

# Long-Span and Specialty Bridges





## Innovate

We think without limits to deliver the most recognizable, technologically advanced bridges in the world.

## Collaborate

We connect more than 675 bridge specialists in 75 offices across North America to pursue smart, creative solutions to our clients' most pressing challenges.

## Sustain

We design bridges with a focus on long service life and ease of maintenance, creating sustainable assets for the communities we serve.

This page:  
Sea Cliff Bridge and Lawrence Hargrave Drive Upgrade  
Illawarra, New South Wales, Australia

Cover:  
Charles W. Cullen Bridge at the Indian River Inlet  
Rehoboth Beach, Delaware, United States





Ranked #1 in Transportation by Engineering News-Record, AECOM is consistently recognized as an industry leader pushing the frontiers of bridge technology.

**Organized globally. Delivered locally.**

AECOM is a fully integrated infrastructure and support services firm. With nearly 49,000 professionals serving clients in more than 50 countries, we are able to positively impact lives, transform communities and make the world a better place.

In North America, we have more than 675 structural specialists to help you tackle complex bridge projects. From designing the highway and transit bridges of our future, to rehabilitating important heritage structures, our expertise spans the entire bridge life cycle. As a top-ranked firm by ENR in Transportation and Bridges, we bring together teams of practice leaders, engineers, technicians, inspectors and project managers to tackle the world's most complex bridges.

Whatever the delivery method or funding mechanism, we offer public and private organizations fully integrated bridge services. When alternative financing or

user fees are employed, we offer our clients and partners a distinct advantage by complementing the skills and experience of our local structural professionals with those of our seasoned specialists in these fields.

We take great pride in our people — a winning team that brings passion and dedication to every project, and works diligently to deliver reliable, sustainable and visionary bridges for our clients. Our approach seamlessly combines world-class bridge design with project knowledge and sensitivity to local issues. We draw on our global expertise and our experience with innovative design solutions and state-of-the-art materials and meld them with our local offices, where we have firsthand familiarity with community and regional standards, materials and design methodologies.

# Cable-stayed bridges



**Pearl Harbor Memorial Bridge**

New Haven, Connecticut, United States  
*Conceptual, preliminary and final design;  
 construction support*  
 2015



**Ironton Russell Bridge  
 Over the Ohio River**

Ironton, Ohio, United States  
*Conceptual, preliminary and final design;  
 construction support*  
 2015



**Charles W. Cullen Bridge at  
 the Indian River Inlet**

Rehoboth Beach, Delaware, United States  
*Comprehensive design and erection  
 engineering services under the  
 design-build delivery method*  
 2012



**Fred Hartman Bridge**

LaPorte, Texas, United States  
*Conceptual, preliminary and  
 final design; construction support*  
 1995



**Peace Bridge**

Derry/Londonderry, Northern Ireland  
*Design services for a feasibility study  
 for a bridge across the River Foyle*  
 2011

## OTHER CABLE-STAYED BRIDGES:

### **East Fork White River Bridge**

- Columbus, Indiana, United States

### **Bridge of Honor over the Ohio River**

- Pomeroy, Ohio, United States

### **Ma Wan Viaducts and Kap Shui Mun Bridge**

- Hong Kong

### **Sutong Bridge Contract 3**

- Jiangsu Province, China

### **Stonecutters Bridge**

- Hong Kong

### **IH-35 Bridges Over the Brazos River**

- Waco, Texas, United States

### **Queensferry Crossing over the Firth of Forth**

- Scotland

### **Mary McAleese Boyne Valley Bridge**

- County Meath and County Louth, Ireland

### **Taney Bridge**

- Dublin, Ireland

### **Tawatina Bridge on Edmonton Valley Light Rail Southeast Line**

- Edmonton, Alberta, Canada

### **East 153rd Street Bridge**

- New York, New York, United States

### **Mekong River Bridge at My Thuan**

- Tien Giang and Vinh Long, Vietnam

### **Schuylkill River Pedestrian Bridge**

- Philadelphia, Pennsylvania, United States

## Iconic:

This is \$5.7 B (CAD) Public-Private-Partnership project includes ports of entry on the U.S. and Canadian sides, a major interchange with I-75 of the U.S. side and a long span bridge crossing the Detroit River. The bridge is a cable-stayed bridge with a 2,800 foot main span, representing the longest cable stayed bridge in North America and the 7th longest cable stayed bridge in the world. The design uses a composite superstructure and an inverted Y-shaped tower that is 700 feet tall.

### **Gordie Howe International Bridge**

Windsor, Ontario, Canada & Detroit,

Michigan, United States

*Concept Development,*

*Final Design; Erection Engineering*

*and construction support*

Ongoing



# Arch bridges

## OTHER ARCH BRIDGES:

**McFarland Bridge** – Tuscaloosa, Alabama, United States

**Columbus Gateway Bridge** – Columbus, Indiana, United States

**Lincoln Street Bridge** – Spokane, Washington, United States

**Damen Avenue Bridge** – Chicago, Illinois, United States

**Martin Luther King Jr. Parkway Bridge** – Des Moines, Iowa, United States



**2nd Street Bridge**

Austin, Texas, United States  
*Design and construction support*  
2016



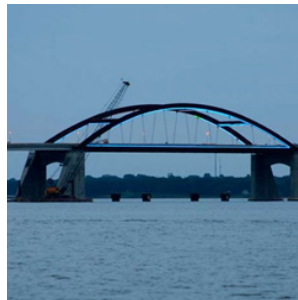
**River Usk Bridge**

Newport, Wales  
*Design, construction support, erection engineering*  
2004



**George Washington Carver Bridge**

Des Moines, Iowa, United States  
*Corridor study; corridor environmental assessment; conceptual, preliminary and final design; construction services*  
2005



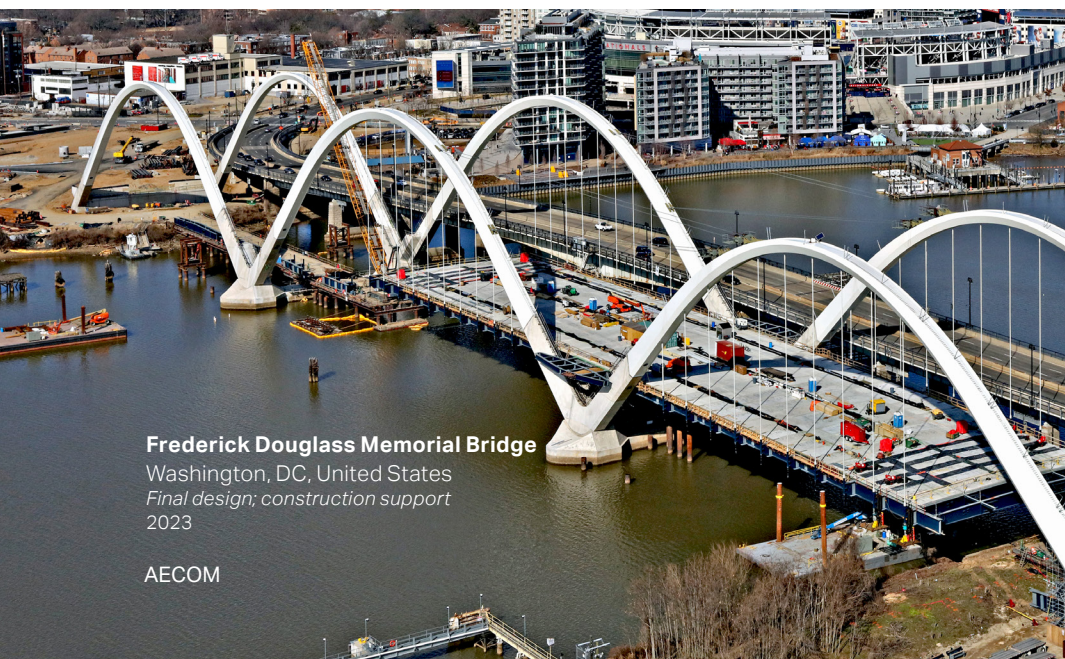
**Lewisville Lake Toll Bridge**

Little Elm and Lake Dallas, Texas, United States  
*Conceptual, preliminary and final design; construction support*  
2009



**Arapaho Road Bridge**

Addison, Texas, United States  
*Conceptual, preliminary and final design; construction support*  
2006



**Frederick Douglass Memorial Bridge**

Washington, DC, United States  
*Final design; construction support*  
2023

AECOM

## Big impact:

This suspended deck arch bridge stands as a signature architectural landmark..

Its multiple arches and 540-foot-long spans create an impressive urban gateway to the U.S. Capitol and the Monumental Core.



# Pre-cast segmental concrete bridges



**Selmon West Extension  
Design-Build**  
Tampa, Florida, United States  
*Final design; construction support*  
2021



**Central Artery Tunnel Project**  
Boston, Massachusetts, United States  
*Detailed design and documentation; construction support services*  
2004



**West Link M7**  
Sydney, Australia  
*Design; construction engineering support.*  
2006



**Réseau Express  
Métropolitain (REM)**  
Montréal Quebec, Canada  
*Tender design; detailed design and documentation; construction stage services*  
On-going



**Ringling Causeway Bridge**  
Sarasota, Florida, United States  
*Tender design; detailed design and documentation; construction stage services*  
2003

## OTHER PRECAST SEGMENTAL:

**I-49 Connector** – Lafayette, Louisiana, United States

**Tampa Hillsborough Crosstown Expressway** – Tampa, Florida, United States

**MIC Earlington Heights Connector** – Miami, Florida, United States

**Taiwan High Speed Rail Design-Build** – Kaosiung, Taiwan

**The Big I (I-25/I-40 Interchange)** – Albuquerque, New Mexico, United States

**Palmetto/Dolphin Interchange (SR 826/SR 836)** – Miami, Florida, United States

**H3 Windward Viaduct** – Oahu, Hawaii, United States

**I-595 US441 Interchange** – Fort Lauderdale, Florida, United States

**Vancouver Sky Train Design-Build** – Vancouver, British Columbia, Canada

**Bangkok Transit System** – Bangkok, Thailand

**Bang Na Expressway** – Bangkok, Thailand

**US 1 Roosevelt Bridge** – Stuart, Florida, United States

**I-595 Corridor Improvements P3** – Fort Lauderdale, Florida, United States

**Tren Urbano Rail System** – San Juan, Puerto Rico

**Sir Leo Second Gateway (approach spans)** – Brisbane, Queensland, Australia

**Réseau express métropolitain (REM)** – Montreal, Quebec, Canada

**HART Airport & City Center Segments** – Honolulu, Hawaii, United States

## Landmark:

One of the greatest engineering feats of the past century, this is the world's longest bridge over ice-covered waters. At 8 miles, it takes nearly 12 minutes to cross the bridge.



**Confederation Bridge**  
Prince Edward Island and New Brunswick, Canada  
*Designer-of-record; design and documentation; construction engineering*  
1997



# Cast-in-place segmental concrete bridges



**Excelsior Boulevard Crossing**  
Minneapolis, Minnesota, United States  
*Detailed design and documentation;  
construction stage services*  
2023 (estimated)



**Memorial Causeway Bridge**  
Clearwater, Florida, United States  
*Tender design; detailed design  
and documentation;  
construction stage services*  
2002



**Sea Cliff Bridge and Lawrence  
Hargrave Drive Upgrade**  
Illawarra, New South Wales, Australia  
*Concept and preliminary design;  
detailed design and documentation;  
construction stage services*  
2005



**Florida Avenue Bridge**  
New Orleans, Louisiana, United States  
*Bridge types studies; preliminary  
and final design; contract  
documentation*  
2008



**Bay Bridge East Approach**  
San Francisco and Oakland,  
California, United States  
*Structure construction  
engineering and inspection  
services*  
2013



**Folsom Lake Crossing**  
Sacramento, California, United States  
*Design review*  
2009



## Sir Leo Hielscher Bridges

Brisbane, Queensland, Australia  
*Detailed design; construction engineering;  
construction support*  
2010

## Built to last:

A 300-year design life incorporates advanced technology and materials that increase durability.

Expansion joints and bearings are placed in only three locations to significantly reduce maintenance requirements.

#### About AECOM

AECOM is the world's trusted infrastructure consulting firm, delivering professional services throughout the project lifecycle – from advisory, planning, design and engineering to program and construction management. On projects spanning transportation, buildings, water, new energy, and the environment, our public- and private-sector clients trust us to solve their most complex challenges. Our teams are driven by a common purpose to deliver a better world through our unrivaled technical and digital expertise, a culture of equity, diversity and inclusion, and a commitment to environmental, social and governance priorities. AECOM is a Fortune 500 firm and its Professional Services business had revenue of US\$14.4 billion in fiscal year 2023. See how we are delivering sustainable legacies for generations to come at [aecom.com](https://aecom.com) and [@AECOM](https://twitter.com/AECOM).

