

Faster designs. Fewer delays.  
Happier clients.

**AutoCAD<sup>®</sup>**

Civil 3D<sup>®</sup> 2008



Autodesk<sup>®</sup>

# Make the Move to 3D

Moving to AutoCAD® Civil 3D® software helps your team complete a wide range of civil engineering projects faster, smarter, and more accurately. By intelligently linking design and production drafting, the industry-proven dynamic model at the core of Civil 3D helps you to evaluate multiple design alternatives quickly, minimize manual edits, and output updated plans automatically.

“These projects last a long time. A small change can dramatically affect the schedule. We wanted to try Civil 3D because we saw enormous potential to improve our service and reduce risks associated with design changes.”

—Jan de Boer  
Project Manager  
Grontmij

#### **Not Just Faster, More Thorough**

The Civil 3D dynamic model greatly reduces the time it takes to implement design changes and evaluate multiple scenarios. Impress your clients with thorough evaluation of more design alternatives in less time and deliver better value to differentiate your services from the competition.

#### **Reduce Costly Errors and Omissions**

Civil 3D derives production drafting directly from the model, allowing you to minimize manual edits. Using a highly flexible styles system, you can also define and enforce CAD and design standards for greater consistency and accuracy.

#### **Experience Before You Build**

Smart design isn't everything. You need to sell your ideas to multiple stakeholders, including the public and review boards. With the 3D visualization tools in Civil 3D, it is easy to create high-impact presentations that quickly communicate design intent to your audience.

#### **On Schedule and on Budget**

With AutoCAD Civil 3D, both local and remote project team members have parallel, controlled access to the most up-to-date project data—helping to keep your work on schedule and on budget, all with existing resources.



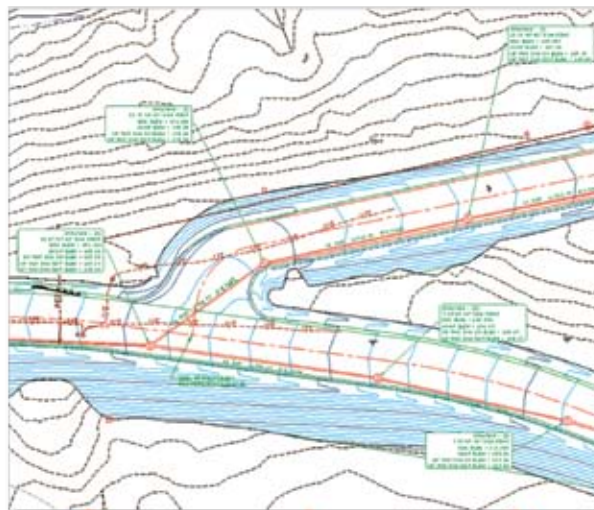
# It's All About the Dynamic Model

It doesn't matter what type of project change it is—*widen the road, regrade the parking lot, or move a catch basin*—change is inevitable. With the AutoCAD Civil 3D dynamic engineering model everything is connected, so a single design change updates all related design elements and project deliverables instantly.

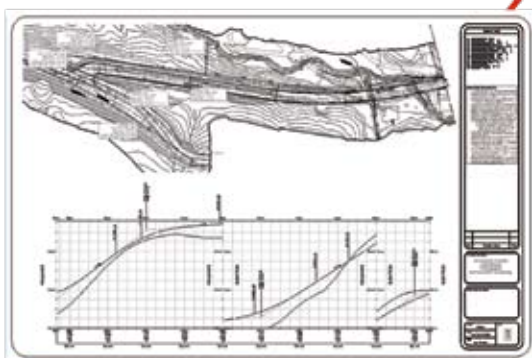
One Change. Multiple Updates. All Automatic.

“Obviously, we save a tremendous amount of time by having to draw changes only once. We also reduce errors because it's almost impossible to miss changes. If a change to the surface features affects utility plans, our utility designers notice it and account for it right away. In our firm, 'I didn't get the memo' is never a valid justification for missing changes.”

—Mike Partenheimer  
CAD Manager  
Hall & Foreman, Inc.



**Model.** Use the intelligent and dynamic tools to quickly and accurately make a design change at any stage of the project.



**Drafting.** The model automatically reflects any changes to drafting and annotation throughout the project. Sheets update with the most current and accurate design information, helping to reduce errors and omissions.

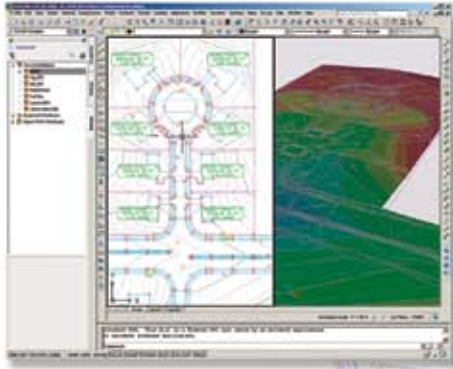


**Visualization.** Quickly and efficiently produce visualizations that remain in sync with design changes as they are made.

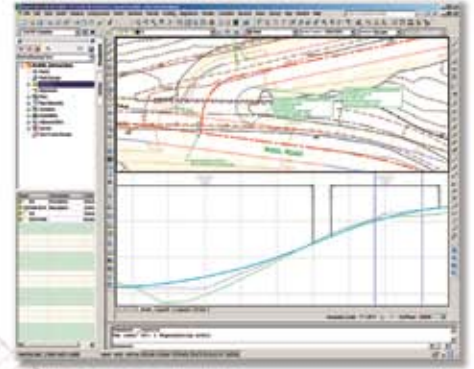
Station	Area	Volume	Area	Volume	Area	Volume	Area	Volume	Area	Volume
0+00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00
0+10	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00
0+20	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00
0+30	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00
0+40	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00
0+50	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00
0+60	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00
0+70	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00
0+80	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00
0+90	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00
0+100	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00	100.00	0.00

**Reports.** Whether it's a volume, structure, or pipe table, when a change to the design is made, all the crucial information for your reports and tables updates automatically.

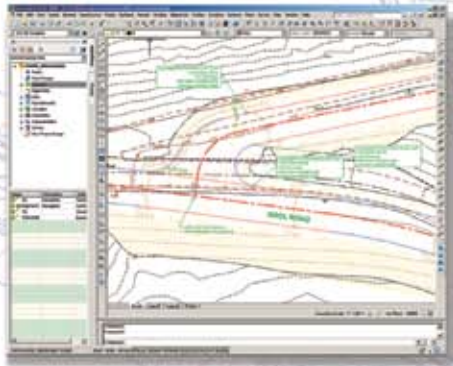
# Work from One Dynamic Model



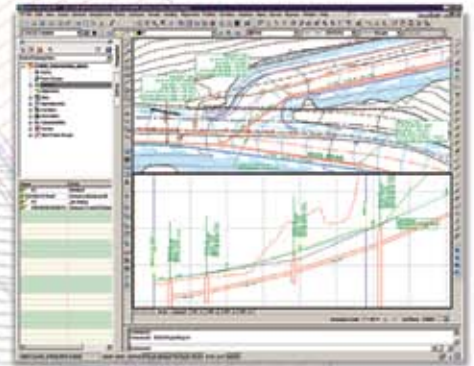
**The Surveyor**  
adds topography and existing conditions to the model



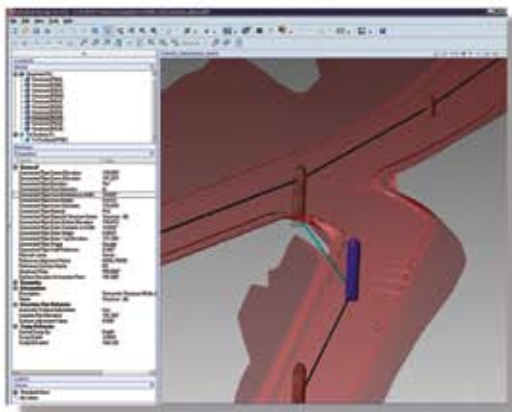
**Engineer A**  
designs alignments and profiles



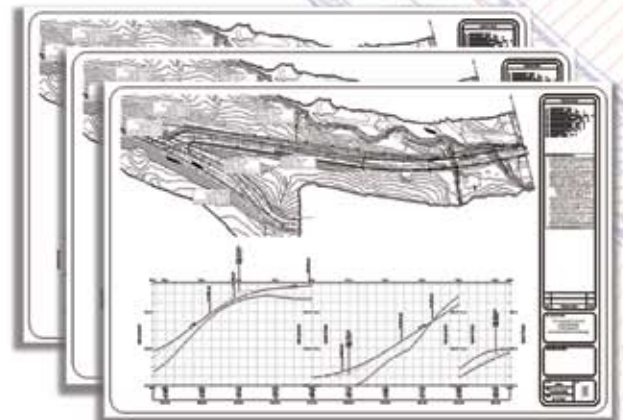
**Engineer B**  
designs the corridor model



**The Designer**  
adds sewer and storm system to the model



**The Project Manager**  
reviews the model



**The Drafting Team**  
creates production sheets from the model

# Keep the Team Coordinated

AutoCAD Civil 3D provides integrated project management for smart, secure sharing of data throughout the project cycle—from initial survey and design to plan production, field stakeout, and grading.

## Surveyors

AutoCAD Civil 3D 2008 provides integrated survey functionality that streamlines survey data transfer for fast and accurate field-to-finish processes.

- Import field information directly to the engineering model.
- Perform traverse adjustments and least-squares analysis on survey networks.
- Integrate field data with industry-standard file formats, such as DEM, DGN, DWF™, Eoo, LandXML, SDTS, and SHP.
- Export finished design for stakeout and machine guidance using industry-standard data collectors.

## Engineers and Designers

AutoCAD Civil 3D 2008 helps engineers and designers explore alternatives and accelerate time to completion by providing easy-to-use, flexible, and automated design capabilities.

- Design roads by combining intelligent alignments, profiles, and customizable design elements.
- Design and generate parcels in a relationship-based model so they can be easily moved, merged, or altered.
- Generate grading plans quickly using a combination of 3D features, points, and grading projections.
- Lay out sanitary and storm drainage systems faster using a rule-based pipe network model.

## Production Drafters

With AutoCAD® software at its core, drafters and technicians instantly feel at home with Civil 3D. Users complete basic plan detailing or complex cross section sheets just as they would in AutoCAD while benefiting from a whole new level of productivity.

- Enforce drafting standards and speed up review cycles across the organization using styles-based drafting.
- Incorporate design changes quickly, and automatically see the effect of design changes on all related drawings.
- Generate finished drafting from the model automatically, shortening project timelines and minimizing errors.
- Deliver designs using industry-standard formats, including DGN, DWF, DWG™, and LandXML.



AutoCAD Civil 3D software enables companies to standardize on a single product for all civil engineering design, drafting, and project management needs. Reduce training and support costs, simplify licensing and subscription renewals, minimize data translation requirements, and substantially improve the quality of deliverables with one powerful solution.

## For users in

- Site Development
- Subdivision Design
- Transportation
- Public Works
- Survey
- Water/Wastewater
- Environmental

# Worth the Effort

Moving to 3D does require a little time and effort, as well as a commitment of resources. But once you've made that commitment and your staff is using Civil 3D, you will see a continuously impressive return on investment. Tedious tasks are minimized, productivity is increased, money is saved—and clients are impressed.

“With AutoCAD Civil 3D, we can upload whatever points we need to build a surface, convert them to dynamic objects in Civil 3D, and begin our analysis or design. We recently created an airspace model from 500,000 points for a major airport in four hours. Before Civil 3D, it would have taken two weeks.”

—Bob Endres  
Corporate CAD Manager  
Landrum & Brown

#### Learn More

To learn more about AutoCAD Civil 3D, visit [www.autodesk.com/civil3d](http://www.autodesk.com/civil3d).

#### Purchase

To purchase AutoCAD Civil 3D, contact an Autodesk Premier Solutions Provider or Autodesk Authorized Reseller. To locate the reseller nearest you, visit [www.autodesk.com/reseller](http://www.autodesk.com/reseller).

#### Training

Be more productive with Autodesk® software. Get trained at an Autodesk Authorized Training Center (ATC®) with hands-on, instructor-led classes to help you get the most from your Autodesk products. Enhance your productivity with proven training from over 1,400 ATC sites in more than 75 countries. For more information, contact [atc.program@autodesk.com](mailto:atc.program@autodesk.com) or visit the online ATC locator at [www.autodesk.com/atc](http://www.autodesk.com/atc).

#### Collaboration

Download the *free*\* Autodesk® Design Review software and speed up projects by accelerating design reviews with intuitive digital review, measure, and markup tools for 2D and 3D designs. Integration with AutoCAD®-based software means virtually instantaneous distribution and timely integration of reviewer markups. Learn more at [www.autodesk.com/designreview](http://www.autodesk.com/designreview).

#### Autodesk Developer Network

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