

BENTLEY® INROADS® SITE™



Powerful tools for site design and engineering

Bentley's InRoads® Site™ is a powerful site design application that offers a robust set of design tools tailored to the specific requirements of site engineers. Use InRoads Site to create the content required to design and construct building sites, landfills and embankments, as well as perform excavations and site remediation. InRoads Site features comprehensive design, analysis, plan production and reporting capabilities for the world's most popular CAD formats.

With InRoads Site, you can manage many aspects of the site design process with flexible coordinate geometry tools and a feature-based digital terrain model. You can also interactively create and edit site features with easy-to-use tools that provide for instant onscreen verification.

InRoads Site is part of the comprehensive InRoads suite of products that addresses the civil engineering workflow.

Site Design

InRoads Site provides extensive tools for interactive site design. You can import existing terrain information from a variety of sources, including ASCII data. With the existing surface model in place, you can easily insert new surfaces and design features as the design progresses. You can use decision tables to intuitively solve cut-and-fill slope conditions based on your design rules.

Profiles and Cross Sections

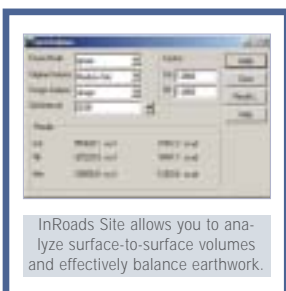
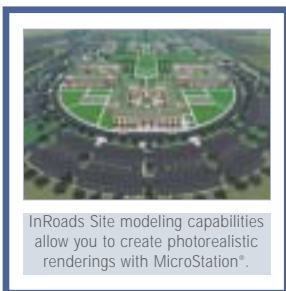
Creating profiles and cross sections is a vital part of the site design process. InRoads Site streamlines these design tasks and provides for easy, interactive manipulation of created data. With InRoads Explorer, managing surface data, alignments, associated profiles and cross section data has never been easier.

Intelligent 3D Modeling

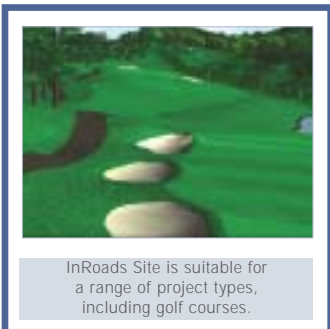
At the core of InRoads Site is a feature-based digital terrain model (DTM) that tracks every aspect for the design model surface. As features are created, the DTM tracks three-dimensional data of the elements, as well as the feature type. This added intelligence enables InRoads Site to represent the feature properly, regardless of the design expression, be it in plan, profile or cross section. In addition, you can use the feature-based DTM to create customized data reports.

Advanced Plans Production

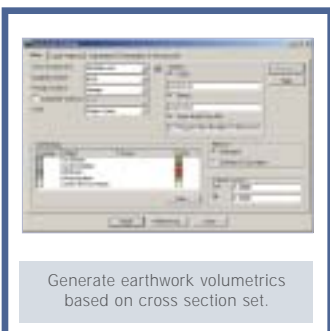
Once the design model has taken shape, InRoads Site offers significant advancements in the production of design deliverables. The automated creation of plan, profile and cross-section sheets is completely configurable to individual project standards. Additionally, the inclusion of drafting tools makes labeling the critical design data much easier. As the design model is altered, the labels retain the intelligence required to regenerate values that may have changed. This can significantly reduce errors and improve the overall quality of design deliverables.



BENTLEY INROADS SITE AT-A-GLANCE



InRoads Site is suitable for a range of project types, including golf courses.



Generate earthwork volumetrics based on cross section set.

Data Interoperability

- Seamless integration between CAD platforms – in both DGN and DWG environments
- Imported from almost any source

Centralized Data Model

- Single data source for all modules within the InRoads family of products
- All InRoads modules interoperate directly and seamlessly
- Multi-user access to data facilitates workgroup collaboration

Interactive Coordinate Geometry

- Robust sets of interactive geometry tools for alignment generation on screen
- Tools using methods and principles specific to civil engineering
- Check Integrity tool for location and removal of discontinuities
- Design feature development using automated COGO commands
 - Center lines, horizontal and vertical alignments
 - Right-of-way, property boundaries and property takes
 - Intersections and cul-de-sacs

Profile Generator

- Easy profile creation across multiple surfaces
- Display and annotation of the profile and the associated data, such as vertical curves, superelevation diagrams and DTM features

Feature-based DTM

- Flexible, double-precision
- Intelligent features
- Representation and labeling based on the feature definition
- Proper display and labeling of terrain features throughout the model

DTM Analysis and Feature Editing

- Key features analysis with intuitive terrain modeling tools
- Surface-feature editing from within the plan, profile or cross section
- Automated update commands for updating plans, sections or profiles from edits of features in different views of the model

Volume Computations

- Generation of earthwork volume computations by various methods, including triangle by station, grid and end-area

Style, Pen and Pencil Locks

- Consistent generation of graphics to meet stylistic preferences and project specifications
- Temporary or permanent creation of design graphics, allowing for graphic regeneration without the need to delete and redraw

Production Tools

- Drafting and plan preparation tools that automate the project delivery process
- Smart labeling, as well as plan, profile and cross section sheet cutting tools for improved productivity

Integration with Bentley Content Management and Publishing Solutions

- Tight integration with Bentley content management and publishing solutions to bring collaborative design data to the entire project team in a secure environment
- Integration of Digital InterPlot™ at the production end, enabling automated plot set generation and Web-based access to plot archives

Industry Standards

- Support for industry standards, such as LandXML
- Exporting of alignments, surfaces and other pertinent design information to other systems via XML

BENTLEY INROADS SITE SYSTEM REQUIREMENTS

- Prerequisites: MicroStation® v8.1 or higher; or AutoCAD® 2000i & 2002
- Processor: Intel® Pentium® II 400Mhz minimum, 500Mhz recommended
- Operating System: Microsoft® Windows® XP Professional, Microsoft Windows 2000, Microsoft Windows NT® (SP6), Microsoft Windows Me, Microsoft Windows 98 (2nd edition)
- Memory: 128 Mb minimum, 256 Mb recommended
- Disk Space: 75 Mb minimum, 100Mb or more recommended
- Input Device: Mouse

CALL TODAY FOR MORE INFORMATION

Bentley Systems, Incorporated, is a global provider of collaborative software solutions that enable our users to create, manage and publish architectural, engineering and construction (AEC) content. As a part of those solutions, Bentley provides professional services including implementation, integration, customization and training.

Visit us on the Web for more information about Bentley solutions and services. www.bentley.com

Bentley North American Headquarters
Bentley Systems, Incorporated
685 Stockton Drive
Exton, PA 19341 USA
Phone: +1 800 BENTLEY (+1 800 236 8539)
Outside the US +1 610 458 5000
Fax: +1 610 458 1060

Bentley International Headquarters
Bentley Systems Europe B.V.
Wegalaan 2
2132 JC Hoofddorp
THE NETHERLANDS
Phone: +31 23 556 0560
Fax: +31 23 556 0565

To find a local Bentley office, please visit www.bentley.com/corporate/contacts.

