

Dual Bridge Demo over Cape Fear River *Tar Heel, NC and Riegelwood, NC*



Description of the Work

NCDOT required the demolition of two steel truss bridges that were replaced by newer structures. Carolina Bridge Company was awarded the contract to disassemble both structures. The concrete deck was taken apart prior to demolition operations to lighten the structure.

Freyssinet/Hebetec Scope

The task at hand was to provide strand bundles, Hebetec Engineering Ltd. heavy lifting equipment and full-time technical assistance to lower the bridges from their bearings onto a barge that later transported the bridges to another location for disassembly.

Carolina Bridge Company fixed four (4) strongbacks (steel box beams) onto the bridge abutments to allow the transfer of the load from the bearings onto the strandjacks.

Freyssinet and Hebetec technical specialists installed the heavy lifting system using pre-fabricated strand bundles. Each technician controlled two (2) jacks on either side of the structure to lower the bridge and maintain its horizontal position throughout the lowering operations.

General Contractor :

Carolina Bridge Company

Owner :

North Carolina DOT

Beginning of works :

September 2015

End of works :

December 2015



Weight of Tar Heel Bridge	400 Tons
Lowering distance	65'
Weight of Riegelwood Bridge	320 Tons
Lowering distance	55'

Equipment used

Strand Jack H-140	4 units
PA-4-8 pump	2 units

