

# Wisconsin Department of Transportation LRFD Implementation

LRFD and LRFR training was provided to WisDOT staff and Wisconsin consultants.



"This training had the highest participant ratings that the WisDOT Bureau of Structures has ever received. Baker has an extensive training staff... WisDOT staff regard the reward of the quality provided by this training."

The Baker/Strand team revised Wisconsin's Bridge Manual for LRFD and online capabilities.



"WisDOT's existing Bridge Manual is highly regarded... this new manual is even better. Many positive comments have been received regarding the published online manual. Engineers across the state are now doing consistent, reliable designs."



A software suite of four new LRFD bridge design programs was developed and is now being used by WisDOT.



"These software programs are highly complex and they provide analysis and improved design ability for WisDOT Bureau of Structures designers."

WisDOT, Baker, and Strand worked as an integrated project team.



"The results of this project have been immensely successful and this consulting team highly exceeded the quality of the deliverables and expectations of WisDOT Bureau of Structures."

## PROJECT HIGHLIGHTS

- Updated Wisconsin Bridge Manual content to the AASHTO LRFD bridge code, enhanced consistency and aesthetics.
- Developed the manual using state-of-the-art formatting and production software that enables online publishing of updates and downloading.
- Provided LRFD training to WisDOT bridge engineers and Wisconsin consulting engineers.
- Developed LRFD software for design of concrete slabs, steel girders, steel field splices, and prestressed concrete girders.
- Created a control system to integrate software suite and provide common functionality and libraries.



Client/Owner:  
Wisconsin Department  
of Transportation

Baker



Entrant Firms:  
Michael Baker Jr., Inc.  
Strand Associates, Inc.

ACEC

American Council of Engineering Companies  
of Wisconsin