

PILGRIM MONUMENT AND PROVINCETOWN MUSEUM

Provincetown, MA

The Pilgrim Monument and Museum is Cape Cod's oldest cultural institution and the symbol of Provincetown. Rising 350 feet above sea level, the Monument was built in the early 1900s to commemorate the "first landing" of the Mayflower Pilgrims. The Monument was designed to resemble Torre Del Mangia in Sienna, Italy, and built of steel, mortar, and granite from Stonington, ME. After a century of salt air and foot traffic, it was time for a renovation. While granite is virtually indestructible, sections of concrete embedded with steel had absorbed moisture and salt spray, causing the steel to corrode and disintegrate.

Coastal Engineering Co. was engaged as the Engineer of Record to evaluate, design, and execute a comprehensive restoration and renovation of the monument's interior structure. In conjunction with Fibrwrap Construction Services Inc., a state-of-the-art advanced polymer fiber technology pioneered in aerospace industry was used to reinforce the structure with a moisture-proof exoskeleton system - all while respecting the monument's historic authenticity. Also included in the project was variance with Architectural Access Board for universal access alternatives. New handrails and tempered glass panels were added, allowing panoramic 360-degree views of Cape Cod Bay and the Atlantic Ocean. The job was done with minimal interruption to the public and the facility's revenue stream.

SERVICES

- Historical structure survey and report
- Structural evaluation engineering design
- Plans and specifications for interior concrete repairs, stair, ramp, and exterior masonry restoration work
- Engineering oversight for museum deck repairs and improvements
- Assistance with providing supporting documentation for MPPF grant filing
- Construction contract administration

