

Richard S. Gray | Senior Forensic Professional Engineer, P.E.

1172 National Drive, Suite 100, Sacramento, CA 95834

916.577.0246

rich.gray@efiglobal.com

Professional Summary:

Mr. Gray has thirty years of experience in Civil and Structural engineering, Geotechnical and Forensic Engineering, Testing and Inspection, Surveying, and Construction Project Management. Richard holds licenses in eight states and has been certified in several specialty areas. He has conducted over 600 forensic engineering investigations, most of which have involved structural and building envelope (roof coverings, wall cladding, windows/fenestrations) damage and/or failures. His engineering experience includes root cause studies of structural failures and collapses, landslides, foundation settlement, soil heaving, moisture intrusion, and condensation, damage assessments related to earthquake, fire, and storm events (hail, wind, snow and ice), vehicular and tree impacts, and wind related wave damage, and has designed permanent repairs for damaged structures. He has performed water testing and destructive testing of various building assemblies including stucco, concrete and other exterior building envelope materials. Richard investigates a wide range of losses involving fires, structural failures, roofing and structural framing construction defects, structural and foundation design flaws, personal injury, hail and water related damage, and product failures.

Mr. Gray has directed engineering projects of varying complexities in various Western states, for several state agencies, numerous Federal Refuge, Veterans Administration Hospital, and Air Force Base's, and for several sensitive high profile Port Authority and Transportation Safety Administration (TSA) National Security related Airport projects. Capacities served include Geotechnical Engineering Director, Structural Engineering and Land Development Designer, engineering related Surveyor, and as Construction, Contract, and Project Managers.

Licenses and Certifications:

Professional Engineer, California Board for Professional Engineers, Land Surveyors, and Geologists License #69016

Professional Engineer, Oregon State Board of Examiners for Engineering and Land Surveying License #93282PE

Professional Engineer, Washington State Department of Licensing for Engineers and Land Surveyors License #55902

Professional Engineer, Florida Board of Professional Engineers License #86079

Professional Engineer, Nevada Board of Professional Engineers and Land Surveyors License #026071

Professional Engineer, Hawaii State Board of Professional Engineers, Architects, Surveyors, and Landscape Architects License #PE18597

Professional Engineer, Utah Division of Occupational and Professional Licensing License#13000894-2202

Professional Engineer, Colorado Division of Professions and Occupations License#0061341

Professional Experience:

EFI Global, Rocklin, California

Forensic Engineering of Structures California, Nevada, Hawaii, Utah, Colorado, Washington, Oregon, Florida

Performed over 600 forensic inspections of wood framed, concrete, masonry and steel framed commercial and residential building structures to identify damages resulting from construction and material defects, roofing deficiencies, wind and hail, fires, leaking pipes, differential foundation settlement, moisture intrusion, grading and

drainage, underground utilities, and excessive structural loading including: snow loads, earthquake, wind, vehicle impact and various other incidents leading to structural damage.

**CTE Cal, Inc. Geotechnical Engineers, Sacramento, California
Geotechnical Engineering, Materials Testing, Special Inspections**

Director and Manager of Engineering at Sacramento branch office, performing all Geotechnical, Civil, Structural, and Environmental related engineering/investigation, with technical oversight of AASHTO accredited Materials testing laboratory, & building code complying Special Inspections Division. Performed special inspections of structural and roofing materials including SPF.

**Ducks Unlimited, Rancho Cordova, California
Structural Design, Technical & Construction Inspection – California, Arizona**

Directed regional engineering projects including site surveys, engineering design, AutoCAD drafting, erosion control, soil science, hydraulics, wetland habitat, and agricultural engineering designs, bidding, contracting, construction management, inspections, and as contracting officer.

Creegan D' Angelo, Fairfield, California

Land Development including providing design documents for annexations, permitting, maps, plats, surveying, Public Works infrastructure improvement projects.

**Stevell Construction, Emeryville, California
Oakland International Airport Expansion/Homeland Security - Oakland, California**

Managed construction of new International Ticket Counters, Security Checkpoints, Waiting Area, Duty Free Shop, Security Checkpoint relocation, & FAA Federal mandated upgrade/installation of detection equipment at checkpoints and baggage areas post 9/11.

**Desimone Structural Engineers, New York, San Francisco, Coral Gables
Federal Medium Security Prison - Victorville CA**

Provided inspections, structural design and construction documents for 22 – 1 to 3 story multi- use, specialty, and housing buildings. Structural Inspection of new facility prior to opening.

Victorian Homes - San Francisco, CA

Performed all inspections and provided Seismic retrofit designs and construction documents to historic downtown multi-story structures in the Marina District.

Specialized Education:

EVS/R Roof Specialist Certification, 2018 - Included module specific to SPF roofing
Roof Science and Technology I, 2018
Roof Science and Technology II, 2018
Forensic Engineering: Damage Assessments for Residential/Commercial Structures, 2018

Education:

Bachelor of Science, Civil Engineering, University of California at Davis, Davis, CA

Affiliations:

American Society of Civil Engineers (ASCE)
Roofing Consultants Institute (RCI) - Professional Association of Building Envelope Consultants