



NAUVOO TEMPLE

NAUVOO, ILLINOIS

A historically accurate re-creation of a temple destroyed over 150 years ago, this hand-tooled and intricately carved limestone project was completed in early 2002.

Because of the project's unique stone elements and historical relevance, the LDS Church, project owner, wanted the overall quality to exceed standard code requirements while remaining historically accurate. All attachments were to be stainless steel, and the schedule dictated that the stone installation be completed within one year. Designed as a traditional gravity-stacked masonry project, the time constraints presented an almost insurmountable challenge due to the multitude of carvings and historical custom finishes incorporated, as well as the technically-intense stone support system required by contemporary seismic design. It was estimated that this would normally take two years to complete.

To overcome this challenge, KEPCO+ submitted a design-build alternate suggesting panelization of about 2/3's of the ornate stone. The alternate, which was approximately 20% less than other bids received, was accepted.

Because most panel systems are designed so that the gravity load is supported by the structure at each floor, a traditional steel framing method was not an option. Instead, it was required that KEPCO+ design the stainless steel strongbacks so that the dead load would be transferred to the foundation, mimicking traditional gravity stacked masonry and using only lateral connections to anchor the panels to the building structure.

KEPCO+'s cost-effective alternative provided a higher quality end product, better long term technical performance, and enhanced the project schedule—all of which would not have been possible with a traditional masonry system. KEPCO+ is proud to have successfully participated in the construction of such an impressive monument for the architectural community, the owner, and the natural stone industry.

Project Awards:
2002 MIA Pinnacle
Award of Excellence
2003 Palladio Award

Cladding Type:
Alabama Limestone

Cladding Total: 30,000 CuFt

Installation Method:
Stainless Steel Trusses and
Handset

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Architectural Cladding Systems
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