

*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](http://www.aspirebridge.org).

## IN THIS ISSUE

**<http://www.wsdot.wa.gov/publications/manuals/fulltext/M22-01/design.pdf>**

This is a link to the *WSDOT Design Manual*, that includes Chapter 950 Public Art, which was mentioned in the Perspective article on page 10.

**<http://www.spokanearts.org/murals/>**

This is a link to the Murals website for Spokane Arts in Spokane, Wash., that was mentioned in the Perspective article on page 10. Several mural examples are shown.

**<http://www.dot.state.mn.us/dresbachbridge/>**

This is a link to the Minnesota DOT project website for the Dresbach Bridge that was the topic of the Project Profile article on page 14.

**<http://www.wsdot.wa.gov/Projects/SR162/PuyallupRiverBridge/default.htm>**

This is a link to the WSDOT project webpage for the Puyallup River Bridge that was the topic of the Project Profile article on page 18. The webpage has a link for information on the unique concrete truss that the new bridge replaced.

**<http://www.cement.org/top-resources/pca-centennial>**

This is a link to the Centennial Celebration webpage for the Portland Cement Association, which is mentioned in the article on page 22. The webpage includes a link to a 15-minute video "One Hundred Years of PCA."

**<https://www.fhwa.dot.gov/publications/research/infrastructure/structures/hpc/13060/13060.pdf>**

This is a link to an FHWA report by Russell and Graybeal "Ultra-High Performance Concrete: A State-of-the Art Report for the Bridge Community," that was cited as a reference in the article on page 46.

**<http://www.fhwa.dot.gov/publications/research/infrastructure/structures/14084/14084.pdf>**

This is a link to an FHWA TechNote by Graybeal "Design and Construction of Field-Cast UHPC Connections," that was cited as a reference in the article on page 36.

**<http://www.fhwa.dot.gov/research/resources/uhpc/publications.cfm>**

This is a link to a webpage with links to publications produced by FHWA's research and development program on the performance and use of ultra-high performance concrete (UHPC), which was mentioned in both the Concrete Bridge Technology article on page 36 and the FHWA article on page 46.

**<http://www.fhwa.dot.gov/innovation/everydaycounts/edc-3/uhpc.cfm>**

This is a link to FHWA's Every Day Counts 3 (EDC-3) website for UHPC Connections for Prefabricated Bridge Elements that is the topic of the FHWA article on page 46.

**[https://www.oregon.gov/ODOT/HWY/BRIDGE/docs/BDDM/apr-2015\\_finals/sec\\_1\\_apr2015.pdf](https://www.oregon.gov/ODOT/HWY/BRIDGE/docs/BDDM/apr-2015_finals/sec_1_apr2015.pdf)**

This is a link to the Oregon DOT *Bridge Design and Detailing*

*Manual*. Article 1.5.5.1.17 High Strength Reinforcement provides design guidance on the use of high-strength reinforcement that was discussed in the Concrete Bridge Technology article on page 28.

**<https://www.fhwa.dot.gov/bridge/concrete/hif15016.pdf>**

This is a link for a no cost download of FHWA's *Post-Tensioned Box Girder Design Manual* that is discussed in the Concrete Bridge Technology article on page 40.

**[http://www.cptechcenter.org/events/archive/IL\\_Tollway\\_docs/Tab%20%20Specifications/10%20Spec-Performance%20Spec%20for%20HPC-Superstructure.pdf](http://www.cptechcenter.org/events/archive/IL_Tollway_docs/Tab%20%20Specifications/10%20Spec-Performance%20Spec%20for%20HPC-Superstructure.pdf)**

This is a link to the Illinois Tollway's crack-resistant high-performance concrete special provisions that are on the National Concrete Pavement Technology Center website. These special provisions were mentioned in the Concrete Bridge Technology article on page 32.

**<http://www.illinoistollway.com/documents/10157/90097/High-Performance+Concrete+for+Bridge+Decks-Final+Report.pdf>**

This is a link to the CTLGroup report that provided the research basis for the Illinois Tollway's crack-resistant high performance concrete special provision that were mentioned in the Concrete Bridge Technology article on page 32.

## Bridge Technology

**NEW** [www.fhwa.dot.gov/pavement/concrete/pubs/hif16001.pdf](http://www.fhwa.dot.gov/pavement/concrete/pubs/hif16001.pdf)

This is a link to an FHWA TechBrief "Supplementary Cementitious Materials—Best Practices for Concrete Pavements." While the document is directed toward concrete pavements, it has useful information that is applicable to bridge construction as well.

**NEW** <http://1121.sydneyplus.com/PCA/Portal/default.aspx?lang=en-US>

This is a link to PCA's Online Library Catalog which now provides free access to more than 2000 PCA publications including more than 2000 archival PCA technical reports, promotional literature, engineering bulletins, and information sheets. These PCA publications are fully searchable and full-text downloadable. More historical PCA publications will be added to the Library catalog for full-text online access as they are digitized.

**NEW** <http://learning.crsi.org/products/crsi-timesaving-design-aids-3-webinar-package>

This is a link to the three-part Concrete Reinforcing Steel Institute webinar series "Timesaving Design Aids for Reinforced Concrete" that provides design professionals with many ways to reduce the time it takes to design and detail conventionally reinforced concrete members while still complying with the provisions of the 2104 edition of ACI 318, Building Code Requirements for Structural Concrete.