



## **Mark Chapman, PE**

### **General Contractor / Civil Engineer**

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Bachelor of Science, Civil Engineering, 1991,  
California State University, Long Beach



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## **EXPERIENCE**

Mr. Chapman has more than thirty years of combined experience as a Civil Engineer and licensed General Contractor, making him well-suited to forensic investigation and related areas of construction defect analysis. At Bert L. Howe & Associates, Inc., Mr. Chapman is involved in the documentation of existing conditions, as well as detailed analyses, relating to design intent and mechanism of failure. He provides analysis of approved construction documents, comparative analysis of existing conditions, and code compliance, and provides analysis of subcontract terms and conditions. He also provides detailed quantification surveys, remedial protocols, and repair estimates. Mr. Chapman conducts liability analysis, allocates responsibility to involved parties, and participates in the mediation process to assist clients in case evaluation and settlement negotiations. He has qualified as an expert, and has testified in deposition, arbitration, and trial.

As a Project Engineer/Project Manager for Brockmeier Consulting Engineers in Santa Monica, the focus of Mr. Chapman's work was specifically related to infrastructure design, public utilities/facilities, and construction. He provided coordinative expertise in the master planning of facilities for developers and both local and federal authorities. Mr. Chapman implemented the design of raw, potable, storm, and wastewater systems. He supervised associate engineering staff with regard to design of these various systems.

Mr. Chapman was directly involved with several local, state, and federal agencies, including Los Angeles County Department of Public Works, Los Angeles County Waterworks and Sanitation Districts, Los Angeles County Flood Control District, Orange County EMA, United States Marine Corps, United States Air Force, and various



municipalities throughout Southern California.

Mr. Chapman has been involved in many specialized project types. Some of these unique projects include aircraft runways, concrete and steel reservoirs, booster stations, storm drain and trunk sewer systems, wells for potable and irrigation needs, and underground communications systems. Mr. Chapman led the design team and provided construction services for one mile of reinforced concrete pipe storm drain system in Hawaiian Gardens for the Los Angeles County Department of Public Works Flood Control District. He also provided master planning, design, coordination, and construction supervision of two reclaimed water irrigation systems, including three welded steel reservoirs, three pumping stations, and five miles of ductile, iron-welded steel and plastic pipe water main. Mr. Chapman prepared the master planning for the re-routing of five miles of sanitary sewer located at the Santa Clara River. This project included phasing of temporary facilities, new ductile, iron pipe trunk sewers, and sewage lift stations. The scope and magnitude of this project required the interagency coordination of the Los Angeles County Sanitation District, the Los Angeles Department of Public Works, the Army Corps of Engineers, and the California Department of Fish and Game. Mr. Chapman's involvement in the projects as described herein typically included staff management, contract administration, design analysis, structural calculations, structural detailing, interagency coordination, budget preparation, bidding documents, and construction inspection.

In addition to Mr. Chapman's involvement in traditional civil engineering practices, he also assumed responsibility for the configuration, development, and implementation of a comprehensive Computer Aided Design project, utilizing advanced systems and programs related to the field of civil engineering.

As a General Contractor, Mr. Chapman provided supervision, coordination, and contract administration services for his clients. He was directly involved in interagency jurisdictional processing and approvals, and coordinated closely with the related architectural and engineering professional consultants for each project.

Prior to obtaining his general contracting license from the State of California, Mr. Chapman was active in the construction industry as a journeyman carpenter. He specialized in framing and finish carpentry of both custom residential projects and light commercial developments. In addition to his supervision of all relevant trades during the construction of various projects, Mr. Chapman has also participated in the fabrication, installation, and coordination of concrete, steel construction, masonry, stone veneers of various types, general framing, plumbing, electrical, mechanical, and roofing.

Mr. Chapman supervised framing crews during the construction of several custom single-family homes located in the coastal communities of Emerald Bay, Laguna Beach, and Bear Brand Ranch. These homes typically ranged in size from 3,000 to 20,000 square feet, and had construction costs up to five million dollars.



## **AREAS OF SPECIALIZATION**

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- ▣ Development of Remedial Repair Recommendations
- ▣ Estimates and Cost to Repair Analysis
- ▣ Developer and General Contractor Standard of Care
- ▣ Subcontractor Liability Apportionment
- ▣ Construction Contract Disputes
- ▣ Standard of Care for Civil Engineers
- ▣ Evaluation of Construction Structural Components
- ▣ Analysis of As-built Conditions vs. Design Intent
- ▣ Construction of As-built Assessments
- ▣ Site Inspection and Intrusive Testing of As-built Conditions
- ▣ Development of Intrusive Testing Protocols
- ▣ Matters Relating to Code Compliance
- ▣ Development of Testing Protocols for a Variety of Materials
- ▣ Specialist with Matters of Concrete Installations and Design
- ▣ Moisture through Concrete Slabs
- ▣ Subcontractor Standard of Care for Framing, Concrete, Masonry, and Stone Veneers
- ▣ Custom Home Specialist
- ▣ Subrogation Claims
- ▣ Analysis of Project Management, Schedule Compliance, and Standard of Care Protocols
- ▣ Project Permitting - Local, State, and Federal Jurisdictions
- ▣ Analysis of Commercial and Residential Property Drainage Issues
- ▣ Storm Drain Systems - Design, Installation, and Proper Operation