


Autodesk® Infrastructure Design Suite 2013

Visualize success with Autodesk BIM for Infrastructure.



Rendering of an urban site showcasing transportation, utility, land, and water infrastructure. Autodesk® Infrastructure Design Suite products, including Autodesk® 3ds Max® Design software, were used in the design process.

Autodesk®

Plan. Design. Build. Manage. All with BIM for Infrastructure

- **Plan** — Access and integrate CAD and GIS data for analysis and more informed decision making
- **Design & Document** — Explore more design options, analyze project performance, and deliver more coordinated documentation
- **Validate & Visualize** — Create renderings and animation to help validate designs, communicate design intent and create compelling presentations
- **Coordinate** — Integrate models from multiple sources for project review and construction sequencing
- **Manage** — Maintain infrastructure information more dependably with intelligent industry models



Are You Facing These Issues?

- Are your potential risks and costs rising due to projects being planned, designed, and built without consistent and coordinated information?
- Is having data in multiple locations and formats making it difficult to evaluate existing conditions?
- Is it difficult to follow and apply consistent engineering standards and design rules during the design process?
- Are inefficient means of sharing information causing lost time and duplication of efforts?
- Are you not realizing the full benefits of model-based design, including visualization, simulation, and analysis?
- Are you finding it difficult to get stakeholders to understand how design proposals will appear and perform in the real world?
- Are your teams finding it difficult to create compelling exhibits for building stakeholder approval and winning new work?
- Is the cost of your project going up because design problems are discovered after breaking ground?

Autodesk Infrastructure Design Suite can help you overcome these issues to help improve your business. Learn more at www.autodesk.com/infrastructuredesignsuite

A Comprehensive Software Solution for Planning, Designing, Building, and Managing Civil and Utility Infrastructure

With help from Autodesk® Infrastructure Design Suite, you can realize the benefits of BIM for Infrastructure. Whether you are working on transportation, utility, land, or water projects, BIM is an intelligent model-based process that can provide insight, helping you take your projects from concept to completion, faster, more economically, and with less environmental impact.

- Plan and manage with improved insight
- Design smarter and faster with intelligent model-based tools
- Evaluate project performance with integrated analysis and simulation
- Communicate with visualization throughout the project lifecycle

Three editions of Autodesk Infrastructure Design Suite are available to help meet your workflow needs.

Autodesk® Infrastructure Design Suite Standard: Foundational GIS and Design

Autodesk® Infrastructure Design Suite Standard 2013 offers a familiar AutoCAD® workflow with foundational planning, design, and coordination capabilities.

- Design, document, and share drawings in the DWG™ format
- Better understand existing conditions with integrated CAD and GIS functionality
- Organize and classify data with customizable industry data models for electric, gas, water, and wastewater infrastructure
- Use and help maintain scanned drawings, maps, and plans with raster cleanup, editing, and enhancement tools
- Better coordinate with other engineering disciplines

Autodesk® Infrastructure Design Suite Premium: BIM for Civil Infrastructure

Autodesk® Infrastructure Design Suite Premium 2013 enhances your ability to implement BIM for infrastructure, helping you design smarter and faster with intelligent model-based design tools, evaluate project performance with integrated analysis and simulation, and communicate with visualization throughout the project lifecycle.

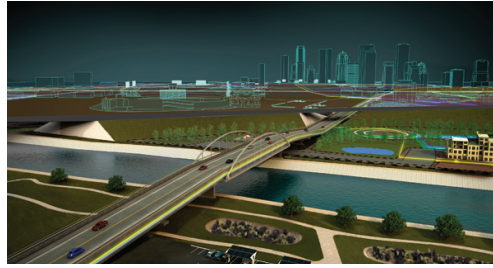
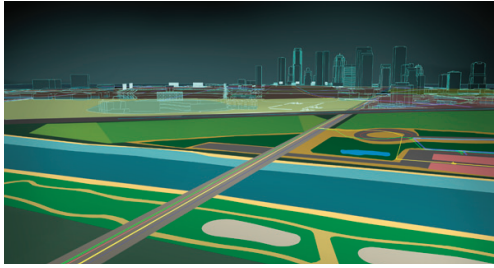
- More quickly build large infrastructure models from existing 2D CAD, GIS, BIM, and raster data
- Sketch design ideas including proposed roads, water, and land features more accurately in the context of the natural and built environment to explore different what-if scenarios
- More easily and efficiently explore design options and analyze project performance with intelligent model-based civil engineering tools for survey, alignment, and profile layout; corridor modeling; intersection and roundabout modeling; earthworks; and quantity takeoff
- Plan and design storm and sanitary systems with integrated hydrology and hydraulic analysis tools
- Help validate designs, better communicate project intent, and market ideas more successfully by creating near-photorealistic renderings and animations from civil data
- Perform project navigation, review, and construction sequencing

Autodesk® Infrastructure Design Suite Ultimate: Advanced Civil and Utility Design

Autodesk® Infrastructure Design Suite Ultimate 2013 builds on the value of the Premium Edition with specialized capabilities for utility network design, structural engineering, and construction coordination.

- Design overhead and underground electrical distribution networks based on utility engineering standards and predefined workflows that help improve design productivity and consistency
- Model, analyze, and document bridges, tunnels, and other civil structures
- Collaborate more effectively with contractors and help identify potential clashes early in the design process

Model-based design, analysis, visualization, and simulation



Autodesk Infrastructure Design Suite offers a comprehensive software solution for planning, designing, building, and managing civil and utility infrastructure.

AutoCAD® software provides powerful design and documentation tools, extensive customization options, and native DWG support.

AutoCAD® Map 3D software is a model-based infrastructure planning and management application that provides broad access to CAD and GIS data, helping geospatial and planning professionals make more informed design and management decisions.

AutoCAD® Raster Design software adds powerful raster editing and raster-to-vector conversion tools to AutoCAD-based software.

Autodesk® Infrastructure Modeler software is a conceptual design tool that helps project engineers and planning professionals create, evaluate, and communicate visually rich infrastructure proposals for faster approvals.

AutoCAD® Civil 3D® software brings the power of BIM to infrastructure projects to help civil engineering professionals stay coordinated, more easily and efficiently explore design options, analyze project performance, and deliver more consistent, higher-quality documentation.

Autodesk® Storm and Sanitary Analysis software* is a comprehensive hydrology and hydraulic analysis application for planning and designing urban drainage systems, highway drainage systems, storm sewers, and sanitary sewers.

Autodesk® 3ds Max® Design software helps you automate the creation of cinematic-quality visuals and animations from civil data to evaluate designs and support the communication of project intent.

AutoCAD® Utility Design software delivers model-based design for electrical distribution that combines the power of design and documentation with rules-driven workflows and analysis.

Autodesk® Revit® Structure software helps you model and document civil structures, including bridges, tunnels, retaining walls, and foundations.

Autodesk® Navisworks® Simulate software provides comprehensive project review and communication capabilities that assist users in demonstrating design intent and simulating construction, helping to improve insight and predictability.

Autodesk® Navisworks® Manage software** offers design and construction professionals a comprehensive project review solution, providing advanced tools for interference analysis and spatial coordination.

*Autodesk® Storm and Sanitary Analysis 2013 is included with AutoCAD Map 3D 2013 and AutoCAD Civil 3D 2013.

**All of the capabilities of Autodesk Navisworks Simulate are included in Autodesk Navisworks Manage.

Autodesk Infrastructure Design Suite Helps You:

- Bring multiple types of data together into a single view to better understand project impact and help inform design and management decisions
- Visualize conceptual design ideas more accurately in the context of the existing environment
- Gain greater insight into planning, design, and construction with integrated analysis capabilities to better predict project outcomes
- Improve design productivity and consistency with customizable engineering standards and design validation rules
- More easily accommodate design changes with synchronous design and drafting
- Create compelling visuals to help communicate design intent and better understand projects in real-world surroundings
- Help increase visibility into constructability, cost, and schedules
- Manage your infrastructure information more dependably with intelligent industry models that help you maintain data quality standards

PRODUCT	Standard	Premium	Ultimate
AutoCAD 2013	✓	✓	✓
AutoCAD Map 3D 2013	✓	✓	✓
AutoCAD Raster Design 2013	✓	✓	✓
Autodesk Storm and Sanitary Analysis 2013	✓	✓	✓
Autodesk Navisworks Simulate 2013	✓	✓	
Autodesk Infrastructure Modeler 2013		✓	✓
AutoCAD Civil 3D 2013		✓	✓
Autodesk 3ds Max Design 2013		✓	✓
AutoCAD Utility Design 2013			✓
Autodesk Revit Structure 2013			✓
Autodesk Navisworks Manage 2013			✓

Moving to Autodesk Infrastructure Design Suite allows us to offer a wider range of services to our clients. We can now deliver project visualizations and simulations in addition to Civil 3D models and engineering drawings.

—Matthew Dalton
CAD/GIS Consultant
SRK Consulting Limited

Learn More or Purchase

Access specialists worldwide who can provide product expertise, a deep understanding of your industry, and value that extends beyond your software. To license Autodesk Infrastructure Design Suite software, contact an Autodesk Authorized Reseller. Locate an Autodesk Reseller near you at www.autodesk.com/reseller.

Autodesk Education

Autodesk offers students and educators a variety of resources to help ensure that students are prepared for successful design careers. Educators can access design software, curricula, and teaching resources, while students can access free* software, training videos, design competitions, and career resources. Anyone can get expert guidance at an Autodesk Authorized Training Center (ATC®) site, and validate skills with Autodesk Certification. Learn more about Autodesk Education at www.autodesk.com/education.

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