

Justin Matoi | Senior Associate



EDUCATION

- Santa Clara University
 - Bachelor of Science, Civil Engineering, 2015
 - Master of Science, Structural Engineering, 2016

PRACTICE AREAS

- Structural Analysis
- Repair and Rehabilitation Design
- Facade Assessment
- Load Testing
- Stadiums
- Concrete Deterioration
- Nondestructive Testing
- Fire Damage Assessment

REGISTRATIONS

- NHI Course 130055 - Safety Inspection of In-Service Bridges
- Professional Engineer in HI

PROFESSIONAL AFFILIATIONS

- Structural Engineers Association of Hawaii

CONTACT

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EXPERIENCE

Since joining WJE in 2017, Justin Matoi has performed analyses, assessments, and evaluations related to various buildings and other infrastructure. His projects frequently include design, repair, and construction observations of wooden, concrete, masonry, and steel structures. Mr. Matoi's experience also includes a variety of destructive and nondestructive testing of structural systems.

Prior to joining WJE, Mr. Matoi worked as a structural designer at SLSH & Associates. He was responsible for new structural design, rehabilitation, and investigation of existing structures.

REPRESENTATIVE PROJECTS

Repair and Rehabilitation Design

- Hawaii State Capitol Building - Honolulu: Investigation and structural design of fourth-floor lanais and metal soffits repairs
- Holiday Inn Express Waikiki - Honolulu, HI: Condition survey, concrete and traffic coating repair documents, and construction observations
- Ka'a'awa Fire Station - Ka'a'awa, HI: Light gauge steel corrosion assessment, soffit repair design, and construction observations
- Hawaii Department of Transportation Bridge Inspections - Oahu, Maui, and Molokai: Routine condition assessment, channel survey, and repair recommendations

Facade Assessment

- Turtle Bay - Kahuku, HI: Concrete facade condition survey and repair recommendations
- Queen Kapiolani Hotel - Honolulu, HI: Concrete facade condition survey, paint assessment, and construction observations
- Kauai Beach Villas - Kaap'a, HI: Concrete facade condition survey, post-tension cable repairs, guardrail condition assessment, and repair recommendations
- Pu'unene Mill - Pu'unene, HI: Concrete/concrete masonry unit facade condition survey, structural evaluations, wood framing survey, and repair recommendations

Load Testing

- Aston Kaanapali Shores - Kaanapali, HI: Condition assessment of guardrail system using nondestructive testing
- 615 Piikoi Facade Access - Honolulu, HI: In situ testing of concrete anchors to meet OSHA requirements
- Honolulu Wastewater Treatment Plant - HI: In situ tension testing of davit undercut anchors

Stadiums

- Aloha Stadium Structural Certification Study and Retrofits - Halawa, HI: Assistance with design and construction period services for various retrofits, including structural repairs and upgrades of the structural steel and reinforced concrete facility, corrosion protection, escalator enclosure, maintenance mezzanines, and others

Concrete Deterioration

- University of Hawaii Parking Structure - Honolulu: Concrete deterioration analysis and building life assessment
- PJKK Parking Garage - Honolulu, HI: Concrete deterioration analysis and repair drawings
- YWCA - Honolulu, HI: Concrete deterioration investigation using half-cell potential, ground penetrating radar (GPR), and chloride and carbonation testing

Nondestructive Testing

- HART Rail - Barbers Point, HI: Corrosion assessment using XRF spectrometer
- Kona Baseyard - Kona, HI: Moisture investigation using data loggers; slab thickness measurement using GPR and impact echo testing
- Volcano Damage - Puna, HI: Investigations of reported damage due to effects of volcanic eruption using nondestructive methods

Fire Damage Assessment

- Mercedes Benz of Honolulu - HI: Concrete damage fire assessment
- Bishop Square Parking Garage - Honolulu, HI: Precast hollow core fire damage assessment and repair drawings
- Marriot Maui Ocean Club - Kaanapali, HI: Wood structure fire damage assessment and repair drawings