

# Rockland & Westchester Counties, NY

## Tappan Zee Bridge Pile Load Testing & Armoring



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**Owner:** NYS Thruway Authority

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**Client:** Tappan Zee Constructors, LLC

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**Engineer:** HDR, Inc.

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**Year Complete:** Load Test 2014, Armoring 1st Season 2014, Armoring 2nd Season Projected 2015

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**Project Cost:** Load Test \$12 Million, Armoring \$20 Million

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**Tappan Zee Load Test:** Contracted to perform 14 each axial load tests and 2 each lateral load tests on the new bridge foundation piles. The piles tested were steel pipe piles that ranged in size between 36" and 72" diameter with test loads up to 7320 Kips. Weeks' test frame consisted of 8 each reaction piles that supported two 9 ft deep double plate girders. The test weights consisted of a 30 ft x 90 ft barge filled with water, road plate, and crane counterweights.

**Tappan Zee Armoring:** Contracted to place two layers of armoring material over an access channel adjacent to the bridge. A total of approximately 360,000 CY of armor material was needed to cover the channel. Weeks' utilized a barge mounted conveyor system to place the material in consistent and uniform layers.