

# Acrow's Temporary Truss System Maintains Traffic Flow During Rehab of Historically Significant Bridge

Because the 68-year-old George E. Tryon Bridge spans environmentally sensitive gorge on the south fork of the Smith River in Northern California, project posed challenging siting issues, including endangered wildlife species



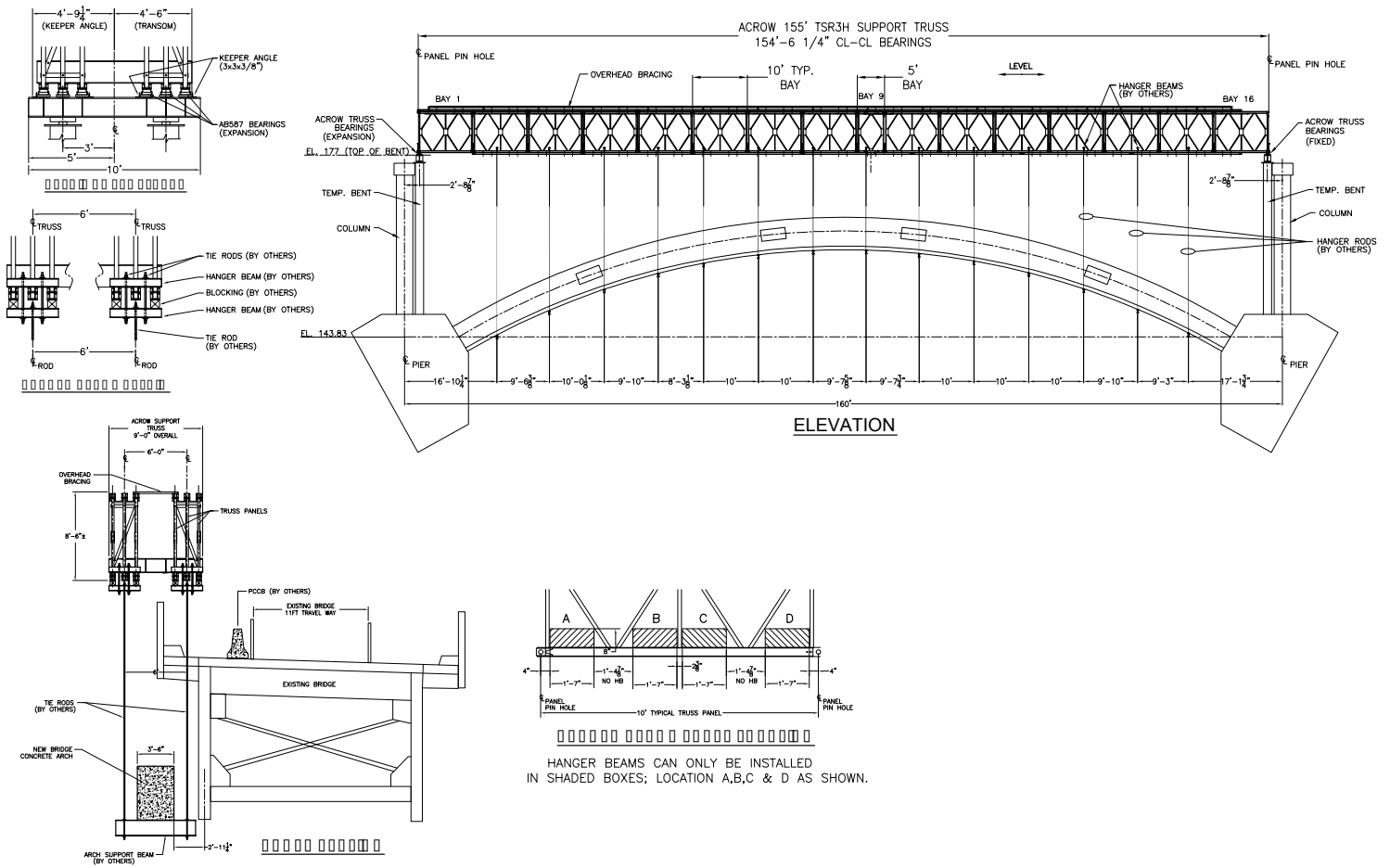
The rehabilitation project involves replacing the existing 206' x 24' steel arch bridge with an aesthetically similar concrete arch span 231' x 32'4". The additional width will eliminate one-lane sections of the roadway and allow room for bicycles and pedestrians along with significant tourist traffic.

With initial bids were over budget, Acrow collaborated with Flatiron Construction who, acting as the CM/GC, value engineered a hanging formwork truss bridge outside the existing steel structure. The Acrow structures utilized were two 155' clear spans, 9' out-to-out.

The job posed numerous difficulties, including restricted staging areas at the site. Additionally, the bridge is located on the very steep, rocky banks of a 60'-deep environmentally sensitive gorge, and the area is

home to threatened and endangered wildlife species. Because the adjacent land is owned by the California Department of Parks and Recreation, the U.S. Forest Service and private individuals, multiple-agency coordination was necessary.

"This was a challenging job, but ultimately very rewarding" said Jack Arizcuren, Pacific States Sales Manager at Acrow. Added Bill Killeen, President and CEO of Acrow Bridge, "This project is a great example of how Acrow systems can provide creative solutions to difficult situations and provide value to contractors and government agencies alike. Acrow structures are a great choice when it's critical that projects stay on, or ahead of schedule and within budget."



## Specifications

### Bridge length:

Two 155' clearspans

### Bridge width:

9' out-to-out

### Live Load:

344 kips of supported load

### Deck surface:

None

### Bridge finish:

- All major components galvanized to AASHTO M111 – ASTM A 123
- All bolts are hot dipped galvanized
- All pins are electro galvanized

### Bridge erection:

Build adjacent, lateral slide, and jack down.

### Bridge design:

- Panel chords, diagonals, verticals, panel reinforcing chords, rakers to AASHTO M223 GD 65
- Raker brace, transom, top chord brace, swaybrace, transom brace, diagonal chord brace to AASHTO GD 50
- Panel pins to ASTM A 193 GD b7
- Bolts to AASHTO M164M – A325

Specialty truss overhead bracing to provide additional stability