

# Pedestrian Bridges



BUILD IN VALUE WITH BIG R ENGINEERED INFRASTRUCTURE SOLUTIONS.

[bigrbridge.com](http://bigrbridge.com)



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BRIDGE

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“The construction of the bridge resembled a well-orchestrated dance, perfectly timed and beautiful.”

– Teresa Meeks, Director of Support Services  
City of Lancaster, SC



## Pedestrian Bridges

Custom bridge solutions for today’s pedestrian and leisure needs.

RECOMMENDED FOR

- ▶ Recreational Trails ▶ Highway Overpasses
- ▶ Rail and Light Rail Crossings
- ▶ Elevated and Enclosed Walkways ▶ Golf Courses

With a large variety of designs and truss styles to select from, Big R Pedestrian Bridges have been the top choice for owners, engineers and architects for many years. Our prefabricated bridges can often be installed in one day, using local crews and on-hand equipment – saving you time and money in the process.



### Not all bridges are created equal.

See how Big R raises the bar on quality at [big-on-quality.com](http://big-on-quality.com), where we get up-close-and-personal with some key fabrication differences like:

- ▶ Welding integrity and mitered end connections
- ▶ Railing attachment and decking installation
- ▶ Mill scale removal and paint quality

### Certifications

- ▶ AISC, Bridge Fabrication – Intermediate (Major)
- ▶ CWB, CSA Standard 47.1, Division 2

## Big R's turn-key approach will simplify your project.

### Our in-house engineering teams create exceptional designs and value.

"We are very satisfied with the services and product provided by Big R Bridge. You truly understand scheduling and were able to manufacture and deliver the pedestrian bridge ahead of schedule."

– Monica Heredia, P.E., Project Manager  
City of Santa Clarita Public Works, CA



### How we work with you.

We can jump in at any stage of a project, but earlier involvement can optimize savings for you or your clients.

- ▶ **Concept:** Discuss ideas and determine the best product to suit your site.
- ▶ **Preliminary Design:** Evaluate bridge styles and provide product specifications.
- ▶ **Budget:** Preliminary costing for long-term planning.
- ▶ **Cost/Value Assessment:** Determine cost savings using prefabricated components.
- ▶ **Detailed Engineering:** Superstructure/substructure designs by licensed engineers.
- ▶ **Fabrication and Delivery:** Strategically located facilities and freight partners.
- ▶ **On-site Support:** Site assistance during bridge erection.
- ▶ **Installation:** Partnering with trusted contractors and consultants.



Collaborating with Big R Bridge on design-build projects will minimize project risk and tighten delivery schedules.



## We have your bridge.

**Whatever your requirements, Big R has the right bridge for your particular site and application.**

Big R Pedestrian Bridges are available in many different styles. Choose from one of the options below or speak to one of our local bridge specialists to learn more.



### Underhung Floor Beam

When clearance below the bridge is critical, this parallel chord style offers the shortest superstructure depth. An Underhung truss has its floor beams welded to the bottom of the bottom chords. It's best suited for pedestrian bridges with spans up to 70' (21.3 m), but is available in spans up to 120' (36.5 m).



### H-Section Floor Beam

For bridge spans up to 240' (73.1 m), the H-Section is often selected by designers seeking the most efficient superstructure. This parallel chord truss design has its floor beams welded to vertical members of the side trusses. As with all styles, the H-Section can be created with additional camber for a more graceful look.



### Bowstring

With elegant top chords arching up from its base, the Bowstring is the perfect combination of visual appeal and design efficiency. Bowstring is available with spans up to 100' (30.4 m) in an Underhung configuration and up to 200' (60.9 m) as an H-Section.



### Modified Bowstring

Available in similar spans as the Bowstring, the Modified Bowstring is a more economical choice when an arched top chord is desired. The less-pronounced arch still adds some beauty to the superstructure, while keeping the budget in check.



### Box

For grade separations and enclosed walkways, the Box style is the preferred choice as it allows easy attachment of fencing or glazing on the sides and/or top, when required. Numerous architectural screen, roofing and branding options can also be incorporated.



Large or small, Big R Pedestrian Bridges install quickly and easily, often on the same day they are delivered.

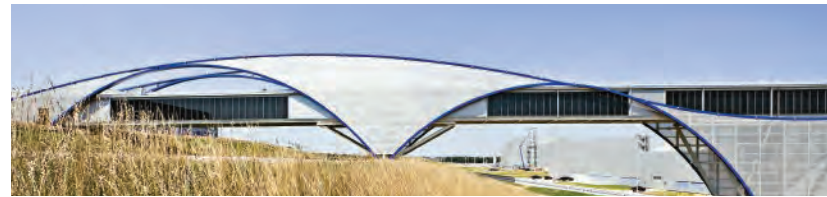




## Make a lasting impression with a Big R Signature Bridge.

We will combine your inspiration and passion with our engineering talent and streamlined process to create a distinctive and affordable solution. Our engineering teams have translated many unique designs into reality over the years and we are excited about creating something you will be proud of.

Whether you are an owner with a napkin sketch or an architect with a conceptual drawing, we can help you bring your vision to life.



### The Tunable Bridge™

The Tunable Bridge™ combines the physics of a tied arch with any standard steel truss system or girder superstructure and features an innovative adjustable “tuning” system to balance the live and dead loads between the arches and trusses. The truss is installed before the arches, making it ideal for spanning high-traffic corridors or difficult terrain.



### Cable-Stayed

With their very dramatic and notable designs, Cable-Stayed bridges are perfect choices to reach spans of up to 400' (121.9 m) and make lasting impressions – all at the same time. Big R's custom rail treatments and architectural accent lighting will ensure your bridge is “postcard-ready”.



### Custom

If you are looking for an opportunity to pay tribute to local heritage, reflect existing architectural styles, or create a notable focal point, our Signature Bridge design teams can work with you to capture the essence of your ideas. We will flatten the process and collaborate with you to design and fabricate a distinctive solution – at an affordable price.





Signature Bridges combine beauty with functionality to make bold architectural focal points in your communities.

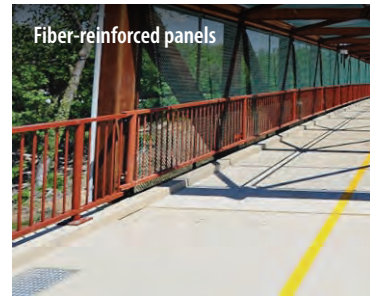


## The choices are all yours with Big R.

The palette of features and options is as expansive as the bridges themselves – colors, architectural accents and lighting, decking, railings, roof enclosures, signage and more. Below are a few of the common selections.

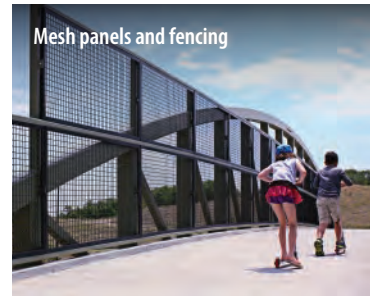
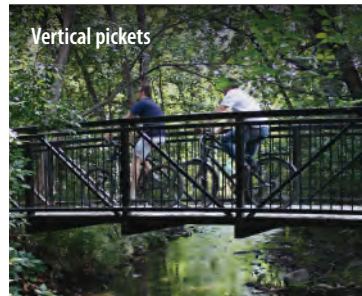
### Bridge Decking

From economical softwood to lightweight composite panels – we have a solution that will work for every situation and every budget.



### Safety Systems and Attachments

Whatever the desired look or required function these options will help you to create a safe environment with a sense of style.



ASK ABOUT OUR  
ROOFTOPS AND  
**CANOPIES**



Big R Bridge is a national leader in developing engineered solutions for steel bridges, corrugated metal structures and retaining walls.



## Big R Bridges are renowned for their high-quality finishes.

Choose from a traditional weathering steel finish, creative paint scheme or long-lasting galvanized or metalized finishes to set your bridge apart for decades.



### Weathering

A weathering steel superstructure is an economical choice, with a unique appearance that complements outdoor settings. Weathering steel naturally oxidizes to provide a protective patina that does not require painting. The color will vary regionally from dark brown to orange tones.



### Painted

Sophisticated paint finishes can add another level of interest to an already stunning bridge. Architects, engineers and owners alike, specify factory-applied paint finishes to align their designs with neighboring structures or other urban design features.



### Hot-Dip Galvanized

Commonly used in coastal areas, a hot-dip galvanized finish increases the lifespan of a bridge by adding a metallurgically bonded zinc layer to the structural steel members. Speak to a Big R Bridge sales professional to learn more about component size limitations during the hot-dipping process.



### Metalized

Metalizing is a process where zinc and/or aluminum is thermally applied to the steel surface. This finish provides a very uniform coating allowing for an additional clear or painted top coat as required.

CUSTOM  
COLORS  
ARE AVAILABLE



A naturally-weathering steel finish saves money  
and helps protect the environment.





## Choose from a wide variety of architectural treatments.

Big R can also provide complete abutment design and all of the materials to deliver a complete bridge package.

Save time and money on pedestrian bridge abutments with the fast, flexible and historically-proven Vist-A-Wall MSE Structural Wall System™. Precast panels or wire facing along with galvanized wire soil reinforcement are used to retain the soil mass. This system offers cost savings and shortens the construction schedule compared to traditional cast-in-place abutments.



- ▶ Aesthetic complement to bridge structures
- ▶ Custom form liners create unique architectural treatments
- ▶ Precast panels available in a variety of sizes and colors
- ▶ Wall heights can exceed 100' (30.4 m)
- ▶ Height increments are 30" (762 mm)
- ▶ Adapts to curves, angles and steps



CUSTOM  
ARCHITECTURAL  
TREATMENTS

Cost-effective Vist-A-Wall™ abutments are fast and easy to install with minimal equipment and labor requirements.





## Big R Bridge

P.O. Box 1290  
Greeley, Colorado 80632-1290

The information, suggested applications and tables in this brochure are accurate and correct to the best of our knowledge, and are intended for general information purposes only. These general guidelines are not intended to be relied upon as final specifications, and we do not guarantee specific results for any particular purpose. We strongly recommend consultation with a Big R sales professional before making any design and purchasing decisions.

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**Big R Bridge is a national leader in developing engineered infrastructure solutions.**



Structural Plate



Retaining Wall Systems



Sound Wall Systems



Pipe Systems



Prefabricated Bridges

**Call toll free in North America 1-800-234-0734 or visit [bigrbridge.com](http://bigrbridge.com) for more information.**



THE AIL GROUP OF COMPANIES



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