



Quantapoint Case Study

Quantapoint Accurately Documents Government Structure

New Jersey Statehouse, Trenton NJ

Situation

The New Jersey Statehouse, America's second oldest statehouse, was built in 1792. The French Academic Classical style building was being restored and renovated to its original splendor. This required very detailed and accurate documentation of both the exterior elevations and multiple floor interior.

Challenge

The Statehouse's distinct design presented unique challenges. The building contained multiple floors with both large and small spaces, multiple roof areas-both pitched and flat, and ornamental plaster ceilings. The elevations on the exterior were extreme in areas and the structure included very intricate detailing on the façade. Also, structural and mechanical systems were to be reworked and no existing condition documentation was available and existing drawings were incomplete.



Solution

Quantapoint was called upon to develop accurate existing condition (or "as-built") documentation using integrated laser scanning. Quantapoint's as-built documentation™ is a "turnkey" solution that combines hardware, software, data processing and delivery.

Quantapoint rapidly collects, registers, and verifies billions of highly accurate measurements to provide a consistent and up-to-date "digitized building" of as-built laser documentation – without invasive manual measurement, purchasing costly hardware or time-consuming remodeling.

Results

Quantapoint scanned the 150,000 square foot structure in six days and used the digitized structure to create detailed and accurate 2D drawings that included floor plans, reflected ceiling plans, exterior elevations, building sections and site plans. The richly detailed drawings were delivered to the architects in less than 4 ½ weeks, enabling the architects to remain within budget, meet their deadlines and preserve the beauty of an American treasure.