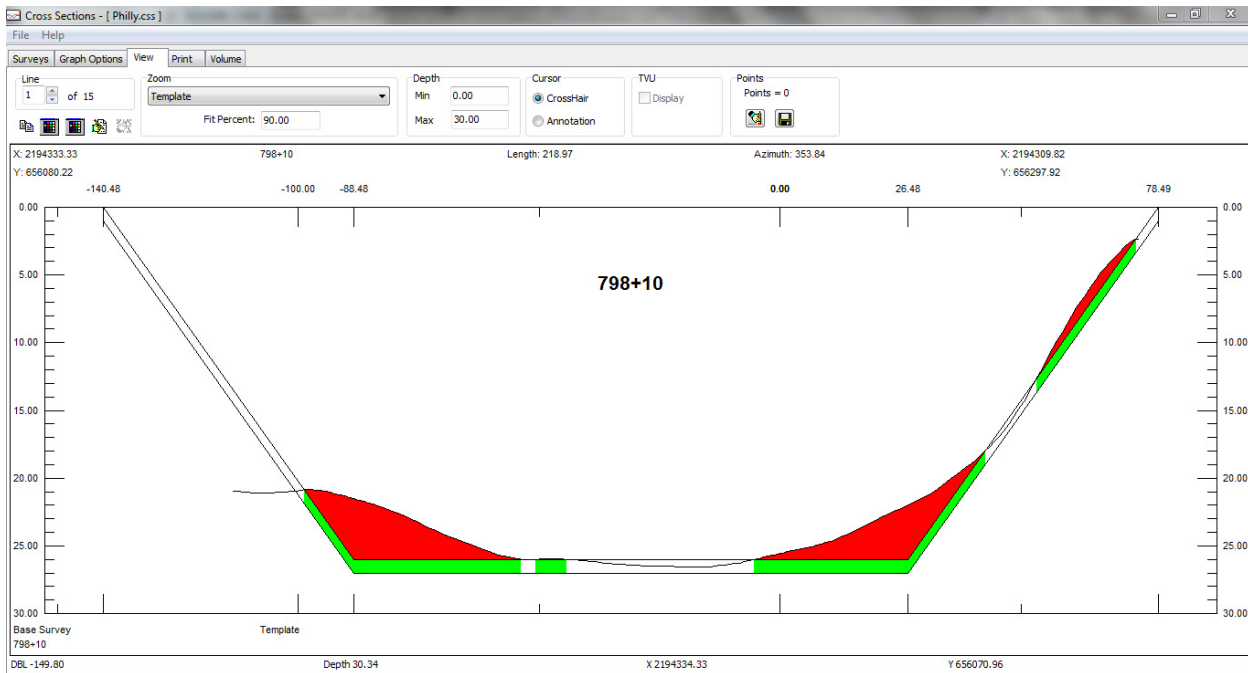




Volume Contours and Non-Contours. (Is that a thing?)

In [Figure 2](#), my overdepth stopped coloring all of the overdepth! Let's have a look at why this happens. It can have a big impact on your volume totals.

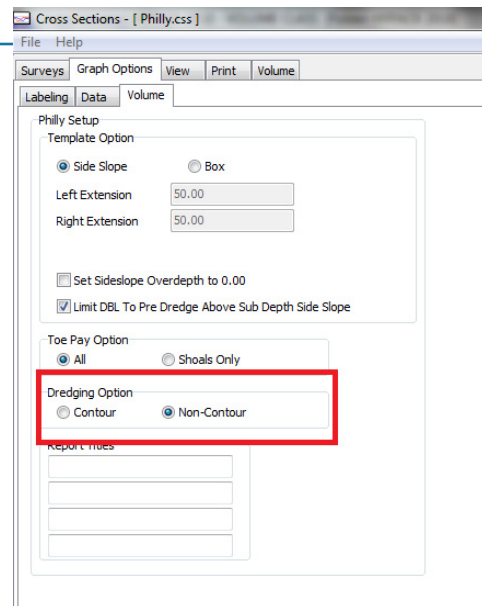
FIGURE 2. *Some Overdepth Omitted from Volumes Calculation*



Many methods have Contour and Non-Contour settings in the Graph Options-Volume Tab.

FIGURE 3. *Contour and Non-Contour Settings*

Remember what contouring does to the overdepth. Contouring is making the overdepth available and payable only if there is material directly above it and above the design. Value engineering some say!



Now let's look at the volume totals:

FIGURE 4. Non-Contour Volumes

Office Engineering Section, Survey Branch Run: 9/12/2018 9:40:46 PM			
<u>Dredging Quantities Summary</u>			
Materials	Gross Material	Infill	Net Material
Total Removed To Project Depth	958.99	0.00	958.99
Total Pay Removed In Overdepth	602.32	0.00	602.32
Total Pay Removed	1561.31	0.00	1561.31
Total Removed	1561.31	33.11	1528.20
Total Remaining Above Project Depth ..	0.00		0.00
Total Overdredged Material	0.00	33.11	-33.11
Total Infill Material		33.11	
Philadelphia Options			
Template Option		Side Slope	
Set Sideslope Overdepth to 0.00		false	
Limit DBL To Pre Dredge Above Sub Depth Side Slope		true	
Toe Pay Option		All	
Dredging Option		Non-Contour	
Set Project Depth		false	

FIGURE 5. Contour Volumes

Office Engineering Section, Survey Branch Run: 9/12/2018 9:40:25 PM			
<u>Dredging Quantities Summary</u>			
Materials	Gross Material	Infill	Net Material
Total Removed To Project Depth	958.99	0.00	958.99
Total Pay Removed In Overdepth	486.48	0.00	486.48
Total Pay Removed	1445.47	0.00	1445.47
Total Removed	1445.47	33.11	1412.36
Total Remaining Above Project Depth ..	0.00		0.00
Total Overdredged Material	0.00	33.11	-33.11
Total Infill Material		33.11	
Philadelphia Options			
Template Option		Side Slope	
Set Sideslope Overdepth to 0.00		false	
Limit DBL To Pre Dredge Above Sub Depth Side Slope		true	
Toe Pay Option		All	
Dredging Option		Contour	
Set Project Depth		false	

My overdepth dropped 116 cubic yards in an instant! This is only 110 feet of a channel 217 feet wide. What if the channel was a mile long and 500 feet wide? That's a ton of volume and cash!