

What was unique about this project?

7KLSURMHFWLWKHILUWLVDOODWLRQIS,7WLGJH&RPSRLWH
\$UFKWLGH6WHPLOQRULGDKLSURMHFWIHDW&HRR
ZGHWWUKW&HWRGDWH



Describe Traditional Approach:

7UDGLWLRQDSSURDFKLE&HDGGLWLRQIIODKWODWIKQFHODJ
MOLFme and other corrosion inhibitors into cement rich concrete
mixes to protect carbon steel prestressing strands and reinforcing with
limited long-term success, especially in the presence of concrete
cracking.

Describe New Approach:

\$.7WLGJH&RPSRLWH\$UFKWLGH6WHPWLOLHDGDDHG
FRPSRLWHPDWHULDOWRSURYGHOLJKW&LJKWKLJKWUHQWKG&DEOHEU
ROWLRQKHWHPFRQWHRI&RQUHWH)LOOHG)537KH)53
HFNLQDQHGDGOOSRUWHGE3UHFDWRI&DWLQODFH)RRWLV

Top Innovations Employed:

Utilization of &RQUHWH)LOOHG&DUHOHPHQ&WZKDQ3
HFNLQ

Primary Benefits Realized/Expected:

Longer service life of the bridge without major maintenance

Project Start Date/Substantial Completion Date:

Affiliations:

PE Designer: EJKSDQLHULQ
PE Consultant: \$.7WLGJHV
Construction Contractor: Thomas Marine Construction
&RQUKWLRLQ&HULQ&HFWLRQ

Project Contact:

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FDOT State Materials Office:



<http://www.fdot.gov/structures/innovation/FRP.shtm>