

Fiber Reinforced Polymer Repair of Structurally Damaged Bridge Piers

In spite of numerous methods to restore the strength of damaged bridge piling, very few methods have proven effect in fully restoring the original capacity short of complete replacement. With an enormous number corrosion or otherwise damaged bridges in the State of Florida, an economical yet effective method of repairing these compromised structures has been perfected at USF that uses high strength fiber reinforce polymers. More significantly, the new system makes use of water-tolerant resins that can be directly applied underwater. This eliminates the need for more expensive de-watering cofferdams.



Pile ready to be repaired.



Application of fiber reinforce polymers.



Repaired piling receiving the finishing touches.

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