

## Washington Bypass Bridge

Beaufort County, NC

### Project Description

This project involves construction of a three mile bridge over the Pamlico-Tar River. The contractor utilized a new top-down construction technique to ensure minimal disturbance to the surrounding environment. The span-by-span construction method uses the previously constructed spans for personnel access and material deliveries. The process consists of self-contained erection gantries capable of performing all tasks associated with the bridge construction, including driving the precast piles, building the precast bent caps, erecting the 120-foot-long precast girders, and pouring the deck. All of these operations were performed without the use of temporary access trestles, thus significantly reducing environmental disturbances.

### Owner

North Carolina Department of Transportation

### Contractor

Flatiron Construction Corp. / United JV

### Designer

Earth Tech

### Our Role

McNary Bergeron provided peer review of the erection gantry design, peer review of construction loads on the structure during construction, and assistance with developing the erection manual.

### Total Contract Value

\$196 million

### Timeline

2006-2010

### Construction Method and Specifications

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