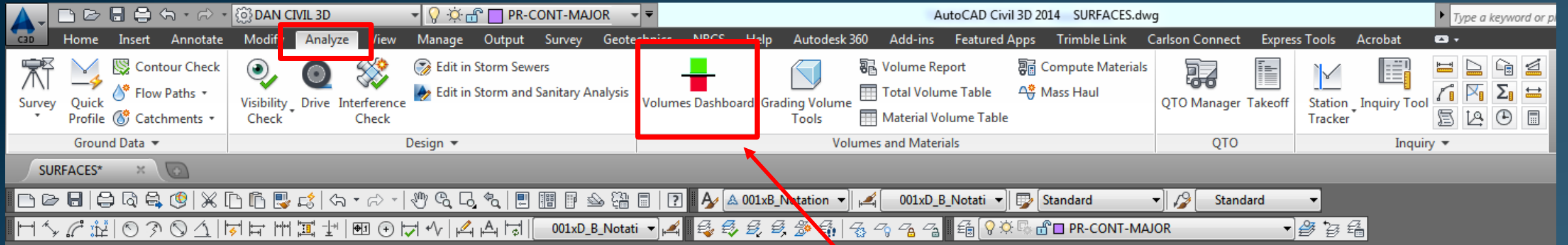


Cut/Fill

Now that you have an Existing Surface and a Proposed Surface created, you can now compare the two to come up with your volumes.



► Analyze Tab>Volume Dashboard...Click on this

▶ Panorama opens up for the Cut/Fill Dashboard

otate Modify Analyze View Manage Output Survey Geotechnics NRCS Help Autodesk 360 Add-ins Featured Apps Trimble Link Carlson Connect Express Tools Acrobat

check Visibility Check Drive Interference Check Edit in Storm Sewers Edit in Storm and Sanitary Analysis Volumes Dashboard Grading Volume Tools Volume Report Total Volume Table Material Volume Table Compute Materials Mass Haul QTO Manager Takeoff Station Inquiry Tool Tracker

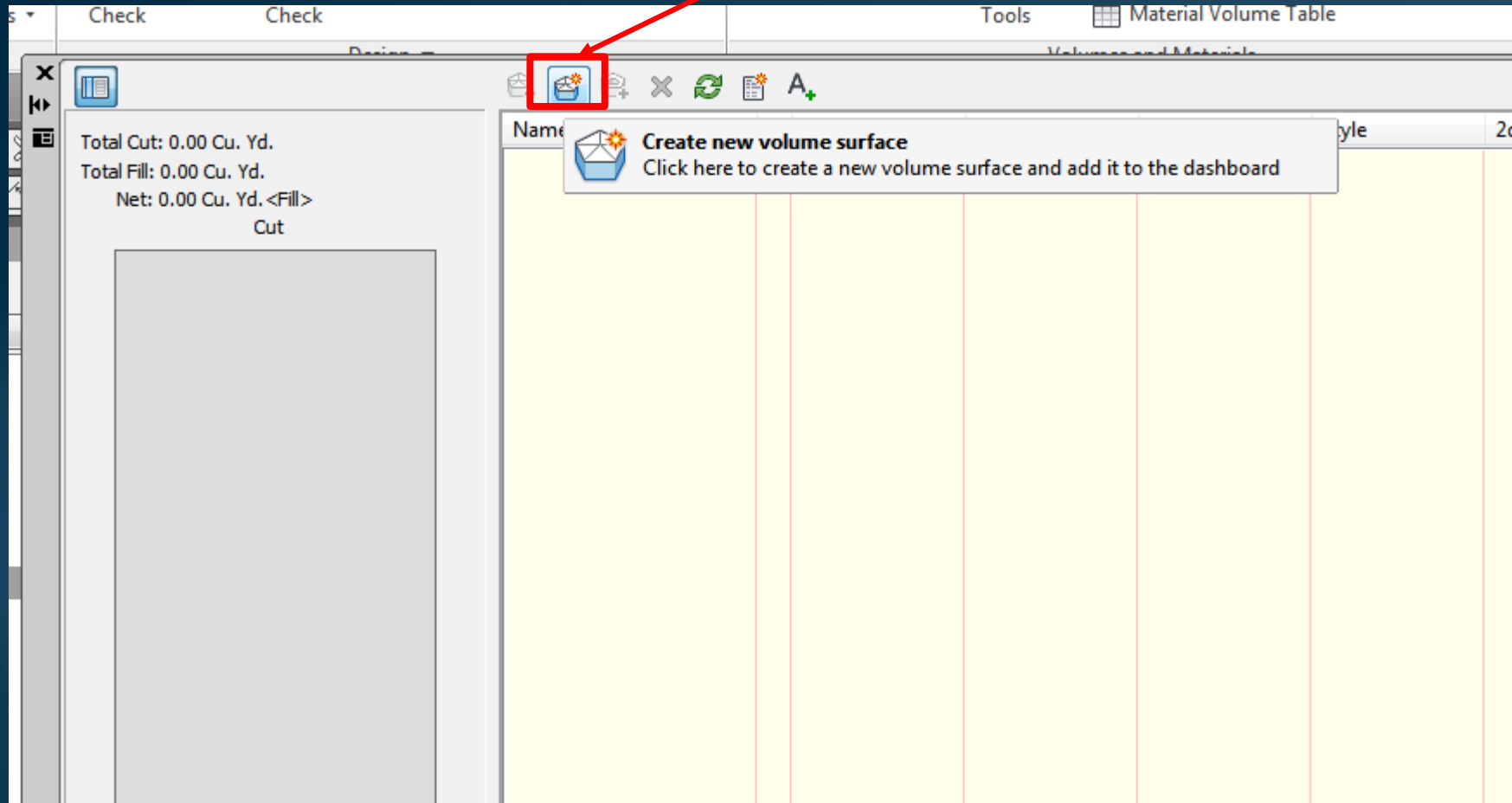
Total Cut: 0.00 Cu. Yd.
Total Fill: 0.00 Cu. Yd.
Net: 0.00 Cu. Yd. <Fill> Cut

Name	B	Mid-Ordinate ...	Cut Factor	Fill Factor	Style	2d Area(Sq. Ft.)	Cut(adjusted)(Cu. ...	Fill(adjusted)(Cu. ...	Net(adjusted)(Cu. ...	Net Graph
------	---	------------------	------------	-------------	-------	------------------	-----------------------	------------------------	-----------------------	-----------

Fill

Volumes Dashboard

Click Create new volume surface



The screenshot shows a software interface with a top toolbar and a main workspace. The toolbar contains several icons, including a blue folder icon with a yellow star, which is highlighted by a red square and a red arrow. A tooltip is displayed over this icon, containing the text: "Create new volume surface" and "Click here to create a new volume surface and add it to the dashboard". The main workspace is divided into two panels. The left panel displays volume statistics: "Total Cut: 0.00 Cu. Yd.", "Total Fill: 0.00 Cu. Yd.", and "Net: 0.00 Cu. Yd. <Fill> Cut". The right panel is a table with a yellow background and several columns, including "Name", "style", and "2d".

Name	style	2d
------	-------	----

Fill out the information as shown

Type: TIN volume surface Surface layer: PR-SURFACE

Properties	Value
Information	
Name	CUTFILL
Description	Description
Style	
Render Material	ByLayer
Volume surfaces	
Base Surface	Existing Ground
Comparison Surface	PROPOSED
Cut Factor	1.000
Fill Factor	1.000

Selecting OK will create a new surface which will appear in the list of surfaces in Prospector.

OK Cancel Help

The screenshot displays the AutoCAD SURFACES environment. On the left, a 3D visualization shows a red volume representing cut and a green volume representing fill. The main window features a table with the following data:

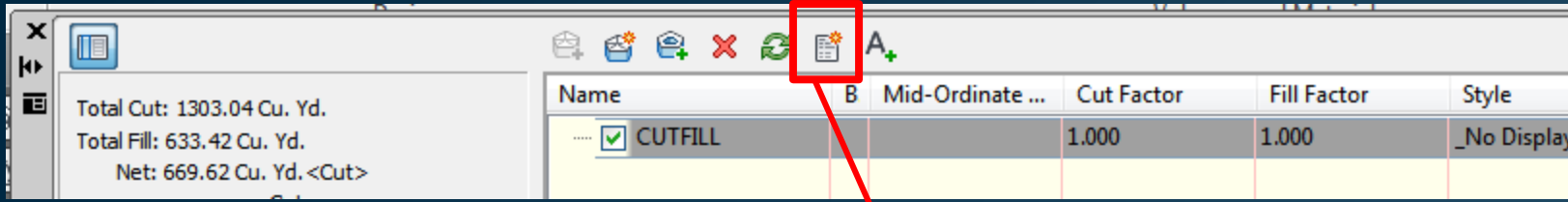
Name	B	Mid-Ordinate ...	Cut Factor	Fill Factor	Style	2d Area(Sq. Ft.)	Cut(adjusted)(Cu. ...	Fill(adjusted)(Cu. ...	Net(adjusted)(Cu. ...	Net Graph
CUTFILL			1.000	1.000	_No Display	45987.46	1303.04	633.42	669.62<Cut>	

Annotations with red arrows point to the 'Total Cut' and 'Total Fill' values in the top-left summary box, and the '_No Display' style value in the table.

This gives you the cut/fill amounts

Make sure the STYLE is set to _No Display

Volumes Dashboard



This will allow you to create a report and print it as a PDF

Browser address bar: C:\Users\dan.polite\AppData\Local\Temp\1\CutFillReport.xml

File Edit View Favorites Tools Help

MDP Parcel Viewer sybex AutoCAD Civil 3D 2... Home NRCS Maryland CAD-SHAREPOINT Workday (stateofmaryland) Home - Engineering AgNet Posts - RIGIDPLY Rafters, L... ASCE https--connect.md.gov-S... AutoCAD Tutorials for fre... Engineering CAD Training... mdlandrec Home Page

Cut/Fill Report

Generated: 2017-04-30 22:35:27
By user: Dan.Polite
Drawing: N:\CAD\C3D TRAINING 2016\TRAINING SESSION #4 - SURFACES\N:\CAD\C3D TRAINING 2016\TRAINING SESSION #4 - SURFACES\SURFACES.dwg

Volume Summary							
Name	Type	Cut Factor	Fill Factor	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
CUTFILL	fill	1.000	1.000	45987.46	1303.04	633.42	669.62<Cut>

Totals						
			2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
Total			45987.46	1303.04	633.42	669.62<Cut>

* Value adjusted by cut or fill factor other than 1.0

Name	B	Mid-Ordinate ...	Cut Factor	Fill Factor	Style
<input checked="" type="checkbox"/> CUTFILL			1.000	1.000	_No Display

This will allow you to insert the cut/fill information into your drawing

AutoCAD Civil 3D 2014 SURFACES.dwg

001xB Notation | 001xD_B_Notati | Standard | Standard

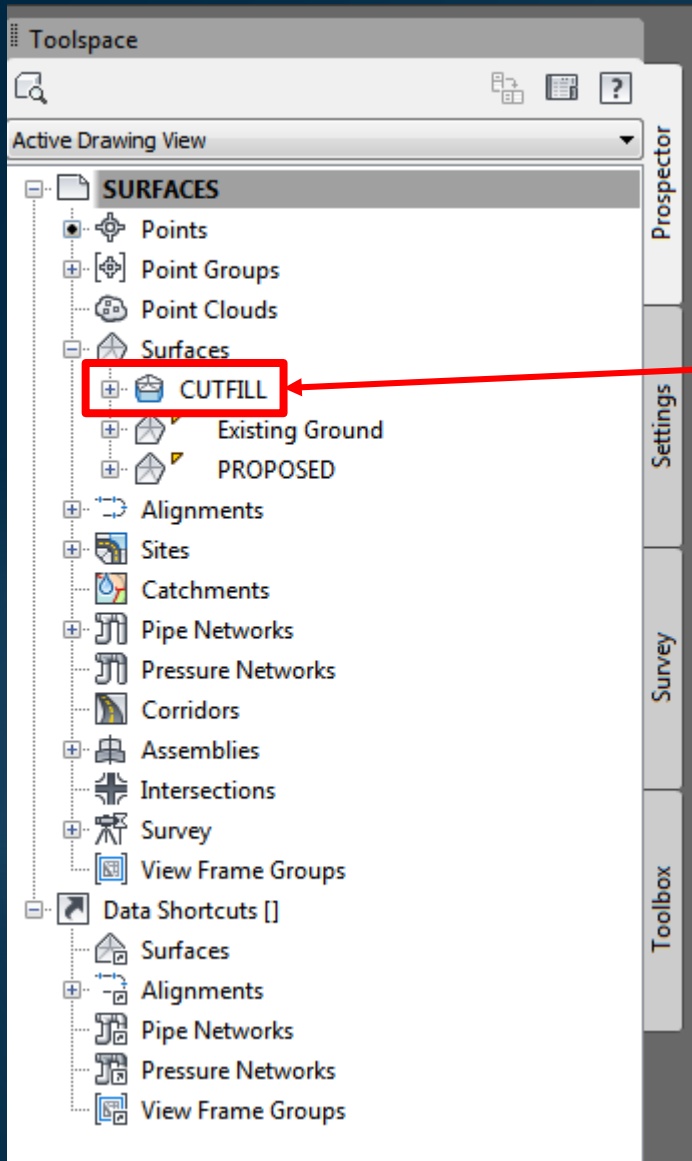
001xD_B_Notati | 1-TEXT

Prospector | Settings

[-][Top][2D Wireframe]

Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
CUTFILL	1.000	1.000	45987.46 Sq. Ft.	1303.04 Cu. Yd.	633.42 Cu. Yd.	669.62 Cu. Yd.<Cut>
Totals			45987.46 Sq. Ft.	1303.04 Cu. Yd.	633.42 Cu. Yd.	669.62 Cu. Yd.<Cut>



This is the CUTFILL surface that you created. It should not be displayed if you set the STYLE correct.

- ▶ You can see all 3 surfaces that have been created when you hover over any location within the proposed area

