
Richard E. Brown | Sr. Structural Engineer, PE, PP, CME

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Professional Summary:

Mr. Brown has forty-five years of experience in the field of engineering and land surveying, including three years of forensic investigations of foundation settlement, structural failures, flood damage, roof inspections and evaluation, tree strikes. Mr. Brown's experience includes the design of commercial site plans, residential subdivisions, storm and sanitary sewer design, retaining wall design and roadway design. For many of these projects, he was also responsible for construction inspection, contractor payment requests and project closeout.

Licenses and Certifications:

Professional Engineer, Division of Consumer Affairs, New Jersey, License #29909

Professional Planner, Division of Consumer Affairs, New Jersey, License #3106

Certified Municipal Engineer, New Jersey

Professional Engineer, Bureau of Professional & Occupational Affairs, Pennsylvania, License #PE079400

Project Experience:**Hay Barn Collapse:**

Performed detailed inspection of a collapsed hay barn that reportedly failed after the upper level of the barn was filled with baled hay. Responsibilities included evaluating failed structural members and the connectors used to join the members.

Sanitary Sewer Force Main and Pump Station Design:

Responsible for the design of 9,000 linear feet of sanitary force main and pump station for a multi-family residential development in Morris County, New Jersey. The project included negotiations with the New Jersey Department of Transportation to install the force main in a No Access Right-of-Way.

Commercial/Residential Site Plan:

Responsible for the design of site improvements that included 1.25 million square feet of office space and 125 residential units. This project included storm and sanitary sewer design, roadway design and permitting with the FAA, as the project was in the approach surface of a local airport.

Hurricanes Irene and Sandy:

Performed inspections of hurricane damaged structures in five northeast states. Damages inspected were the result of flooding, tree strikes, wind damage and foundation failures. Structures were both residential and commercial.

Winch Failure and Damage Assessment:

During the installation of an interior water service in a commercial building, a winch lifting a section of pipe vertically failed, causing the pipe to drop and penetrate thirteen floors before reaching the basement floor. Performed an inspection of the winch and the resulting damage in the building.

Slip/Trip and Fall Investigations:

Conducted numerous slip/trip and fall investigations in both residential and commercial structures. The work included gathering detailed information on materials, stair tread and riser heights and slopes of walking surfaces. The majority of projects included the use of a Tribometer to measure the coefficient of friction of the surface where an incident has occurred.

Professional Experience:

Carroll Engineering - Municipal/Site Engineer – 2013-2017
Rimkus Consulting Group, Inc. – Forensic Engineer – 2011-2013
Birdsall Engineering, Inc. – Municipal Engineer – 2006-2010
Schoor DePalma – Site/Municipal Engineer – 2000-2006
Township of Cranford – Municipal Engineer/Director of Public Works – 1997-2000
Storch Engineers – Site/Municipal Engineer – 1984-1997
Township of Cranford – Principal Engineer/Assistant Township Engineer – 1973-1984
Grassmann, Kreh & Mixer – Surveyor/Draftsman/Designer – 1972-1973

Education:

Bachelor of Science Civil Engineering, cum laude
Newark College of Engineering, Newark, New Jersey

Honors and Awards:

Tau Beta Pi - 1983
Chi Epsilon - 1983

**Court and Litigation CV available on request