

*Veterans Memorial  
Bridge Replacement*



**PARSONS  
BRINCKERHOFF**

# A Community Bridge





# Turning Opposition into Advocacy



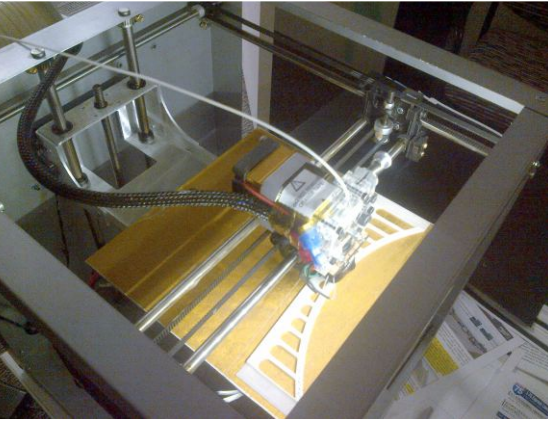


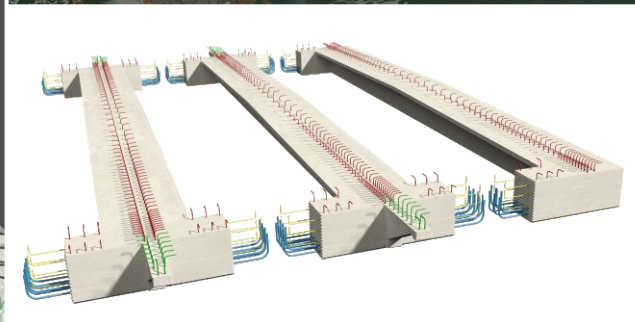
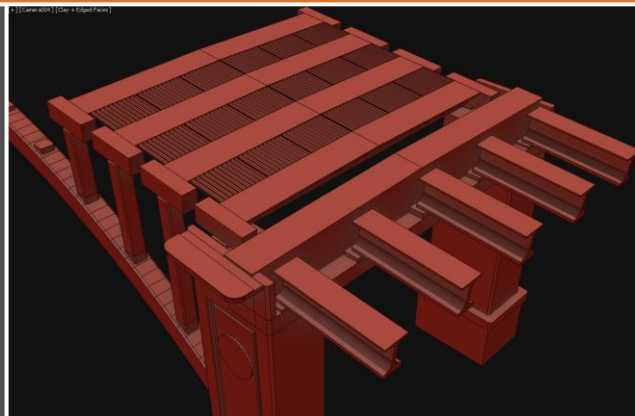
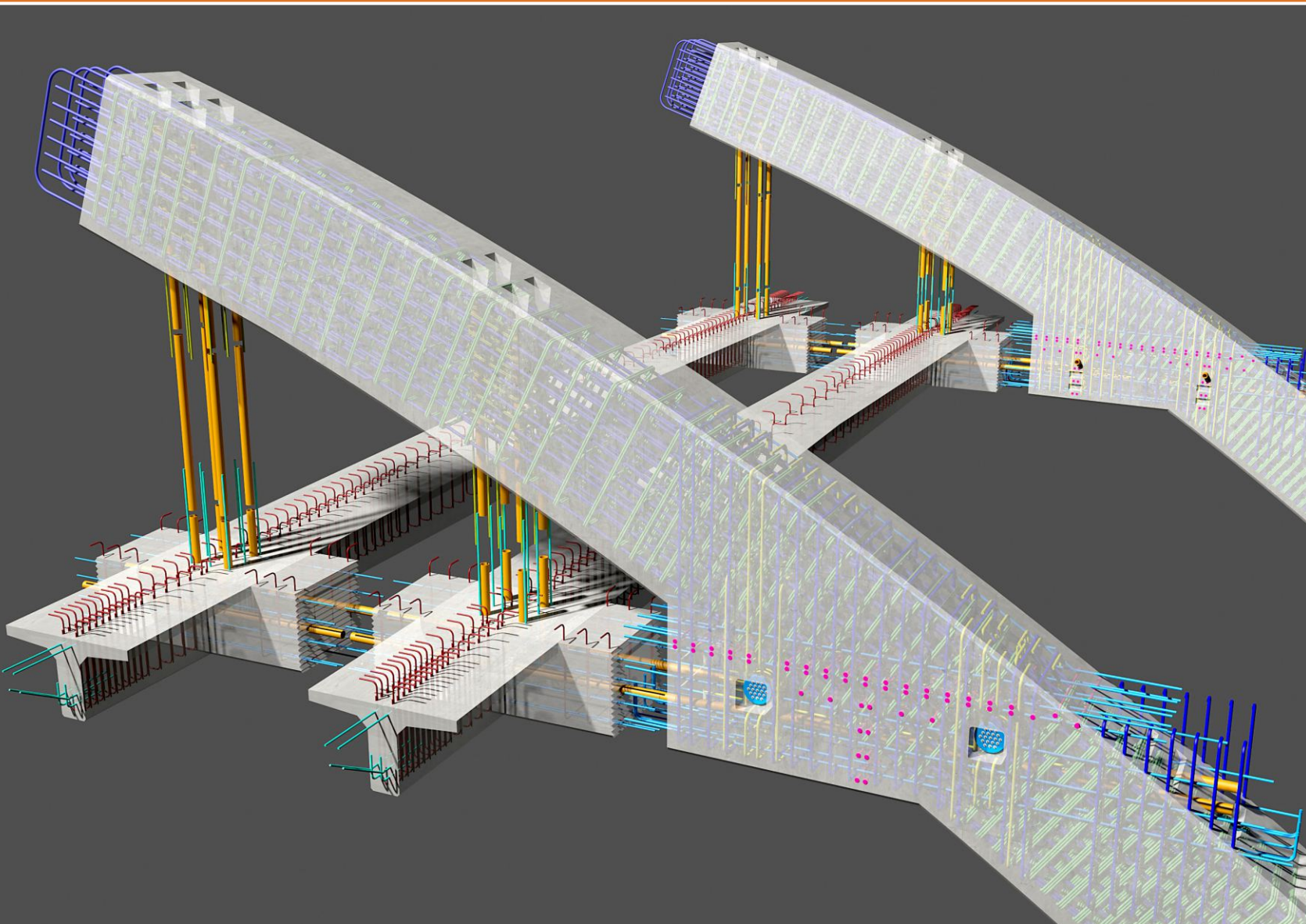
# Designing Outside the Concrete Box





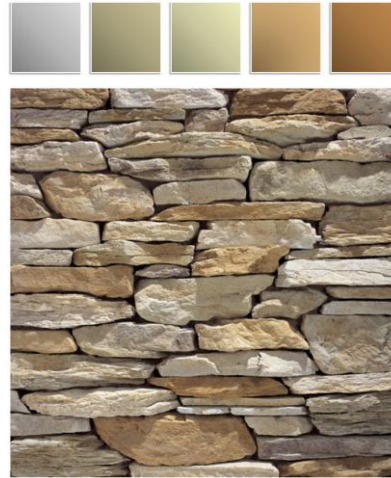
# Embracing New Technologies



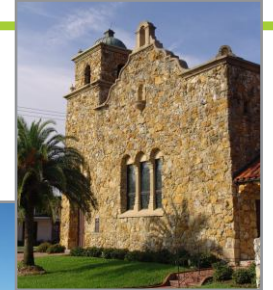


# Minding the Details

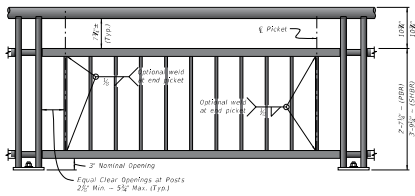
## Coquina Masonry



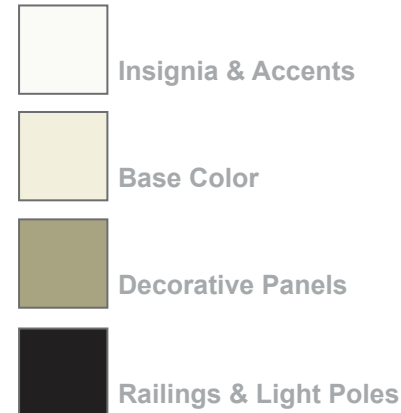
### Local Examples



## Decorative Railings



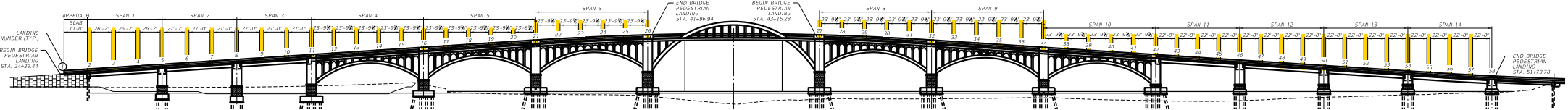
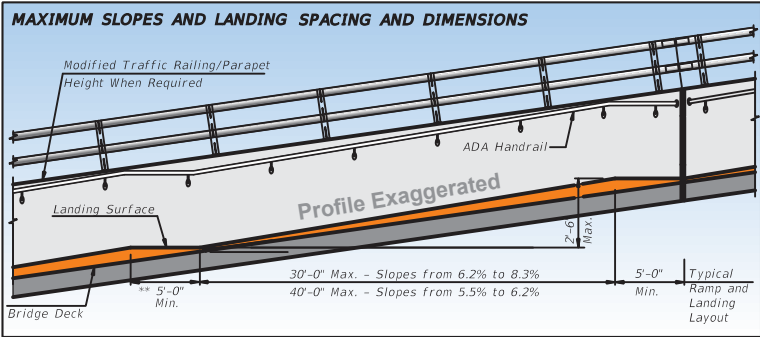
## Concrete Finish Colors



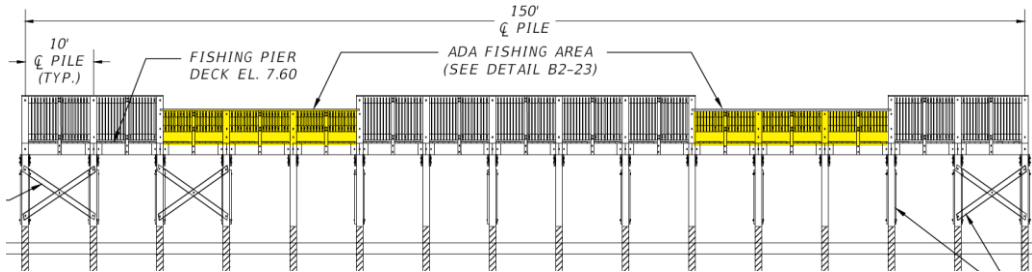
## Additional Features

- ➔ Expanded Sidewalks
- ➔ Flattened Pedestrian Overlooks  
Coordinated with Required ADA Landings
- ➔ Charging Outlets Across the Bridge
- ➔ Overlook Plaques Incorporating Braille

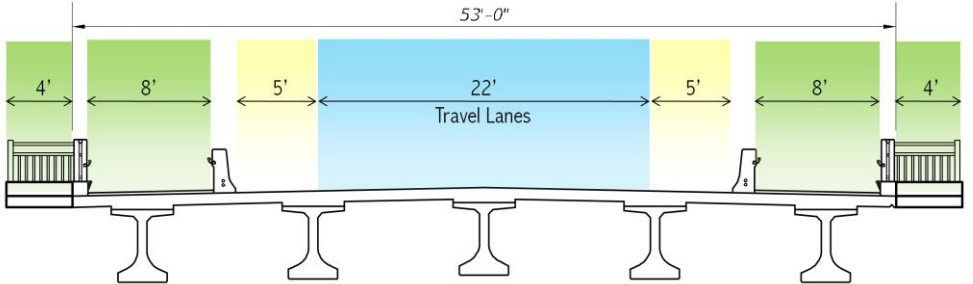
## Bridge Landings



## Wheelchair Accessible Fishing Areas



## Enhanced Typical Section



# Paying Tribute to our Veterans



FOR THOSE IN VOLUSIA COUNTY WHO  
SERVED WITH HONOR AND INTEGRITY



Charles F. Hickman

Joe C. Madison

Paul L. Hon

Hershell McClenan

Wade H. Hubbard

Edgar McKinney

Charlie C. Leonardy

William J. Mew

# World War II

## 1941 - 1946



## European Theatre

Beginning with Germany's invasion of Poland, by June of 1940, Germany had taken control of a large portion of Western Europe, and was moving to invade the United Kingdom. Allied forces, led by the U.S. and British forces, fought back with an extensive air and ground campaign, including the massive D-day invasion at Normandy Beach on June 6th 1944.

(Continued at next overlook)



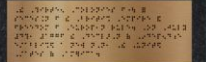
## World War I

### 1917 - 1918



On April 6, 1917, the United States declared war with Germany, and on December 7, 1917, with Austria-Hungary. By the end of the war in November of 1918, four major imperial powers ceased to exist, and the map of Europe was redrawn. With over 9 million killed, WWI proved to be one of the deadliest conflicts in history.

Total U.S. Military	4,734,991
Killed in Action	53,402
Volusia County KIA	29
Wounded in Action	204,002
Missing in Action	



## Vietnam War

### 1964 - 1975



After communist losses during the Tet Offensive, and increasing political pressures from home, in 1969, the U.S. began a gradual withdrawal of ground forces, with U.S. military involvement ending in the spring of 1975. The war ended after the fall of Saigon on April 30th 1975. Vietnam was reunified following the war as the Republic of Vietnam.

Total Active U.S. Military	8,744,000
Killed in Action	47,434
Volusia County KIA	47
Wounded in Action	155,303
Missing in Action	



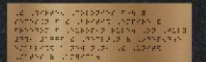
## Operation Enduring Freedom

### 2001 - Present

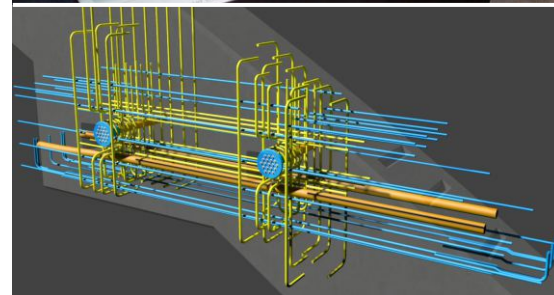


On October 7, 2001, U.S. and Coalition Forces invaded Afghanistan in response to the 9/11 attacks and began combat action against Al Qaeda terrorists and Taliban supporters. Also known as the Global War on Terror, this conflict is ongoing, with active operations across the globe.

Total Active U.S. Military	172,000
Killed in Action	2,299
Volusia County KIA	5
Wounded in Action	18,886



# Exceeding Expectations



THE INDEPENDENT VOICE OF VOLUSIA & FLAGLER COUNTIES

**OPINION**

**County's bridge-building efforts pay off**

**OUR VIEW**

**K**udos to Volusia County officials for understanding that building bridges requires more than drawing up blueprints and pouring concrete.

It starts with reaching out to the public.

When the county announced in 2011 that it was going to replace the 59-year-old Tom Staed Veterans Memorial Bridge on Orange Avenue (often called the Silver Beach Bridge or the Orange Avenue Bridge), many residents initially recoiled. The old drawbridge had significant nostalgic value, evoking memories of Old Florida. In addition, that its replacement would be higher and larger, obstructing their views of the river and also making it more difficult to cross.

Some feared losing a favorite fishing spot. Others were concerned about the effect a bigger structure would have on historic Lillian Place.

The county could have dismissed these complaints as being typical anytime something new is proposed. For some, change is hard, even if it represents progress.

And progress is needed with the Orange Avenue bridge. The Florida Department of Transportation has given it the lowest sufficiency score — 50.7 on a scale of 100 as of January. Bridges with a score below 50 are slated for replacement.

Those malfunctions aren't just a matter of inconvenience. Just a matter of inconvenience. Daytona Beach's four bridges across the Halifax River are vital to emergency services. They must be reliable if the beach is to be evacuated when a hurricane threatens.

Drawbridges have sentimental value, but they slowly have been replaced with lower-maintenance, more-reliable high-rise structures. The Orange Avenue bridge is one of only three remaining drawbridges in the county, and it's the oldest. It's time has passed.

The county wisely listened to residents and tried to address their concerns in the design of the new \$43 million bridge. Last month, county transportation officials held a public open house at the City Island Recreative Hall to present architects' renderings and display an 8-foot model of what the finished bridge will look like. It includes two attractive arches in the middle, a fishing pier underneath the bridge to appease anglers and an adjacent veterans memorial park.

Most of the dozens of people who attended gave the replacement bridge favorable reviews, and said the plans are much improved over the bland, concrete structure originally proposed. County officials said they never had a public meeting as positive.

Not everyone was sold. Design. The News-Journal's Mark Lane quoted resident Sandra Sirk as saying that although she appreciates the county's attempts to ease concerns, the new bridge will decrease her views and fireworks displays at the ballpark.

Well, you can't win. Still, the county's effort in the process of listening with the public, seeking approval, appears to be off. That will ensure Orange Avenue bridge stand on sturdy ground.

SEE BRIDGE, PAGE 14A

TOM STAED/VETERANS MEMORIAL BRIDGE

## Bridge wins over many

\$43 million arch design earns support from most in community

An architectural rendering shows the proposed veterans memorial and fishing pier on the northwest end of the planned Tom Staed/Veterans Memorial Bridge.

By MARK LANE  
mark.lane@news-jmi.com

**DAYTONA BEACH** — The view of the Halifax River from City Island will soon look very different as a striking, new \$43 million bridge rises to connect the island and the beachside.

The Tom Staed/Veterans Memorial Bridge is slated to be torn down early next year. Its remains may be buried at sea to form an artificial reef. In its place will be a new bridge with graceful arches at its center.

"There is no arch bridge like this in Florida," said Volusia County Engineer Gerald Brinton.

According to Brinton, the arches are not mere decorations. They help bear the weight of the bridge so it can keep a lower profile even as it meets the U.S. Coast Guard's requirement of keeping 65 feet of clearance above the water.

The Orange Avenue Bridge, looking east across the Halifax River, is seen in this photo from 2011.

"Give me the liberty to know, to utter, and to argue freely according to conscience, above all liberties."  
— Milton

LETTERS TO THE EDITOR



# Veterans Memorial Bridge

Daytona Beach, FL

Project Management

**Tad Molas, P.E.**

**Adrian Moon**

Lead Structures, Engineer of Record

**Victor Ryzhikov, P.E.**

Public Engagement/Visualization

**Adrian Moon**

Arch Span Design Engineers

**Christopher Vanek, P.E.**

**Piotr Paczkowski, P.E.**

Conventional Span Design Engineer

**Matt Durshimer, E.I.**