

## Chicago Skyway Rehabilitation

Chicago Department of Transportation (CDOT)

*Location*  
Chicago, Illinois

*Construction Completion*  
2005

*Construction Cost*  
\$50 million

*DMA Services Provided*  
Structural Engineering



The Chicago Skyway is the only toll highway in Illinois that is not operated by the Illinois Toll Highway Authority. Formerly operated and maintained by the Streets and Sanitation Department it is now owned and operated by the City of Chicago. A comprehensive renovation of the bridge structure was performed.

David Mason & Associates was responsible for the design of the replacement and repair of many damaged and corroded structural members in this fifty-year old truss bridge.

Many factors contributed to the complexity of this project, including the age of the structure, height, varying degrees of deterioration in the structural members, poorly preserved as-built plans and tremendous variation in the original design. Various other rehabilitation projects were scheduled concurrently on the Skyway and consideration had to be given to the design to ensure constructability and minimize conflict between contractors. The existing superstructure consisted of longitudinal built-up girders, plate girder supported floor beams, deck truss, half-trough truss, and through truss sections. The client, CDOT, required half of the bridge to remain open to traffic, presenting the unique challenge of replacing non-redundant transverse members in stages. DMA also assisted in the development and design of the temporary support methodology and members required to maintain structural integrity while construction proceeded.

