



Education

- MS, Structural Mechanics and Materials, Cornell University, 2018
- BS, Civil Engineering, California State Polytechnic University, Pomona, 2017

REGISTRATION

- Professional Civil Engineer, CA No. 92035

Emily Yu MacTavish, PE Project Manager/Construction Manager

Emily has been responsible for program management and construction management activities for the past six years on several projects with the City of Rancho Palos Verdes and the Orange County Transportation Authority (OCTA). As a Project Engineer, Emily oversees design/construction work and provides comprehensive engineering services to the projects. In addition, she has supported Metro on the San Gabriel Intersection Projects providing engineering drawings and cost estimates.

Emily has a multitude of experience ranging from her time spent in Pasadena where she worked with her team to design low-rise steel and reinforced masonry structures to her tenure in Glendale where she incorporated her structural mechanics and single-degree-of-freedom analysis to determine the effects of explosive effects on structures. She also provided staff augmentation to OCTA with PM/CM services on several projects so she is familiar with compliance to agencies' standards and expectations.

Emily oversees the planning, design, and execution of various construction activities, ensuring that projects are completed on time, within budget, and to specified quality standards. She coordinates with architects, engineers, and subcontractors; helps manage the procurement of materials and equipment; and enforces safety regulations on-site. Additionally, she monitors project progress, handles any issues or delays that arise, and communicates with stakeholders to provide updates and address concerns. Emily's attention to detail keeps projects on track with budgeting, scheduling, and risk management, ensuring that the infrastructure meets regulatory requirements and client expectations.

Relevant Experience

Rancho Palos Verdes, Landslide Program Manager, Rancho Palos Verdes, CA. Emily's responsibilities consist of project management and construction management services pertaining to the Rancho Palos Verdes Landslide, Portuguese Bend Landslide remediation (including remediation design peer review), Palos Verdes Drive South roadway repair management, and Altamira Canyon.

Project Management & Construction Management for Transit Facilities Projects, Orange County Transportation Authority, Orange County, CA. As Project Manager/Construction Manager, Emily completed documentation of projects, including daily reports, submittal logs, RFI logs, certified payrolls, schedule of values, progress payments, safety plans, and close-out documents. She coordinated all construction activities in the field. She requested and approved baseline schedules, two-week look ahead schedules, and conducts field meetings with contractors. She also prepared independent cost estimates and contract change orders in accordance with OCTA/FTA requirements. Emily



Emily Yu MacTavish, PE *(continued)*
Project Manager/Construction Manager

reviewed and approved labor compliance documents for the projects, such as weekly certified payroll, fringe benefit statements, Form 257, apprentice on-job training and employee interviews. Emily performed these responsibilities on the following tasks orders:

- Fullerton Transportation Center Revitalization, Orange County Transportation Authority, Orange County, CA.
- Anaheim Bus Base 7 HV Unit Replacement, Orange County Transportation Authority, Orange County, CA. Managed the replacement of seven heating and ventilation (HV) units at the Anaheim Bus Base Maintenance Building.
- Electric Vehicle Charging Stations at Garden Grove & Santa Ana Bus Bases, Orange County Transportation Authority, Orange County, CA.
- Maintenance Shop Floor Restoration at Garden Grove Bus Base, Orange County Transportation Authority, Orange County, CA. Oversaw the replacement of the maintenance building shop floors at the Garden Grove Bus Base while maintaining operations.
- Replacement of HVAC Units at Garden Grove Bus Bas Maintenance Building, Orange County Transportation Authority, Orange County, CA. Oversaw building repairs at the Garden Grove Bus Base wash building, including roof repairs and high-performance coatings.
- Lower Roof Replacement at Garden Grove Annex Building, Orange County Transportation Authority, Orange County, CA.
- Anaheim Bus Base 6 HV Unit Replacement, Orange County Transportation Authority, Orange County, CA. Managed the replacement of the HV unit at the Anaheim Bus Base Operation Building, including roof and structural work.

See the following page for images of Emily's OCTA projects.

Emily served as Project Manager/Construction Manager for these OCTA Projects (task orders).



Managed the replacement of seven heating and ventilation (HV) units at the Anaheim Bus Base Maintenance Building.



Oversaw building repairs at the Garden Grove Bus Base wash building, including roof repairs and high-performance coatings.



Managed the facility modification project for the I-405 Toll Operation Center at the Santa Ana Bus Base.



Oversaw the replacement of the maintenance building shop floors at the Garden Grove Bus Base while maintaining operations.



Managed the replacement of this outdated fire alarm panel that controls several buildings at the Santa Ana Bus Base.



Managed the Installation of the 12kV switchgear equipment project at the Santa Ana Bus Base.



Oversaw building repairs at the Irvine Construction Circle Bus Base, including the roof, lighting, coatings, and structural work.



Managed the replacement of the HV unit at the Anaheim Bus Base Operation Building, including roof and structural work.