

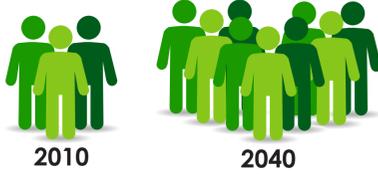
NEEDS OF THE PROJECT

PURPOSE AND NEED - The primary need for this project is to add lanes to the State Road (S.R.) 826 corridor to meet future transportation demand, improve travel time reliability and to provide long-term mobility options. Other considerations for the purpose and need of this project include safety, system linkage, freight movement, transit and emergency evacuation.

Corridor Travel Demand

- The project traverses four of the six Miami-Dade County transportation planning areas (Central, Northwest, South, and West).
- Population and employment growth between the years 2010 and 2040:
 - ▶ Central: Population increase by 27.9% and Employment increase by 32.5%
 - ▶ Northwest: Population increase by 20% and Employment increase by 41.9%
 - ▶ South: Population increase by 49.6% and Employment increase by 64.5%
 - ▶ West: Population increase by 12.5% and Employment increase by 42.5%
- The projected growth in the area will result in a significant increase in travel demand and further deteriorate the conditions of the already congested S.R. 826 corridor.

12.5-64.5% increase in growth from year 2010 to 2040



Safety

- 4,729 crashes along the corridor between the years 2014 and 2018.
 - ▶ 2,653 (56%) Rear-end Crashes
 - ▶ 1,149 (24%) Sideswipe Crashes
- Crashes due to the heavy levels of congestion and operational weaving conditions.
- Congestion will lead to increase in accidents.

Collisions due to heavy congestion and constant stop-and-go

Interchange Improvements

- Some of the S.R. 826 expressway segments currently operate or are anticipated to operate below Level of Service (LOS) D.
- Some interchanges, ramp terminals and cross street intersections also operate or are anticipated to operate below LOS D.

Additional improvements are needed now

Transit Operations

- Existing congestion impacts transit operations.
- Additional lanes provide opportunities for transit expansions.

Impacting transit operations



Speeds drop to 20-40 MPH



Travel Time Reliability

- Without corridor improvements, speeds are expected to drop between 20-40 MPH during peak periods.

20 MPH



Freight

- S.R. 826 carries over 10,000 trucks a day.
- The enhanced traffic conditions along the S.R. 826 corridor would aid in the movement and delivery of freight.

Increase in freight will impact traffic



System Linkage

- This project provides continuous corridor improvements along SR 826 and connects with the recent and proposed I-75 and I-95 corridor improvements.
- S.R. 826 is designated as an Strategic Intermodal System facility.
- S.R. 826 provides system-level connections to I-95, Florida's Turnpike, I-75, S.R. 924, and S.R. 874.

Missing link for corridor improvements



Long-Term Mobility

- Residents and workers in the area will face severe congestion impacting their economic viability and quality of life.
- Congestion will lead to an increase in accidents.

Severe congestion impacts the economy of the cities

Part of emergency evacuation route



Emergency Evacuation

- S.R. 826 is listed as a local evacuation route in Miami-Dade County.
- S.R. 826 corridor is critical in facilitating traffic movement during emergency evacuation periods.
- S.R. 826 connects to other major arterials and highways within the state evacuation route network.



STATE ROAD (S.R.) 826/PALMETTO EXPRESSWAY PD&E STUDY

From United States (U.S.) 1/S.R. 5/Dixie Highway to NW 25th Street
 FPID No.: 432639-1-22-02 • ETDM No.: 14308

