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—Cristian Otter
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visualisations that remain
more quickly and efficiently.
annotation automatically

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the model.

Calculations

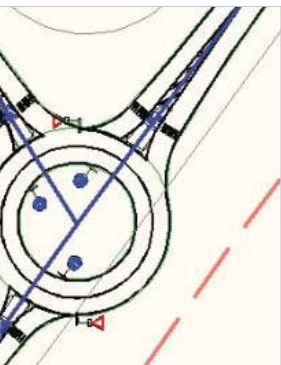
allows you to process earth volumes more efficiently and proposed surfaces more accurately. Calculate site volume or average end area to generate mass haul diagrams for the distance over which cut and fill can be moved, the amount of material to be moved, the amount of material to be moved, the amount of material to be moved and the identification of high and low points on the site.

Parametric Design

allows you to define alignment geometry more precisely based on government standards and criteria based on government standards. Design alternatives are generated based on standards violations and provide immediate feedback so necessary changes can be made.

Tools for Road and

Advanced design tools offer a wide range of tools to design roads and highways. Intersection models that update automatically as you optimise the design, generate plan drawings and annotations. Lay out roundabouts more efficiently and striping, based on government standards.



Analysis

Extract data from corridor models to generate reports on items like lightposts, landscaping, or utilise built-in pay estimation tools to generate bid-ready contract documents.

By connecting design and documentation intelligently, AutoCAD Civil 3D helps you boost productivity and deliver higher-quality designs and construction documentation. Civil 3D's style-based drafting helps reduce errors and promotes documentation consistency.

Production Drafting

Generate production plans such as fully annotated section sheets, profiles, grading plans and more automatically. Most importantly, drafting can be generated across multiple drawings by using xrefs and data shortcuts. The result is a workflow that enables production sheets to use a single instance of the model. And if the model changes, you can synchronise all production sheets to reflect the update more quickly.

Plan Production

Comprehensive tools assist with the layout of cross section and plan and profile sheets. Fully integrated with the AutoCAD software's Sheet Set Manager, the Plans Production wizard automates the layout of sheets and matchlines along alignments and generates plan and profile sheets based on the layout. The finished product is a series of drawing sheets ready for final annotation and plotting.

The map books functionality lays sheets out across your project while generating key maps and legends for your entire sheet set. This capability is ideal for laying out utility maps and grading plans.

Annotation

The software's annotation is derived directly from design objects or through external references and updates automatically when the design changes. It also responds to changes in drawing scale and view orientation automatically, so labels update instantly when the plot scale is changed or rotated within different viewports.

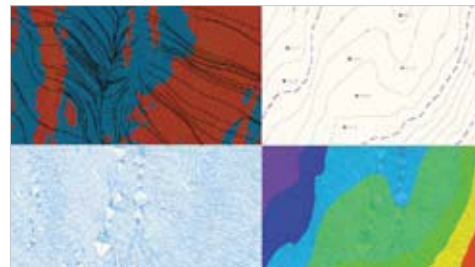


Reporting

AutoCAD Civil 3D software provides more flexible, real-time and extensible report generation. As the data is derived directly from the model, reports can be updated more easily, providing quicker feedback as design changes are made.

Drafting Styles and Standards

AutoCAD Civil 3D provides country-specific CAD styles to control many aspects of drawing display. Colours, linetypes, contour increments, labelling and much more are fully controlled by styles.



Data Shortcuts and References

With data shortcuts and xrefs, project members can share model data such as surfaces, alignments and pipes, working off the same instance of a design object for multiple design tasks. Annotation can also be generated from the data shortcuts or directly through an xref to help production drafting remain in sync.

Advanced Data Management

For companies looking for advanced data management, the addition of Autodesk® Vault technology enhances data shortcut functionality with advanced change management, version control, user permissions and archive control.

Design Review

Today, the engineering process is more complex than ever. Design review often involves team members who are not CAD software users yet are vital to the project. Publishing to DWF™ file format enables you to extend design review to your team digitally.

Multi-discipline Co-ordination

Import Autodesk® Revit® Architecture software building shells into AutoCAD Civil 3D to use information such as utility connection points, roof areas and building entrances directly from architects. Similarly, transportation design engineers can pass information such as profiles, alignments and surfaces directly to the structural engineers to assist in the layout of bridges, box culverts and other transportation structures in Autodesk® Revit® Structure software.

AutoCAD Civil 3D software's design and visualisation tools help you explore what-if scenarios, so you can make decisions faster.

Stormwater Analysis and Simulation

Design and analyse stormwater runoff with integrated simulation tools for urban systems, ponds and culverts. Simulate post-development runoff and erosion to support sustainability requirements. Calculate stormwater quantity and quality for design alternatives, including detention basins, best management practices to reduce environmentally sensitive areas and green design. Prepare more accurate hydraulic documents, including hydraulic profiles, grade lines, to assist in evaluating alternatives and helping to ensure public safety.

Geospatial Analysis and Mapping

AutoCAD Civil 3D includes geospatial mapping capabilities to support multi-disciplinary workflows. Analyse spatial relationships between drawing objects. Extract or create data by overlaying two or more toolsets. Use buffers to select features within a specified buffer distance of other features. Utilise available geospatial information for site selection and better understanding of site constraints at the proposal stage. Generate robust mapping exports to meet requirements for sustainable design.

