

Featured Project

McKinleyville Teen Center

McKinleyville, CA

Located less than 2 miles from the Northern California Coast, the existing McKinleyville Activity Center features a full-size gymnasium, sound system, and spacious lobby that make the Center an ideal place for hosting sporting events, birthday parties, and fundraisers. In 2010 McKinleyville Community Services District (MCSD) conducted a community survey and discovered that building a teen and community center was a high priority with City residents. In 2012 property owners approved a funding measure for expansion of the center, and MCSD staff and the Architect worked with residents and teens to design a floor plan for the McKinleyville Teen Center, a 7,000-square-foot addition. The addition is comprised of a quiet room, classrooms, sound-proof recording room, music room, and commercial kitchen.

ArcSine Engineering's services for McKinleyville Teen Center included:

General

- Field investigation.

Electrical

- Designed a new service entrance to accommodate new loads and backfeed existing building distribution panels.
- Coordinated with Pacific Power regarding extending the existing overhead service lines down the street and upgrading the pole-mount transformer to accommodate the new loads.
- Coordinated with telephone and CATV service providers.
- Provided all electrical design calculations.

Mechanical Design

- Designed three HVAC rooftop units to provide heating and cooling.
- Designed all HVAC ductwork.
- Designed make-up air unit for commercial kitchen.
- Performed all HVAC/plumbing calculations.
- Designed all domestic supply and waste piping.

Lighting Design

- Designed general building and activity lighting.
- Title 24 requirements were met with programmable lighting controls and occupancy sensors/switches.
- Exit, emergency, and egress lighting were designed to comply with NFPA Fire and Life Safety requirements.
- Designed site lighting.

Construction

- Full construction services. Responded to bidder questions, responded to RFI's, and performed submittal reviews.

Contact Information:

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Design Completion Date

2014

Construction Completion Date

2016

Electrical
Lighting
Mechanical
Plumbing
Field Investigations
Construction Services

