MONTANA
Department of Transportation

Project Development & Delivery - Digital Design and Modeling Services

Support Guide

Application/Tool(s):	MicroStation V8i SS10 / Power GEOPAK V8i SS10
Version(s):	08.11.09.918
Environment:	OpenRoads (Enhanced) Workspace
Released/Revised:	11/18/2024



SUPPORT
Open a Case

NAIP TIF IMAGERY FOR BENTLEY PROJECTS

ISSUE:

Displaying aerial imagery for projects designed in MicroStation / Power GEOPAK v8i SS10 comes with limitations. Montana State Library Web Mapping Services (WMS) are heavily relied on for MDT MicroStation / Power GEOPAK v8i SS10 projects but aren't always reliable with plans production processes.

SOLUTION:

Aerial images may be requested from the Montana State Library in TIF format and attached to design files as a solution for displaying aerial images.

PROCEDURE:

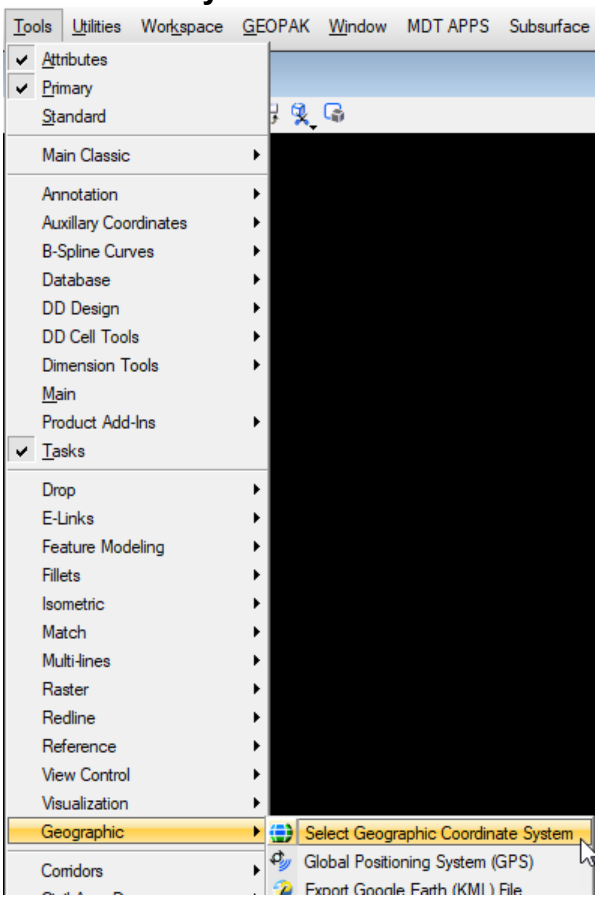
1) Download and extract the collection of shape files for the desired year of imagery from the **Montana State Library** website.
   https://msl.mt.gov/geoinfo/data/Aerial_Photos/Ordering

   a. Once downloaded, navigate to the **Downloads** directory within **File Explorer**.

   b. Right-click and choose **Extract All…**, selecting any temporary location.

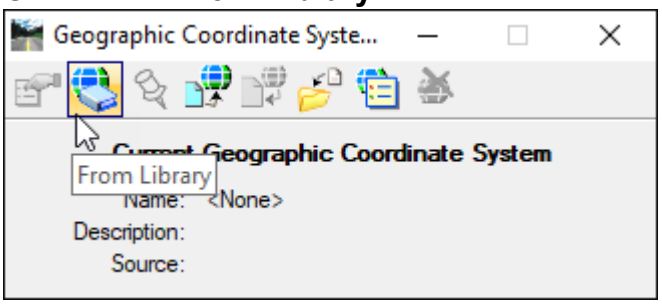
2) With the DGN mapping file open in MicroStation / Power GEOPAK, set the Geographic Coordinate System, if not already set, as follows:

   a. From the MicroStation **Tools** menu, choose **Geographic** > **Select Geographic Coordinate System**.*



*Alternatively accessed by choosing **Tools** > **Tool Boxes** and checking **Geographic**, then selecting **Select Geographic Coordinate System** from the Geographic tool bar.

b. Choose the **From Library** icon.



c) Follow the following path to select the appropriate coordinate system:

(Projected (northing, easting, …) >

North America >

United States of America >

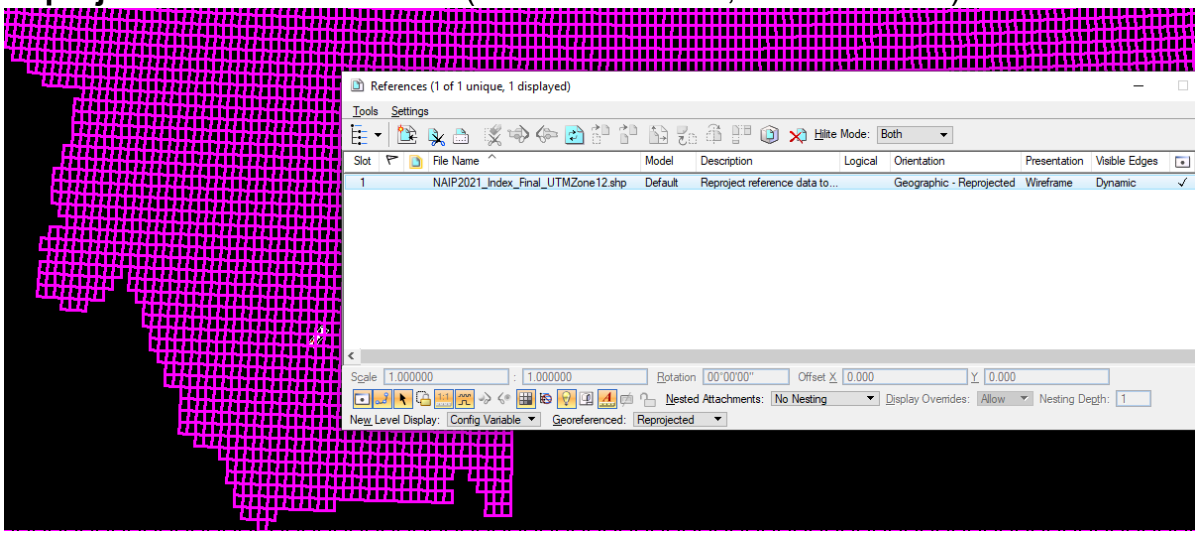
Montana > MT83IF – NAD83 Montana State Planes, International Foot

OR

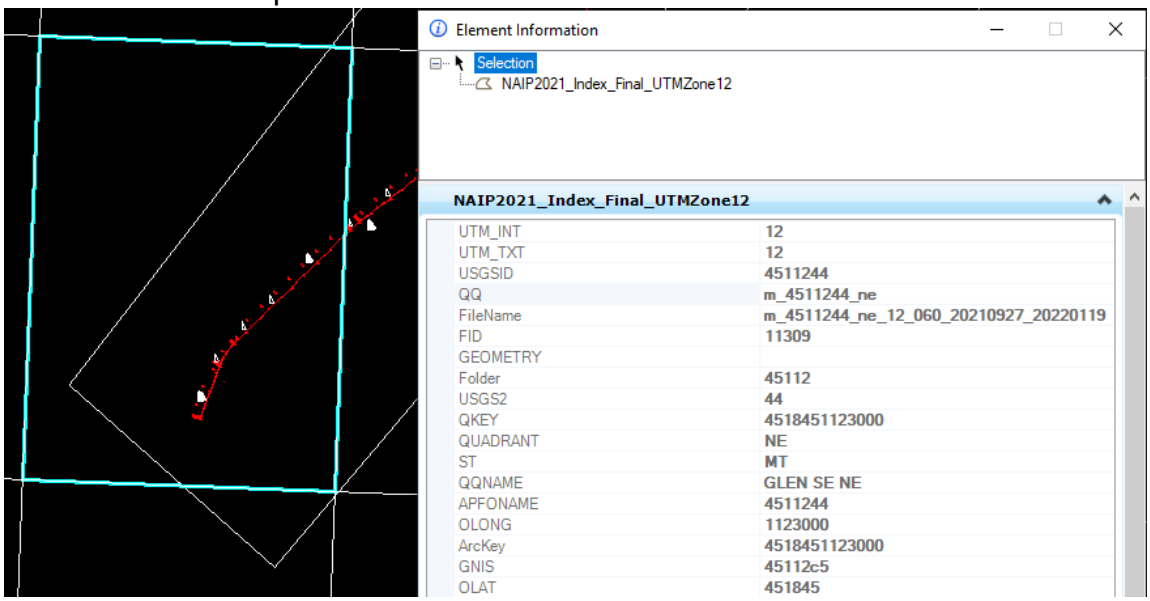
MT83/2011IF – NAD83/2011 Montana State Planes, International Foot

d) Choose **Ok**.

3) Continuing with the DGN mapping file open in MicroStation / Power GEOPAK, Reference the final index SHP file into the DGN mapping file using **Geographic – Reprojected** for the orientation. (File > References, Tools > Attach).



4) Select the shape(s) for the tiles within the project area and open **Element Information** (Ctrl+I). Note the tile information of the shape(s) or screen shot to include with the request.



5) Detach the final index SHP file.

6) Submit a GIS Information Help and Assistance Support Ticket requesting the TIF files be sent to you via the State of Montana File Transfer Service using the information previously captured from the shape(s). See the example request below.

GIS Information Help and Assistance - https://msl.mt.gov/geoinfo/Help/

State of Montana File Transfer Service - https://transfer.mt.gov/Home/Login

From: MSL Service Desk <MSLServiceDesk@service.mt.gov>
Sent: [redacted]
To: [redacted]
Subject: Case [redacted] has been opened - GeoInfo Help and IT Assistance request submitted by [redacted] (General Problem or Inquiry)

Your case has been created, click here to view the case: LINK
Subject: GeoInfo Help and IT Assistance request submitted by [redacted] (General Problem or Inquiry)
Description: Name: [redacted]
Email: [redacted]
Phone #: [redacted]
Organization: Montana Department of Transportation
What you need help with: General Problem or Inquiry
Device problem was on: Desktop
Web browser being used: Other (please specify in description above)

Please send the three 2021 aerial imagery tiff files via the State File Transfer Service per the attached screen captures for use on project [redacted]. Thank you!

7) Once the TIF files are received, rename the files following PCMS naming standards using File Class “PIF”, e.g. 12345000RDPIF001.tif. They will need to be uploaded to PCMS.

8) From the Raster Manager, attach the renamed TIF files.

   See “Handling Rasters with PCMS” to properly reference the TIF files to MicroStation / Power GEOPAK drawings.