



CASE STUDY

ENTERTAINMENT/HOSPITALITY

HOTELS/RESORTS

Hard Rock Hotel San Diego, SAN DIEGO, CA



OPERATING COMPANY:

University Mechanical & Engineering Contractors, Inc.

CLIENT:

Tarsadia Hotels

ENGINEERS:

University Mechanical & Engineering Contractors, Inc.;
X-nth (formerly TKG Consulting Engineers)

GENERAL CONTRACTOR:

Turner Construction

MECHANICAL CONTRACTOR:

University Mechanical & Engineering Contractors, Inc.

SCHEDULE:

Approximately two years

COST:

\$11.5 million

TECHNICAL SOLUTIONS

Relationships
Quality Service
VALUE ENGINEERING
Experience
Project Schedule & Coordination
EXPERTISE

- New Construction
- Retrofit
- Electrical Construction
- Mechanical Services
- Facilities Services
- Consulting Services

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VALUE DELIVERED

Outstanding guest and visitor comfort and satisfaction; greater operational reliability; innovative design/build strategies; enhancement of the Hard Rock brand; maintenance of public safety in a busy downtown environment; minimal disruptions to local businesses.

OBJECTIVES

To install a complete high-end mechanical/plumbing infrastructure in its 12-story, 417-room landmark hotel.

SOLUTIONS

Thanks to its extensive expertise, University Mechanical & Engineering Contractors (UMEC) was selected as the design/build mechanical/plumbing contractor for this cutting-edge property in downtown San Diego's famed Gaslamp District. To plan this complex project, UMEC used its advanced building information modeling (BIM) system to create three-dimensional computer models of the project. The team used these models throughout the design and construction stages to evaluate design options, identify and resolve technical issues early, coordinate scheduling, exploit prefabrication opportunities, eliminate rework and optimize safety.

Then, experienced UMEC teams equipped each of the 417 guest rooms with four-pipe vertical fan coil units. The company also installed variable air volume air handlers to serve the hotel's 9,000-square-foot ballroom and 9,000 square feet of meeting space, along with 11 additional air handlers and 31 exhaust fans. Gas-fired boilers on the roof provide the domestic hot water.

For the central plant, UMEC installed two 300-ton chillers, two 3,000-BTU (British thermal units)-per-hour boilers and 15 associated primary and secondary pumps. The company also installed an innovative single-stack drainage system for the guestrooms, as well as more conventional waste and vent plumbing for the kitchen and back-of-house areas.

BACKGROUND

The Hard Rock Hotel San Diego is located at the entrance to the historic Gaslamp Quarter, San Diego's dining and entertainment epicenter, across the street from the San Diego Convention Center and one block from PETCO Park. Since its opening, the hotel has quickly become known for its upscale, contemporary design; signature restaurants, sophisticated nightlife, meticulous customer service, and, of course, rock 'n' roll.



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