AutoCAD® Civil 3D® 2011

AutoCAD® Civil 3D® software, the building information modeling (BIM) solution for civil engineering, helps teams deliver higher-quality transportation, land development, and environmental projects faster. Civil 3D helps civil engineers explore design options, analyze what-if scenarios, and optimize performance before projects are built. Its model-based approach helps streamline time-consuming tasks and keep designs coordinated, enabling higher-quality documentation and visualizations. Extend Civil 3D model data to perform geospatial and stormwater analysis, generate quantity takeoff information, and better support automated machine guidance during construction. Gain the competitive advantage of BIM to deliver more innovative project solutions.

What’s New

The new features in AutoCAD Civil 3D 2011 will help civil engineers, especially transportation professionals who work on roads and highway projects, perform their jobs more effectively. The 2011 release focuses on a number of key areas, including:

- 64-bit Support - AutoCAD Civil 3D civil engineering software is now available in a native 64-bit version, enhancing the software’s ability to handle large projects and improving performance and stability for memory-intensive tasks.

- Improved Memory Management and System Optimization – AutoCAD Civil 3D 2011 has been optimized for faster startup times and faster response times within drawing sessions. New AutoCAD® platform capabilities provide for faster display of large objects, such as point clouds and surfaces, and faster switching between viewports.

- Point Clouds Feature – New point cloud functionality helps users more clearly understand the project from the confines of an office using data from LIDAR scanning. In addition, surfaces can be generated from point cloud data, enabling the direct use of the information to further develop the design.

- Roundabout Layout - New tools help users create and edit roundabouts more quickly, based on common design standards. Users can quickly perform roundabout feasibility analysis at intersection locations, which are becoming increasingly prevalent in designs.

- Superelevation - Improvements include a dynamic relationship between the alignment and the computed superelevation critical points; editing capabilities have been expanded to include graphical manipulation in a superelevation view.

- Corridor Editing – AutoCAD Civil 3D 2011 software streamlines the creation and editing of corridors. New tools also aid in the creation of automated machine-guidance-ready surfaces by adding more control to the densification of the model.

- Transportation Design - Enhancements offer a more efficient way to design roads and highways. New functionality includes improved best-fit alignment and profile commands, the ability to create new alignments from all or part of an existing

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alignment, automatic rule-based curve widening, profile tangent extension to a PVI, and support for intersections located on spirals.

- **Survey Tools** - Create figures and edit figure vertices interactively with new survey tools. Crossing breakline features help identify and edit breaklines in a survey database or surface and create reports that identify potential issues.

- **Line-of-Sight Tools** - Including point-to-point and sight distance along a corridor, enable you to visually evaluate alternatives for safety and performance.

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