



International North America

Client

Ohio Department of Transportation

Location

Dayton, OH, USA

"...the I-70/I-75 interchange will be one of the most modern, efficient, and safest interstate crossroads in the country."

— William Harrison,
District 7 Deputy Director, Ohio
Department of Transportation



I-70/I-75 Interchange Reconstruction Design

Project Description

What started as a study and CH2M HILL's first major Ohio transportation project in 1996 is now a nationally prominent construction project that is modernizing the state's highway system. According to the Ohio Department of Transportation (ODOT), the I-70/I-75 interchange reconstruction project is a key strategy for providing efficient statewide transportation by relieving bottlenecks in the state's highway network.

ODOT turned to CH2M HILL as a trusted partner to design a safer, more efficient interchange. Reflecting confidence in our abilities following our completion of a modernization study in 1998, ODOT subsequently awarded us the design contracts for Phases 1, 2, and 3 "sole source." The design converts the existing I-70/I-75 cloverleaf interchange (designed in the 1950s and built in the 1960s) to a directional interchange. The project is transforming the interchange known as the "Crossroads of America" into what ODOT is confident will be one of the safest, most modern and efficient interstate crossroads in the country.

Phase 1 involved construction of the Benchwood/Wyse interchange, a replacement service interchange on I-75, located 1 mile south of the I-70/I-75 interchange. Phase 2 included the reconstruction of four of the eight ramps, and a major portion of the I-70 mainline. It features a new, two-lane, 1/2-mile-long directional flyover ramp from northbound to westbound. Phase 3 involves completing the final four directional ramps, two interstate approaches to the interchange, eight bridges, drainage, utilities, and landscaping.

Context-sensitive design sessions resulted in a project theme, "Where Great Ideas Take Flight," reflecting Dayton's heritage as a birthplace of invention and home of the Wright brothers. Design elements illustrating the history of flight are incorporated into the interchange walls.

In addition to the I-70/I-75 interchange, the project involves reconstructing several highway bridges, a railroad bridge, retaining walls, and several intersections and connecting roadways. All combined, it is the largest project in ODOT District 7's history.