

City of Hope Amini Medical Center

Duarte, California



GENERAL BUILDING DATA

- ✓ 3 Story Above Ground Facility
- ✓ 59,800 ft²; All New Construction
- ✓ Occupancy: Clinic, Lab & Moderate Hazard Storage
- ✓ Design-Bid-Build Project Delivery
- ✓ Construction Dates: 6/11/07 - 1/22/09
- ✓ Attempting LEED Gold Certification

STRUCTURAL

- ✓ Steel Frame Construction
- ✓ Cast-In-Place Foundation Wall & Spread Footers
- ✓ Ground Floor: 6" Concrete Slab on Grade Over 8" Aggregate and Subgrade
- ✓ Floors 1-3: 5-1/2" Concrete Slab (115psf) on Composite Metal Deck with Typ. W16x26 Framing
- ✓ Roof: 5-1/4" Concrete Slab (115psf) on Composite Metal Deck with Typ. W16x26 Framing

PROJECT TEAM

- ✓ Owner: City of Hope
- ✓ Architect & Engineers: EwingCole
- ✓ CM & GC: DPR Construction Inc.

ARCHITECTURE

- ✓ Limestone Veneer and Stucco façade
- ✓ Large curtain wall system with 1" vision glass and 1" spandrel glass on North and West exterior walls
- ✓ Exterior walls are 1-HR fire rated with 6" Thermafiber insulation; R-3.8/in.
- ✓ 6 ft. projecting canopy distinguishes main entrance
- ✓ Aluminum air foil sunshades provided above all vision glass
- ✓ An elevator and a staircase are provided on both the North and South ends of the building

ELECTRICAL

- ✓ 12.47 KV Normal Power feeder to 1500 KVA transformer serving the main switchboard
- ✓ 2000 Amp Main Power Switchboard with 1126 KVA connected power
- ✓ 4160 V Emergency Power feeder to 750 KVA transformer serving Emergency power switchboard
- ✓ 1200 Amp Emergency Power Switchboard with 818 KVA connected power
- ✓ 4 high voltage panels serving the building; 480/277V
- ✓ 18 low voltage panels serving the building: 208/120V
- ✓ Remote disconnect provided for roll up generator
- ✓ Typ. lighting fixture throughout is a 2x4 recessed troffer with three(3) F32T8 lamps

MECHANICAL

- ✓ Central Campus cooling and heating plants provide chilled water and high pressure steam to serve the facility
- ✓ Two(2) 20 HP pumps (one stand-by) distribute 42F chilled water to 5 Custom Rooftop Air Handling Units and 9 Fan Coil Units for cooling
- ✓ Three(3) rooftop Air Handlers provide 1483 MBH cooling for Lab and Office spaces on the first two floors
- ✓ Nine(9) fan coil units provide 360 MBH cooling to computer/mech. rooms and other specialty rooms
- ✓ Two(2) pressure reducing stations convert 6020 lbs/hr of high pressure steam to low pressure steam
- ✓ A 1768 MBH heat exchanger on the roof converts low pressure steam to 160 F hot water for the building
- ✓ CV and VAV terminal units control quantity of air to occupied spaces