BETTER PROJECT DELIVERY BEGINS WITH BETTER CHANGE MANAGEMENT

DESIGN BETTER CIVIL INFRASTRUCTURE WITH OPENROADS DESIGNER
ADAPTING TO CHANGE IS **KEY**

In the world of civil infrastructure, change is inevitable. As a design professional, your competitive advantage is contingent on meeting contract requirements on time, every time, regardless of continuous change. You need to easily, effectively, and dynamically manage design changes without project delays.

*That’s why designers and engineers turn to OpenRoads Designer.*

Better change management leads to:

- **Better Productivity**
- **Better Accuracy**
- **Better Value**
- **Better Project Delivery**
DO YOUR BEST **BETTER** with OpenRoads Designer

OpenRoads Designer CONNECT Edition was built to address the demands of today’s evolving infrastructure industry. It employs a model-based approach, placing your 3D model at the center of your design as the hub for all data. With your 3D model as the design authority, you can efficiently and confidently work from one live, dynamic model to:

- Design all aspects of your project in one composite model
- Ensure your design data conveys engineered intent
- Incorporate critical project data from all disciplines, such as drainage, utilities, buildings, and more
- Produce a wide array of accurate deliverables confidently

**Watch videos to see how**
OpenRoads Designer’s model-based design approach not only removes the frustrating and tedious work for the designer, but also positively impacts the organization’s return on investment.

**MINIMIZE RE-WORK**
Reference outside data from other consultants on adjacent projects to prevent changes down the road. *Save money and time!*

**ELIMINATE LAG TIME**
Minimize the gap in communication between owners, designers, and contractors, reducing the need for change. *Work faster, better, and for less money!*

**REDUCE TEDIOUS MANUAL WORK**
Make changes and watch them automatically update in all views without user intervention. *Continually refine your design without frustration, error, or project delays!***
The Cul De Sac Canyon Passing Lane and Lapwai Creek Bridge Replacement are companion projects initiated by the Idaho Department of Transportation (IdDOT). The projects include the design of a new 2.5-mile uphill climbing lane along U.S. Highway 95, north of Winchester, Nez Perce County, Idaho, and replacement of nine pipe culverts that prevent native fish migration in the creek. The USD 15 million project will improve traffic flow in the canyon and restore the creek habitat, revitalizing the fishery resources relied upon by the Nez Perce people living on the Lapwai Creek reservation lands.

REAL WORLD SUCCESS

HORROCKS ENGINEERS
Cul De Sac Canyon Passing Lane, Phase 2 and Lapwai Creek Bridge Replacement
Winchester, Idaho, United States

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THE PROJECT TEAM:
Using OpenRoads and ProjectWise, Horrocks Engineers modeled three conceptual design options within a few days and presented the civil models to IdDOT, enabling changes and adjustments in real-time to enhance decision making. Bentley’s roadway capabilities enabled the project team to complete conceptual design services in 213 hours, compared to 314 hours on a similar project, reducing project delivery costs by one-third.

PROJECT PLAYBOOK:
Bentley Map, MicroStation, OpenRoads, ProjectWise
The town of Jamshedpur in Jharkhand, India experiences heavy traffic congestion due to the large number of commercial vehicles traveling to the numerous factories in the area. This project proposes the development of a four-lane elevated corridor, approximately 10 kilometers in length, to bypass the city and connect over 10 factories. Infra Support Engineering Consultants provided conceptual designs and associated cost estimates. The newly proposed roadway will decongest the roadways by having a dedicated corridor for commercial traffic, which will improve transportation time to the factories.

**THE PROJECT TEAM:**
The company used OpenRoads to model existing conditions from topographical surveys and to design three alignment options for the client within three months. Bentley applications facilitated information mobility among the team and stakeholders, and enabled real-time design changes. Using Bentley’s collaborative design software minimized risk management and reduced project delivery and operation costs to deliver an estimated 20 percent return on investment.

**PROJECT PLAYBOOK:**
OpenRoads
OpenRoads Designer provides the latest technology and capabilities to efficiently design, model, and produce project deliverables in a dynamic, interactive, and parametrically enabled environment. This single application supports all aspects of a detailed roadway design, including survey, geotechnical, drainage, subsurface utilities, corridor modeling, analysis, and quantification.

With OpenRoads Designer’s model-centric methodology, you will be efficient and reliable when managing changes to construction documents, such as cross sections and plan profile sheets. Meet project demands on time, every time.

SEE FOR YOURSELF THE POWER OF COLLABORATION WITH OPENROADS DESIGNER

Read User Success Stories >