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.
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 your potential risks and costs rising due to projects being planned, designed, and built without consistent and coordinated information?
- 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 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**


- 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
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.

**AutoCAD® 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.

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**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 dependable with intelligent industry models that help you maintain data quality standards.

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*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.
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

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