Bert L. Howe & Associates, Inc.
Construction Consultants
Construction and Design Professionals

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Matt Stiefel, PE

Civil Engineer

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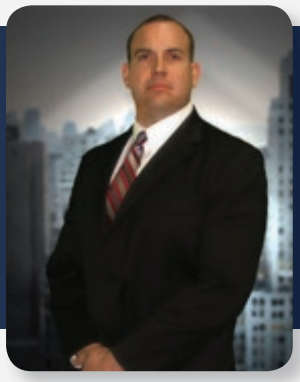
University of California, Los Angeles Bachelor of Science Degree, Civil Engineering (1997)
Foundation Engineering Course (CE 744) – North Carolina State University – 2007 (Online)
Structural Design in Wood Course (CE 528) – North Carolina State University – 2007 (Online)
Slope Stability Seminar – Virginia Tech University – 1999
California Mold Conference Seminar – Lorman Education Services – 2002
Wood Structures I & II – International Code Council – 2004
Structural Design Seminar – University of Wisconsin – 2006



California Registered Civil Engineer No. 61676
California Geotechnical Engineer No. 3069
Nevada Professional Civil Engineer No. 16611
Utah Professional Civil Engineer No. 8301952-2202
Texas Professional Engineer No. 124025
International Code Council Certified Building Plans Examiner
Cal-EMA Post-Disaster Safety Assessment Program Evaluator

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EXPERIENCE

Mr. Stiefel has more than seventeen years of professional experience in the field of Civil Engineering, specializing in foundation analysis and design, including nine years of forensic engineering. In addition to the design of new construction projects, he has been involved in several commercial and public project additions, tenant improvements, and foundation, soils, and settlement analysis, as well as design for slope failure repairs.

Mr. Stiefel has provided technical review services to attorneys, insurance adjusters, property owners, and contractors on numerous structural, geotechnical, civil engineering, and construction issues. He has represented clients in settlement conferences and provided analytical data to assist in preparation for depositions, mediation, arbitration hearing, and trials. He has provided cause and origin analysis for insurance adjusters on many residential and commercial sites related to issues involving moisture intrusion, mold, foundation movement, site drainage, soil movement, wind damage, and other various losses.

A graduate of the University of California, Los Angeles (UCLA), with a degree in Civil Engineering, Mr. Stiefel began his professional career with Inland Foundation Engineering. He worked for I.F.E. in a part-time capacity during his studies at UCLA, then as a Staff Engineer upon graduating in 1997. He performed numerous geotechnical investigations for residential subdivisions, commercial developments, and industrial and public works facilities. Some of his projects include the 7th Street Bridge in San Jacinto, CA; Patriot High School in Jurupa, CA; various water treatment and pipeline facilities for the Eastern Municipal Water District; and the Salt Creek Channel for the Riverside County Flood Control District.

Mr. Stiefel has provided soils investigation services and soils report preparation for many residential, commercial, and industrial projects.

Since 2001, as principal of Stiefel Engineering, Mr. Stiefel has provided engineering services for hundreds of damaged structures and properties relating to catastrophic claims. He has provided disaster relief and consultation services to insurance companies on several earthquakes, including Northridge and Hector Mine, winter storm damage, vehicle and tree impact, and fire loss, including the Old Waterman Canyon and Witch Creek fires. Analysis of those claims involved performing detailed evaluation studies with respect to the causation of loss and performing and managing structural, geotechnical, and preparation of related design documents.

Mr. Stiefel has provided design expertise, construction monitoring, and consulting services on projects as diverse as new single family custom homes to additions and restoration construction. He has provided design and analysis for damage restoration and tenant improvement projects on existing concrete tilt-up, masonry, and wood-framed structures. Mr. Stiefel's engineering design experience also includes foundation repairs for existing commercial and residential structures and retaining wall design.

AREAS OF SPECIALIZATION

At Bert L. Howe & Associates, Inc., Mr. Stiefel is actively involved in a variety of construction-related projects, including formation of intrusive testing protocols, development repair of scope, remedial repair estimates, analysis of contractual obligations, subcontractor liability analysis, and standard of care for Engineering Professionals.

Mr. Stiefel's forensic engineering project portfolio includes visual inspections of residential and commercial sites and structures to determine the cause and origin of damage resulting in insurance claims; visual inspection destructive testing protocols for construction defect litigation; foundation settlement analyses for the design of foundation repairs, replacement, and underpinning; structural inspections, analyses, and design for partial and complete fire reconstruction; sub-surface investigtion and testing; analysis of slope stability, expansive soils, and soil settlement evaluations; and design for slope failure repairs

Mr. Stiefel has performed field investigations and has acquired and analyzed data on multiple projects, including single and multi-family residential developments, mid-rise structures, and commercial and industrial buildings. The issues he has investigated include foundation design and construction, surface and subsurface drainage, and asphalt and concrete pavement design.

AREAS OF SPECIALIZATION *(continued)*

Mr. Stiefel has extensive construction monitoring and testing experience on earthmoving projects, including mass grading operations, roadway pavement section evaluations, utility trench design and construction, surface and subsurface drainage system design, and slope stability evaluations. He has provided in-house construction materials testing for soils, asphalt-concrete pavement, and structural concrete.

Mr. Stiefel has analyzed several slope failures, providing detailed studies of causation of failure, damage to real property and structures, and cost to repair estimates. Additionally, he has prepared repair designs and provided construction monitoring of slope repairs.

ENGINEERING AND FORENSIC EXPERIENCE

- Forensic Engineering Services
- Visual Observation of Structural Impact of Existing Conditions
- Visual, Intrusive, and Destructive Testing of Residential and Commercial Projects
- Acquire, Research, and Analyze Data Pertaining to Property Defect Allegations
- Prepare Reports and Exhibits Presenting Results of Investigations for Mediation, Arbitration, and Trial
- Failure Analysis and Repair Design
- Conduct Manometer Surveys and Subsurface Exploration and Testing for Foundation Settlement
- Assess Slope Failures and Design Repair Protocols that Include Protection of Adjacent Structures during Reconstruction
- Investigation and Analysis of Structural Failures
- Single Family Housing Design and Remediation
- Multi-Family Housing Design and Remediation
- Analysis of Property Drainage Issues
- Commercial Structures
- Transportation Facilities
- Industrial Facilities
- Storm Drain System Design Analysis
- Water and Wastewater Pipelines
- Repair Estimate Coordination
- Comparison of Design Intent vs. As-Built Conditions
- Construction Document Review and Analysis
- Standard of Care Evaluation for Professional Engineers
- Foundation Repair Protocols

ENGINEERING AND FORENSIC EXPERIENCE *(continued)*

- Slope Repair Protocols
- Fire Loss Investigation and Reconstruction
- Technical Support Services for Damage Claims
- Technical Support Services for Foundation and Soils Failure
- Technical Support Services for Soils Stability
- Contract Scope of Work Analysis
- Fire Loss Evaluation and Reconstruction
- Disaster Relief Analysis and Repair Recommendations
- Catastrophic Claims Analysis
- Surface Drainage
- Subsurface Drainage Collection and Distribution
- Asphalt-Concrete Pavement Design
- Construction Materials Testing
- Flood Control Structure Design
- Construction Monitoring Services
- Prepare Subcontractor Allocation Documentation
- Prepare Responses to Plaintiff Allegations