

PROJECT

Old Dutch Church
Graveyard and Foundation Evaluation & Structural
Monitoring
Kingston, New York

CLIENTS

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Old Dutch Church

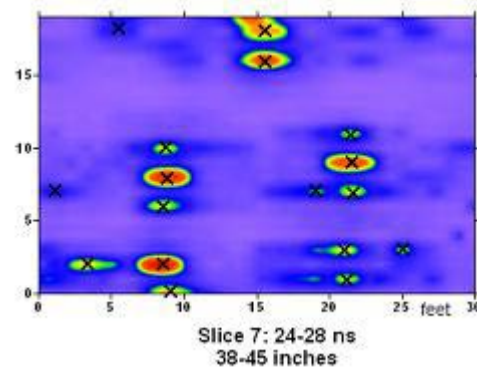
PROJECT DESCRIPTION

The First Reformed Protestant Dutch Church was constructed in 1852 in Kingston, New York. The stone church, designed by Minard Lafever, is an important historical and cultural monument for the mid-Hudson River region. The east wall of the church had deflected outwards and had a pronounced lean and bulge. A series of steel braces were installed in an attempt to halt future movement.



Gauge for monitoring truss movement

The project included a program of investigative and monitoring tasks to determine if the wall was continuing to move and to identify the most likely causes for observed distress. Recommendations were provided to the project architect and building owner regarding the nature of any recorded movement and the necessity for future stabilization or strengthening.



Plot showing gravesite layout

SERVICES PROVIDED BY ATKINSON-NOLAND

- Microwave radar investigations of stone masonry walls and footings
- Ground penetrating radar to locate gravesites adjacent to the east wall
- Borescope examination of the wall interior
- Structural monitoring for tilt, crack movement, and temperature
- Formulated an injection grout and anchor installation scheme for masonry wall stabilization



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