

## Broadway Bridge

A HOCHTIEF Company

### Owner

Florida Department of Transportation

### Location

Daytona Beach, FL

### Value

\$40,300,000

### Market

Bridges

### Start - Completion Dates

11/1998 - 5/2001

- Twin 3,008-foot precast segmental concrete box girder bridges
- 352 segments weighing 95 to 110 tons each
- Architectural details including mosaic pier decoration

## Project Description

Flatiron was the general contractor for this new bridge over the Halifax River/Intra-coastal Waterway in Daytona Beach, Fla. The twin precast segmental box girder bridges replaces an existing four-lane bascule bridge. Flatiron erected the bridge using the balanced cantilever method with a bargemounted rigger crane. To protect the wetlands as much as possible, the portion of the bridges over the water were constructed from the top down and piles were driven from an overhanging frame.

The piers range in height from 7.7 to 13 feet, and accommodate 352 segments. The new bridges have a 65-foot vertical clearance over a 125-foot channel. Each bridge is approximately 3,011 feet in length with span lengths from 98.4 feet to 262.5 feet.

This bridge carries traffic to and from Daytona's scenic beaches. The structure features mosaic tiles designed with native Florida wildlife on the piers and sculpted sidewalk panels, customized aluminum hand rails, customized light poles cast with arms to carry banners and architectural lighting to illuminate the bridge piers at night.

### Company Role

Flatiron was the general contractor for this project.

### Awards

- American Council of Engineering Companies (ACEC) – Grand Award, 2002
- Federal Highway Administration (FHWA) – Excellence in Highway Design, 2002
- Florida Institute of Consulting Engineers – Grand Award, 2002
- International Bridge Conference – Gustav Lindenthal Medal, 2002
- Spectrum Grand Prize, 2002

