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PROJECT PROFILE

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The Hynes Convention Center, Boston MA Sub-structure Repairs, 2005

OWNER:

Boston Convention Center Authority

CONSULTING ENGINEER:

Simpson Gumpertz and Heger

PROJECT VALUE: \$ 300,000.00

DESCRIPTION:

CSI was contracted to make structural repairs to the supporting elements of the Hynes Convention Center where it spans the Mass Turnpike and CSX rail system located below.



All work had to be coordinated with the Mass Turnpike Authority and CSX to minimize disruption to both Highway and rail traffic.

The scope of work entailed supplemental reinforcing steel hangers to the crawl space of the convention center and the repair and subsequent coating of the large concrete beams and slabs above both the road and rail tracks.

The beam and slab repairs above the Turnpike and Rail tracks were performed using self-suspended 12 gauge stainless steel forms. These forms were adapted to incorporate prefabricated ports thus enabling the modified concrete to be pumped into the enclosed forms under pressure. The need to adopt an unconventional and site-specific form system was dictated by the Turnpike requirement that the height of the roadway not be reduced by more than ¼" because of the limited traffic flow tolerances at this location.

After repairs were completed, all areas were pressure washed and subsequently coated with an anti-carbonation coating.

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Corporate Office: 453 South Main Street, Attleboro, MA 02703
Regional Office: 1600 North Powerline Road, Pompano Beach, FL 33069
Regional Office: 477 Congress Street, 5th Floor, Portland, ME 04101
Regional Office: 4061 Powder Mill Road, Suite 700, Calverton, MD 20705

P/ 508.222.2377
P/ 954.786.3223
P/ 207.523.3431
P/ 888.931.0125