

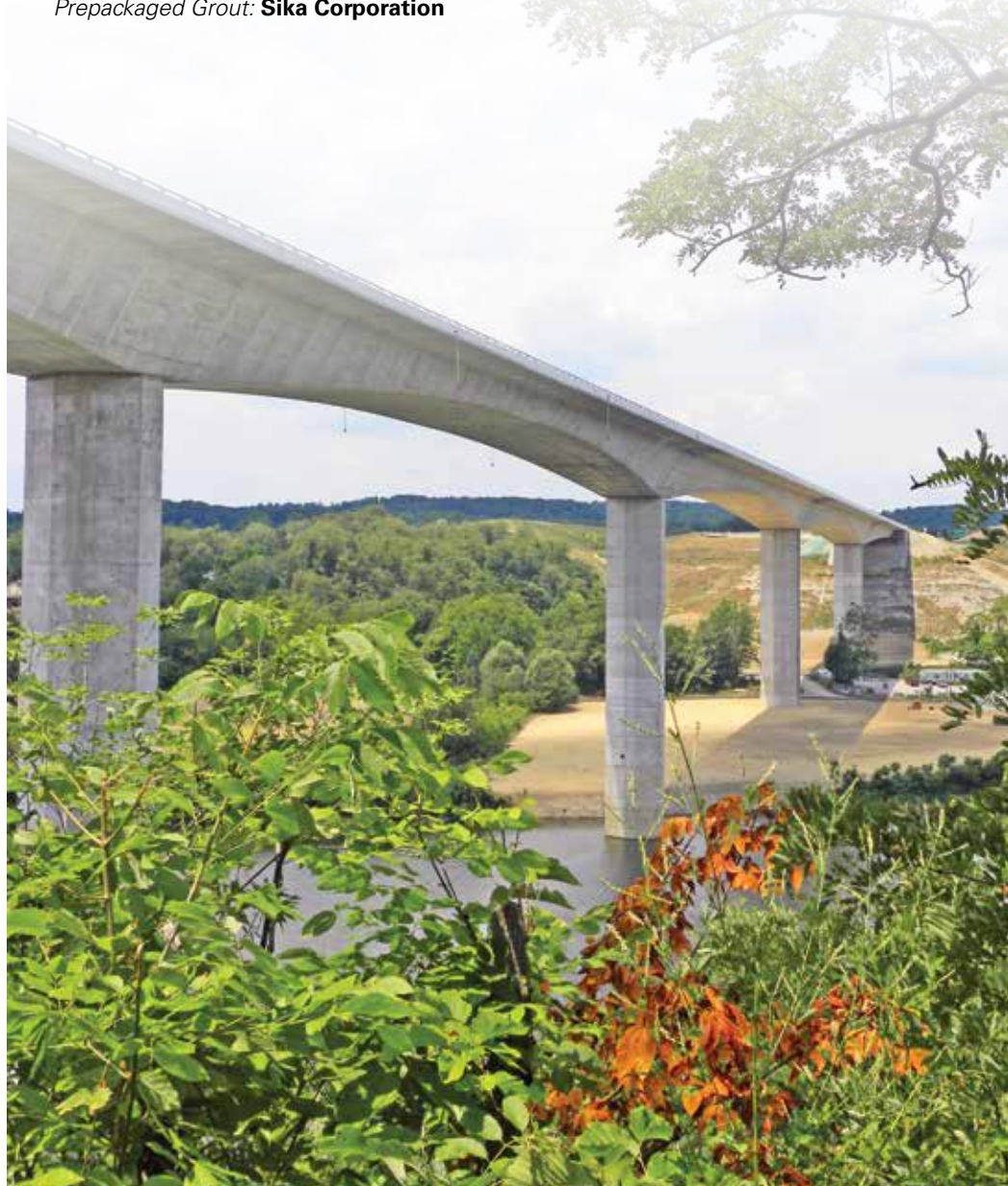
## Monongahela River Bridge - Southwestern Pennsylvania's Pathway to the Future, Brownsville, Pennsylvania

High above the Monongahela River Valley, the new concrete segmental Monongahela River Bridge (**Fig. 1**) for the Pennsylvania Turnpike Commission provides a new link for commerce in the Keystone state. The bridge is the state's third vehicular concrete segmental bridge, and was bid as an alternate design before the bid, saving the owner \$8.5 million over the as-designed steel structure.

The concrete segmental design eliminated two piers and moved two others, resulting in long, open spans. Balanced cantilever construction from above was used to protect the environment as well as to allow river, rail and vehicular traffic below the bridge to keep moving during construction. The main span across the river is 518' long to provide a 425' navigation clearance and rises 200' above the valley. At the dedication event on August 2, 2012, the state's Senator called the bridge a "pathway to the future."

The Pennsylvania Turnpike Commission's bridge was built by **Walsh Construction** with bridge design by **FIGG**. The bridge opened to traffic July 16, 2012.

*Owner:* Pennsylvania Turnpike Commission  
*Owner's Engineers:* Gannett Fleming and **FINLEY Engineering Group, Inc.**  
*Designer:* **FIGG**  
*Alternate Design Team:* **Walsh Construction Company/FIGG**  
*Contractor:* **Walsh Construction Company**  
*Construction Engineering Services:* **FIGG**  
*Construction Engineering Inspection:* SAI Consulting Engineers  
**FINLEY Engineering Group, Inc.**  
*Formwork for Piers and Cast-in-Place Segments:* **EFCO**  
*Form Travelers for Cast-in-Place Segments:* **Schwager Davis, Inc.**  
*Post-Tensioning Materials:* **Schwager Davis, Inc.**  
*Bearings:* **The D.S. Brown Company**  
*Expansion Joints:* **Watson Bowman Acme – A BASF Company**  
*Prepackaged Grout:* **Sika Corporation**



*Figure 1 – Monongahela River Bridge – Pennsylvania's newest concrete segmental bridge provides an important link in the Pennsylvania Turnpike Commission's transportation system. The bridge's long open spans create an economical and aesthetically pleasing bridge high above the river valley. (Photo Courtesy of FIGG)*