

PROJECTS



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PROJECT SPECS:

- Project Scope: Design-build services for the HVAC scope of work for a new Westin hotel and Shula's restaurant in Lake Mary, Fla. The scope included construction of a new, 7-story luxury hotel comprising 253 guest rooms, plus a state-of-the-art fitness center, full service restaurant and bar, and 20,000 square feet of meeting and ballroom space.
- Size: 7 stories, 190,000 square feet
- Systems: 600 tons of chilled water cooling, duct work, DDC controls
- Schedule: 12 months
- Project's Installed Mechanical Value: Approximately \$4.1 million
- General Contractor: BE&K

RE-DESIGN COST-SAVING ITEMS IMPLEMENTED:

Original Design

Cooling Plant

Water-cooled chillers with primary/secondary chilled water pumping system and cooling towers.

Heating Plant

Gas-fired hot water boilers with a primary/secondary pumping system.

Air side system for back-of-house & public spaces

Single-zone air handlers and rooftop units with chilled water coils and hot water reheat coils.

Guestroom system

Four-pipe, vertical-stack high-rise units with a chilled water coil and hot water heating coil.

Makeup air systems for guestrooms

100% outside air units with chilled water coils and hot water coils ducted directly into the guestrooms.

Re-design

Air-cooled chillers with variable primary pumping.

Electric reheat coils serving each parallel fan-powered terminal box and guestroom fan coil units.

Variable air volume chilled water air handlers. Zone control was achieved by using fan-powered terminal boxes with electric reheat coils.

Two-pipe, vertical-stack high-rise units with a chilled water coil and electric reheat coil.

100% outside air units with chilled water coils and gas-fired heat, which helped reduce the electrical service requirements for the building.



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