



Cross beam replacement



Stringer replacement





Floor beam replacement











Temporary support



Patches to the floor beams



Additional floor beam repair as a result of the blasting

Rocker Replacement Ohio tower



New rocker in place



Connection to the tower



Connection to the
lower chord





Misc. hole repairs

20" x 2"

4" x 1 1/2"



6x1 1/2
hole





Lower chord
repairs





PP9 vs

Lower chord repairs, approach span

PP9
DS

8
ARENA
NEXT LEFT





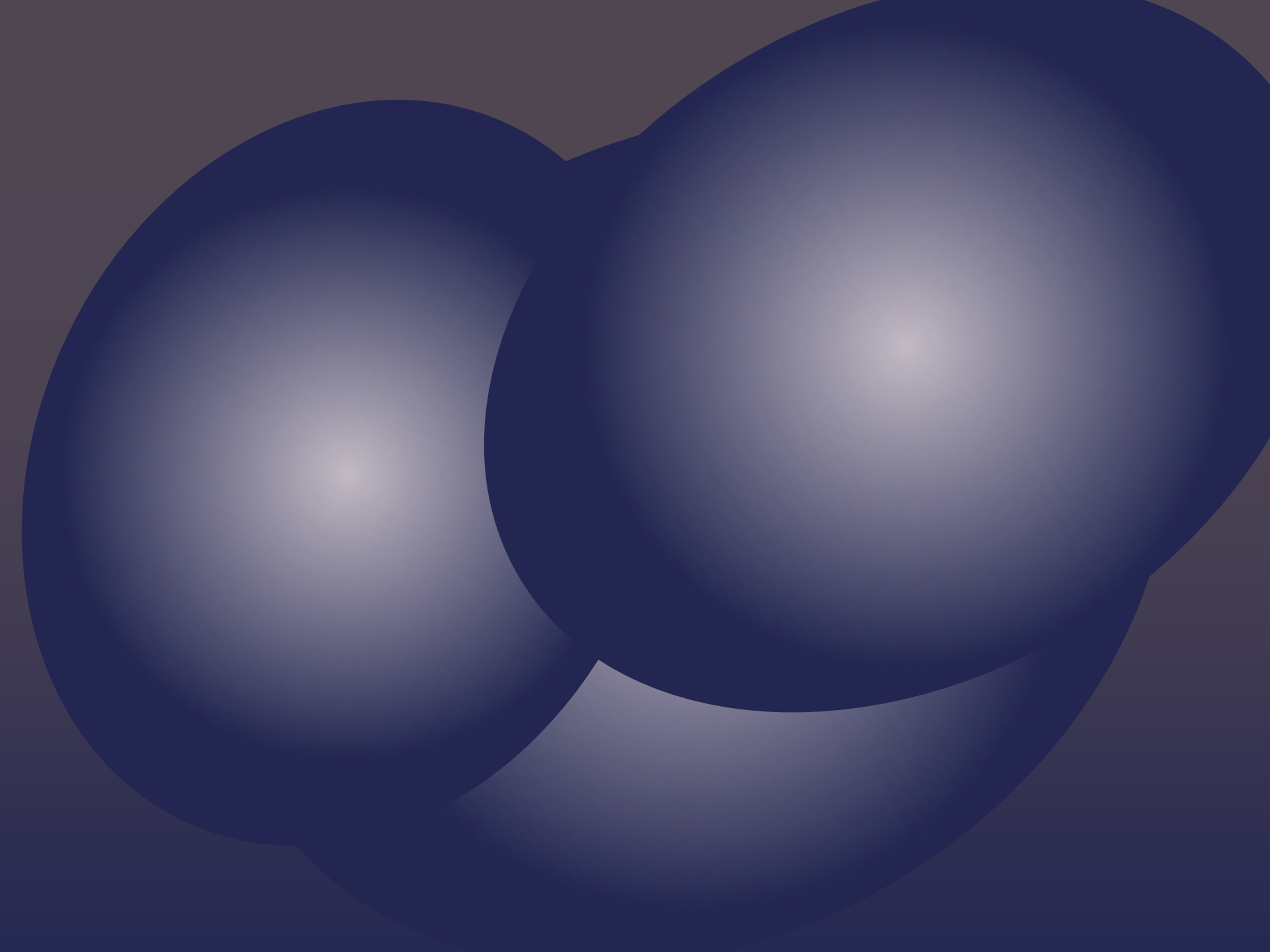
PPG
DS

Painting

One of the first bridges where the color was chosen by online voting

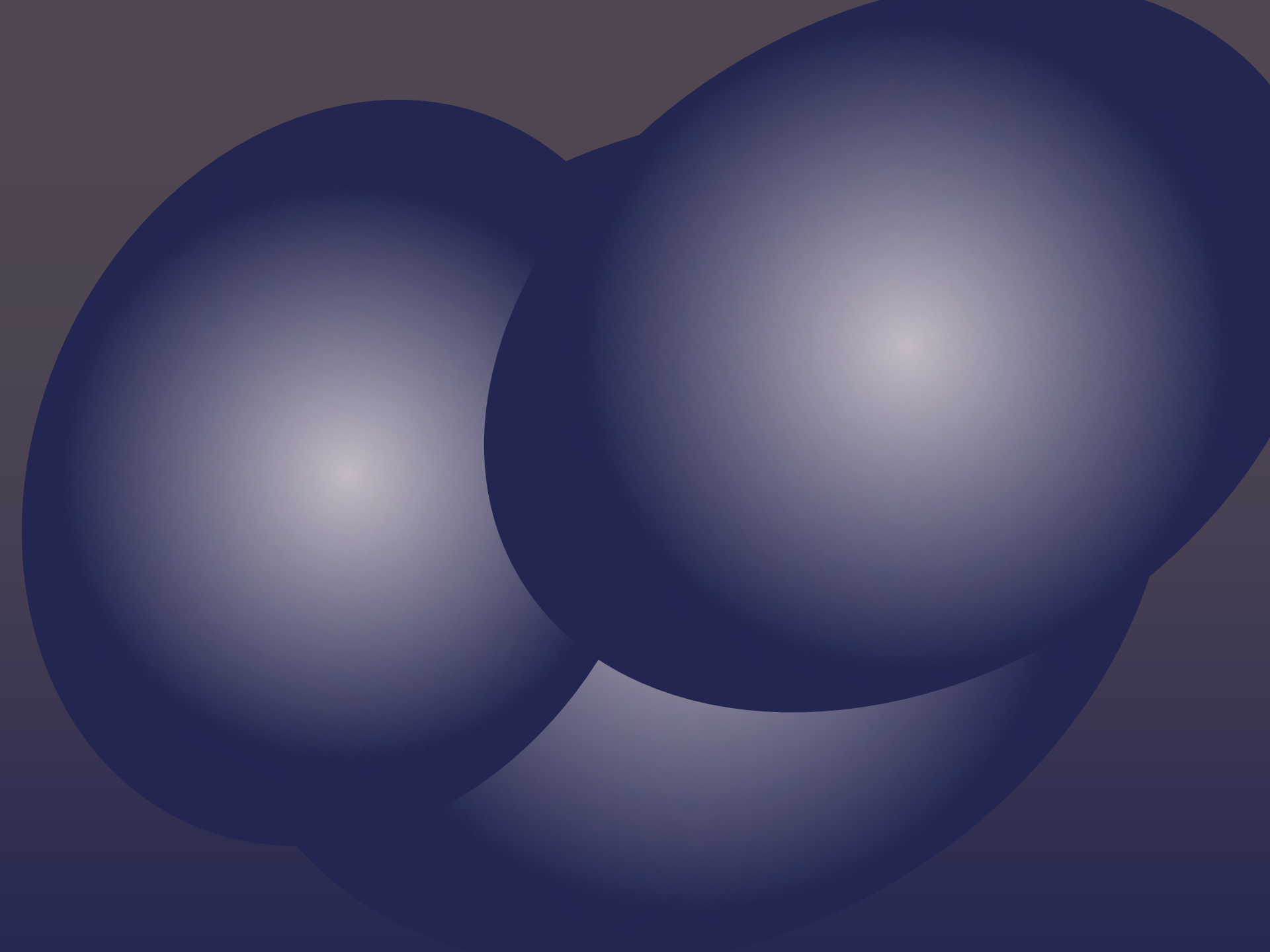
Over 10,000 votes

The winner was:





And





Wv approach containment
Panthera Painting





ARS 20
DUST COLLECTOR

DANGER
RESTRICTED
AREA
AUTHORIZED
PERSONNEL
ONLY

Working around the clock/ 24/7



Tower containment









ABSOLUTE
EQUIPMENT



Impresso-Rand



6236-0001





Wind damage, <40mph



Tarps in the electric lines



Blasting damage, area plated



Paint concerns





Still elastic on hot days





Rust staining

Painting contractor hired KTA to review paint

KTA advised the rust was on the surface not coming from the steel

The penetrate sealer would push water out of pack rusk joints which then would stain the surface. Contractor wiped stains with paint thinner and they would come off. However, we do have the staining across the bridge. The paint manufacture reviewed the issue and came to the same conclusion, and said it would not affect the warranty.



Rust staining

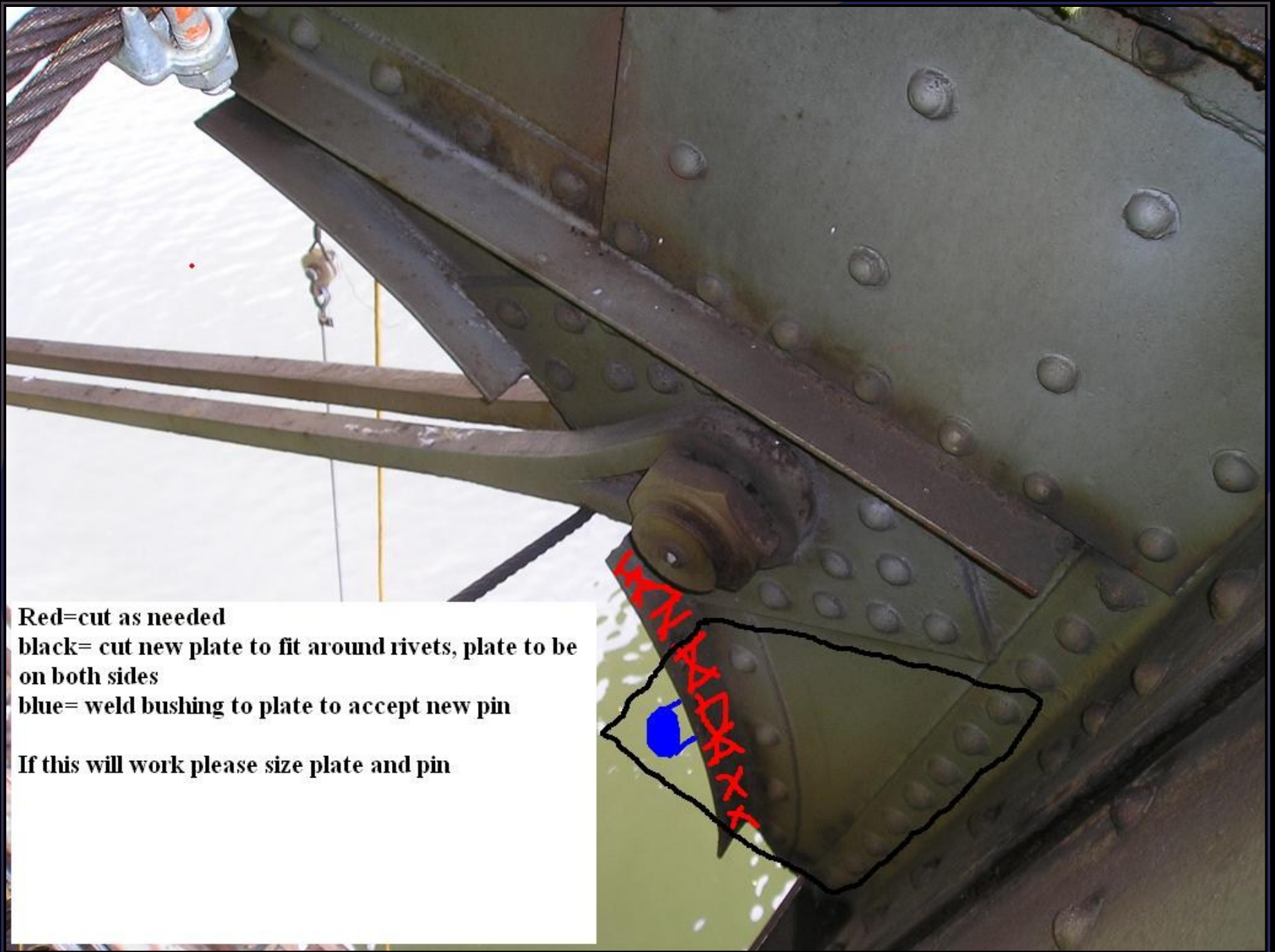
From pack rust joints



rafting scaffolding

Issues and concerns answered quickly

Photos emailed to district, Charleston, and Burgess & Niple




Red=cut as needed

black= cut new plate to fit around rivets, plate to be on both sides

blue= weld bushing to plate to accept new pin

If this will work please size plate and pin



As per sheet 59 T21 repair shows wrapping cable around the pin. The typical as shown on sheet 59 only applies between S16 and S17. This point is at S18, which does not allow the cable to be wrapped around the pin. Also, some of the eye bars are so close at the pin a 5/8" cable will not fit between the bars. The contractor did try to wedge apart but had no luck. Comments??

The image features a dark blue background with two overlapping, slightly lighter blue circles. The text "Change orders" is centered in a white, serif font, spanning across both circles.

Change orders

A close-up photograph of a metal grating structure. The grating consists of several intersecting metal bars. The bars are painted a dark reddish-brown color, but there is significant white rust and corrosion, particularly at the joints and along the edges. A small, distinct spot of bright orange rust is visible on one of the horizontal bars in the center. The background is dark and out of focus.

Grating was believed to be galvanized, the contractor was advised, prior to bidding, not to blast or paint.

Opening day changed from October 28, 2011 to November 14, 2011

The Rocker post were discovered during the blasting operation that they were coming in contact with the towers. Also, a small crack in the low chord was discovered at the WV tower. The tooth dams were also discovered not to have enough room for expansion. Burgess & Niple inspected the areas of concerns and developed correction plans. 3 additional rockers were replaced and the tooth dams were trimmed as well as the low chords.



Additional rocker post,
opening day changed from
November 14 to
December 7, 2011

IN with Out with the old
The new

Rocker post coming in contact with the tower







Cracked weld around pin

New rocker in place ,
Ohio tower





91711

B 200



WVU Grant to Monitor the Bridge

Dr. Shoukry developed a plan to monitor the 2 towers in real time.

The data can be viewed via the internet which shows the angular tilt of the towers.

Also, 16 reflectors were placed on the towers so a 3 dimensional model could be produced by the means a total station.

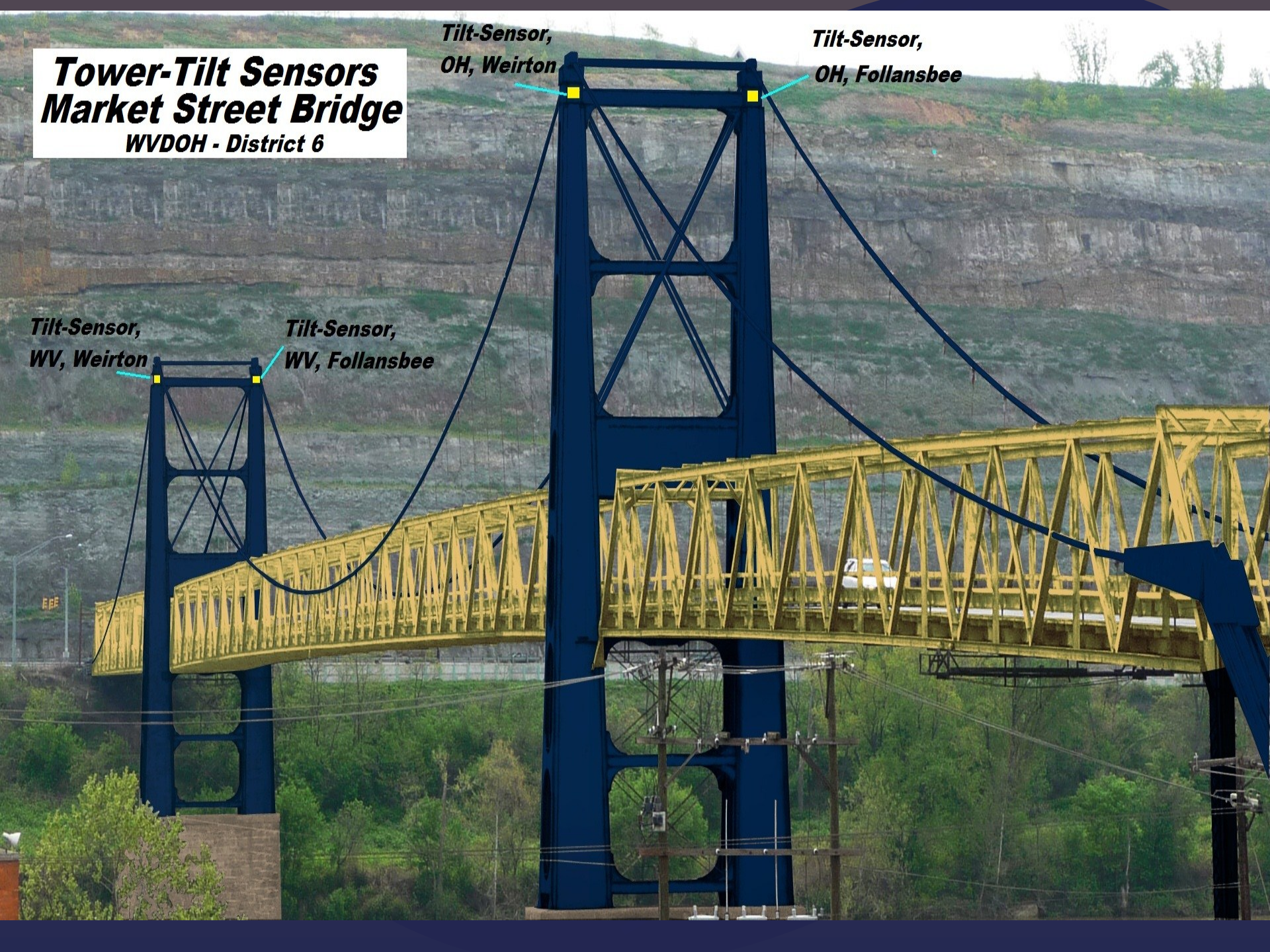
Tower-Tilt Sensors
Market Street Bridge
WVDOH - District 6

Tilt-Sensor,
OH, Weirton

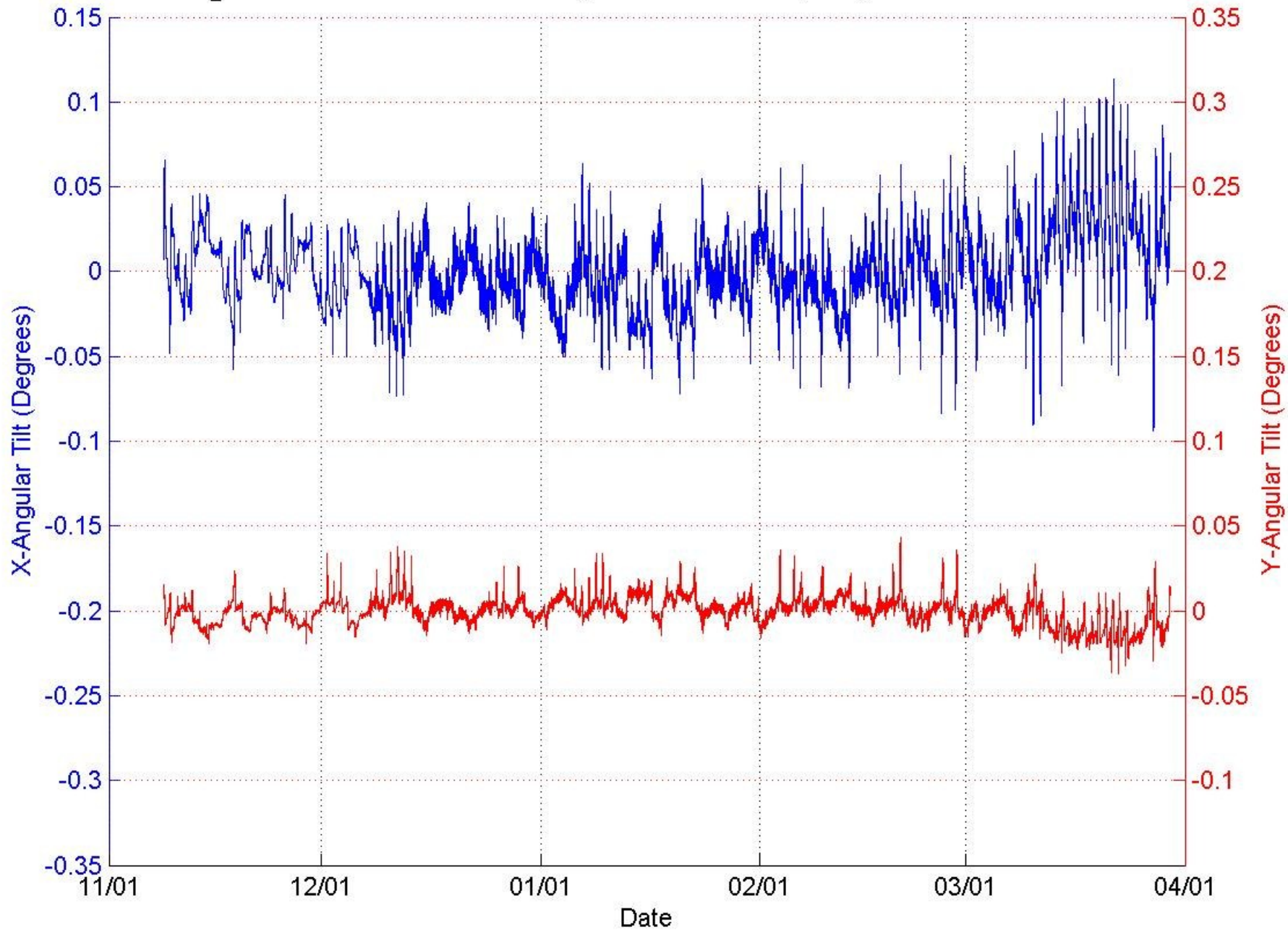
Tilt-Sensor,
OH, Follansbee

Tilt-Sensor,
WV, Weirton

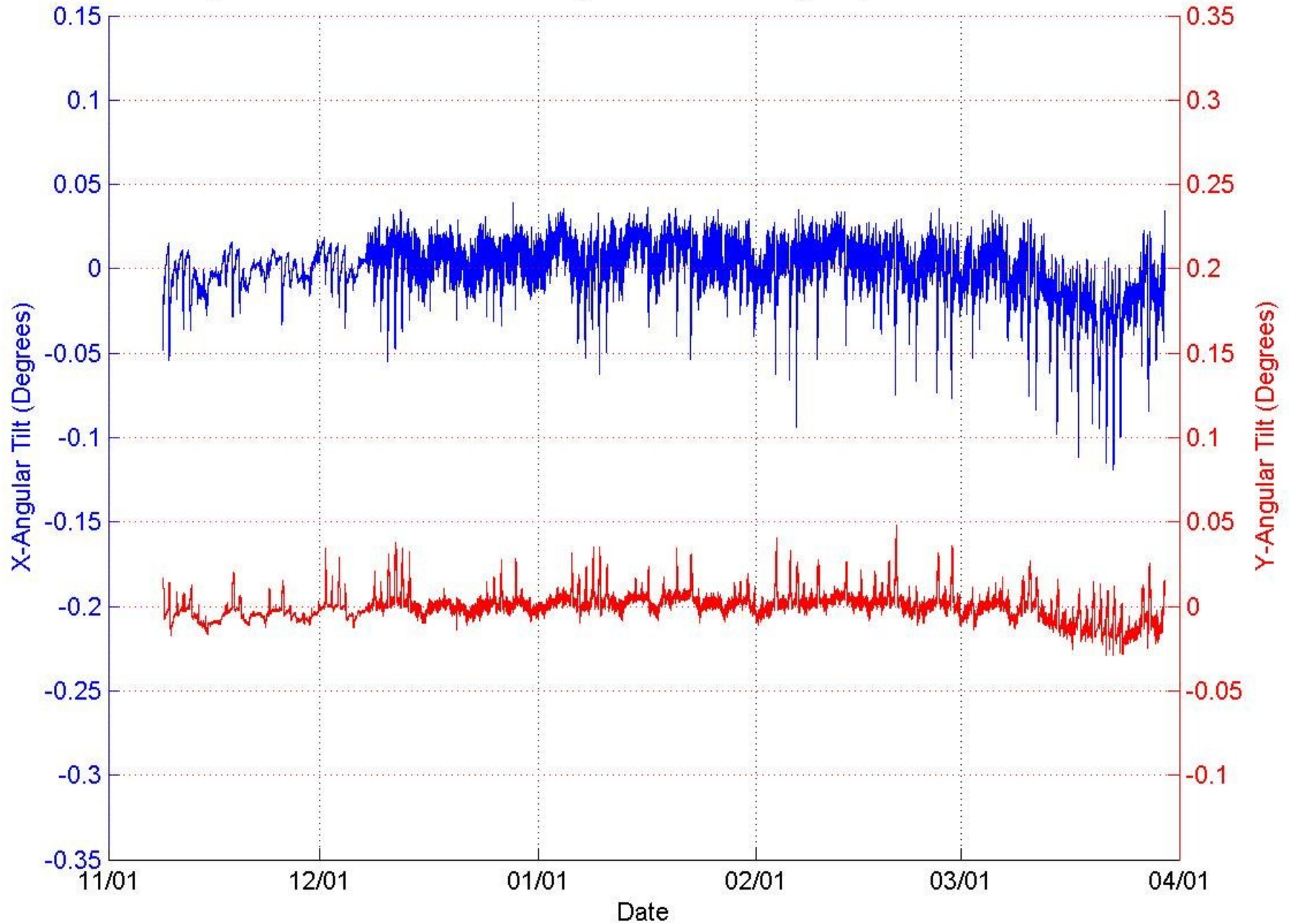
Tilt-Sensor,
WV, Follansbee



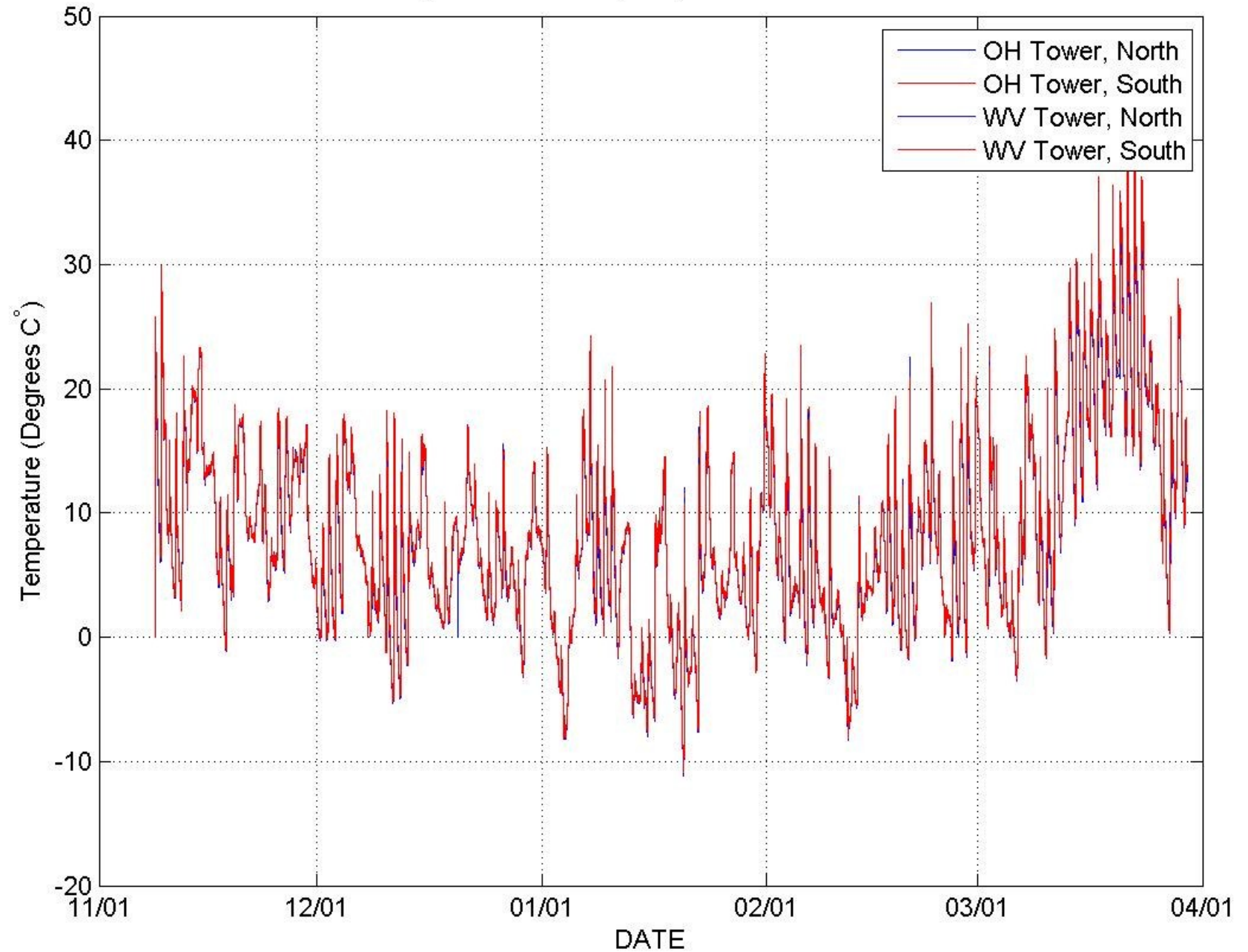
Angular Tilt of OH Tower, Weirton : 03/29/2012 6:36 PM



Angular Tilt of WV Tower, Weirton : 03/29/2012 6:36 PM



Temperature 03/29/2012 6:36 PM



Grand finale



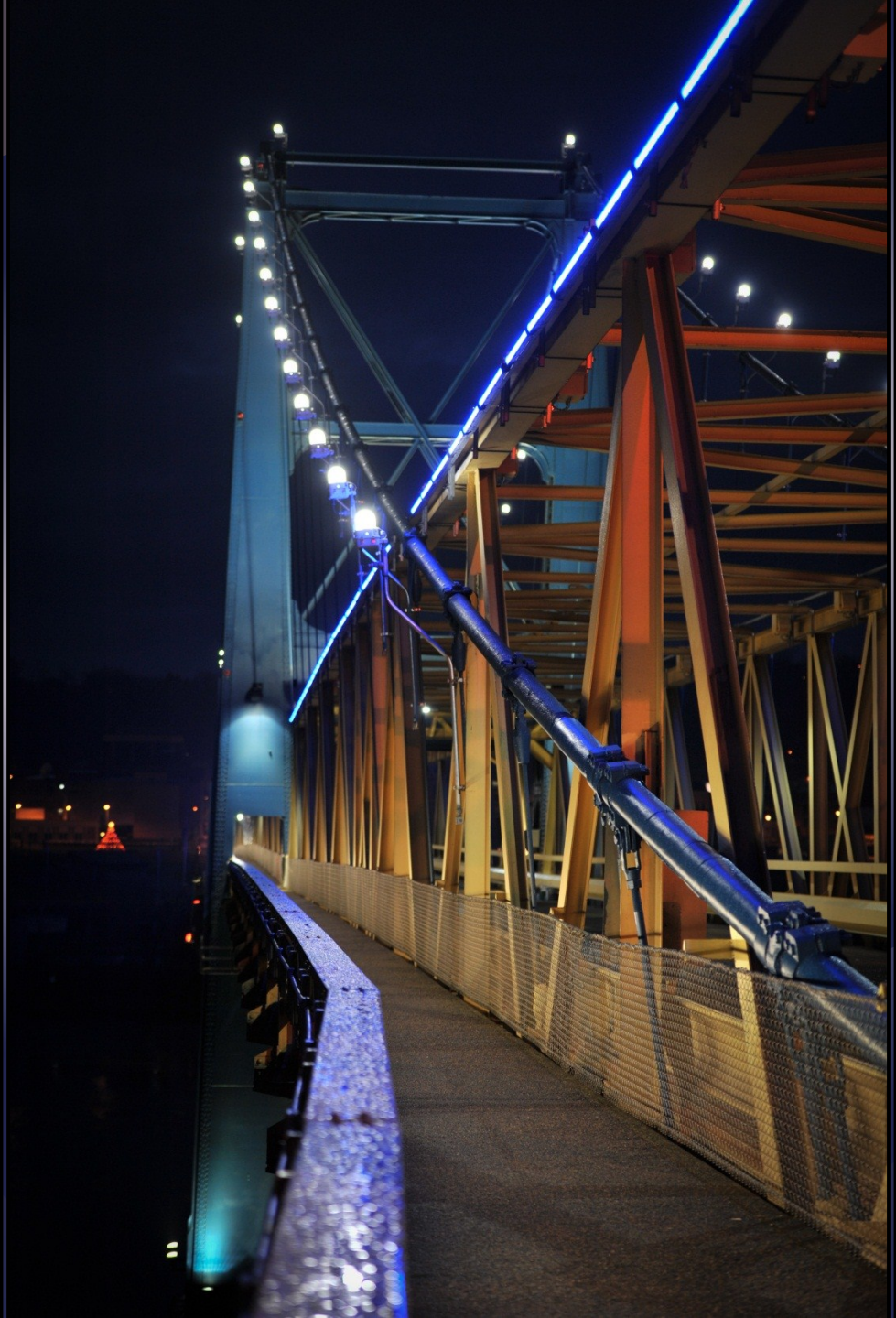


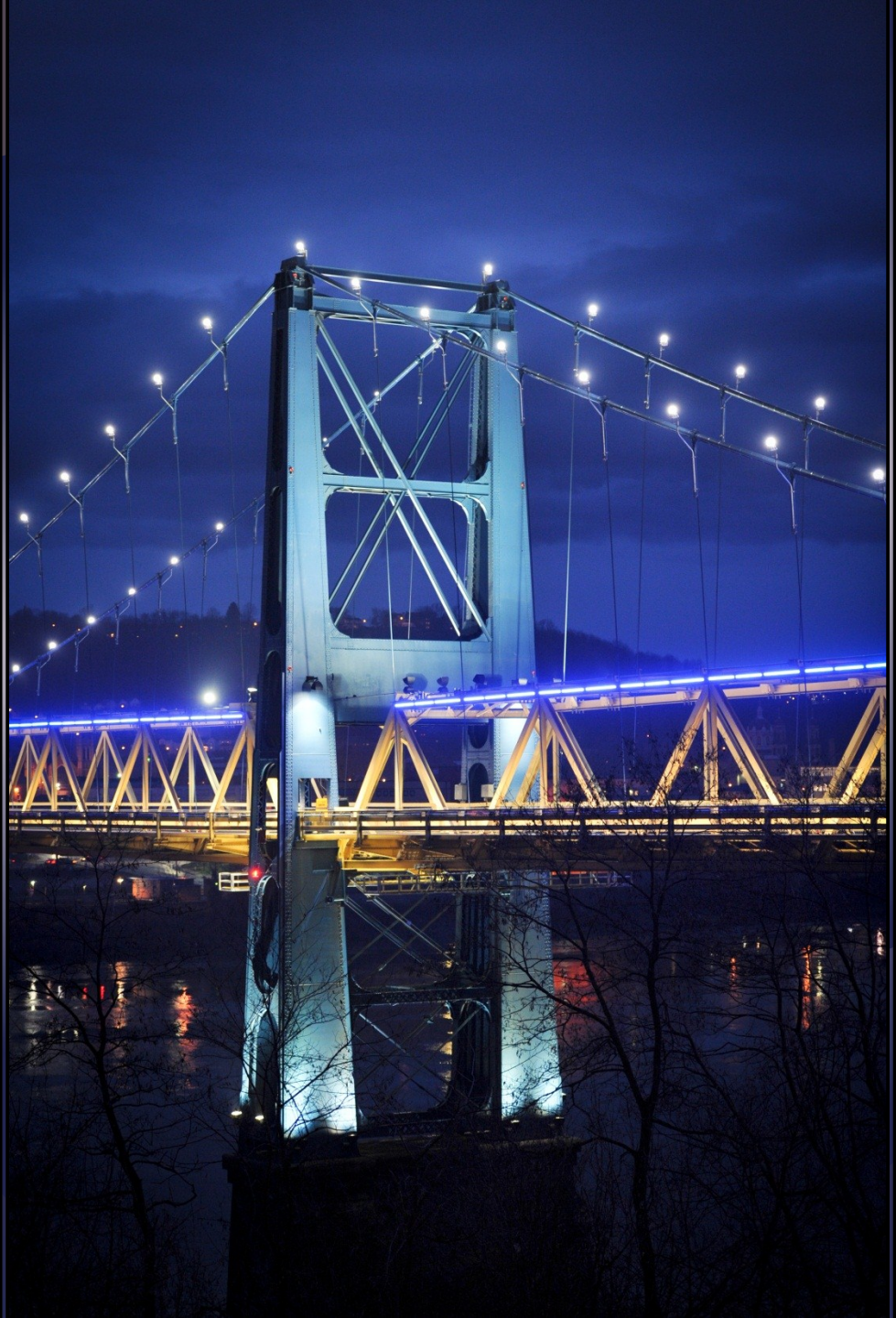






















Subcontractor: Bayless and Ramey



Questions or comments