



# HALLIWELL

## OSVALDO AREVALO, PE, CGC, CWI

SENIOR FORENSIC ENGINEER,  
CIVIL/STRUCTURAL ENGINEERING SERVICES

MIAMI/FT. LAUDERDALE, FL

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halliwellglobal.com

### SPECIALTIES

- Structural Evaluations
- Storm Damage Evaluations: Hurricane, Windstorm, Hail, Tornado, Flood
- Project Management
- Roof and Wall Cladding Moisture Intrusion
- Forensic Evaluation of Building Envelope and Structural Components
- Resolution of Design, Construction Deficiencies and Building Failures
- Foundation Systems
- Litigation Support

### BIOGRAPHY

Osvaldo is a licensed PE in multiple states who brings more than 25 years of combined experience in the fields of civil and structural forensic engineering, structural building inspections, construction materials testing, structural design and plan review, and construction supervision. His expertise and broad knowledge of the industry gives him advanced insight into investigating property damage losses and evaluating building conditions. He specializes in forensic civil/structural investigations including hurricane damage assessments, evaluating damage from structural failures, foundation settlement, construction-related and blast induced vibrations, windstorm, fire, and vehicle impact events. He also has expertise in construction accident assessments, ladder and roof evaluations, collapse issues, and egress evaluations.

Osvaldo has conducted cause, origin, and extent/severity of damage investigations to multiple structure types, including commercial, industrial, multi-family, and residential. His expertise includes evaluation of structural damage from various causes including hurricanes, hail, tornadoes, flood events, fires, vehicle impact, roof and wall cladding moisture intrusion, plumbing leaks, and wood destroying organisms.

### QUALIFICATIONS

BSCE, Civil/Structural Engineering, Universidad Tecnica de Oruro - Facultad Nacional de Ingenieria (National School of Engineering) – Bolivia, 1993

### INDUSTRY CERTIFICATIONS, LICENSES AND MEMBERSHIPS

- Licensed PE in FL, OH, MT, WA, WY
- State of FL Certified General Contractor
- American Welding Society (AWS), member
- American Society of Civil Engineers (ASCE), member
- American Concrete Institute (ACI), member

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- Certified Welding Inspector, American Welding Society
- Certified XL Tribometrist, Excel Tribometers, LLC, Since 2011 (inactive)
- Structural Masonry Inspector, Florida Concrete & Product Assoc.
- SBCCI Building Inspector

#### LANGUAGES

Fluent in English and Spanish

#### PROFESSIONAL EXPERIENCE

- Halliwell, Senior Forensic Engineer, Civil/Structural Engineering Services
- J.S. Held, LLC, Professional Engineer III
- SDII Global Corporation, Principal Engineer
- NOVA Engineering and Environmental LLC, Technical Director
- CAPRI Engineering LLC, President of Florida Operations
- CAPRI Engineering LLC, Vice President of Operations
- Professional Engineering & Inspection Company, Inc. (PEICO), Senior Project Engineer
- Professional Engineering & Inspection Company, Inc. (PEICO), Field Engineer and Project Engineer
- Navama, Inc. Consulting Engineering & Construction Management, Assistant Engineer

#### REPRESENTATIVE ASSIGNMENTS

##### Hurricane Damage Assessment

Completed hundreds of hurricane damage assessments on residential and commercial structures affected by Hurricanes Charley, Frances, and Wilma in 2004, 2005, and 2006, and most recently Hurricane Irma in 2017 and Hurricane Ian in 2022. Evaluated storm damage associated with Hurricane Isaac in 2012 and Hurricane Ida in 2021 in Louisiana, and the northeastern United States (Maryland and Connecticut) for Hurricane Sandy in 2013. Investigations involved hurricane impact in structures, distinguishing wind-related damage from storm surge-related damage (Wind versus Water), natural deterioration, and assessing the structural integrity of buildings, including roof and wall cladding.

##### Collapse Investigation

Performed engineering investigation on the cause of the collapse of a three-story tunnel form structure during construction in Stuart, FL.

Performed engineering investigation of the failure and collapse of a single-story MBS roof on the emergency operating facility during the 2004 Hurricane season in Charlotte County, FL.

##### Moisture Intrusion – Plumbing Leak and/or Backup Investigation

Evaluated moisture intrusion damage due to pressurized water supply lines and drainpipe leaks/failures, which included copper, CPVC, plastic, stainless steel, cast iron, and PVC.

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#### **Moisture Intrusion – Roof and Wall Cladding**

Conducted investigation of serviceability failures of several material types (shingle, tile, slate, wood shake, built-up membrane, etc.) and configuration of roofs (steep slope, flat, and curve), and wall cladding, which included stucco wall covering, siding, and glass and glazing components (windows, doors, curtain wall, etc.).

#### **Construction and Blast Vibration**

Performed investigation of construction-related and/or blast-vibration damage in numerous residential and commercial structures throughout South Florida and near limestone quarry sites in Miami-Dade County, Florida.

#### **Property and Structural Condition Assessments**

Conducted property and structural condition assessments for real estate transactions on commercial, multifamily residential and single-family residential projects.

Served as either a lead inspector, project manager, senior project manager or principal on the following multi-year blanket contracts and/or projects:

#### **Education**

- The School Board of Orange County, Orange County, FL
- University of Florida, Statewide contract
- Broward County Community College, Broward County, FL
- Florida Atlantic University, Boca Raton, FL
- Florida State University, Statewide contract
- Florida School of the Deaf and Blind, St. Augustine, FL
- School District of Manatee County, FL
- Brevard County School Board, Brevard County, FL
- Miami-Dade College, Miami, FL
- Martin County School District, Martin County, FL
- Temple Koi Am Early Childhood Education Facility (12,000 GSF), Plantation, FL

#### **Municipalities/Government**

- City of Sunrise, FL
- City of Plantation, FL
- City of Hollywood, FL
- Okeechobee County, FL
- City of Coral Springs, FL
- City of Fort Lauderdale, FL
- City of Miami Beach, FL
- City of Boynton Beach, FL

#### **Apartment / Condominium**

- 500 Brickell (1,090,000 GSF), Miami, FL
- Archstone at Hibiscus (678,000 GSF), West Palm Beach, FL

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- Europa by the Sea (320,000 GSF), Fort Lauderdale, FL
- Coconut Grove Residences (180,000 GSF), Fort Lauderdale, FL
- DolceVita on the Ocean (120,000 GSF), Riviera Beach, FL
- Marina Grande (216,233 GSF), Riviera Beach, FL
- Veranda (474,000 GSF), Plantation, FL
- Alauqua (260,000 GSF), West Palm Beach, FL
- Metropolitan (250,000 GSF), West Palm Beach, FL
- Midtown II (830,000 GSF), Miami, FL
- Midtown MidBlock East (764,000 GSF), Miami, FL
- Midtown IV (959,394 GSF), Miami, FL
- Lauderdale One (260,000 GSF), Miami, FL
- Broadway Promenade (350,000 GSF), Sarasota, FL
- Tao (1,012,000 GSF), Sunrise, FL
- City Palms (688,000 GSF), West Palm Beach, FL

#### Office

- One Financial Plaza (276,000 GSF), Fort Lauderdale, FL
- Lakeshore Plaza II (410,000 GSF), Sunrise, FL
- City Place at Aventura (710,000 GSF), Aventura, FL

#### Retail and Occupancy Assembly

- Dolphin Mall (2,000,000 GSF), Miami, FL
- Sawgrass Mills (various IBOs), Sunrise, FL
- Shoppes at Veranda Falls (93,000 GSF), Port St. Lucie, FL
- City Place (various IBOs), West Palm Beach, FL
- Carter Square (68,000 GSF), Miami, FL
- Miramar Town Center, Block 4B (37,000 GSF), Miramar, FL
- Broward County Convention Center Expansion (500,000 GSF), Fort Lauderdale, FL
- New Birth Baptist Church (25,000 GSF)

#### Hotel

- Marriott Hotel at the Dolphin Mall (68,000 GSF), Miami, FL
- Harbor Beach Marriott (various renovation projects), Fort Lauderdale, FL
- Holiday Inn Express (62,000 GSF), Miami, FL
- Victor Hotel (80,000 GSF), Miami Beach, FL

#### Residential Development

- Trammell Crow Residential Developments (Multiple), FL
- Centerline Homes Subdivisions (Multiple), FL
- DR Horton Home Subdivisions (Multiple), FL
- Lennar/US Homes Subdivisions (Multiple), FL
- Centex Homes Subdivisions (Multiple), FL
- Transeastern Homes Subdivisions (Multiple), FL