

Illinois Department of Transportation  
Bureau of Bridges and Structures

Prequalified Structural System (PQSS) List  
**THREE SIDED PRECAST CONCRETE STRUCTURES**  
**February 16, 2024**

This list supersedes the March 24, 2023 list.  
For Guide Bridge Special Provision GBSP90

For information regarding new system submittals, see pages 2 and 3.

<p><a href="#"><u>County Materials Corp. 8</u></a> Junction Street Maxwell, Indiana 46154 Date Approved: Contact Name: Steve Smart Phone Number: (317) 697-6918 Systems: <b>HY-SPAN</b></p>	<p><a href="#"><u>Contech Engineered Solutions LLC</u></a> 9025 Centre Pointe Drive, Suite 400 West Chester, OH 45069 Date Approved: Contact Name: Kim Cimarolli Phone Number: (314) 807-3023 Systems: <b>CONSPAN B-Series</b> <b>CONSPAN O-Series</b> <b>BEBO Arch System</b></p>
<p><a href="#"><u>Tricon Precast</u></a> 15055 Henry Road Houston, Texas 77060 Date Approved: Contact Name: Gary Fisher Phone Number: (877) 387-4266 Systems: <b>REDI-SPAN Bridge System</b></p>	<p><a href="#"><u>The Reinforced Earth Company</u></a> 1444 North Farnsworth Avenue, Suite 505 Aurora, IL 60505 Date Approved: Contact Name: Alex Abraham Phone Number: (630) 898-3334 Systems: <b>Techspan</b></p>
<p><a href="#"><u>Sanders Precast Concrete Systems Inc.</u></a> 6051 South Indianapolis Rd Whitestown, IN 46075-9527 Date Approved: June 2016 Contact name: Zackary Schlicklin Phone Number: 1-800-769-5503 Systems: <b>Sanders Three-Sided Arch</b> <b>Sanders Three-Sided Flat Top</b></p>	<p><a href="#"><u>Eco-Span Arch System</u></a> P.O. Box 751471 Dayton, OH 45475 Date Approved: December 2010 Contact Name: Jeff Vonhandorf Phone Number: 1-800-241-0925 Systems: <b>Eco-Span Arch System</b></p>
<p><a href="#"><u>County Materials Corp. 749</u></a> West Commercial Ave. Salem, Illinois 62881-0448 Date Approved: April 2018 Contact Name: Rich Cooper Phone Number: (618) 548-1190 Systems: <b>ArchCast</b></p>	

Domestic Steel Act Applies:

All iron and steel products, which are to be incorporated into state projects shall be domestically manufactured or produced and fabricated. The Contractor shall obtain from the iron or steel producer and/or fabricator, in addition to the mill analysis, a certification that all iron or steel materials meet these domestic source requirements. The application of all coatings, epoxy, galvanizing, painting, etc., to metal products shall be domestically applied.

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**Submittal Requirements for Evaluation and Pre-Qualification**

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**A. Scope**

Before a three sided precast concrete structure can be used on a Department project, the system shall be reviewed and pre-qualified for general use, and the manufacturer/supplier shall have a producer/supplier number assigned to their facility (see approval procedures at <https://idot.illinois.gov/doing-business/material-approvals/producer-and-supplier-approval.html>). The following guidelines are provided to clarify the submittal requirements and expedite the process.

**B. Procedure**

Companies interested in being considered pre-qualified to supply three sided precast concrete structures as specified in the Guide Bridge Special Provision for Three Sided Precast Concrete Structure (Special) (GBSP90) shall provide an electronic copy of a system review package to the Department at [DOT.Bridge.ProductEvaluations@illinois.gov](mailto:DOT.Bridge.ProductEvaluations@illinois.gov) for review and evaluation. As a minimum, the system review package should contain the following:

1. Acknowledgement by Company Form [BMPR 101](#) (locate the form [here](#), right-click and "Save link as..." to download a working copy and open in a separate PDF editor). If your company does not already have a product included on an IDOT PQSS, please submit a signed copy of the company acknowledgement form with your product submittal.
2. Three Sided System name and company name to be listed on the specification and other contact/address information.
3. A list of past projects which used your company's three sided system, including owner's name and phone number.
4. Typical shop drawings, notes and plan details including:
  - a. The unit configuration and details including shear key or plate connection of units when necessary; also minimum and maximum leg and slab span thicknesses; haunches, etc.
  - b. The wingwall type, [configuration](#), and connection details.
  - c. Railing connection details.
  - d. Headwall connection details.
  - e. Footing and footing connection details.
  - f. Approach pavement connection and/or support details.
  - g. Backfill Requirements including minimum fill requirements for construction loads.
  - h. Any Drainage system requirements.
  - i. Fabrication and handling details.
  - j. Form liner capabilities.
5. Design Standards and Computations: All example computations shall be sealed by an Illinois Licensed Structural Engineer, and shall be according to the latest IDOT Bridge Manual requirements, Guide Bridge Special Provision, and the AASHTO LRFD Bridge Design Specifications. As a minimum, the following should be addressed:
  - a. Shear transfer between units.
  - b. Live load distribution.
  - c. Resistance factors.
  - d. Crack control.
  - e. Deflection.
  - f. Structural backfill.
  - g. All material design strength assumptions.

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- h. Any design limitations such as maximum wall height, span, skew, etc.
- 6. Any test data or research to support the computations and use of specific values.
- 7. All materials specifications.
- 8. A Construction Manual with erection sequence guidance.
- 9. Any design manuals, case histories, and brochures should be included to provide insight into the system and applications.
- 10. To complete your pre-qualification process, the **material code** you propose to utilize **at the fabrication plant(s)** supplying your precast product needs to be approved by the Bureau of Materials and Physical Research. Please click [here](#) for the for the approval procedure and [here](#) for a list of plants that are currently approved to do this work (A6 designation). The material code is 48401.

If you have any questions concerning the specification or the requested information, please contact the Policies, Standards and **Final Plan Control** Unit at [DOT.Bridge.ProductEvaluations@Illinois.gov](mailto:DOT.Bridge.ProductEvaluations@Illinois.gov).

**C. Recertification**

There is no renewal process or reapplication process to stay on this list; however, the Department reserves the right to remove any system based on past performance. In addition, it is the responsibility of the manufacturer/supplier to inform the Department of any changes in design or component information, contact information, etc. If it is discovered that changes have been made without informing the Department, the Department reserves the right, depending on the severity of the omission, to remove that system from the pre-qualified list.

Presence on this list does not exempt the manufacturer/supplier from meeting all the job specific submittal requirements and all the material requirements specified including component testing and/or material certifications as applicable.