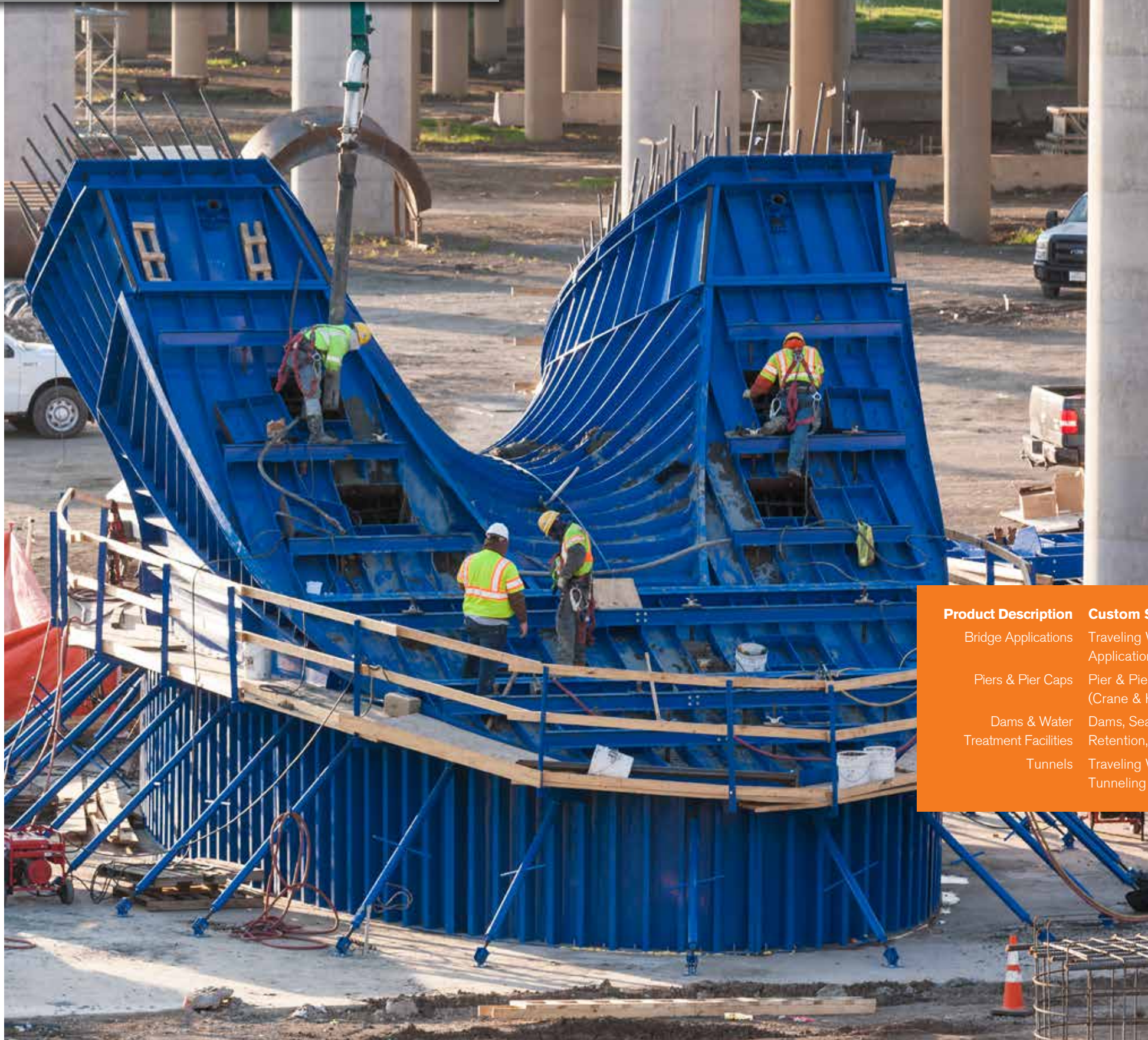


# CUSTOM STEEL

By: Aluma Systems

Custom Steel Formwork for speciality projects used in solving complicated problems with intricate heavy civil, bridge, damn & infrastructure applications.



Custom steel pre-cast arch forms.



Custom, cantilever formwork & traveler system.

| Product Description               | Custom Steel Solutions   |
|-----------------------------------|--|
| Bridge Applications               | Traveling Wall & Deck Forms, Custom Application Solutions                    |
| Piers & Pier Caps                 | Pier & Pier Caps, Climbing Forms, Pylons, (Crane & Hydraulic), Towers & More |
| Dams & Water Treatment Facilities | Dams, Seawalls, Tidal Barriers, Water Retention, River Diversion & More      |
| Tunnels                           | Traveling Wall Forms, Custom Tunneling & Mining Solutions                    |



SCAN TO ACCESS



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<http://q-r.to/customsteel>

# Bridges

Traveling Wall & Deck Forms, Custom Application Solutions

# Piers & Pier Caps

Pier & Pier Caps, Climbing Forms (Crane & Hydraulic), Pylons, Towers & More



Russky Bridge: Construction of the bridge to Russky Island. The world's longest cable-stayed bridge, and the world's second highest pylons.



HP Long Bridge: Custom steel pier forms and flares on site in New Orleans, LA.

We have developed an extensive range of high-productivity formwork solutions for concrete slab, wall and bridge construction while our access designs ensure safe, effective circulation and work progress on the most demanding structures and locations.



Pre-cast, segmental, short line casting machine designed for robust and speedy segmental bridge construction.



Fully automatic, custom steel launching system, used in bridge construction.



Various shapes and sizes for all heavy civil applications.



Pier Caps assembled off site and shipped to the project site.

Aluma Systems' customized engineering solutions give us a distinct advantage in the concrete construction industry, where customers are building the world's most structurally complex bridges, tunnels, and water management structures.

# Dams & Water Treatment

Dams, Seawalls, Tidal Barriers, Water Retention, River Diversion & More

**1. TAPPAN ZEE BRIDGE -  
New York City, NY**

Combination water-tight coffer dam/pylon footing form.

**2. WEST 7TH STREET BRIDGE -  
Ft. Worth, TX**

Custom steel pre-cast arch forms.

**3. FAIRWAY ROAD BRIDGE -  
Kitchener, ON**

Custom, cast-in-place, balanced cantilever formwork & traveler system.

**4. LOOP 375 BRIDGE -  
El Paso, TX**

Custom steel bridge pier and flare forms.

**5. JIM THORPE MEMORIAL  
BRIDGE - Carbon County, PA**

Custom steel bridge pier and flare forms.



Folsom Dam: Climbing forms used in the construction of the massive concrete gravity dam on the American River of Northern California.



Construction of a new two-unit power plant commenced to increase the dam's generating capacity by an additional 335 megawatts in B.C. Canada.



Radius form used in deep water diversion structure.

Experience in solutions in specialized self climbing platforms, slipforms for piezometric wells and the industry's largest inventory of forming and shoring equipment make Aluma Systems the right choice for your project.



Rolling Track system utilizes standard equipment with minimal custom steel to deliver an extremely flexible and cost effective solution.



Custom hydraulic actuated tunnel forming system.



Custom traveling arch shaped formwork solution.

Solutions for underground formwork range from arch & round designs to custom traveling forms. This vast experience ensures safety and efficiency to maximize project deliverables.



Calling on all facets of its engineering, fabrication and service capacities, Aluma Systems successfully transformed Santiago Calatrava's aesthetics into a totally custom steel formwork system for the bridge abutments.

The concept was to fabricate steel in a way that allowed forming of four identical concrete monoliths in sequence within a single steel formwork system that incorporated every feature of the aesthetic design.

Significant engineering challenges were overcome with a state-of-the-art 3D modeling solution that addressed both hyperbolic and radial variances throughout the entire length and breadth of the structure.

