

## Calvin C. Thomas Jr, PE | Senior Principal Engineer – Large/Complex Loss

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### Professional Summary:

Mr. Thomas is a Senior Principal Engineer in EFI's Large/Complex Loss Group. He has more than 39 years of experience in structural engineering design and has provided a wide range of forensic/investigation related services. The forensic/investigation services include cause and origin, scope of damage, scope of repairs, repair protocols, and building code analysis. He has performed investigations for structural failures and collapses, construction and design defects, the standard of care for design professionals, and the investigation and assessment of damage due to chemicals and fires for commercial and industrial structures. Mr. Thomas specializes in commercial and residential roof damage assessments due to wind, hail, and fire. Forensic services include cause and origin of roof covering damage, scope of damage, scope of repairs, repair protocols, and repair versus replacement analysis. Commercial design experience includes the design of various types of structures including office buildings, sports facilities, and convention centers. Industrial design engineering experience includes the design of chemical plants and refinery expansions from brown field to grass roots projects. Mr. Thomas areas of expertise include, but are not limited to:

- Cause and Origin Damage Assessments
- Roof Damage Assessments (Wind, Hail, and Fire)
- Wind Damage Assessments
- Building Envelope Investigations
- Construction/Design Defect Evaluations
- Standard of Care for Design Professionals
- Structural Analysis and Design

### Licenses and Certifications:

Professional Engineer: Louisiana, No. 21895

Professional Engineer: Florida, No. 37744

Professional Engineer: Arkansas, No. 8732

Professional Engineer: Mississippi, No. 10876

Professional Engineer: Alabama, No. PE50455

Professional Engineer: Georgia, No. PE048106

Professional Engineer: South Carolina, No. 39820

Professional Engineer: Kentucky, No. 37321

Professional Engineer: Texas, No. 143669

### Forensic Engineering Experience:

#### **Fair Grounds | Churchill Downs | New Orleans, Louisiana**

Investigation of the Churchill Downs Fair Grounds including the Derby Buildings, Grandstand, Clubhouse, Casino, and Backstretch Buildings to determine the extent of structural damage following Hurricane Ida.

#### **Fair Grounds Off-Track Betting Casino | Churchill Downs | Gretna, Louisiana**

Investigation of the Gretna Off-Track Betting Casino/Video Poker building and the Mutuels/Horseracing building to determine the extent of structural damage to the roofing systems following Hurricane Ida.

#### **Jefferson Parish Sheriff's Office Training Facility | Harvey, Louisiana**

Investigation to determine the extent of structural damage to the training facility due to an EF-2 tornado.

**New Iberia Medical Center | Hospital Service District No 1 of Iberia Parish | New Iberia, Louisiana** | Investigation to determine the extent of structural damage to the New Iberia Hospital Complex due to an EF-2 tornado.

#### **TNT Contractors | Baton Rouge, Louisiana**

Investigation to determine the cause of the metal building collapse.

#### **West Bank Regional Library | Parish of Jefferson | Harvey, Louisiana**

Investigation to determine the extent of structural damage to the library following Hurricane Ida.

#### **Jefferson Parish Streets Department | Parish of Jefferson | New Orleans, Louisiana**

Investigation to determine the extent of structural damage to the building and warehouse following Hurricane Ida.

#### **River Ridge Public Library | Parish of Jefferson | River Ridge, Louisiana**

Investigation to determine the extent of structural damage to the library following Hurricane Ida.

#### **Fire Station 72 | Parish of Jefferson | Waggaman, Louisiana**

Investigation to determine the extent of structural damage to a fire station following Hurricane Ida.

#### **Place Dubourg | Archdiocese of New Orleans | LaPlace, Louisiana**

Investigation to determine the extent of structural damage to the building following Hurricane Ida.

#### **Lafreniere Park | Parish of Jefferson | Metairie, Louisiana**

Investigation to determine the extent of structural damage to the facilities following Hurricane Ida.

**Ford Park Baptist Church | Shreveport, Louisiana**

Perform a structural evaluation of the five buildings on the church campus.

**Rehobeth Baptist Church of Rankin County | Pelahatchie, Mississippi**

Perform a structural evaluation of the four buildings on the church campus

**Hollywood Casino | Penn National Gaming | Gulfport, Mississippi**

Investigation of all commercial properties onsite to determine the extent of structural damage following Hurricane Katrina.

**Hydrocracker Unit | Mobil Oil Refinery | Chalmette, Louisiana**

Assessment of fire damage and the on-site redesign to rebuild the two-stage hydrocracker unit.

**Furniture Storage Building | Baton Rouge, Louisiana**

Perform a structural evaluation of the three-story building post fire.

**Chateau Napoleon Apartments | Ohio Management | Metairie, Louisiana**

Perform a structural evaluation of two three-story buildings post fire.

**Commercial Project Experience:**

**LSU Tiger Stadium West Side Upper Deck Expansion, Baton Rouge, LA** – Engineer of Record for the project including three levels of stadium club seating with a new Press level and an upper deck expansion making venerable Tiger stadium the fifth largest college stadium in the United States.

**LSU PMAC Basketball Practice Addition, Baton Rouge, Louisiana** – Engineer of Record for the project included a press room, two gyms, training areas, and coach's offices for the LSU Men's and Women's basketball teams.

**Joseph Davies Elementary School, Meraux, Louisiana** – 85,000 sq ft (1 story) Engineer of Record for the new school.

**Fidelity Homestead Bank, Hammond, Louisiana** – 11,400 sq ft (2 stories) Engineer of Record for the new bank.

**Fountain Park Centre Office Building E, Harvey, Louisiana** – 48,000 sq ft (2 stories) Engineer of Record for the new office building.

**Hollywood Casino Central Plant & Back of House Additions, Bay St. Louis, Mississippi** - 141,000 sq ft (2 stories) Project Manager for the new land based back of house additions.

**SunTrust Bank, Tampa, Florida – 825,000 sq ft (35 stories)** - Project Manager for the new 35 story office building in downtown Tampa.

**One Waterford Place, Miami, Florida – 275,000 sq ft (10 stories)** – Engineer of Record for the new 10 story office building adjacent to Miami International Airport.

**One Waterford Place Parking Garage, Miami, Florida – 325,000 sq ft (5 stories)** – Engineer of Record for the new five story parking garage.

**University of South Florida Eye Institute, Tampa, Florida – 120,000 sq ft (4 stories)** – Engineer of Record for the new four-story medical building.

**Tampa Convention Center, Tampa, Florida – 550,000 sq ft** – Structural engineer responsible for the 180-foot span truss design over the convention level floor.

**River City Center, Ft. Lauderdale, Florida – 525,000 sq ft (22 stories)** – Structural engineer responsible for the lateral design of the building.

**Gateway Office Building, Atlanta, Georgia – 480,000 sq ft (20 stories)** – Structural engineer responsible for the lateral design of the building

### Professional Experience:

EFI Global – LCL, Baton Rouge, Louisiana, Principal Engineer, to 2022 & 2023 to Present

Engineering Systems Inc (ESI), Baton Rouge, Louisiana, Senior Managing Consultant, 2022 to 2023

President & Chief Engineer, Thomas Forensic Engineering Inc., Baton Rouge, Louisiana 2020 – 2021

Project Manager/Civil Structural Department Manager, Jacobs Engineering/Worley, Baton Rouge, Louisiana, 2010 -2020

President & Chief Engineer, Thomas & Luth Structural Engineers, Baton Rouge, Louisiana 2005 – 2010

Senior Structural Engineer, Schrenk & Peterson Structural Engineers, Baton Rouge, Louisiana 2002 – 2005

Civil Structural Department Manager, CDI Engineering, Baton Rouge, Louisiana 1998 – 2002

Supervising Principal Engineer, Jacobs Engineering, Baton Rouge, Louisiana 1989 – 1998

Associate, Walter P. Moore & Associates, Tampa, Florida 1986 – 1989

Design Engineer, Huck & Ragland Structural Engineers, Baton Rouge, Louisiana 1984 – 1986

Design Engineer, Rayner & McKenzie Structural Engineers, Baton Rouge, Louisiana 1983 – 1984

### Education:

Bachelor of Science, Civil Engineering, Louisiana State University, 1980

Master of Science, Civil Engineering, Louisiana State University, 1983

### Publications and Presentations:

Pile Driving Contractors Association Gulf Coast Chapter Engineers Conference, New Orleans, Louisiana. Topic: Pile Driving – Codes & Standards. 2017

Louisiana Civil Engineering State Conference & Show - Joint Sponsor of ASCE and ACI, New Orleans, Louisiana. Topic: Design and Detailing of a Reciprocating Compressor on a Concrete Block Foundation Supported by Piles. 2014



2009 Civil Structural Department, Jacobs Office, Baroda, India. Topic: ACI 318 and Modular Structural Steel Design. 2009

American Society of Civil Engineers (ASCE) Seminar, Baton Rouge, Louisiana. Topic: Hurricane Katrina – Structural Assessments – Observations and Findings. 2006

American Society of Civil Engineers (ASCE) Seminar, Baton Rouge, Louisiana.  
Topic: Presentation as the EOR for the Design of the LSU Tiger Stadium Westside Upper Deck Addition followed by a tour of the completed stadium. 2006

American Society of Civil Engineers (ASCE) Seminar, Baton Rouge, Louisiana.  
Topic: Presentation as the EOR for the Design of the LSU Tiger Stadium Westside Upper Deck Addition. Location onsite during construction. 2006