



MICHAEL WALL ENGINEERING

High Rise Experience

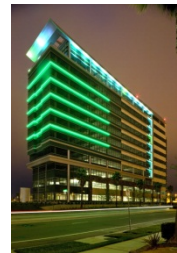


Wells Fargo Plaza San Diego, CA

Michael Wall Engineering, Inc. has provided electrical construction documents for the renovation of lighting and miscellaneous power systems for typical floor elevator lobbies, restroom, and core areas on Floors 2, 10, 15, 16 and 22. We also provided electrical construction documents for the approximate 7,752SF tenant improvement for JAMS located on the 21st Floor, the 8,300 tenant improvement located in Suite 1450, as well as the addition of a new, microprocessor-based lighting control system on each floor of the existing Wells Fargo Plaza building. We also provided documents for the 4,771SF tenant improvement in an existing building for Wells Fargo Plaza located in Suite 1150. The scope of services provided in this contract are as follows: Electrical construction documents for the renovation of lighting and miscellaneous power systems in the main lobby, parking garage, typical floor elevator lobby, and typical floor restroom and core areas, Garage concept Lighting, Lobby Lighting Construction Documents, Typical Restrooms, Lobbies et al., Garage Lighting Construction Documents.

Sunroad Centrum - Phase 1 San Diego, CA

Michael Wall Engineering produced electrical construction documents for this new LEED Certified 275,000SF, \$45 million, 11-story Sunroad Centrum office tower including a 3-level subterranean parking facility totaling 105,000SF. The building has strips of travertine and slate, blue see-through glass, LED lighting that glows at night, and insets and cutouts on all four sides of the 11-story structure.



Sunroad Centrum Marks, Golia & Finch TI San Diego, CA

Michael Wall Engineering provided electrical construction documents for the 23,973SF ninth floor tenant improvement in the existing building for Sunroad Centrum located in Kearny Mesa of San Diego, CA. The main conference room will require accommodations for an AV system.

Sunroad Centrum Bridgepoint Education T.I. San Diego, CA

Michael Wall Engineering provided electrical construction documents for 256,790SF T.I. in an existing building for Sunroad Centrum located in San Diego, CA. The scope of work is for the entire building & will be provided in 2 phases (Phase I: 139,284SF & Phase II: 117,506SF)

Gray Cary San Diego, CA

This project is a 95,000 SF tenant improvement (T.I.) located in the Wells Fargo Plaza office tower in downtown, San Diego, California. This T.I. encompasses the 17th through 20th floors and modifications to the second floor. The revised second floor accommodates the information system and accounting departments, including a 500 SF expansion to the existing 500 SF server room. The 17th floor consists of the main reception, conference center, large file storage area, private offices, and typical miscellaneous office components. The 18th through 20th floors are attorney offices, and the 17th through 20th floors incorporate new ADA approved core restrooms. The project featured approximately 450 CAT 6 tel/data drops of (4) cables each and a multimode fiber optic backbone system.



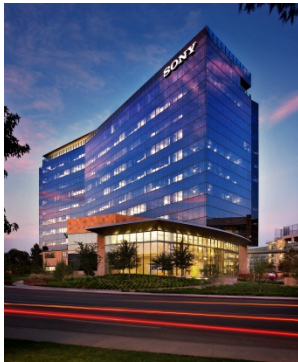


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Procopio, Cory, Hargreaves & Savitch San Diego, CA

Michael Wall Engineering provided electrical construction documents and lighting design for the 102,000SF tenant improvement of The Law Offices of Procopio, Cory, Hargreaves & Savitch, LLP in downtown San Diego. The scope of work consisted of renovating the top 4 floors (19-22) of the building and providing storage space on the basement level as well as state-of-the-art conferencing and meeting rooms on the first level. The project also included a roof-top contemplation garden and a four-story private interconnecting stairwell. The focal point of the project was a one-of-a-kind 56 foot high 20 foot wide art glass wall featuring a California Juniper. MWE used 35 linear high output LED luminaires to highlight the grandeur of this artistic element. This project was certified LEED Gold for commercial interiors and is 20% below Title 24.



Sony Corporation Headquarters San Diego, CA

Michael Wall Engineering, Inc. provided electrical construction documents for the \$170 million, 440,000SF, 11-story corporate office building and two adjacent parking structures. The scope of work included 3 indoor 2500kVA unit substations and vertical bus duct powering the building with (2) 1500 kW diesel generators providing emergency power. The facility contains an executive floor with an elaborate executive boardroom and multiple conference rooms, which include a high definition telepresence video conferencing system and other advanced audio/visual capabilities. The 11th floor features a full service kitchen with a private 3-venue restaurant, with both indoor formal dining and outdoor café dining. There are both open and private offices throughout, as well as a large data center and product demonstration area. The open office areas were illuminated with linear pendant indirect lighting systems. Also included is an employee fitness center, outside basketball and volleyball courts, a large auditorium that seats 700 which features theatrical lighting, a corporate family store, employee break rooms, and a comprehensive shipping and receiving center. This facility is LEED Gold certified.

Thomas Jefferson School of Law San Diego, CA

This 178,000 8-story high rise law school is located in Downtown San Diego and LEED Gold Certified. The building is constructed over a 3-level subterranean parking garage. The project consists of a 40,000SF library, a 5,500 SF bookstore, 8 classrooms/lecture halls, a 3,000SF moot court room, as well as a 1,300SF boardroom in the building's penthouse. Michael Wall Engineering, Inc. designed the building's power, architectural lighting, voice data and emergency power system, including a 600kW standby generator. The energy efficient lighting design coordinated with the detailed interior design and achieved 16% below Title 24.





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County of San Diego Operations Center San Diego, CA

This 1,117,000SF project was named by SDG&E as Energy Champion/"Best New Building" and by California Center for Sustainable Energy as "Outstanding Building of 2011" and achieved LEED Platinum for the Conference Center and LEED Gold for the office buildings. The project achieved an average of 28% below Title 24. Michael Wall Engineering, Inc. designed lighting, power, and voice/data for all 11 buildings and site

improvements. Emergency power generation is designed including 5MW of paralleled diesel generation sized to power the entire complex. The overall site is served by a 1200A 12kV SDG&E service at the central plant that energizes a ¾-mile 12kV loop sectionalized by four SF6 gas switches. The new buildings include office space, a conference center, a central plant building, a fleet vehicle maintenance facility and an 1800-car parking structure.

9th & Broadway San Diego, CA

Electrical construction documents for the 219,524SF mixed use residential project comprising 250 residential units, ground floor retail space and associated management offices and residential common areas. The project includes a 5-story podium base and 12-story tower over 2-1/2 levels of subterranean parking and is located at 9th & Broadway in downtown San Diego, CA 92101.



The Mark San Diego, CA

Michael Wall Engineering, Inc. provided electrical construction documents for this 4-building residential complex. The main structure is a 32-story high-rise residential condominium tower, which houses 229 one- and two-bedroom condos and 13 penthouse suites. The other 3 buildings are 2-story residential townhouse structures. A central courtyard and common area add a park-like setting to this downtown development. Also included in the 360,000SF complex are 10,000SF of commercial areas on the first floor of the outlying

structures on 8th Avenue and Market Street, and a 4-level underground parking structure. A 600kW/750kVA standby diesel generator was designed. Two (2) 4000A electrical services were included for the residential units, commercial, and common areas.

Intuit San Diego Campus San Diego, CA

Michael Wall Engineering provided electrical construction documents for Intuit's four buildings, \$50 million, 450,000SF San Diego Campus at Kilroy Santa Fe Summit. The project includes an above grade parking structure of approximately 396,000SF. The project includes a 1500SF high-density Turbo Tax Data Center which houses 49 racks and delivers over 850W/SF of power capacity. The data center is supported by a 600kVA UPS system and a 1250kW standby diesel engine generator. The building interiors include administration, training, IT, electronic labs, cafeteria, and fitness center. The lighting system was designed for extreme efficiency, more than 30% below Title 24, and saves Intuit over \$150,000 per year in energy costs when compared with standard lighting systems. Each building is served by a 4000A 480Y/277V electric service. The laboratories feature over 300 foot of overhead busway system for ease of equipment modifications. This facility is LEED Gold certified.





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Sempra Energy Headquarters San Diego, CA

Michael Wall Engineering is producing electrical design-build construction documents for the approximately 323,000SF Sempra Energy Headquarters located in downtown San Diego, CA. The project consists of a 16-story warm shell office building with 3 stories of underground parking and 3 stories of above-grade parking. The office area is being planned for use solely by Sempra Energy with the first three (3) floors being used for the main lobby and for corporate amenity space. Tenant improvement is also included in this project.

Cricket Communications San Diego, CA

Michael Wall Engineering provided the electrical construction documents for the 190,000SF tenant improvement for Cricket Wireless. The design included a 5,000SF cafeteria and a 3,500SF Server Room. The Server Room was supported by a 225kVA UPS system and a 750kW diesel generator. This LEED Gold project included a very efficient lighting system that consumed 38% less energy than the stringent Title 24 requirements allow. The interior was further complemented by a fitness center, employee break-out areas, and a retail store display for new product demonstrations.



Qualcomm Pacific Center (AY & AZ) San Diego, CA

Michael Wall Engineering is providing electrical construction documents for approximately 424,000SF Qualcomm Pacific Center Campus improvements located at Pacific Center Blvd., San Diego, CA, 92121. The scope of work contains Building AY (approximately 357,000SF) to include primarily office and lab space with supporting spaces and Building AZ (approximately 67,000SF) including a cafeteria and dining area, lecture hall space, multipurpose learning and conference space, Health & Fitness Center, and a 80,000SF, 240-space subterranean garage.

General Atomics – Building 86 Rancho Bernardo, CA

Michael Wall Engineering produced electrical construction documents for this 150,000SF tenant improvement. The work consisted of 100,000SF of high bay lab/testing/R&D space, a 25,000SF area of office improvements on the first floor, and a 25,000SF area on the mezzanine of office improvements. To help control illumination levels and costs, the office spaces have been designed to have recessed/indirect lighting fixtures with electronic step dimming ballasts and motion control sensors. The overall lighting power density averages .807 watts per square foot, which is 27.8% better than allowed under Title 24. The high-bay industrial space is fitted with specialty fixtures housing T5HO lamps and LCP Controls, with watts per square foot at 20.7 % below Title 24.





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Cardinal Health Bioscience Campus San Diego, CA

Michael Wall Engineering provided electrical construction documents for a tenant improvement of approximately 554,000SF designed in two phases: Phase one consisted of approximately 180,000SF of office/manufacturing space; phase two consisted of approximately 374,000SF of office space within two buildings. The first phase contains a 40,000SF-manufacturing lab that features ceiling-mounted utility panels. Each panel contains power, data, vacuum, compressed air, and reference ground. The 25,000SF call center uses under-slab equipment to allow easy reconfiguration of furniture systems. All lighting systems feature high output T5 lamps for maximum efficiency.

MWE also provided electrical consulting services for the preparation of two emergency power systems reports at Cardinal Healthcare's Pharmaceutical Development facility.