



Flores Consulting Services, Inc. |

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California State University Los Angeles Infrastructure Electrical Distribution Replacement - Substation

Flores Consulting Services, Inc. managed the design and construction of the new electrical distribution replacement project (substation). The project involved the replacement of the existing main CSULA and LADWP 35kV-4160V electrical distribution system (substation). The system is being replaced due to age and to accommodate projected campus growth.

The new equipment was modern ABB equipment with a modern automatic notification system that sends alerts to facilities services personnel in case of equipment malfunctions. There is also an excellent incident recording system so if there is an incident, any malfunctions can be diagnosed quickly.

Campus growth has reached the rating of the existing LADWP service transformers and switchgear. The new substation is to be located south of the existing substation in the upper portion of Parking Lot 7. The station was placed at this location to provide space for the new Student Housing East complex located to the North and to have it on higher ground to avoid possible flooding during a rain storm.

The new substation will include a new larger LADWP service yard with two main circuits with one additional for redundancy and provisions for a future LADWP service to accommodate future increases in electrical demand from the planned campus buildout.

Additional duct bank and manholes are provided to accommodate future 4160V feeders to facilitate cut over of feeders from the substation to new campus buildings and expansions.

The project required close coordination with on going operations of the University and all of its staff. There were numerous shutdowns during the project and they were accomplished with minimum disruption to operations.



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Forming of concrete structures and underground duct bank installation



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Concrete LADWP Yard enclosure columns and substation slab



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Overhead North West View LADWP Yard enclosure and substation



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East Overhead View LADWP Yard enclosure and substation



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North Interior View LADWP substation

