



Soldiers Memorial Military Museum Renovation: St. Louis, MO

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PROJECT DESCRIPTION

Client: Missouri Historical Society

Project: Soldiers Memorial Military Museum

General Contractor: BSI Constructors

Construction Schedule: 2017-2018

ROLE

Design/Assist Mechanical Contractor

Installing Mechanical Contractor

PROJECT APPROACH

Design/Build

PROJECT SCOPE

Wiegmann Associates renovated a museum-quality HVAC system as part of the Missouri Historical Society's \$30 million historic revitalization of the Soldiers Memorial Military Museum in downtown St. Louis. Wiegmann provided design/assist services to KAI to reduce equipment costs and develop an energy-efficient system that improves visitor comfort and protects historical exhibits as the museum's lower level was refurbished as galleries, and the second floor was renovated as office, assembly and meeting rooms. The HVAC system was designed to maintain strict humidity levels, to preserve artifacts in the galleries while maintaining comfort for visitors.

PROJECT CHALLENGE/SOLUTION

A primary project challenge was developing an energy efficient HVAC system that reliably maintains comfortable temperature levels in spaces that are nearly empty at times and then fully occupied for events.

Sensors control humidity and ventilation in each of 24 zones of the building, conditioning the inside air as needed depending on how the space is occupied.

