

Temecula Medical Center

Temecula, CA

Project Team:

Owner

Universal Health Services of
Rancho Spring, Inc.

Design Architect

HKS Architects

Structural Engineer

HKS inc.

Civil Engineers

Lopezgarcia Group

MEP Design Engineers

CCRD Partners

Building Stats:

Building Size

295,000 sq. ft.

Levels

6

Cost

Const. on hold*

Delivery

Design-Bid-Build

Occupancy

Medical

Zoning

Commerical

Architecture:

- Trademark of Temecula, CA
- 6 stories @ 107'
- Facade predominantly portland cement plaster with pre-finished metal panels
- Roof consisted of coping caps matching plaster as well as rust colored roof panels
- Follows California/West Coast architectural motif

Structural System:

- Concrete flat-plate two-way slabs in 6-story bed tower
- Precast double tees hold up the 2-story D&T
- Slab thicknesses vary from 6" on top of the double tees to 10" two-way slabs
- Roof system supported by various steel W-shapes.
- Lateral forces resisted by thick concrete shear walls
- Concrete shear walls typically anchored with 6' deep footings and reinforced with #9's at 9" o.c.
- 26x26 cast-in-place as well as 20x20 precast columns



MEP Systems:

- Electrical and Mechanical systems feature standard equipment
- Due to limitations, the actual specifications of these systems can not be released.

Sean Beville - Structural

www.engr.psu.edu/ae/thesis/porfolios/2009/sfb5000