

I-595 P3 Project

Location: Davie (Broward County), Florida

Cost: (Entire P3 Project/Design-Build Project) \$1.7 billion/1.2 billion

Completion Date: March 2014

Owner: District Four, Florida Department of Transportation (FDOT)

Partners: FDOT, Dragados USA (Dragados), ACS Infrastructure Development (ACS ID), AECOM, Finley Engineering and VSL.



Located in Broward County, Fla., the I-595 Corridor Roadway Improvements project entails median widening to add three reversible managed lanes, reconstruction of the existing six-lane mainline and two-lane frontage roads, and improvements to four major interchanges. At the interchange of I-595 with University Drive, the original plan was to remove both flyover ramps. Dragados USA proposed changes that allowed keeping one flyover and salvaging most of the five-span, 962-ft. Ramp N.

Ramp N modified design concept was recognized by Florida Department of Transportation's (FDOT) Project Manager Paul Lampley as one of the project's biggest challenges, but one that significantly minimized traffic disruptions. Stringent traffic restrictions required completion and reopening in less than 120 days. Dragados jacked up the 2,360 tons of Ramp N on

July 14, 2012. Twenty-four hydraulic jacks with an Enerpac ESS Synchronous Lift System and four hydraulic jacks per pier lifted the flyover 18 inches in 18 steps of one inch. After the jacking, Dragados completed the demolition, retrofit and upgrade of all bridge components, and reconstruction of the southern end of the flyover in 116 days, reopening Ramp N to traffic on November 7, 2012.

Value engineering and innovation are critical to realize the possibilities offered by alternative procurement. Extending the life of existing assets, such as the I-595 University Drive structure, provided an overall project savings of \$200 M on the I-595 P3 project. The project will be completed by the end of March 2014, in time and on budget.