PERSONNEL QUALIFICATIONS

Jason Ko | Associate III

EDUCATION

- United States Military Academy
  - Bachelor of Science, Civil Engineering, 2015
- University of California, Los Angeles
  - Master of Science, Structural Engineering, 2022

PRACTICE AREAS

- Bridges and Civil Infrastructure
- Nondestructive Testing and Evaluation
- Failure/Damage Investigations
- Concrete Structures
- Repair and Rehabilitation Design

REGISTRATIONS

- NHI Course 130056 - Safety Inspection of In-Service Bridges
- Professional (Civil) Engineer in CA and IN
- Project Management Professional

PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- Structural Engineers Association of Southern California

CONTACT

jko@wje.com
626.696.4650
www.wje.com

EXPERIENCE

Jason Ko conducts various structural investigations. His experience involves condition assessments, structural analysis, nondestructive testing, repair design development, and construction contract administration. Mr. Ko also possesses expertise in the inspection, load rating, nondestructive testing, and rehabilitation of steel and concrete bridges across the US.

Before joining WJE, Mr. Ko served as a United States Army Engineer Officer working on critical and civil infrastructure projects. He has led construction teams and managed projects in varying project life cycles.

REPRESENTATIVE PROJECTS

Bridges and Civil Infrastructure

- Indiana Department of Transportation: Structural analysis for load rating refinement of concrete and steel bridges and culverts
- California High-Speed Rail: Repair design, construction troubleshooting, and nondestructive evaluation of precast and cast-in-place concrete members
- Lambert Overcrossing - Brea, CA: Nondestructive evaluation of concrete box girder
- Muscatine Bridge - IA: Steel through-truss routine bridge inspection
- Santa Ana Truss Bridge - CA: Historic steel truss bridge assessment
- Route 66 Glulam Bridge - CA: Evaluation of checking and load rating of glulam bridge
- Green Street Pedestrian Bridge - Pasadena, CA: Condition assessment of cast-in-place concrete bridge
- Jefferson Street Bridge – Joliet, IL: Calculation of bridge balance required for the rehabilitation of two-leaf bascule bridge
- Los Angeles Department of Water and Power, Girder Pipe Crossing - CA: Assessment and analysis of deteriorated precast concrete double-tee girder
- Barbours Cut Terminal - Port Arthur, TX: In-depth evaluation and corrosion assessment of drilled shafts and concrete bulkheads
- Liquefied Natural Gas (LNG) Foundation Piles - LA: Evaluation of concrete piles supporting LNG tanks
- Palo Verde Generating Station - Tonopah, AZ: Load testing and evaluation of precast deck anchors on cooling towers

Nondestructive Testing and Evaluation

- Water Tank Concrete Foundation - Multiple Locations, CA: Condition assessment and as-built survey of concrete foundations utilizing nondestructive testing methods
- Target Concrete Slab - Multiple Locations, CA: Evaluation of concrete slab-on-ground
- Naval Medical Steel Stack Assessment - CA: Ultrasonic testing of steel flues and condition assessment
- Long Beach City College - CA: Concrete cover survey utilizing ground penetrating radar and impact echo

Failure/Damage Investigations

- MacArthur Boulevard Bridge - Santa Ana, CA: Fire damage assessment of concrete box girder bridge
- I-10 Freeway Bridge Fire - CA: Fire damage assessment of concrete box girder and concrete columns
- San Pedro High School - Los Angeles, CA: Corrosion assessment of distressed concrete foundation elements
- Multifamily Construction - Las Vegas, NV: Condition assessment for fire-damaged concrete slab and foundation elements
- First Foundation Bank - Running Springs, CA: Evaluation of damaged curved roof glulam beams
- i.d.e.a Children's Museum - Mesa, AZ: Condition assessment and analysis of as-built wood roof trusses
- Hurricane Ian Assessment - FL: Post-hurricane condition assessment of residential insurance claims

Concrete Structures

- Single-Family Residence - CA: Concrete-framed building repair and construction observations
- Del Sol Academy - Jurupa Valley, CA: Slab-on-ground evaluation and condition assessment
- Allan Hancock Fine Arts Complex - Santa Maria, CA: Evaluation of slab-on-ground cracking and condition assessment