

David Sheppard House



PROJECT

David Sheppard House
Bridgeton, New Jersey

CLIENT

Rutgers University
Consultant to: Watson & Henry Associates

DATES

2006 Design and Documentation

DESCRIPTION

The David Sheppard House was built as a Federal style mansion in 1791. Located at a busy intersection in Bridgeton, New Jersey, it housed two generations of the Sheppard family before being expanded in the Nineteenth Century to accommodate its use as a school for young women. The buildings sat vacant for over twenty years until the restoration work was completed in 2008. A Level II Capital Preservation Grant was received from the Garden State Historic Preservation Trust Fund, to assist in funding. The property is occupied by Rutgers University for use as a marine sciences educational facility.

CHALLENGE

We were retained by Watson & Henry Associates as the structural engineer and roof consultant for the Sheppard House Project. Included were the survey and analysis of the existing structure and design of the structural reinforcements. Construction documents for a new addition on the north side of the building were also prepared, although this aspect of the project did not move forward.

SERVICES

Structural Stabilization and Design

Performed on-site investigation of existing structural framing and roof systems.

Measured and document interior and exterior existing conditions.

Investigated, analyzed, and assessed exterior walls, timber joists, and main collector beams.

Designed and installed structural details to reinforce the deflected main collector beams and joists at each level using a combination of timber scabs and steel plates.

Designed a new roof and provided drainage details in accordance with Factory Mutual Global standards.

Prepared construction documents for structural stabilization and the planned building addition.