

ED ROBERTS CAMPUS

Anderson Clemenceau
Mechanical Option
Advisor: Donghyun Rim



PROJECT TEAM

OWNER: THE ED ROBERTS CAMPUS

ARCHITECT: LEDDY MAYTUM STACY

S-MEP: ARUP SAN FRANCISCO

CONSTRUCTION: CAHILL CONSTRUCTION

BERKELEY, CA

ADA COMMUNITY/EDUCATION CENTER

TWO STORIES - 82,000 GROSS SQFT

ARCHITECTURE

Universal Design is the name of the concept utilized in every design choice within the ERC in order to make every feature useful to as many people as possible. Extra-wide corridors and elevators, automatic doors, low signage, and audio cues are examples. The building takes advantage of ample daylight with large skylights and windows to ease daytime lighting loads.

STRUCTURE

The structural system is a combination of concrete and steel frame construction. The basement foundation and first floor are concrete with some steel beam reinforcement. The second floor is 3-1/4" slab on metal decking supported by steel frame, with steel braced frame walls providing shear support.

MEP

5 Dedicated Outdoor Air AHUs supply ventilation air to the building. Additional cooling and heating needs are met by water source heat pumps before air is delivered to each zone. The tall, open lobby and court areas utilize an underfloor radiant heating and cooling system to efficiently condition the occupied zone.

Electricity entering as 480/277V, 3-Phase power is distributed to nine panel boards serving different sectors of the building, and is converted to both high and low voltage power to cover the diverse loads within the building.

The building's lighting system includes 42,000 Watts of lighting fixtures for the 66,000 sqft of occupied, illuminated space. These fixtures are all controlled by occupancy sensors and programmable time switches for maximum efficiency.