Comprehensive Bridge Expertise
For more than 100 years, HNTB has been recognized as the industry’s leader in planning, design and construction of complex span and movable bridges. The firm provides full-service capabilities and employs advanced technology, including state-of-the-art analysis and design software, 3-D modeling and animation, to ensure each structure meets the client’s and community’s unique needs.

UNSURPASSED TECHNICAL EXCELLENCE IN SPAN STRUCTURES
Using a dynamic design-bid-build strategy, the HNTB-designed bridge was completed in half the time of a typical project of similar size and complexity.

Lake Champlain Bridge Replacement | New York and Vermont

Amelia Earhart Memorial Bridge | Kansas

Franklin Avenue Bridge Rehabilitation | Minnesota

DESIGNER

ACCELERATED BRIDGE DELIVERY
The 4,347-foot-long, 15-span bridge has eight delta frames, all of which vary in size and have different girder lines as a result of the curvature of the bridge. The George V. Voinovich Bridge is the first of two replacement structures.

SEGMENTAL BRIDGES

HNTB was the erection engineer for phases three and four of the completed widening project, which created an integrated 135-foot-wide, triple barrel superstructure, doubling the bridge’s available road surface in width.

TRUSS BRIDGES

GIRDER BRIDGES

Huey P. Long Bridge Widening Project | Louisiana

George V. Voinovich Innerbelt Bridge | Ohio

Jeremiah Morrow Bridge | Ohio

U.S. 90 Bridge across St. Louis Bay | Mississippi
CABLE-STAYED BRIDGES

Designed in half the time of similar bridges, the four-lane bridge carries 55,000 vehicles daily and includes the Tri-Level Interchange, the I-70 Connection and the Missouri North Interchange totaling 6,500 feet of structure and 76.1 roadway lane miles. With a main span of 1,500 feet, the new bridge is the third longest cable-stayed structure in the United States.

OWNER'S REPRESENTATIVE

OWNER'S ENGINEER
PEDESTRIAN BRIDGES

HNTB designed the complex cable-stayed bridge of 2,224 feet that gracefully curves over the Missouri River. It’s one of the longest pedestrian bridges in the country.

SUSPENSION BRIDGES

HNTB provided construction management, scheduling, claims management and inspection support services on the first, second and third phases of the Golden Gate Bridge comprehensive seismic retrofit project. The firm also is the designer on the new suicide deterrent system and new traveler additions.
HNTB achieved the project goal — to design a movable bridge that would be open to traffic immediately after a minor earthquake and be closed to traffic for a very limited time for repairs after a major earthquake — by implementing innovative ideas such as the sunken caisson foundations, isolated trunnion frame and a collapsible center joint on the lift spans.
The bridge is a long-span light rail and pedestrian-use only bridge, the first of its kind in the United States. The bus and rail transit modes share a single lane in each direction, and the pedestrian and bicycle lanes are provided on shared-use facilities across the bridge.

As the lead designer and construction support consultant, HNTB’s innovative approach using ABC for the I-84 Bridges over Dingle Ridge Road, successfully replaced the twin bridges within two 20-hour weekend closures — saving the client money and one year of construction time.

Mulholland Drive over I-405 | California

Walnut Avenue Bridge | California

I-84 over Dingle Ridge Road | New York

Tilikum Crossing Bridge | Oregon