CONCRETE CONNECTIONS

Concrete Connections is an annotated list of websites where information is available about concrete bridges. Links and other information are provided at www.aspirebridge.org.

IN THIS ISSUE

http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_603.pdf
This is a link to NCHRP Report 603 *Transfer, Development, and Splice Length for Strand/Reinforcement in High-Strength Concrete* which is mentioned in the LRFD article on page 52.

http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_595.pdf
This is a link to NCHRP Report 595 titled *Application of the LRFD Bridge Design Specifications to High-Strength Structural Concrete: Flexure and Compression Provisions* which is mentioned in the LRFD article on page 52.

http://www.fhwa.dot.gov/publications/research/infrastructure/bridge/13061/13061.pdf
This is a link to FHWA Publication No. FHWA-HRT-13-061 *Lightweight Concrete: Mechanical Properties* which is mentioned in the LRFD article on page 52.

http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_579.pdf
This is a link to NCHRP Report 579 *Application of LRFD Bridge Design Specifications to High-Strength Structural Concrete: Shear Provisions* which is mentioned in the LRFD article on page 52.

http://www.fhwa.dot.gov/everydaycounts/
This link is to the webpage for FHWA's Every Day Counts initiative which is mentioned in the Partner Spotlight article on page 25.

http://www.pci.org/uploadedFiles/Siteroot/Education/_Related_Content/Related_Content_Files/Big-Beam-Rules-2015.pdf
This is a link to the official rules for the PCI's Big Beam Contest 2015 which is mentioned in the Professor's Perspective article on page 32.

http://www.fhwa.dot.gov/bridge/construction/pubs/hif13026.pdf
This is a link to FHWA Publication No. FHWA-NHI-13-026 *Post-Tensioning Tendon Installation and Grouting Manual* which is mentioned in the FHWA article on page 36.

http://www.nhi.fhwa.dot.gov/training/course_search.aspx?course_no=130053
This is a link to the description of NHI Course No. FHWA-NHI-130053 *Bridge Inspection Refresher Training* which is mentioned in the FHWA article on page 36.

http://www.fhwa.dot.gov/bridge/seismic/nhi130093.pdf
This is a link to FHWA Publication No. FHWA-NHI-15-004 LRFD *Seismic Analysis and Design of Bridges Reference Manual* which is mentioned in the FHWA article on page 36.

https://www.nhi.fhwa.dot.gov/training/course_search.aspx?tab=0&key=130093&course_no=130093&res=1
This is a link to the description of NHI Course No. FHWA-NHI-130093 *LRFD Seismic Analysis and Design of Bridges* which is mentioned in the FHWA article on page 37.

https://www.nhi.fhwa.dot.gov/training/course_search.aspx?tab=0&key=130096&course_no=130096&res=1
This is a link to the description of NHI Course No. FHWA-NHI-130096 *Cable-Stayed Bridge Seminar* which is mentioned in the FHWA article on page 37.

https://www.nhi.fhwa.dot.gov/training/course_search.aspx?tab=0&key=130081D&course_no=130081D&res=1#course_search.aspx?tab=0&key=130081&sf=0&course_no=130081
This is a link to the description of NHI Course No. FHWA-NHI-130081 *LRFD for Highway Bridge Superstructures* - Concrete which is mentioned in the FHWA article on page 37.

http://www.pci.org/uploadedFiles/Siteroot/Publications/PCI_Journal/2011/DOI_Articles/JL-11-WINTER-10.PDF
This is a link to the *PCI Journal* article by Tadros, Fawzy, and Hanna "Precast, Prestressed Girder Camber Variability" that was cited in the Concrete Bridge Technology article on page 38.

https://digital.lib.washington.edu/researchworks/bitstream/handle/1773/25442/Davison_washington_0250O_12723.pdf?sequence=1
This is a link to the Master's thesis by Davison "Prediction of Time-Dependent Stresses and Deflections in Prestressed, Concrete Girders: From Start of Fabrication to End of Service Life" that was cited in the Concrete Bridge Technology article on page 39.

http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_496.pdf
This is a link to NCHRP Report 496 *Prestress Losses in Pretensioned High-Strength Concrete Bridge Girders* that was cited in the Concrete Bridge Technology article on page 39.

http://www.dot.ca.gov/hq/esc/earthquake_engineering/sdc/documents/Seismic-Design-Criteria-(SDC-1.7-Full-Version,-OEE-Release).pdf
This is a link to the latest version of the *Caltrans Seismic Design Criteria* (version 1.7) that was mentioned in the Riego Road Project Profile on page 14.

Bridge Technology

NEW **http://onlinepubs.trb.org/Onlinepubs/trnews/trnews295rpo.pdf**
This is a link to the article "Second-Generation, Full-Depth, Precast Concrete Deck System" in the November–December 2014 edition of *TR News*. It reports how the Nebraska Department of Roads used a new precast concrete deck system to improve constructability and cost-effectiveness.

NEW **http://www.astmnewsroom.org/default.aspx?pageid=3646**
This link announces the new ASTM C1778 "Standard Guide for Reducing the Risk of Deleterious Alkali-Aggregate Reaction in Concrete" that provides recommendations for identifying the potential for deleterious alkali-aggregate reactions in concrete construction and selecting appropriate preventive measures to minimize the risk of deleterious reaction.