Using AutoCAD Products
To Access the NH GRANIT Web Map Services (WMS):

Map 3D 2009
Civil 3D 2009
Land Desktop 2009

Open up an AutoCAD Map 3D 2009 (Map 3D), AutoCAD Civil 3D 2009 (Civil 3D), or AutoCAD Civil 3D Land Desktop Companion 2009 (Land Desktop) session. (Civil 3D and Land Desktop products both contain the AutoCAD Map 3D features.)

**Step 1. Set the drawing’s coordinate system zone and units**

**Map 3D:**
- Select **Map → Tools → Assign Global Coordinate System** to display the Assign Global Coordinate System dialog.
- In the Assign Global Coordinate System dialog, click the Select Coordinate System button to display the Select Global Coordinate System dialog.
- In the Select Global Coordinate System dialog, select “USA, New Hampshire” from the Category drop-list.
- In the Coordinate Systems in Category list, select “NAD83 New Hampshire State Planes, US Foot”.

![Select Global Coordinate System dialog](image.png)
Civil 3D:

- Perform the same steps as AutoCAD Map 3D or select the Settings tab of the Toolspace window.
- In the Settings tab, select the root <Drawing> node and right-click ➔ Edit Drawing Settings to display the Drawing Settings dialog.
- In the Drawing Settings dialog, select the Units and Zone tab.
- In the Zone group box, select “USA, New Hampshire” from the Categories drop list.
- From the Available coordinate systems drop list, select “NAD83 New Hampshire State Planes, US Foot”.

Land Desktop:

- Perform the same steps as AutoCAD Map 3D or select Projects ➔ Edit Drawing Setup to display the Drawing Setup dialog.
- In the Drawing Setup dialog, select the Zone tab.
- In the Zone tab, select “USA, New Hampshire” from the Categories drop list.
- In the Available Coordinate Systems list, select “NAD83 New Hampshire State Planes, US Foot”.

Step 2. Connect to the GRANIT Web Map Service (WMS)

- Go to the GRANIT website: [http://www.granit.unh.edu/](http://www.granit.unh.edu/)
- Select “Online Maps & Services” from the Data navigation bar.
- Select “Web Map Service (WMS)”.
- Highlight the URL that you wish to use. For example,

**2005 1-Foot Color Aerial Photos for Southeast New Hampshire**
URL: [http://geoservenh.sr.unh.edu/ArcGIS/services/2005_DOT_SENH_1FT_RGB/MapServer/WMSServer](http://geoservenh.sr.unh.edu/ArcGIS/services/2005_DOT_SENH_1FT_RGB/MapServer/WMSServer)

Map 3D/Civil 3D/Land Desktop:

- If the AutoCAD Map 3D Task Pane window is not visible, type “MAPWSPACE” at the AutoCAD Command Line.

- In the Task Pane window, select the Display Manager tab.
- In the Display Manager tab, select **Data button** ➔ **Connect to Data** to display the Data Connect window.
• In the Data Connect window, select “Add WMS Connection” from the Data Connections by Provider list.

• In the Connection name field, enter the name of the connection, such as “2005 1-Foot Color Aerial Photos for Southeast New Hampshire”, or accept the default “WMS_1”.

• In the Server name or URL field, copy-paste the appropriate URL from the GRANIT Web Map Service (WMS) web page.

• In the Version drop list, select 1.3.0.

• Select the Connect button to make the WMS connection.

  NOTE: A User Name & Password dialog box is displayed. Select the Login button to proceed, as no user name or password is required.

• The Add Data to Map category is displayed in the Data Connect window when the connection is made. In the Available sources in this connection… list view, expand the WMS_Schema/Layers node (expanded by default), then select the layer name to add to the drawing.

  NOTE: If you don’t see the WMS_Schema data, you need to expand the height of the Data Connect window.
• Select the *Add to Map* button to place the imagery in the Map 3D/Civil 3D/Land Desktop drawing session.

The imagery will appear in your drawing as shown below:
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