

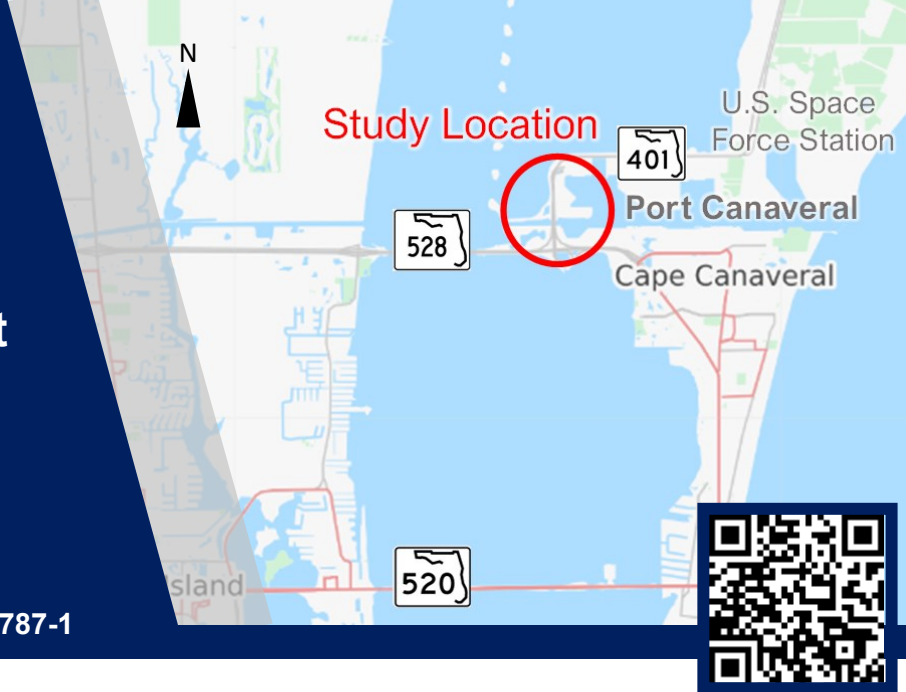


S.R. 401 Bridge Replacement PD&E Study

from S.R. 528 to north of the
Canaveral Barge Canal

Brevard County

Financial Project Identification (FPID) No.: 444787-1



Project Description

The Florida Department of Transportation (FDOT) is conducting a Project Development and Environment (PD&E) study to evaluate improvements to the State Road (S.R.) 401 bridges from S.R. 528 to north of the Canaveral Barge Canal.

The purpose of this study is to develop and analyze alternatives for improving the bridges to address access, future mobility, congestion, and safety needs. S.R. 401 provides a vital connection to Port Canaveral's operations including major cruise and cargo terminals. The S.R. 401 bridges also serve as the primary access to U.S. Space Force Station, Naval Ordnance Test Unit, U.S. Coast Guard facilities, and Space Florida operations.

Four alternatives were considered for the S.R. 401 Bridges:

- No Build (assumes no improvements would be made)
- High-Level Fixed Bridge
- Mid-Level Lift Bridge
- Mid-Level Bascule Bridge (Drawbridge)

Existing physical, natural, social, and environmental features within the study limits were surveyed in detail and taken into consideration during the PD&E study. Following the preliminary analysis, the Department identified and refined the preferred alternative, the High-Level Fixed Bridge.

Project Status and Estimated Costs*

PD&E Study:	Ongoing: Completion 2023	\$ 2 Million
Design:	Begin Spring 2023, Completion 2024	\$ 2 Million
Right of Way:	Unfunded	—
Construction:	Unfunded	—

*subject to change

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PD&E Study Alternatives

No Build Alternative

The no build alternative assumes that no improvements would be made to the three existing parallel bascule bridges (drawbridges) on S.R. 401. One of the existing bridges is for northbound traffic, and two bridges for southbound traffic. Each bridge provides:

- 12-foot-wide travel lanes
- Minimum 2-foot-wide shoulders
- 25-foot vertical clearance over the Canaveral Barge Canal
- 90-foot horizontal clearance (distance between the bridge fenders)

S.R. 401 Bridge Build Alternatives

The build alternatives analyzed during the PD&E study would provide two bridges with three 12-foot-wide travel lanes in each direction and 5 to 10-foot wide inside and outside shoulders. The horizontal clearance for the build alternative bridges is 90 feet. The build alternatives included a Fixed Bridge Alternative, a Lift Bridge Alternative, and a Bascule Bridge (Drawbridge) Alternative.

S.R. 401 Bridge Preferred Alternative Evaluation

Environmental considerations and possible impacts associated with the project are important elements of the study. In addition to engineering and traffic considerations, the study team evaluated the potential physical, natural and social project effects of the build alternatives and coordinated with local project stakeholders to determine the preferred alternative for this project.

Based on our evaluation, the High-Level Fixed Bridge Alternative, illustrated to the right, will address access, future mobility, congestion, and safety needs of the area, and result in the least physical, natural and social effects. The preferred alternative meets the project purpose and need while minimizing potential impacts to the natural and human environments. Features of the preferred alternative include:

- Two high-level fixed bridges
- 65-foot vertical clearance
- 6% maximum roadway grade

