

ParaBridgetm Parametric Highway Bridge Layout & Geometry in Accordance with AASHTO LRFD or Standard

ParaBridge is a parametric 3D bridge modeling system that puts powerful and flexible bridge layout and geometry tools at your fingertips. Designed and created within the state-of-the-art Microsoft .NET Framework, it represents the future of integrated bridge engineering. ParaBridge will serve as the core of Eriksson's design suite, seamlessly integrating all parts of design process.

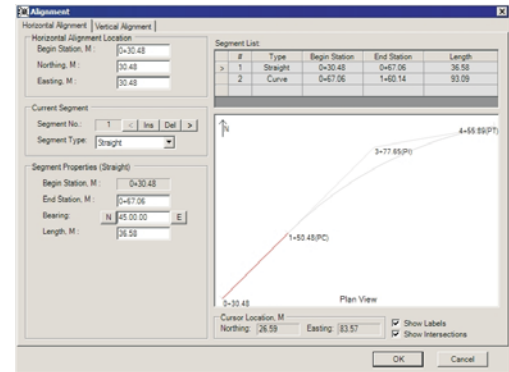
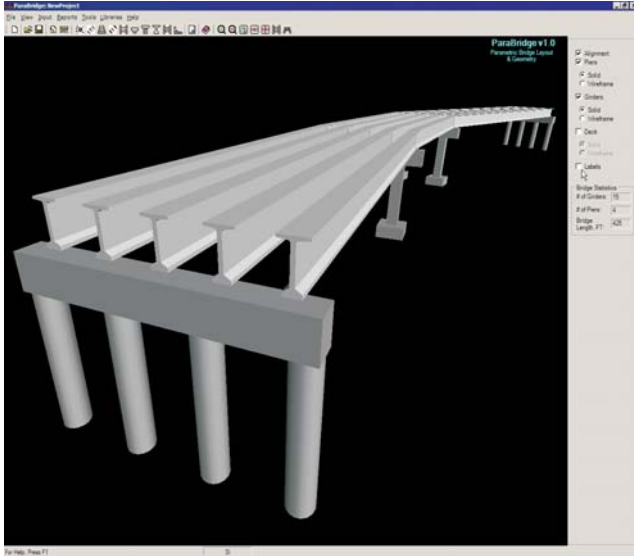
Laying out a bridge has never been easier. Powerful modeling wizards help you rapidly enter bridge alignment data. Girder and pier framing tools give you a highly-leverage means of describing the bridge layout. Piers and girders of multiple types can then be inserted into the project.

The main view is a true 3D model of your bridge. Zoom, rotate, and pan the model in real time. ParaBridge utilizes technically advanced OpenGL graphics, with no third party add-ins. The result: no need to purchase an expensive CAD system to run it.

All pertinent bridge geometry is solved by ParaBridge: deck elevations, girder lengths, bearing data, quantities, etc. The results can be output in a variety of reports or exported to other applications.

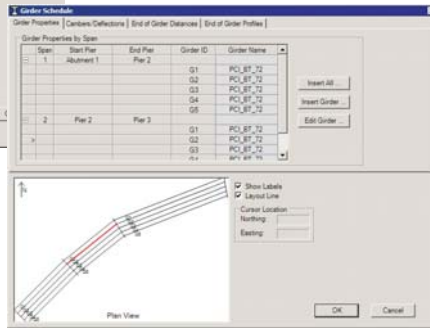
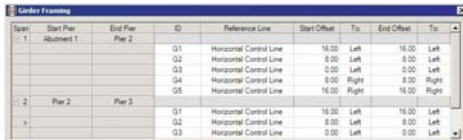
◀ Main View: 3D Graphical Interface

ParaBridge utilizes a cutting-edge 3D graphical interface as its main view. Powerful OpenGL graphics are incorporated to provide for smooth 3D manipulation, perspective, lighting effects, and surface textures for true real-world graphics.



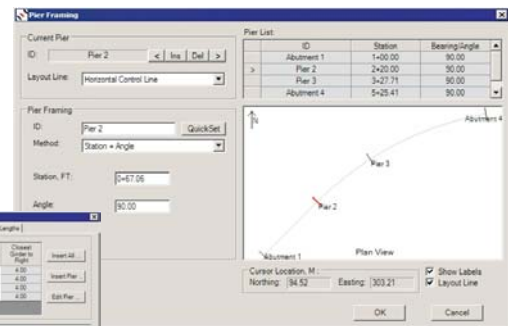
◀ Girder Framing

Thumb-nail sketches are provided for all data entry screens for better understanding of spatial relationships.



▲ Flexible Alignment Definitions

Bridge alignment can be defined quickly and easily, and editing is a snap.



▲ Pier Framing

Locating piers and specifying their details is easy and intuitive.

Key Features

- ✓ Complete geometry solution
- ✓ Fully parametric
- ✓ Dual units: US & metric
- ✓ True 3D visualization
- ✓ Integration with design
- ✓ Export to CAD
- ✓ Comprehensive reports
- ✓ Core of design suite
- ✓ Superior system design



System Features

- MS Windows 98/NT/2000/XP
- .NET Technology
- Network/WAN compatible
- No copy protection
- Highly graphical interface

3D Modeling

- Turn layers on and off
- Turn elements on and off
- Pan, zoom and rotate

Parametric Design

- Auto updating
- Auto recalculation

Alignment Options

- Unlimited elements
- Auto Calculation of Properties
- Bearing seat layout wizard
- Thumbnail sketches

Reference Lines

- Simulate river edges, railroads
- Check clearances
- Parallel or transverse

Roadway Sections

- Any combo of flat, sloped
- Flat to superelevated
- Integrated with ref lines

Pier Layout

- Pier Quickset wizard
- Station bearing
- Station angle

Pier Shapes

- Multi-Column
- Hammerhead
- Access all pier dimensions

Cap Beam Profiles

- Single sloped
- Double sloped
- Pedestals

Girder Layout

- Girder Quickset Wizard
- Offset from ref or layout lines
- Autocalculate end skews, batters

Girder Shapes

- Bulb tees
- Box girders
- U-Beams (tub beams)
- Channel shapes
- Access to all girder dimensions

Dual Units

- U.S. Customary
- SI
- Hot switch

New Project Layout

- Choose from several methods
- Seed file
- Project wizard
- Quick Start

Output Options

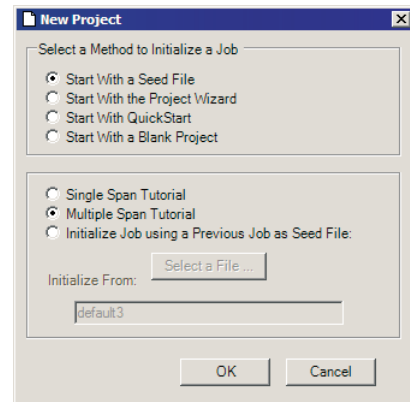
- Highly-graphical output
- Detailed design reports
- At-a-glance status bar
- Export results to other programs

Fast & Efficient Editing

- Spreadsheet-like input & editing
- Data generation wizards
- Scaled graphical views

Program Documentation

- Comprehensive user manual
- Step-by-step tutorial problems
- In-depth theory section
- Detailed QC Manual
- Complete benchmark problem set



Coming Soon!

ParaBridge is scheduled for release soon. For updates on the release date, please visit ErikTech.com or LRFD.com, or call toll-free at 1-866-374-5776 (866-ERIKSSON)