

SHAPING FUTURES

Chaffey High School
South Hall Modernization

SOUTH
HALL

SHAPING FUTURES



with Chaffey Joint Union High School District

Founded in 1911, Chaffey High School is one of eleven high schools within the Chaffey Joint Union High School District (CJUHSD). Chaffey High School offers its 3,300 students a broad range of learning opportunities from 14 distinct Career Technical Education Pathways to 17 Advanced Placement Courses and dual enrollment with Chaffey College. In partnership with Tilden-Coil Constructors, CJUHSD has been improving each of their high school campuses with a multitude of renovations, modernizations, and new facilities under the District's Measure P Bond Program. Most recently, Tilden-Coil completed the extensive modernization of Chaffey High School South Hall in Ontario under a CM-Multi-Prime delivery method.

Chaffey High School South Hall Quick Facts

Architect: PJHM Architects

Delivery: CM Multi-Prime

Scope: Complete extensive modernization of a 3-story, 59,907 sf classroom building including seismic improvements and new footings.



Originally built in 1937, South Hall is a three-story, 59,907 sf classroom building which required a complete modernization of the interior, voluntary seismic improvements including new footings and shotcrete shear walls, new electrical infrastructure, windows, suspended acoustical ceilings, restrooms, fire alarm, LED lighting, audio/visual, and ADA upgrades. Today's building codes and educational program needs differ markedly from those in the 1900's!

Tilden-Coil led collaborative planning and coordination with PJHM Architects, continuously kept CJUHSD informed, and proposed efficient and cost-effective methods to mitigate unforeseen conditions within the 75-year old structure. The team’s expertise and focus on solutions resulted in the project being completed on-schedule, on-budget, and without any safety incidents.

Incorporating new footings and shotcrete shear walls into the existing structure, from basement level through the second floor, proved challenging given the tight space. Creative planning with the trade contractors and design team yielded a safe and efficient strategy for bringing all shoring material and concrete pumps into the building. A 4-inch seismic gap between the existing wall and the new shear wall was required for structural integrity and precluded using standard installation methods. To accomplish this, the team developed an innovative solution using ribbed lath with top and bottom connections and ties to the rebar (See *image to the right*). To meet ADA requirements, modifications to the existing elevator required the demolition of the basement elevator control room to occur simultaneously while pouring the new shear walls and footings.

During construction, CJUHSD added the replacement of over 180 doors and frames to meet current ADA codes. Tilden-Coil and PJHM worked together to develop a design that matched the design vernacular of the original historic doors for continuity throughout the building. Tilden-Coil expedited procurement to deliver and install the doors and frames within the original construction schedule.

Tilden-Coil Constructors values its longstanding partnership with the Chaffey Joint Union High School District and continues to transform their campuses to shape the futures of students for generations to come!

