

Project Team

Owner: Rio Hondo Community College
Architect: AC Martin Partners
MEP Engineers: GLUMAC Int.
General Contractor: AC Martin Partners
Electrical Engineers: GLUMAC Int.
Structural Engineers: AC Martin Partners
Landscape Architects: WRT

Lighting

- Primarily fluorescent lamps running from 277/120V
- Occasional use of metal halide lamps in special areas
- Due to LEED credit, daylight sensors are necessary

Rio Hondo Library/Learning Resource Center

Location: Whittier, CA
Size: 93740 s.f.
Cost: 22.5 million

Electrical

- Both standard 208/120V and 480/277V systems
- Two 150 kVA 380-208/120V transformers
- One 20 kVA central inverter
- 8 Loads of 150A at 120/208V
- 2 Loads of 225A at 277/480V

Mechanical

Variable air volume system

- Five fan coil units
- Two air handling units service each floor separately
- Four sound traps
- Four exhaust fans
- One hot water pump located on ground floor

Structure

- Structural concrete columns, beams, and slab
- Floor is made of 5" concrete slab on grade
- Second floor is comprised of steel beams and composite deck with a lightweight 2.5" concrete fill
- South facade is a glass curtain wall with a 3'6" overhang

Jennifer Mers

<http://www.arche.psu.edu/thesis/eportfolio/current/portfolios/jlm604/>