

[www.SEAlimited.com](http://www.SEAlimited.com) **CONSTRUCTION**



**--- S-E-A, Ltd. Corporate Office**

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**INVESTIGATIONS**



**Our Logo** In geology, there is an ideogram used to represent twisted rock formations. The Nsibidi people in Ghana use the same structure to indicate a situation where two witnesses contradict each other but only one is telling the truth (the straight line).





--- *Whatever the problem may be with a building, uninformed opinions are always in plentiful supply.*

*The facts are the only way to clear the air and move toward a real solution.*

*S-E-A's full-time, court-qualified, multidisciplinary staff includes engineers, metallurgists, architects, licensed general contractors and LEED-accredited professionals who will provide you with the timely and accurate information you need to respond during a stressful situation.*

S-E-A has a long history as an acknowledged leader in investigative engineering and forensic science. Since 1970, S-E-A has been a multidisciplinary, full-service and professional organization providing thorough research, analysis and testing. S-E-A offers complete investigative services, including mechanical engineering, electrical engineering, civil engineering, chemical engineering, fire investigation and industrial hygiene. In addition, S-E-A has a fully equipped chemical testing laboratory. S-E-A's full-time staff of investigators, engineers and chemists consists of licensed/registered professionals who are court-qualified experts within their respective fields.

#### **Construction Claims**

- Standard of care
- Contractor and subcontractor disputes
- Design defects
- Defective construction
- Architect and engineer negligence
- Crane accidents
- Environmental pollution
- Construction delay analysis
- Products liability/materials defects
- Blasting and vibration investigations

#### **Safety & Workplace Accident Investigation**

- OSHA compliance reviews
- Ladders & scaffolding
- Fall protection
- Hazard communication
- Respiratory protection
- Electrocutions/electric shock
- Roadway construction work zone
- Machine guarding - lockout-tagout
- Powered industrial trucks
- Sick building syndrome and chemical exposure

- Human factors - warnings
- Asbestos and mixed dust exposure
- Vehicle accident reconstruction
- Accident and incident review investigation
- Biomechanical engineering

#### **Civil/Structural Failures**

- Structural collapse
- Roof truss/roofing system
- Eminent domain
- Trenching/excavating failures
- Differing site condition claims
- Underground plumbing and utilities
- Building envelope and water intrusion
- Civil infrastructure analysis
- Grading and drainage

#### **Other Construction Investigative Services**

- 3-D laser scanning and imaging technology
- Visualization support, computer animation, computer graphics and modeling
- Fire investigation origin and cause
- Gas/propane explosions investigation
- Fire and building code compliance
- Materials failure analysis (plastics, rubber, metals, ceramics and glass)
- Mold and mildew/water intrusion analysis
- Americans with Disabilities Act compliance
- Construction site premises liability
- Heavy equipment failures

#### **Building Systems Failures**

- Fire suppression systems
- Mechanical building systems, boilers, refrigeration, mechanical equipment
- Electrical systems, transformers, generators, switchgear and wiring systems
- Plumbing systems
- Electrical distribution and transmission systems
- Elevator failures
- Heating ventilating and air-conditioning (HVAC)



--- **Representative S-E-A Construction Clientele**

- Industrial Contractors
- Heavy Construction Contractors
- Residential Builders & Developers
- Road & Highway Contractors
- Steel Erection Contractors
- Residential Trade Contractors
- Crane Manufacturers/Users
- General Contractors
- Marine Contractors
- Pipeline Contractors
- Petrochemical Plant Maintenance
- Power Line Contractors
- Public Utilities Companies
- State and Federal Governments
- Construction Equipment Manufacturers

