

# CDOT Importing gINT Project Data



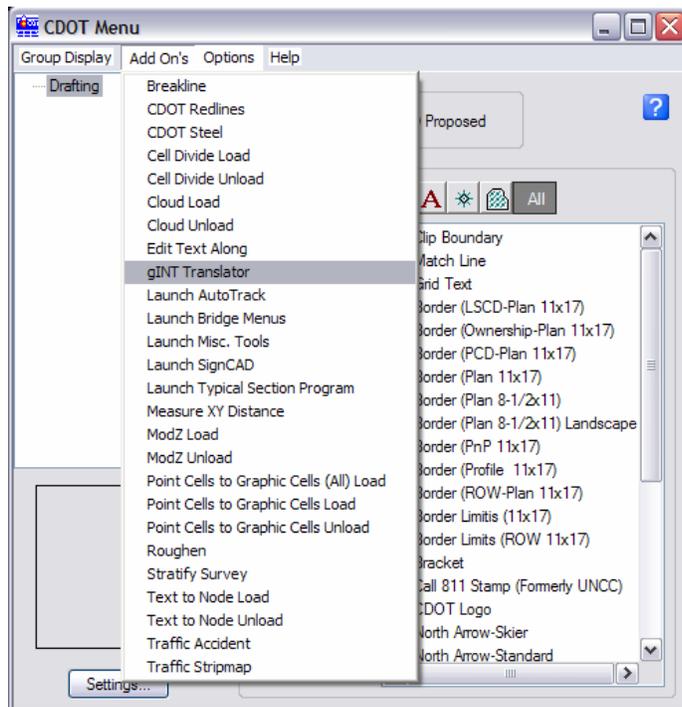
This document is designed to serve as a guide for importing data from gINT project files (.gpj files) into MicroStation. The **gINT Translator/Import** tool is designed to place the selected bore hole points in a MicroStation design file, plot the hole profiles along with a corresponding grid, and place the sheet border with legend items. Using the **Automatic** fit option the drawing and graph (bore hole profile and grid) scales, view rotation, and sheet legend position will be calculated based on the range of the points selected. These settings can be overridden by using the **Manual** fit option. No matter what fit options are used the point locations are plotted in their true geographic position. The gINT software is not required to run this utility.

## Creating a new file

1. From the MicroStation pull-down menu select **File > New**. The **New** dialog will appear.
2. Navigate to the project directory folder **Drawings** by double clicking the directory folders.
3. At the bottom of the dialog box verify that the seed file is set to **3D-Seed\_CDOT.dgn**.
4. Enter the name of the file to create and <D> **OK**.

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5. From the CDOT Menu, select **Add On's > gINT Translator**.



## CDOT Importing gINT Project Data

- From the **gINT Import** dialog <D> **Open Project** button and select the gINT project file (.gpj file) to import.

The screenshot shows the 'gINT Import' dialog box. The 'gINT Project' section contains fields for Name, Location, Route, Project Num, County, and Code. The 'Points' section includes a Point ID dropdown menu, Date Drilled, Northing, Easting, Elevation, Lithology Points, Sample Points, and Hole Depth. The 'Display Parameters' section features a 'Points to Display' list and a 'Select All' button. The 'Graph Display' section has 'Fit Options' (Automatic/Manual), Drawing Scale, Lock Drawing Scale, Graph Scale, and Rotation (None/Fixed/Angle). The 'Legend Notes' section includes a checked 'Place Sheet Border' option and 'Boulder Note'/'Ground Water Note' options. The 'Open Project', 'OK', and 'Cancel' buttons are located at the bottom.

- The left side of the dialog displays information about the opened project file. Selecting the different points from the **Point ID** drop-down list will display the Northing, Easting, Elevation, etc. about that point in the appropriate fields in the **Points** area.

The screenshot shows the 'gINT Import' dialog box with data populated. The 'gINT Project' section shows Name: 'US 34: Upper Big Thompson River Bridges', Location: 'Estes Park', Route: 'US 34', Project Num: 'BR 0341-068', County: 'Larimer', and Code: '15548'. The 'Points' section shows Point ID: '1', Date Drilled: '4/17/2007', Northing: '69647', Easting: '55858', Elevation: '7372.3', Lithology Points: '5', Sample Points: '5', and Hole Depth: '24'. The 'Display Parameters' section shows a list of points 1 through 5 and a 'Select All' button. The 'Graph Display' and 'Legend Notes' sections are the same as in the previous screenshot.

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- The right side of the dialog is used to make display selections. In the **Points to Display** list select one or more points to import in to the design file. You may also **<D> Select All** button to select all the points in the list.

The screenshot shows the 'gINT Import' dialog box. The 'gINT Project' section contains fields for Project ID (Name: US 34: Upper Big Thompson River Bridges, Location: Estes Park, Route: US 34, Project Num: BR 0341-068, County: Larimer, Code: 15548). The 'Points' section shows Point ID: 1, Date Drilled: 4/17/2007, Northing: 69647, Easting: 55858, Elevation: 7372.3, Lithology Points: 5, Sample Points: 5, and Hole Depth: 24. The 'Display Parameters' section has a 'Points to Display' list with items 1, 2, 3, 4, and 5. A 'Select All' button is below the list. The 'Prefix' field is empty. The 'Graph Display' section has 'Fit Options' (Automatic selected, Manual unselected), 'Drawing Scale: 100', 'Lock Drawing Scale' (unchecked), 'Graph Scale: 5', 'Rotation' (None selected, Fixed unselected, Angle: 0), and 'Sheet Legend Position' (Bottom selected, Left unselected). The 'Legend Notes' section has 'Place Sheet Border' (checked), 'Boulder Note' (selected), and 'Ground Water Note' (unselected). 'Open Project', 'OK', and 'Cancel' buttons are at the bottom.

- In the **Prefix** field, enter a label to be placed in front of the point ID. The field may be left blank if no prefix will be used.

This screenshot is identical to the previous one, but the 'Prefix' field in the 'Display Parameters' section now contains the text 'TH'.

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10. The **Automatic** Fit Option will calculate the best fit based on the range of the points selected. Selecting the **Manual** option will enable the grayed out fields for you to enter your own values.

The screenshot shows the 'gINT Import' dialog box. The 'Project ID' section contains: Name: US 34: Upper Big Thompson River Bridges, Location: Estes Park, Route: US 34, Project Num: BR 0341-068, County: Larimer, Code: 15548. The 'Points' section contains: Point ID: 1, Date Drilled: 4/17/2007, Northing: 69647, Lithology Points: 5, Easting: 55858, Sample Points: 5, Elevation: 7372.3, Hole Depth: 24. The 'Display Parameters' section contains: Points to Display (list 1-5), Select All button, Prefix: TH, and a checked 'Place Sheet Border' checkbox. The 'Graph Display' section contains: Fit Options (Automatic selected, Manual unselected), Drawing Scale: 100, Lock Drawing Scale (unchecked), Graph Scale: 5, Rotation (None selected, Fixed unselected, Angle: 0), and Sheet Legend Position (Bottom selected, Left unselected). The 'Legend Notes' section contains: Boulder Note (selected), Ground Water Note (unselected). Buttons for 'Open Project', 'OK', and 'Cancel' are visible.

11. The **Drawing Scale** will default to the active scale of the design file. The **Automatic** fit option will readjust the scale to best fit the points selected. If you do not want the scale to be adjusted select the **Lock Drawing Scale** check box.

This screenshot is identical to the one above, but with a black box highlighting the 'Lock Drawing Scale' checkbox in the 'Graph Display' section, which is now checked. The 'Automatic' radio button remains selected.

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- The bottom portion of the *Display Parameters* section of the dialog is for the sheet border related items. By default the **Place Sheet Border** checkbox will be selected. You may also select the automatic placement of the **Boulder Note** or **Ground Water Note** if it is required.

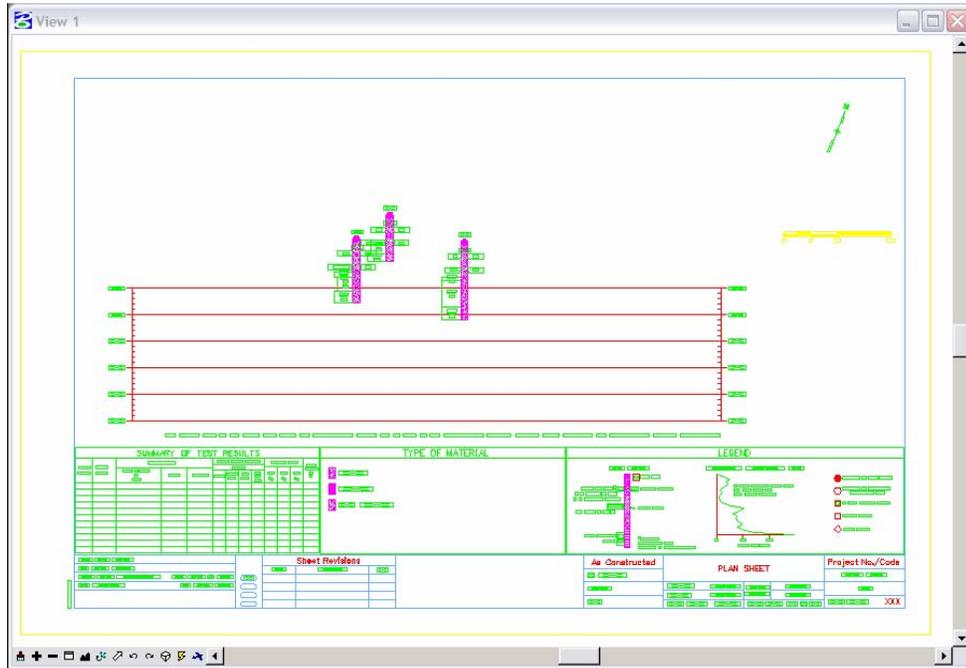
The screenshot shows the 'gINT Import' dialog box. The 'Display Parameters' section at the bottom right contains a red box highlighting the 'Place Sheet Border' checkbox (which is checked) and the 'Legend Notes' section. The 'Legend Notes' section has two radio buttons: 'Boulder Note' and 'Ground Water Note'. The 'gINT Project' section contains fields for Name, Location, Route, Project Num, County, and Code. The 'Points' section contains fields for Point ID, Date Drilled, Northing, Easting, Elevation, Lithology Points, Sample Points, and Hole Depth. The 'Graph Display' section contains 'Fit Options' (Automatic/Manual), 'Drawing Scale', 'Lock Drawing Scale', 'Graph Scale', and 'Rotation' (None/Fixed) with an 'Angle' field. The 'Sheet Legend Position' section has 'Bottom' and 'Left' radio buttons. The 'Open Project', 'OK', and 'Cancel' buttons are also visible.

- Once all of the selections have been made <D> **OK** to place the items in the design file.
- When the processing is completed the **gINT Import Summary** dialog box will appear displaying the range values of the selected points and the fit parameters. <D> **OK** to dismiss this dialog and exit the utility.

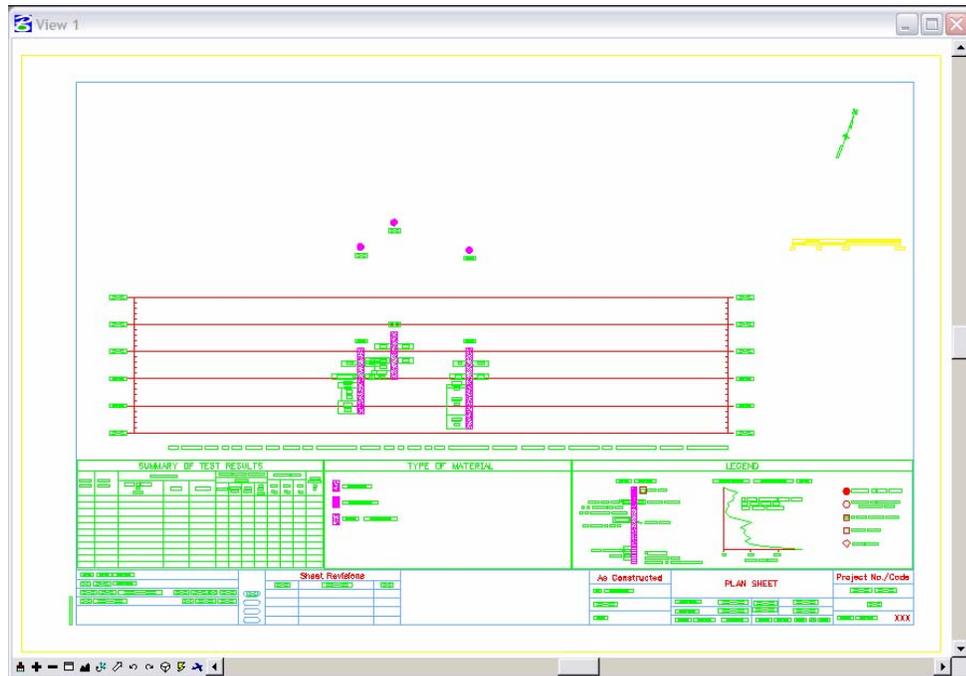
The screenshot shows the 'gINT Import Summary' dialog box. It displays the following information: Drawing scale: 100, Graph scale: 5, Data Orientation: 18.524895027703 degrees, Data Range X: 191 feet, Data Range Y: 64 feet, Data Range Z: 3.80000000000018 feet, Hole Depth Range: 12 feet, View Rotation Angle: -20 degrees, and Border Position = Bottom. An OK button is located at the bottom center.

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15. For many data sets the bore hole profile plots may be positioned on the bore hole point instead of the grid.



16. In these cases you will need to manually move the bore hole profile bar down to the correct position on the grid. The profile bar, top label, and side labels are all a single graphic group. With the **Graphic Group Lock** on you will be able to reposition it as a single element.



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17. The items placed in the *Type of Material* legend will reflect those found in the bore hole profile plots.



18. If the initial program run gives unsatisfactory results, all the elements in the design file may be deleted and the utility run again. Better results may be obtained by selecting a different set of points and/or using the **Manual** fit options.