

PROJECT

Colton Elementary School
New Orleans, Louisiana

CLIENT

Waggoner and Ball Architects
New Orleans, Louisiana

PROJECT DESCRIPTION

The school is constructed from a reinforced concrete frame with clay brick masonry infill and veneer. In past years, the building has experienced severe cracking at a majority of the exterior masonry walls. Furthermore, a large area of brick veneer was displaced and collapsed from the third floor of the building. Atkinson-Noland & Associates worked with Masonry Solutions



International to investigate the existing conditions of the structural components of the building and perform in-situ material tests to determine material properties for structural analysis. Our engineers provided preliminary recommendations to address immediate stability issues and conceptual long term strengthening solutions to increase the resistance to future hurricane-level wind loads.

SERVICES PROVIDED BY ATKINSON-NOLAND

- Condition survey of exterior masonry walls to identify damage conditions
- Investigation of concrete structural elements using microwave radar scanning to generate as-built section details
- Flatjack testing to determine masonry compressive response and mortar bed joint shear strength
- In-situ tests to determine the mortar flexural bond strength
- In-situ tests to characterize pullout and shear capacity of embedded masonry anchors
- Water penetration testing per ASTM C1601
- Laboratory testing of concrete and mortar samples
- Conceptual repair recommendations



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