

PROJECT

Old Senior Hall
Hershey, Pennsylvania

CLIENT

The Ray Group
Lancaster, Pennsylvania

PROJECT DESCRIPTION

Constructed in 1934, the “Old Senior Hall” building was built with a structural steel frame, concrete and gypsteel floors and roof, and a reinforced concrete foundation. The exterior walls were built using a brick masonry façade over a clay tile backup with limestone sills, coping, and accents. Active corrosion of main structural members was discovered in the late 1990’s, and a plan was developed to renovate the building to address structural concerns. Atkinson-Noland conducted a full exterior condition survey, including use of nondestructive tests to identify the extent of steel corrosion, evaluate masonry performance, and identify potential repair items. Results of this study were used to plan repairs and any necessary strengthening.

SERVICES PROVIDED BY ATKINSON-NOLAND

- Condition survey to identify damage conditions throughout the exterior and interior
- In situ tests to investigate steel corrosion and wall water penetration resistance
- Evaluation of as-built conditions using nondestructive investigations and subsurface probes
- Laboratory testing of steel and masonry materials
- Conceptual repair recommendations



Clock tower at Old Senior Hall



Corrosion of structural steel framing was of major concern. Loss of cross-section due to corrosion was measured at over 550 locations to develop a statistical database for guiding design of a repair methodology.



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