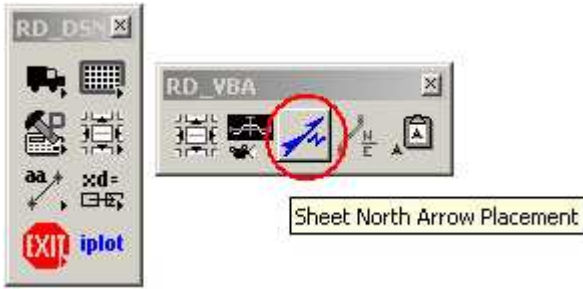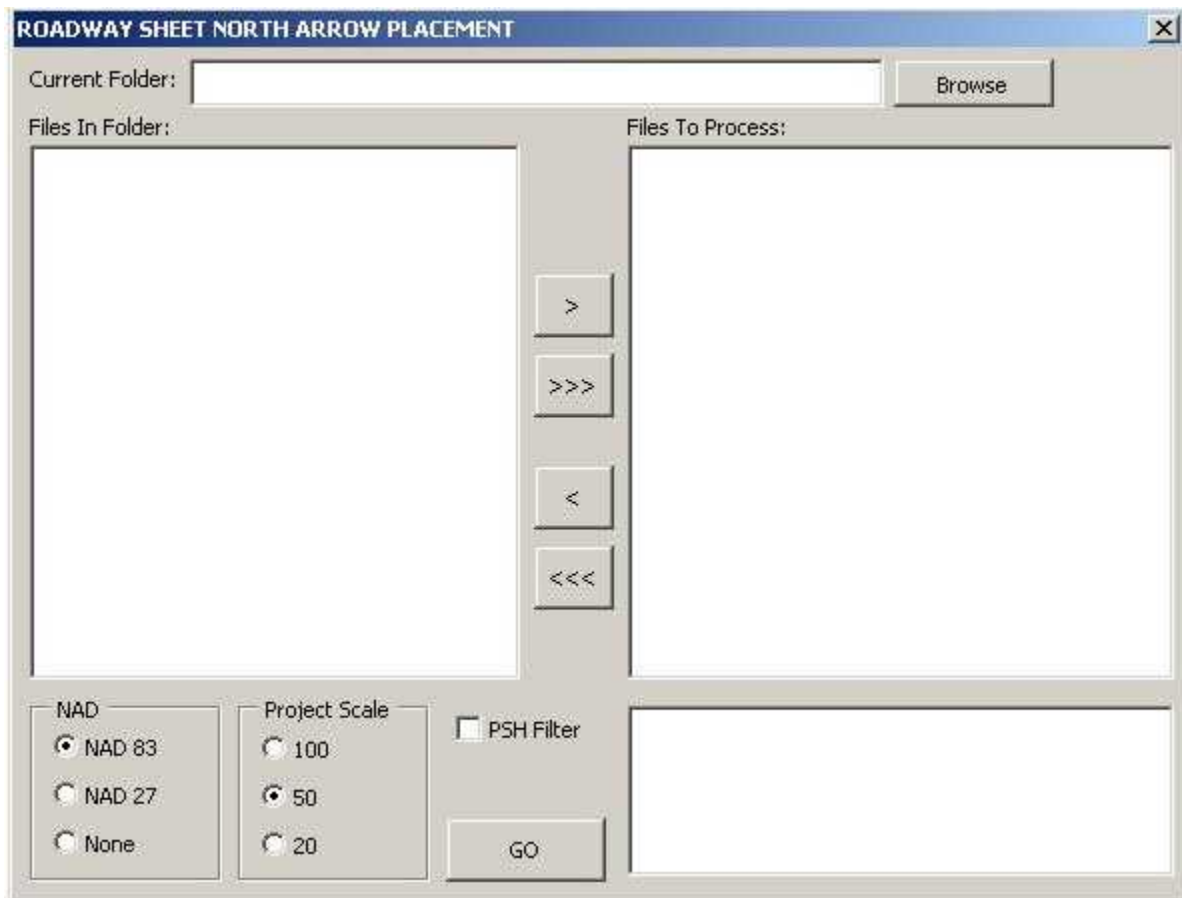# SHEET NORTH ARROW PLACEMENT

**Activation**
The program can be launch from the RD_DSN toolbox. through the RD_DSN tool frame, RD_VBA tool family.



**Initial State**



**Current Folder**
After the application has been loaded, click on the Browse button to select the location of the folder where the plan sheet files (PSH) are. Notice the messages in the lower left corner that will guide you through the program.



**Files In Folder**
These are the list of Microstation DGN files found under the Current Folder selection.

**Files To Process**

Microstation DGN files to place the north arrow cell in. Mostly Roadway Plan Sheet files (PSH).

**Move Selected Files for Processing**
Selected files in the Files In Folder list will be moved to the Files To Process list.

**Move All Files for Processing**
All files in the Files In Folder list will be moved to the Files To Process list.

**Remove Selected Files from Processing**
Selected files in the Files To Process list will be moved to the Files In Folder list.

**Remove All Files from Processing**
All files in the Files To Process list will be moved to the Files In Folder list.

Note that double clicking on a file will also move the file from one list to the other list.

**NAD - North American Datum MSL Datum Year**
North arrow cell to be placed.

- NAD83 (1983)
- NAD27 (1927)
- None (North arrow cell with no NAD designation)

**Project Scale**
Determine the size of north arrow cells. Project scale is equavilent to plot scale at full size plan sheets (22"x34").
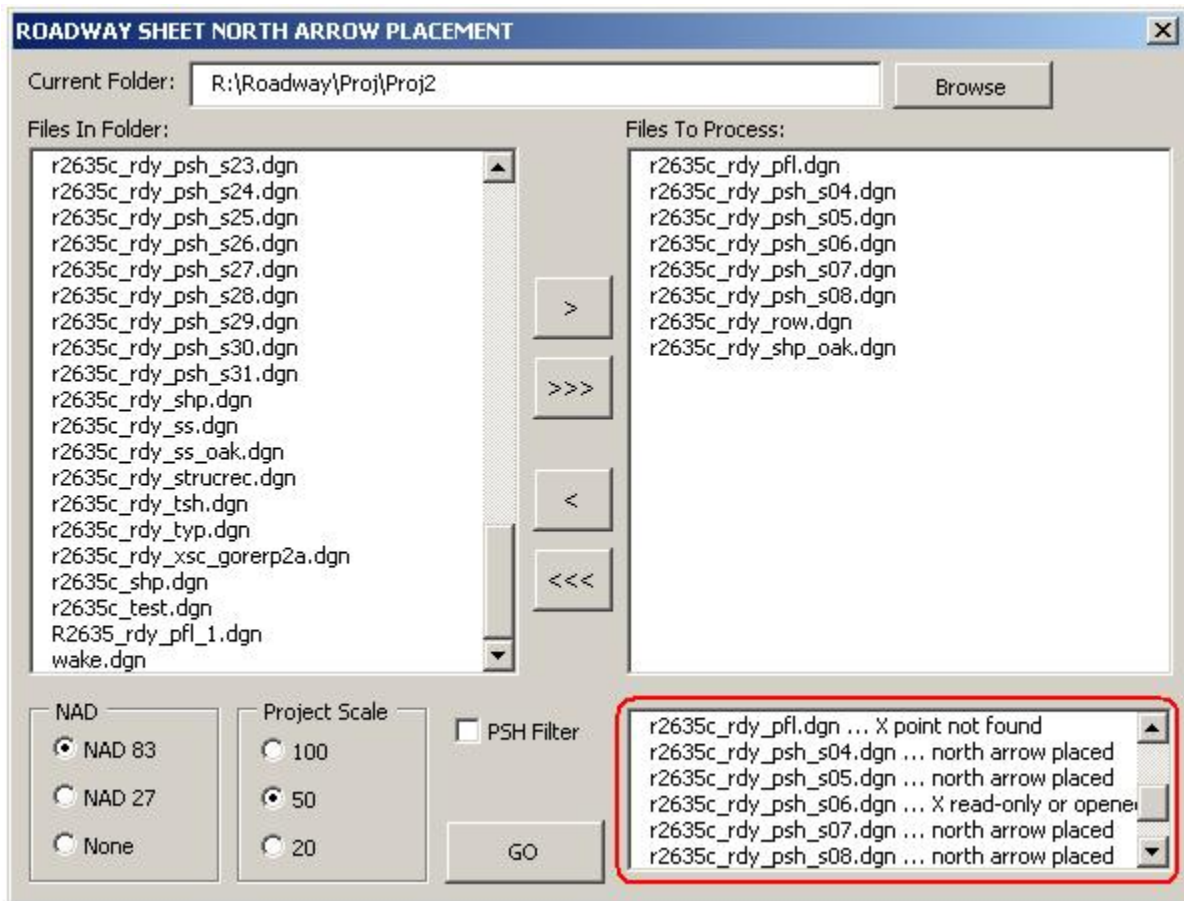
**PSH Filter**
Toggle to display only Roadway plan sheet (PSH) file type files in the Files In Folder list (i.e. R2007_RDY_PSH_S04.DGN).
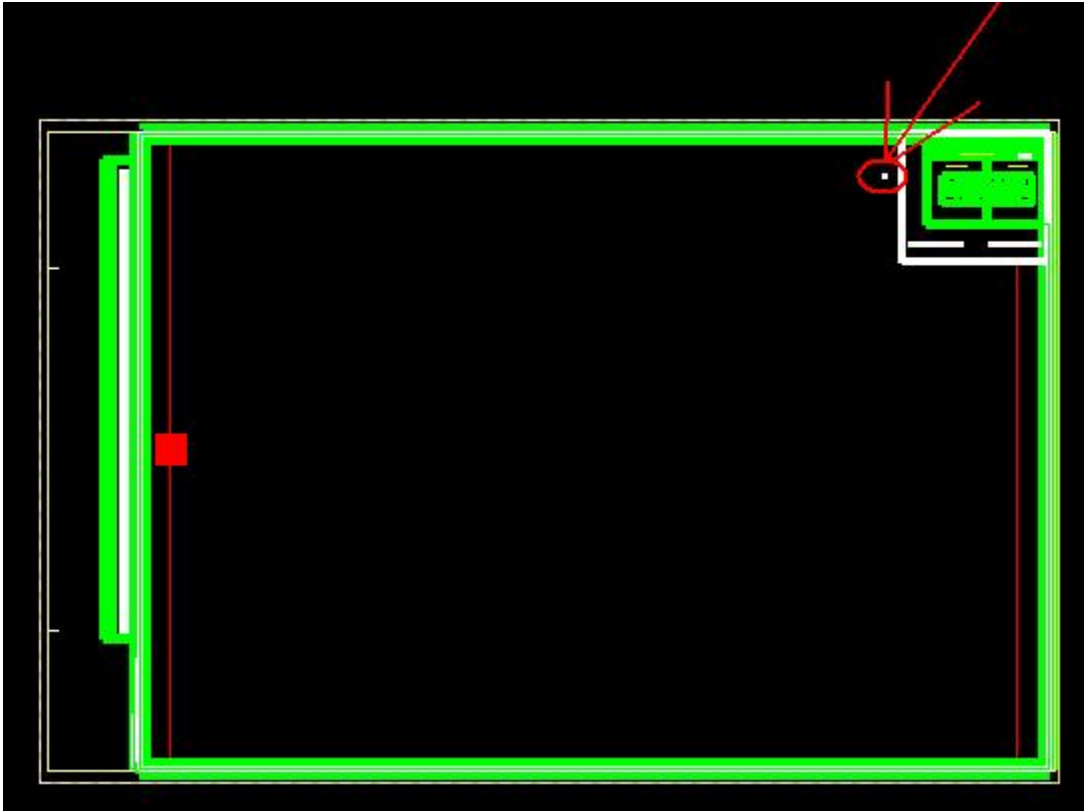
**GO**
Process all the file in the Files To Process list in order. During processing, in the lower left corner of the screen, the staus of the processing is displayed.



Once completed, the a log of the event is displayed to the right of the GO button.

**ROADWAY SHEET NORTH ARROW PLACEMENT**

Current Folder: R:\Roadway\Proj\Proj2    [Browse]

Files In Folder:

r2635c_rdy_psh_s23.dgn
r2635c_rdy_psh_s24.dgn
r2635c_rdy_psh_s25.dgn
r2635c_rdy_psh_s26.dgn
r2635c_rdy_psh_s27.dgn
r2635c_rdy_psh_s28.dgn
r2635c_rdy_psh_s29.dgn
r2635c_rdy_psh_s30.dgn
r2635c_rdy_psh_s31.dgn
r2635c_rdy_shp.dgn
r2635c_rdy_ss.dgn
r2635c_rdy_ss_oak.dgn
r2635c_rdy_strucrec.dgn
r2635c_rdy_tsh.dgn
r2635c_rdy_typ.dgn
r2635c_rdy_xsc_gorerp2a.dgn
r2635c_shp.dgn
r2635c_test.dgn
R2635_rdy_pfl_1.dgn
wake.dgn

Files To Process:

r2635c_rdy_pfl.dgn
r2635c_rdy_psh_s04.dgn
r2635c_rdy_psh_s05.dgn
r2635c_rdy_psh_s06.dgn
r2635c_rdy_psh_s07.dgn
r2635c_rdy_psh_s08.dgn
r2635c_rdy_row.dgn
r2635c_rdy_shp_oak.dgn

[ > ]   [ >>> ]   [ < ]   [ <<< ]

NAD
◉ NAD 83
○ NAD 27
○ None

Project Scale
○ 100
◉ 50
○ 20

☐ PSH Filter

[ GO ]

r2635c_rdy_pfl.dgn ... X point not found
r2635c_rdy_psh_s04.dgn ... north arrow placed
r2635c_rdy_psh_s05.dgn ... north arrow placed
r2635c_rdy_psh_s06.dgn ... X read-only or opene
r2635c_rdy_psh_s07.dgn ... north arrow placed
r2635c_rdy_psh_s08.dgn ... north arrow placed

For each file in the list to be processed, the program will open each file and scan for a point on level "Sheet North Arrow Point CELL". The newer plan sheet cells as of February 26, 2007 will have this point located in the upper right corner.

If the file is read only or is opened, then the program will go to the next file on the list.

If the new plan sheet cell is still a cell, complex status has not been dropped, then the program will drop the complex status of the plan sheet cell once, and then continue to scan for the north arrow point.

If the new plan sheet cell complex status has already been dropped, then the program will automatically scan for the north arrow point.

If the north arrow point is found, then the appropriate north arrow cell is placed on the point once. Rotation of the north arrow is to North, or top view. The file is then saved.

If the north arrow point is not found, then no north arrow cell is placed.

The file is then closed and the program goes to the next file on the list until all files have been processed.

Note that if the Geopak Plan and Profile Sheet Layout program have been used to create the plan sheet files, for clip sheets option, use "Rotate View" for plan sheets. For profile sheets, use "Rotate Reference".