



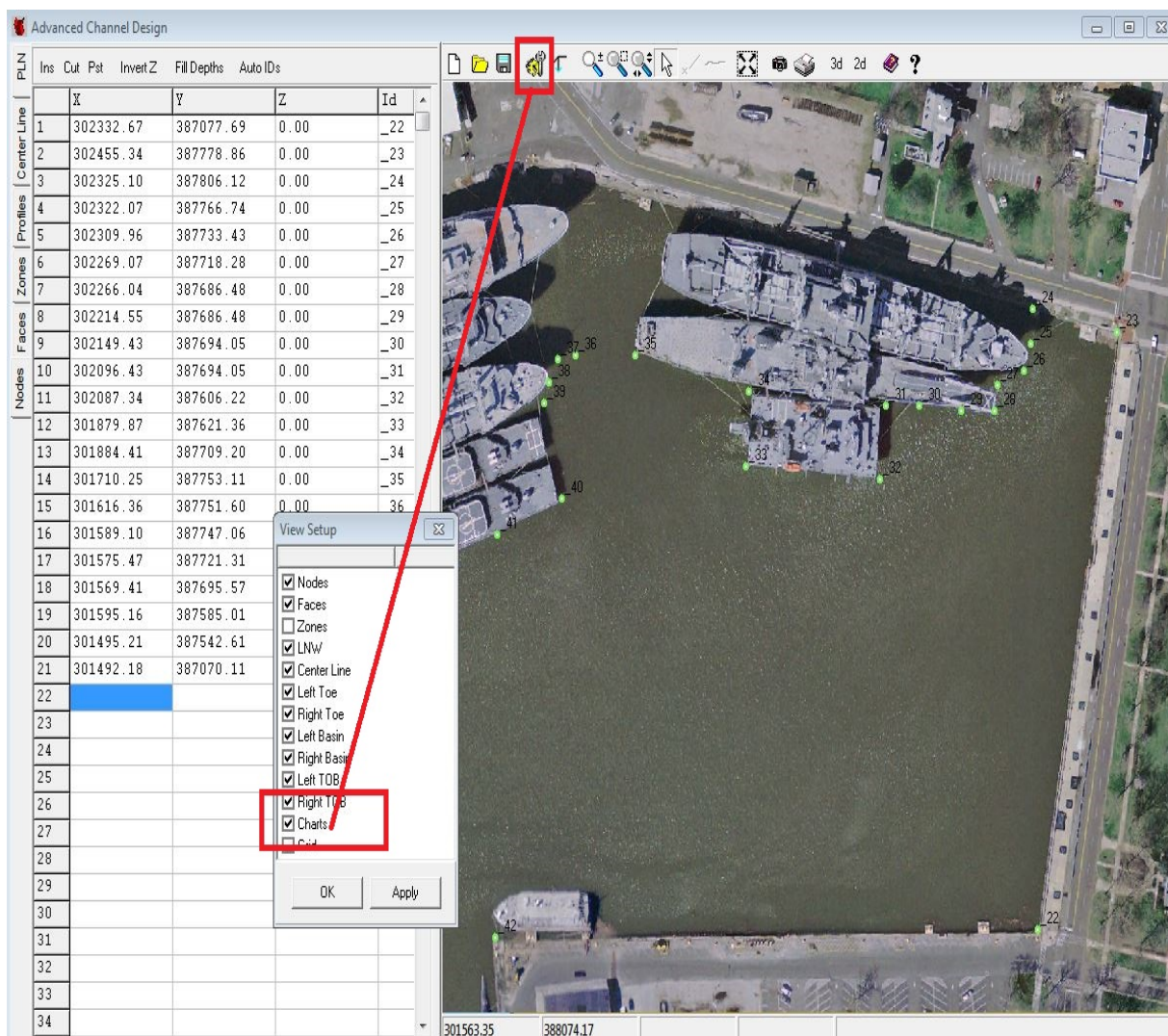
Advanced Channel Design/Background Files

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It is possible, in the ADVANCED CHANNEL DESIGN program, to create your channel with your mouse cursor and a background file that provides reference for template points.

1. **In the Nodes Tab, display your background files.** Select the Wrench and Gear icon to get into the View Setup Dialog and check the Charts option. Any background files you have enabled in the HYPACK® Shell will appear in the Channel Design Window as a frame of reference. The chart display order here honors what is in the shell.

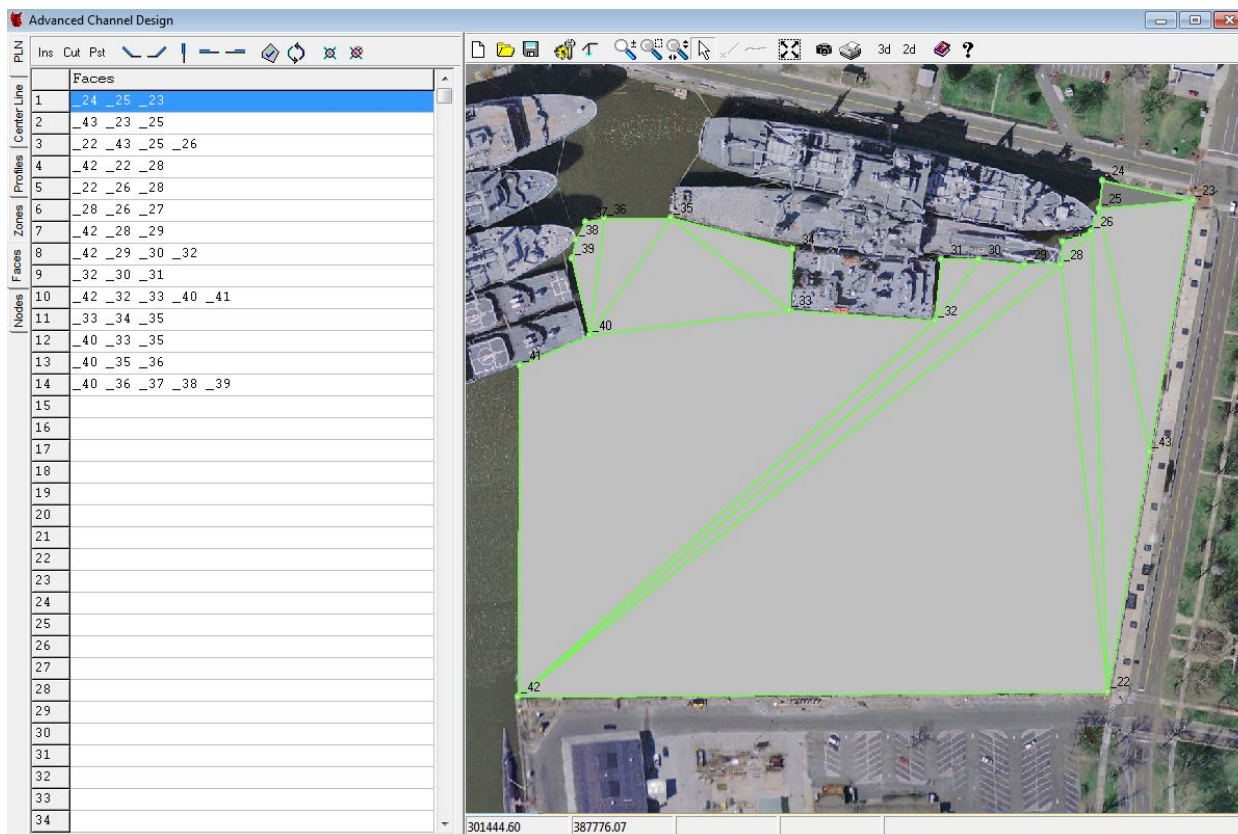
FIGURE 1. Digitized Nodes



2. **Hold the "Shift" key on your keyboard down and use the mouse to digitize your nodes for your template.** In this example, I simply clicked around the top of slope and around features in the background file to create the definition of my channel.

3. **Go to the Faces tab to connect the nodes to one another in a counter clockwise fashion.** For each face, again holding down the Shift key on the keyboard, click on each node in a counter clockwise direction.

FIGURE 2. *Creating the Faces*



4. **Generate your channel file.** In the PLN tab, click [Generate CHN]. ADVANCED CHANNEL DESIGN constructs the channel file and draws it in the design view.
5. **Save your channel file.** Click the Save icon then, in the File Save dialog, select CHN as your file type, name your file and click [Save]. The file is saved, by default, to your project folder.

Once the design is made, you can view your CHN file in the HYPACK® shell, proceed to dredge to this template surface in DREDGEPAK® or compute volumes to this surface in TIN MODEL to arrive at a Cut or Fill volume.

