

Yadkin River Veteran Memorial Bridge

Salsbury, NC



In 2013, NCDOT opened the new I-85 Yadkin River Veterans Memorial Bridges, which replaces the original bridge built in 1955. The new bridge, consisting of eight bents and nine spans, was built using top-down construction that eliminated the need for a temporary work bridge and reduces the impact to the environment. Epoxy-coated reinforcing steel (ECR rebar) was used in the deck construction of the structure to provide corrosion protection to the reinforcing steel.

Although the original bridge proved to be durable throughout its lifespan, engineers with the North Carolina Department of Transportation found the old span “functionally obsolete.” The original bridge had four lanes and no shoulders while the new bridges have four lanes in each direction and shoulders for broken down vehicles.

The new bridges used 76,000 tons of concrete and 3,600 tons of uncoated and epoxy-coated reinforced steel (ECR rebar). The construction costs were approximately \$136 million for both bridges, as well as the cost of an adjacent bridge for U.S. 29.

Team

Owner:

North Carolina Department of Transportation

Builder:

Flatiron-Lane (a Joint Venture)

General Contractor:

Dominion Fairmile Construction Ltd.

Design Criteria:

- Replace functionally obsolete structure.
- Minimize traffic disruption.
- Provide durable future bridge.

Total Project Cost: \$136 million

Total Size:

LENGTH: 1150 ft

WIDTH: 60 ft

Epoxy-coated Reinforcing Steel:

3,600 tons

(epoxy and uncoated reinforcing steel)

Photography:

bloximages.newyork1.vip.townnews.com



Epoxy-Coated Reinforcing Steel

COST-EFFECTIVE CORROSION PROTECTION

A Better Product Using More Than 40 Years of Improved Manufacturing and Coating Technologies.