

FREQUENTLY ASKED QUESTIONS (FAQ'S):

DIVERGING DIAMOND INTERCHANGE AT SR 808 / GLADES ROAD

As Part of 95 Express Phase 3B-2

Palm Beach County, Florida

Financial project ID Numbers: 433109-5-52-01, 02 / 412420-4-52-01, 435384-1-52-01

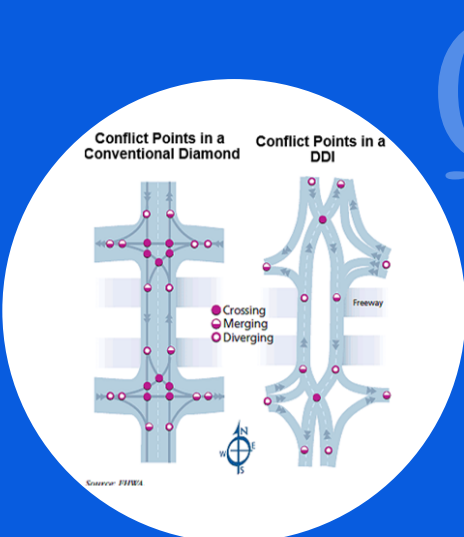
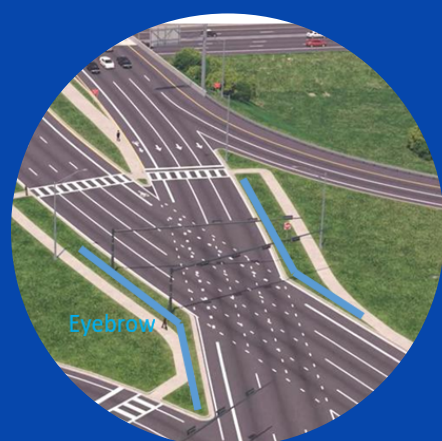
Q.

What is a Diverging Diamond Interchange (DDI)?

A.

A **Diverging Diamond Interchange** (DDI) is a form of diamond interchange that allows the two directions of traffic on the crossroad to temporarily divide and cross to the opposite side of the road to provide easier left turns to and from I-95.

These improvements will help to accommodate future projected traffic demand and improve driver safety, mobility and efficiency.



Q.

How does this design solve traffic problems?

A.

The **DDI** design has demonstrated improved safety and mobility. The reduction of turning movements to and from the highway significantly reduces the number of vehicle-to-vehicle conflict points. The **DDI** also reduces the severity of crashes, as conflicts between left-turning movements and the opposing through movement are eliminated.

Q.

Do drivers need special instructions to use a **DDI**?

A.

Drivers do not need special instructions as the **DDI** model is easily navigable. Drivers will follow overhead signage, pavement markings and traffic signals to cross through the intersection.



Q.

Are **DDI**s safe for motorists and pedestrians?

A.

Yes. The **DDI** improves safety and mobility for all users. The **DDI** design reduces collision conflicts and increases safety by improving sight distance when turning, reducing the potential for wrong-way movement to and from the highway, increasing left turn capacity without the need for additional lanes and reducing the number of times vehicles cross paths. Additionally, pedestrian and cyclist safety increase by routing active transportation users through the median or along the roadway.

Q.

What are the advantages of a **DDI**?

A.

Advantages include but are not limited to:

- **Safety:** A **DDI** reduces the number of ways vehicles can collide by almost half.
- **Increased capacity, mobility and efficiency:** A **DDI** accommodates more traffic than conventional designs and allows drivers to make free-flow right and left turns on to the highway.
- **Easy navigation:** The **DDI** guides drivers with overhead signs, pavement marking and traffic signals.
- **Meets the needs of all road users:** A **DDI** accommodates standard vehicles, large trucks, pedestrians and cyclists alike.



Q.

How is a **DDI** an improvement over a Standard Diamond Interchange?

A.

The **DDI** design offers increased safety and mobility features. It eliminates the need for left-turning vehicles to cross the paths of approaching through vehicles by shifting cross-street traffic to the left side of the road. The **DDI** also reduces the severity and frequency of crashes and helps keep traffic flowing by eliminating signal delay time.



Q.

Will the **DDI** help congestion on Glades Road?

A.

Yes. The **DDI** improves overall traffic operations by minimizing conflict points and facilitating smooth flow of traffic by reducing delay times at signalized intersections.

Q.

What are some specific benefits of the proposed **DDI** at Glades Road/ SR 808?

A.

Implementation of the **DDI** at Glades Road/ SR 808 has demonstrated several benefits, including:

- Improved safety and enhanced mobility
- A projected 9% crash reduction along Glades Road
- A projected 33% crash reduction at the I-95/Glades Road Interchange
- Enhanced safety for motorists, pedestrians and cyclists due to reduction of conflict points for all users
- Increased efficiency of traffic flow along Glades Road due to decreased intersection delays in the area of the interchange
- Increased safety as deletion of existing loop ramps eliminates weaving movements.



Q.

Why is FDOT recommending a **DDI**?

A.

Motorist safety is FDOT's top priority. Diverging Diamond Interchanges are being constructed by Departments of Transportation throughout the country at older, high-volume interchanges based on their increased safety benefits and ability to provide more efficient traffic flow.

CONTACT US...

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FLORIDA DEPARTMENT OF TRANSPORTATION MISSION STATEMENT

THE DEPARTMENT WILL PROVIDE A SAFE TRANSPORTATION SYSTEM THAT ENSURES THE MOBILITY OF PEOPLE AND GOODS, ENHANCES ECONOMIC PROSPERITY AND PRESERVES THE QUALITY OF OUR ENVIRONMENT AND COMMUNITIES.



Please visit http://www.d4fdot.com/pbfdot/95_express_phase_3b2.asp for additional information.

