

CivilCAD 2000 – Version 6

The new CivilCAD 2000 version has been released and is now available to the market. In this newsletter...

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Announcements

Sivan design has signed a cooperation and distribution agreement with Bricscad N.V (www.bricscad.com), Belgium, the developer and distributor of IntelliCAD. The new Bricscad IntelliCAD (Version 3.3.0004), which is the perfect replacement for AutoCAD, is now better than ever, and work perfectly with the new Version 6 of CivilCAD 2000.

What's new/Fixed problems

ROADS

Many new exciting features have been added to the road's design capabilities of the software. From improved extract features, to automatic sections plus layout sheets division, underground infrastructure adjustment, retaining walls and much more.

1. Each road has a serial number which follows it through the entire road's design windows. The serial number appears at the top of each window, near the road's name. The same serial number is being used, while producing the road's layers in the drawing, such as Layout1 (1, 2, 3...) for the road's layout, Centerline1 for road's centerline etc. With this new number it is easier to connect between the road in the drawing and the road in the database.
2. While creating a road's layout, it is now possible to update the current road's layout only (the road that is in process). This is done by marking V near the "Update current road only" label, in the "layout & contours" window.
3. You can now control the appearance of the label boxes of the road's geometry in the layout. In the status of the horizontal alignment, new function has been added to turn on/turn off the display of any needed information.
4. More on the horizontal alignment- a new button has been added, enabling to reverse the road- if the road has been designed in the wrong direction (end to beginning) it is now possible to reverse the road completely to the opposite direction.
5. In the vertical alignment, it is now possible to control the color of each layer during the design stages.
6. Ground level in left and right offsets from the Road's Centerline- In some points it is critical to have the section of the ground level parallel to the centerline of road, at a given offset. To add such a section to the vertical alignment's drawing, check ("V") near the "G.L in offset" label (left and right), and enter a desired offset (in meters). The ground level's section in that offset will be added to the initial vertical alignment.

7. **Frames division**- as a repeated request from our customer we have added a very important and useful new feature, enabling the customer to automatically divide its vertical alignment into sheets of papers. This new function includes many advanced options such as range to be printed, overlapping distances, and the most important- the capability to automatically adjust between the vertical alignment's sheets and the horizontal alignment. To each sheet the software will add a sheets key, dividing the road into sheets in the most economic (in paper meaning) way (note that this option will only work with AutoCAD 2000 and up).
8. **Utilities adjustment**- a new feature for utilities adjustment has been added to the software. This new feature enables the user to adjust underground infrastructure that cross or lay under the road. Such utilities, such as electric lines, sewage and drainage pipelines, can be added automatically to the cross sections. Use the "Get utilities" button in the cross section's window and select the layers in the drawing to pick the data from. Each infrastructure that crosses the road will appear in its exact location on the cross section's drawing.
9. You can now easily divide the cross sections into sheets by using the new cross section's sheets division function. Use the new button in the cross sections window and follow the steps.
10. **Various slopes**- In the typical cross section, a new side slopes option has been added enabling the user to define the road's sides slopes according to the cut/fill height under/above the ground level. In the various slopes tables, just enter the slopes ratio for each and each depth and the software will adjust these slopes to each and each situation.
11. **Extract**- we are pushing our clients that design urban roads to increase their use in the new Extract feature. The feature is now powerful and faster than ever, enabling the user to automatically adjust the cross sections design to any desired layout, with many changes along the road.
12. **Retaining walls**- our new retaining walls solution gives the designer a full solution to design retaining walls along the road. Starting at the general wall's structure, through the left and right wall's longitudinal section, including the designed wall in the cross sections drawing, this feature makes the software a powerful tool than ever.
13. The mass haul diagrams capability that has been added to the software, now includes two available tables: Accumulated mass haul diagram and a separated section's volumes diagram.
14. The super elevations option has been improved to automatically adjust the highway's shoulders slopes to the lanes' slope, when it exceeds the shoulder's slopes.

PIPES

Some new features have been added to the CivilCAD 2000/Pipes software, increasing its power as a pipelines design system. Some important reported problems have been fixed, detailed in the list below...

15. We have finally overcome the ground level differences problem in the pipelines intersections. The ground level in all of the intersecting sections will be exactly the same due to a new interpolation method that has been developed especially for that problem.
16. You can now add the pipeline's type in the layout screen. This type will be automatically added to the type row in the section's drawing.
17. In the sections window we have added a new feature to automatically locate crossing elements in the section. The "Check drop" option will change the section if the pipeline's design crosses or gets nearer than 30cm to an intersecting element.
18. A new "Check drop" feature has been added, enabling the designer to automatically adjust a pipeline that its diameters changes. The feature will check for a change in the diameter along the section and adjust the pipeline's top level between the two segments.
19. Two reported problems have been fixed: A problem in the quantities calculations and a problem in the auto size of the manholes according to their depths.
20. A flow computations report has been added to the reports window, presenting the flow computations in a table.

GENERAL

In addition to the specific changes in the Roads and pipes design systems, the software gained some more professional features such as tutorial movies and specific improvements in the contour lines and topography planes...

21. The on-line help of the software has a new outfit, and now includes more details on how to use the software. From the menu go to 'File -> Help' and watch the latest updates.
22. **Tutorials-** tutorial movies have become one of the main instruction and knowledge center on how to use the software. We, in Sivan design, have understood the importance of a self-learning lessons kit, and we are rapidly increasing the tutorials library. To use the option just go to 'File -> Tutorials' and pick a lesson.
23. **Contour lines-** we have finished improving our contours smoothing option. It is now easy to smooth contour lines by choosing the smoothness level in the contour lines window.
24. **Topography planes-** in the new version it is now possible to add arcs in the topography planes vertexes. Just enter the radius or select '3 points' to create the arc by 3 points.
25. **Saving option-** due to rapidly requests by customers, we have added a 'save project' button in each of the software's sub screens, including vertical alignment window, cross sections window and pipeline's section window.

The future

We are constantly working to improve our product, making it the world-wide leading product in its area. To do so, we are working simultaneously on improving the products quality, adding new exciting features in each new version, and this, without making any compromises on performance and stability.

In the near future you will be witness to more and more new capabilities including:

- Three dimensions road's driving simulations.
- New and improved automatic design features.
- New layers in the cross sections giving the user the capability to calculate quantities between each two layers.
- New and improved planes' (lots) earthworks calculation features.
- Additional features for distomat's data calculations.

And much more...