



MICHAEL WALL ENGINEERING

Retail Experience



Liberty Station Marketplace Point Loma, San Diego, California

Michael Wall Engineering has provided electrical construction documents for the 15-acre, 170,000SF retail marketplace that incorporates the renovation and re-use of seven (7) historical structures. These buildings were originally constructed in the 1920s as a part of the Naval Training Center, Point Loma. Tenant spaces include (9) restaurants, (11) retail outlets, (8) office spaces, a Von's

supermarket, a Trader Joe's Market, and a 6,200SF historic chapel. Specialized lighting design was provided honoring the rich history of this former Naval Training Center site. The site lighting design required research and use of historically accurate light fixtures. All tenant spaces required main service entrances, data outlets, switchgear, thematic site lighting and power design.

Santee Trolley Square Santee, California

Santee Trolley Square Retail Center is a \$50 million, 450,000SF center that incorporates a San Diego Trolley station. The trolley runs diagonally through the center and terminates in the heart of the shopping and dining district. Electrical construction documents were created for the 26 buildings on the 44.5-acre site. Michael Wall Engineering coordinated all exterior thematic site lighting, planned lighting, power and data outlets, and provided main service entrance switchgear for all tenants. Tenant improvements were completed for many shops, including: Staples, Barnes & Noble, Party City, TJ Maxx, Famous Footwear, PetSmart, Bed, Bath & Beyond, Pier One and Mattress Discounters.



Colonies Crossroads Upland, California

Michael Wall Engineering provided electrical construction documents for the site work at the \$200 Million, 54-acre Colonies Crossroads Shopping Center. Additional scope of work included power, lighting and signal systems, plus a dedicated electrical service to the main elevator. Michael

Wall Engineering also produced floor plans, singleline diagrams, and panel schedules. This project called for electrical engineering and new lighting design for bridges, walkways, kiosks, and interiors of retail shops. Tenant improvements were completed for many shops, including: Chick's Sporting Goods, Office Depot, PetSmart, Target, Bed, Bath & Beyond, and KOHL's.

Los Coches Village Carlsbad, California

Michael Wall Engineering provided electrical engineering, consulting and lighting design for the \$26-million Los Coches Village, a retail locale in Carlsbad. This 90,000SF, 7-acre, five (5) building commercial development includes a variety of large box retail, restaurants, service shops, a two-story office building, and a multi-story medical office building. The medical facility sits over a one level parking structure. This particular building is designed to serve multiple tenants, and includes surgical suites for minor non-OSHPD procedures. Design included shell and tenant improvements, electrical drawings, and lighting. The scope of work includes corridor lighting and convenience power, common area restrooms, site lighting photometry, telephone services, interior lighting design, and ongoing electrical and lighting tenant improvements.





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La Costa Town Center Carlsbad, CA

Michael Wall Engineering provided electrical construction documents for the La Costa Retail Center. The complex totals 221,000SF and includes various retail spaces and a fitness center. The scope of work consists of site lighting, monument sign power, irrigation controller, parking lot power for seasonal lighting and fountains, architectural landscape and fountain lighting and coordination for on-site electrical, telephone and cable distribution utility systems. Also featured in the complex is a large clock tower necessitating clock power, accent lighting, a conduit for future telecommunications/control systems, electrical service from nearby house meter, and convenience power. The project also includes power and lighting for a variety of seating and congregational areas around the center and lighting for a green walking trail between the center and the adjacent residential areas.

Karl Strauss Brewery Restaurant San Diego, CA

Michael Wall Engineering provided electrical construction documents for the \$1.5 million Karl Straus Brewery Restaurant tenant improvement in the 4S Ranch area of San Diego. The facility features a full-service commercial kitchen, restaurant and bar spaces, and a visible operating brewery. Electrical design for the 8,243SF project included power distribution and telecommunications systems, power for the kitchen and bar equipment, power and data monitoring support for the chilled and frozen food storage rooms, and infrastructure for the wireless network and entertainment systems. Brewery equipment power, controls, and data system requirements were reviewed and coordinated directly with the manufacturers to ensure all needs were met to provide a functional system. Lighting design incorporated dimmable LED fixtures with digital, multi-scene programmable controls. Additionally, while decorative lighting fixtures at bar, restaurant, and patio entries were chosen for visual appeal, lighting efficiency remained high, resulting in a system rating 26% below California Title 24 Building Energy Efficiency Standards. This project won an IESNA National Award of Merit for the lighting.



University Club atop Symphony Towers San Diego, CA

Michael Wall Engineering provided electrical construction documents for the University Club tenant improvement project on the 34th Floor of the existing Symphony Towers building in San Diego, CA. The scope of work included the renovation of 15,000SF of this private social club's space, including 5,000SF of casual dining and bar space and 3,000SF of private dining and meeting rooms. MWE designed power systems to support the new 450SF big-screen multimedia room with 103-inch flat screen and coordinated with new AV systems. Reusing existing distribution equipment, we were able to power new spaces.

Ruth's Chris Steakhouse Anaheim, CA

Michael Wall Engineering produced electrical construction documents for the build-to-suit facility. The specialty lighting control and design includes a programmable relay panel with astronomical time clock, photocell input, and network interface for remote control. The Lutron GRAFIK Eye 5000 dimming control system is programmed with 17 different scenes for restaurant, bar, patio, and reception area lighting, has 5 remote operating and one master programming station. The lighting system also includes variable color RGB fixtures from Color Kinetics for changeable mood lighting, and combines the flexibility of 16.7 million color output with low power consumption of the LED light source. Data system design includes wireless hotspot equipment for the patio areas to allow for client PDA and other wireless device use.

