

Sherman D. (Dan) Vines, PE | Forensic Structural Engineer

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Professional Summary:

Mr. Vines has over 25 years of experience in the structural design and evaluation of commercial, industrial, institutional, and residential buildings. Experience includes the design of new buildings as well as renovations to existing structures. Mr. Vines has provided structural assessment of existing buildings for renovations, including the suitability of existing structural systems for reuse and repairs for damages due to accidents or natural events. Mr. Vines also has experience in evaluating existing commercial and industrial buildings as part of due-diligence for real estate transactions.

Licenses and Certifications:

Professional Engineer, Georgia, License #27120
Professional Engineer, Alabama, License #37604-E
Professional Engineer, Indiana, License #PE10606278
Professional Engineer, South Carolina, License #24905
Professional Engineer, Tennessee, License #110641
Professional Engineer, Florida, License #85945

Project Experience:

Confidential Client, Atlanta, GA

Evaluation of storm damage to a multi-building condominium complex

Evaluated 25 individual building roofs for reported damage due to wind and hail

Confidential Client, Peachtree Corners, GA

Evaluation of settlement of parking structure

Determined cause and impact of differential settlement of newly constructed precast concrete parking structure

Confidential Client, Augusta, GA

Evaluation of commercial building roof

Determined cause of water infiltration into a commercial retail space due to improperly installed roofing materials.

Pinewood Atlanta Studios, Fayetteville, GA

Structural Design – new construction

Structural project lead for all buildings on film production studio lot, including 18 sound stages ranging in size from 15,000 to 40,000 square feet. Structures on the lot also include 2 and 3 story office buildings as well as workshops and warehouses. Construction types at the site vary from conventional structural steel frame, tilt-up concrete wall panels, cold-formed steel framing, and pre-engineered metal buildings.

Alliance Academy for Innovation of Cumming, Cumming, GA
Structural Design – new construction

Structural design of new, 3-story high school totaling 188,000 sq. ft. The construction of this building was a structural steel frame with composite steel floor framing and reinforced masonry shearwalls. The design also included site and building retaining and foundation walls of cast-in-place concrete.

Griffin Region College and Career Academy, Griffin, GA
Structural Design – renovation

This project consisted of renovations to an existing, 2-story, 48,000 square foot building originally constructed as a high school in the 1920s. Design included removal of approximately 900 sq. ft. of the 2nd floor to accommodate a new atrium which required the addition of a new structural steel frame to brace the adjacent exterior wall.

The Marshall House, Savannah, GA
Due-Diligence Investigation

Structural review and site investigation of 4-story historic hotel (built in 1851) as part of due-diligence for a real estate transaction. Investigation included assessment of existing structural framing

Court Qualifications/ Depositions:

Litigation CV available upon request

Professional Experience:

EFI Global / Unified Investigations and Sciences, Forensic Structural Engineer, March 2018 – Present
Willett Engineering Company, Inc., Senior Engineer, January 1999 – March 2018
Mowe Inc., Engineering Intern, August 1998 – December 1998
Heery International, Staff Engineer, June 1998 – August 1998
Starzer & Ritchie, Staff Engineer, April 1996 – June 1998
Law Engineering, Engineering/Lab Co-op, January 1993 – September 1995

Specialized Education:

Asbestos in Buildings: Class III – Work Practices for O&M Personnel, Triangle Environmental Consultants, Inc., 2019, refresher course, 2020
Professional Building Consulting, IIBEC, 2020
Investigation and Repair of Wood Structures, ASCE, 2019
Haag Certified Inspector – Commercial Roofs, Haag Education, 2019
Haag Certified Inspector – Residential Roofs, Haag Education, 2019
Roofing Technology and Science I, RCI (IIBEC), 2018
AISC Night School 13 – Design of Industrial Buildings, American Institute of Steel Construction (AISC), 2017
Welded Connections: The Good, The Bad, and The Ugly, National Council of Structural Engineers Associations (NCSEA), 2016
History of AISC Specification for Structural Steel Buildings, AISC, 2016
Laser Scanning: Practical Uses and Deliverables, Travis Pruitt & Associates, 2016

AISC Night School 8 – Design of Composite Floor Systems, 2015
2015 IBC Significant Changes – NCSEA, 2015
Deterioration of Concrete, EZ-pdh.com, 2014
Structural Strengthening of Concrete Structures, STRUCTURAL, 2013
Preventing Concrete Moisture and Failed Flooring, Barrier One, Inc., 2012
Cold Formed Steel Construction, Simpson Strong-Tie, 2012
Evaluation and Modification of Open Web Steel Joists and Joist Girders, NCSEA, 2011
Building Information Modeling, Structural Engineers Association of Georgia (SEAoG), 2008

Education:

Bachelor of Civil Engineering, Georgia Institute of Technology, Atlanta, GA, 1996

Courses Instructed:

Construction Defects – Indoor Air Quality Institute, Atlanta Chapter, August 2019

Affiliations:

International Institute of Building Envelope Consultants (IIBEC)
Structural Engineers Association of Georgia (SEAoG)
American Society of Civil Engineers (ASCE)
American Institute of Steel Construction (AISC)
Haag Certified Roof Inspector – Residential, ID# 201904525
Haag Certified Roof Inspector – Commercial, ID# 201904525