

Woodrow Wilson Bridge

Washington DC

Project Description

Located in Washington, DC, the Woodrow Wilson Memorial Bridge is a 6,000-foot long replacement for the existing structure which carries Interstate I-95 / I-495 over the Potomac River.

The twin replacement structures feature deck widths of up to 148 feet utilizing a unique structural system that mimics the arch bridge at other points along the Potomac River.

The concrete v-shaped piers were designed to be built using the precast segmental method. There are four steel girders which sit atop each V-Pier and support a reinforced concrete deck. The 175-foot navigation channel is spanned with an eight-leaf double bascule structure.

Owner

Maryland Department of Transportation

Contractor

Maryland Approach - Potomac Constructors LLC -
Edward Kraemer & Sons / American Bridge /
Trumbull JV

Designer

Parsons

Our Role

McNary Bergeron engineers were primarily involved in the design of the Precast V-Pier substructure. McNary Bergeron provided construction engineering services including:

- Design of erection equipment and temporary supports for erection of V-pier segments.
- Integrated segment shop drawings.
- Design of work trestle system and temporary piers and bulkheads.
- Independent design check of specialized erection equipment.

Total Contract Value

\$2.5 Billion (WW Project)

Timeline

2000 - 2008

Construction Method and Specifications

The project consisted of segmental concrete V-piers that were erected with temporarily stayed cantilevered V-piers

