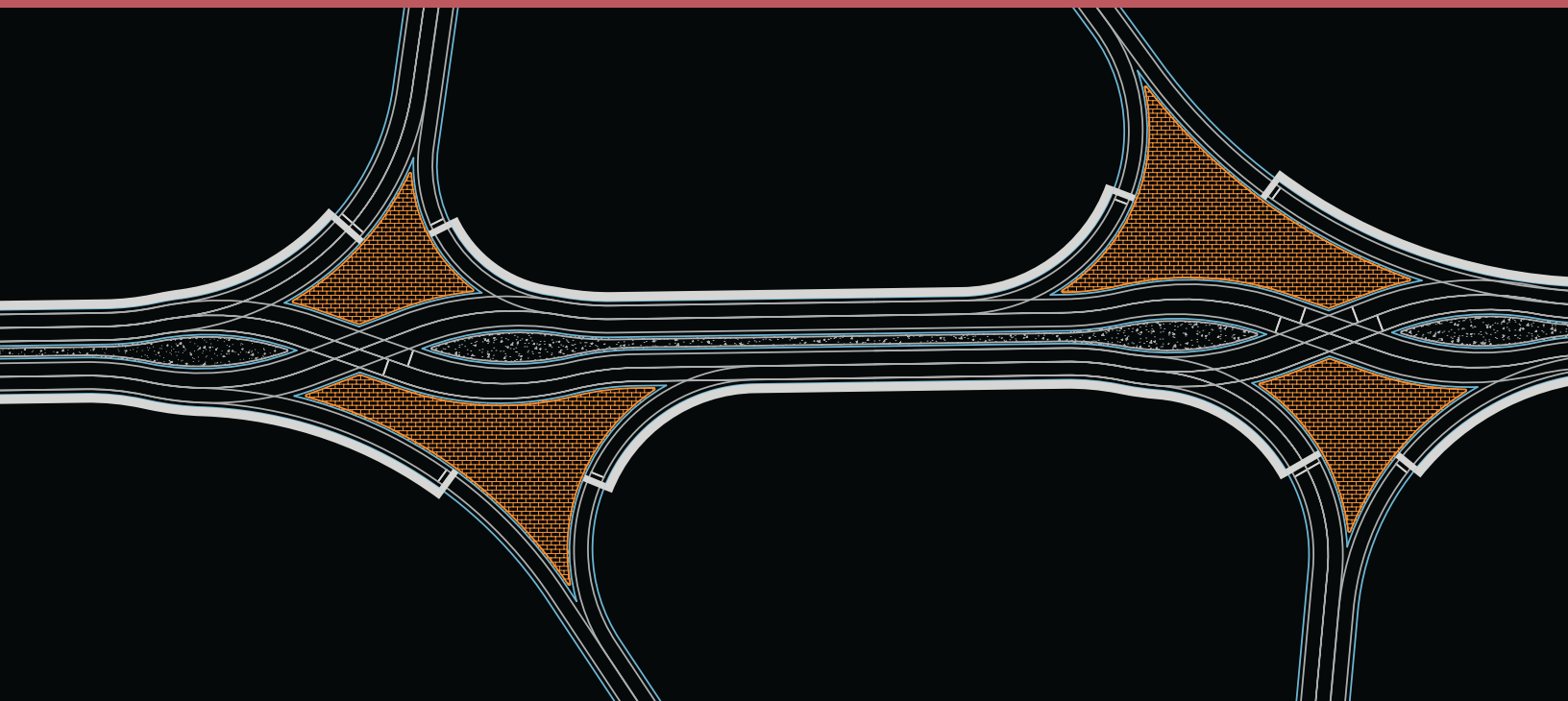




## The Dynamic Design Solution for Diverging Diamond Interchanges



### Quickly Create and Edit DDI Geometries

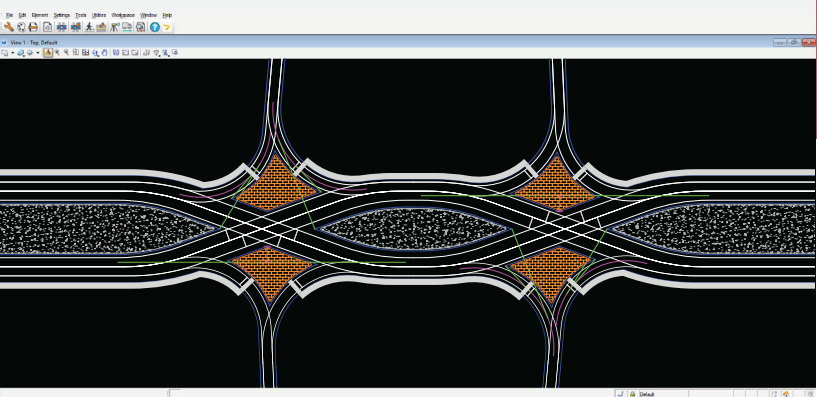
Diverging Diamond Interchanges (DDI) are increasingly being considered as a viable alternative to traditional interchanges due to their capacity to manage high traffic volumes, reduce congestion and accommodate safer left-hand turns.

NEXUS DDI design software enables you to rapidly produce DDI geometry based on site-specific constraints, design guidelines, lane configuration, design speed and vehicles. If you modify the criteria or input parameters governing the design, your DDI geometry will automatically update.

NEXUS DDI saves you valuable time by reducing the need for manual drafting and calculations. The software also provides real-time feedback of geometric elements and safety-related parameters.

Easy to learn and intuitive to use, NEXUS DDI Designers of all skill levels and experience will find NEXUS DDI to be an instantly invaluable tool during proposal, conceptual and preliminary design stages.

*NEXUS DDI is compatible with Autodesk® AutoCAD®, Civil 3D® and Bentley® MicroStation® V8i, CONNECT®*



## Evaluate Design Geometry in Real Time

NEXUS DDI makes it easy to assess and obtain real-time feedback of the geometric parameters of your design, using a variety of proprietary evaluation tools.

- **Evaluate Movements**  
Visualize the effect of the design vehicle movements on the DDI geometry.
- **Evaluate Sight Lines**  
Approach to Crosswalk Sight Line' determines the areas where objects should not be placed in order for the driver to perceive and safely react to pedestrians at the crosswalk.
- **Eyebrow and Median Check**  
Check eyebrow and median geometries to ensure that their location and shape discourage wrong-way movements. The eyebrow and median geometries should break the straight vehicle path between approaches.
- **Glare Screen Check**  
Determine the requirement for and placement of glare screens to prevent vehicle headlights from obscuring drivers' ability to see the road.

## Reduce Geometric Design Iteration Cycles

NEXUS DDI reduces the need for manual generation and editing of DDI geometry. Be more productive using parametric drafting and dynamic design modeling. You can rapidly generate multiple DDI iterations in less time than manually creating and editing using CAD tools. Using NEXUS DDI, the less experienced designers will gain the knowledge and confidence required to start designing more complex DDI's.

## Utilize the Straight-Forward Design Workflow

The intuitive workflow makes NEXUS DDI easy to use, with minimal training required.



### 1. Set DDI Design Guidelines

Design guidelines are used as the foundation of the DDI geometry. If the guidelines are modified during the design process, the geometry will automatically update.



### 2. Generate DDI Design

Define the required lane configurations and assignments. A final DDI footprint is created that accommodates pedestrians and bicyclists.



### 3. Check Design Parameters

The geometry is checked based on your defined conditions and criteria. Instant notifications enable you to easily see where you may need to adjust the geometry.



### 4. Edit Design Dynamically

Modify geometric elements, such as crossover angles and tangent lengths, as well as offset and shift alignments, at any time. Your design is instantly updated and evaluated.

## Contact Us for any Software Inquiries



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Transoft Solutions, Inc. develops innovative and easy to use software for transportation professionals. Since 1991, civil engineers and technologists, architects, and city planners across federal agencies, State DOTs, airport authorities, cities, ports, and infrastructure consultants have come to rely on Transoft's field-researched design solutions. Transoft engineers work closely with the world's leading agencies including AASHTO, ITE, TRB, TAC, Austroads, and CROW to develop highly specialized applications serving over 30,000 users across 120 countries.