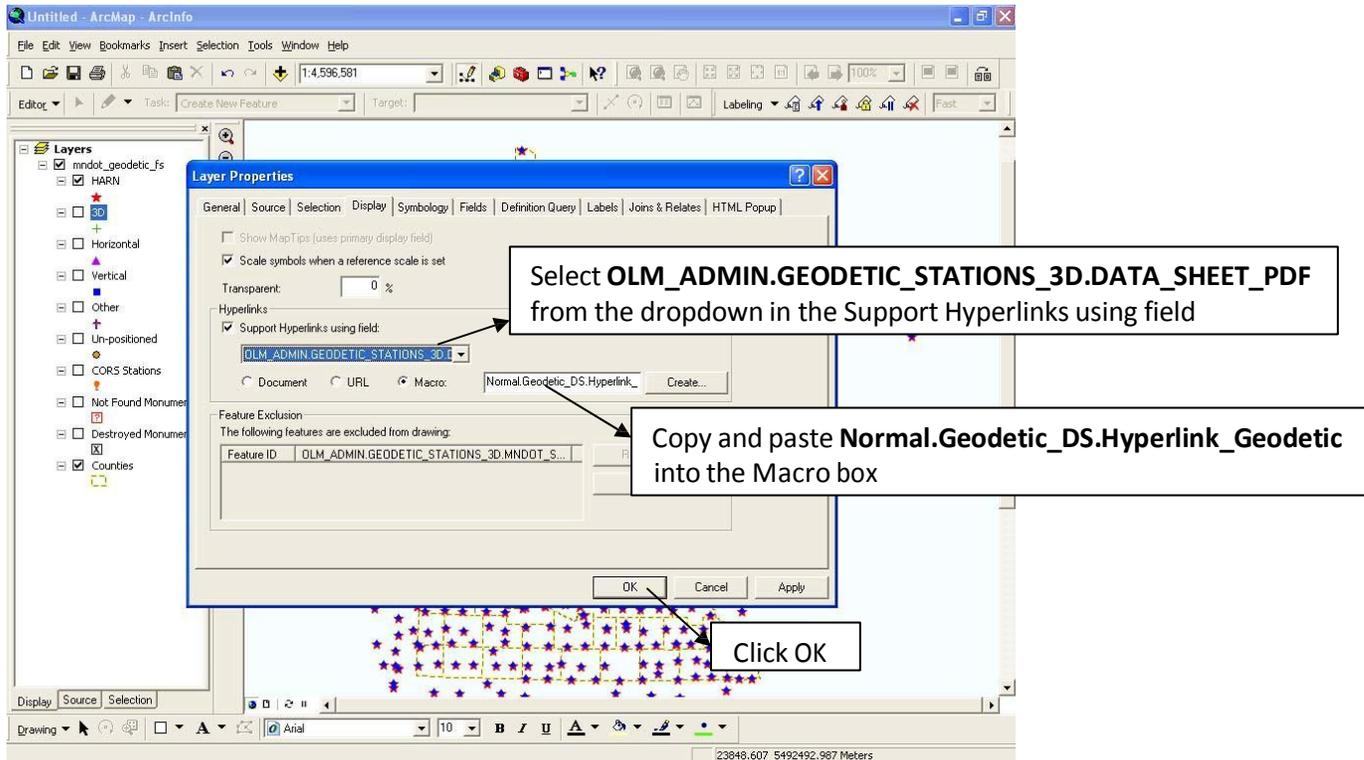
Geoid Separations: GEOID09 = -82.254 GEOID03 = -82.202

Lat/Lon and County Coordinates (Feet)

Done

9. Hyperlinks need to be established in the remaining geodetic point layers (3D, Horizontal, Vertical, Other, Un-positioned, CORS Stations, Not Found Monuments, and Destroyed Monuments). As the Macro has been established in the Normal template, the hyperlinks **only** need to be set up in the properties of the remaining layers that will make reference to the established module.

For example, in the 3D layer properties:



10. Repeat step 9 for the remaining layers

Keep in mind that the field for the **Support Hyperlinks using field** dropdown should be used in the corresponding layers:

Horizontal = **OLM_ADMIN_GEODETIC_STATIONS_HORIZ.DATA_SHEET_PDF**

Vertical = **OLM_ADMIN_GEODETIC_STATIONS_VERT.DATA_SHEET_PDF**

Other = **OLM_ADMIN_GEODETIC_STATIONS_OTHER.DATA_SHEET_PDF**

Un-positioned = **OLM_ADMIN_GEODETIC_STATIONS_UNPOS.DATA_SHEET_PDF**

CORS Stations = **OLM_ADMIN_GEODETIC_STATIONS_CORS.DATA_SHEET_PDF**

Not Found Monuments = **OLM_ADMIN_GEODETIC_STATIONS_NOT_FOUND.DATA_SHEET_PDF**

Destroyed Monuments = **OLM_ADMIN_GEODETIC_STATIONS_DEST.DATA_SHEET_PDF**

The Macro should remain the same for each layer by copying and pasting **Normal.Geodetic_DS.Hyperlink_Geodetic** into the Macro box of each layer.