



PRE-FABRICATED BRIDGE

- Location:** Interstate Storage & Pipeline
Burlington, New Jersey
- Project:** Design and Construction of
New Bridge & Roadway
- Description:** W.J. Castle, P.E. & Associates, P.C. & Hydro-Marine Construction Co., Inc. were retained to design and construct a new bridge for a major jet fuel supplier in Burlington County, New Jersey. Several site visits were performed to verify site conditions and determine the best layout and design for the project. **W.J. Castle, P.E. & Associates, P.C.**, was responsible for all engineering from preliminary design to final design. This 39'-0" steel stringer bridge was pre-fabricated into two modules and shipped to the site, ready for installation.

Approximately 750 feet of roadway design and construction was also performed and included stone filled gabion walls, chain link fence, steel beam guiderail, and security gates.

Hydro-Marine Construction Co., Inc. was responsible for the construction and construction management from the start of the project, including any site preparation, to final installation. A foundation system using a steel cap beam supported by five 3½" diameter Chance Helical Piles was used due to the presence of underground gas lines, overhead power lines, and N.J. Transit restrictions. Once the bridge superstructure was installed, a 7" deep concrete deck was poured in place. Construction of the bridge was completed in one week and the cost was \$270,000.00 for the entire Project, including engineering.

In 2005, this Project received two awards as a result of innovative design and construction techniques from the following agencies:

- N.J. Department of Transportation
- Delaware Valley Associates of Structural Engineering



The Castle Group
Innovation in action

W.J. Castle P.E. & Associates
Hydro-Marine Construction
Simplified Bridge Systems

Sets the
Standard for



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& Design/Build
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