



ROBERT L. DE LOACH JR., CBI, CFM, CBC
Project Manager/Building Inspector

Education:

AA, Drafting and Design, ITT Technical Institute

Professional Registrations & Certifications:

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| CBI 5273397-B1 | [Certified Building Inspector: ICC] |
| CPI 5273397-P1 | [Certified Plumbing Inspector: ICC] |
| CMI 5273397-M1 | [Certified Mechanical Inspector: ICC] |
| CEI 5273397-E1 | [Certified Electrical Inspector: ICC] |
| CFM US-09-04536 | [Certified Floodplain Manager: ASFPM] |
| CBC 1257915 / FL | [Certified Building Contractor: State of Florida] |

Professional Affiliations:

International Code Council: [National] – Member
International Code Council: [Suncoast Chapter] – Member
Building Officials Association of Florida: [Suncoast Chapter] – Member
Autodesk Users Group International: [International] – Member
Florida Fire Chiefs Association: [State] – Member
Association of State Floodplain Managers: [National] – Member
Florida Floodplain Managers Association: [State] - Member
National Fire Protection Association [National] - Member

Urban Search and Rescue Qualifications:

FEMA Urban Search and Rescue – FEMA-USACE Certified StS1, ICS Certified
Florida Urban Search and Rescue – Florida Task Force 3 Structures Specialist (StS)
Hillsborough County – Hillsborough County Fire Rescue/Special Operations, StS
Bracken Engineering [Engineering Response Team] – Member

Summary of Experience:

Mr. De Loach's training, experience, and practice include supervision of engineering drafting & plans production, residential building inspections and post-event damage assessments, 3D modeling & animation, knowledge of the building codes and construction estimating. Mr. De Loach is also a structures specialist qualified in urban search and rescue.



Summary of Experience (cont.):

Within the plans production arena, Mr. De Loach has experience as a supervisor of AutoCAD technicians, engineering drafting, and plans production. In this role Mr. De Loach has worked to develop, implement and maintain drafting and production standards. Mr. De Loach has extensive AutoCAD drafting experience in support of restoration plans, new design construction plans and details for specific applications. Mr. De Loach has also created 3D models & animations from plans to be able to present renderings of overall views, construction sequences and demolition sequences.

Within the inspection arena, Mr. De Loach manages field construction monitoring and inspection of residential and commercial structures, and performs structural damage assessments and accompanying data collection to restore damaged structures. Furthermore Mr. De Loach has extensive knowledge of the Florida Building Codes and the International Building Codes. Additionally, Mr. De Loach has knowledge of construction estimating involving estimates small and large and restoration to new construction.

Research:

In conjunction with Bracken Engineering, Mr. De Loach has participated in the development of industry standard protocols and procedures in the development of horizontal surface topographic mapping. Horizontal surface topographic mapping is a diagnostic tool used in a non-destructive nature when assessing structures that have been affected by differential displacement. This method is valuable when determining the nature of structural damages and deficiencies.

Presentations:

“Structural Collapse Training”, Florida Task Force 3 Training-January 2009, Tampa, Florida

“Structural Collapse Training”, Florida Task Force 3 Training-December 2009, Tampa, Florida

“When Disaster Strikes”, International Code Council Conference - March 2009, New Orleans, Louisiana

“The Building Marking System,” Special Response Team Training Conference - March 2005, Orlando, Florida.

“Introduction to Bracken Engineering”, Walter L. Sickles High School Great American Teach-In – November 2004, Tampa, Florida

“Introduction to Bracken Engineering”, Walter L. Sickles High School Great American Teach-In – November 2003, Tampa, Florida

“Introduction to Bracken Engineering”, Walter L. Sickles High School Great American Teach-In – November 2002, Tampa, Florida

Seminars Attended:

“Workshop on Elevation Certificate,” Florida Floodplain Managers Association – May 6, 2010, Bradenton, FL

“Xactimate 25 Training” Xactware, February 23-25, 2010, St. Louis, Missouri



Seminars Attended (cont.):

“Coastal Construction Standards” Florida Flood Plain Mangers Association, March 3-5, 2010 Lake Mary, Florida

“Effects of Map Changes on Flood Insurance” Florida Flood Plain Mangers Association, March 3-5, 2010 Lake Mary, Florida

“Residential Substantial Damage Estimator Training” Florida Flood Plain Mangers Association, March 3-5, 2010 Lake Mary, Florida

“ASTM Training on Property Condition Assessments,” ASTM International, November 17-18, 2009, Orlando, Florida

“Managing Floodplain Development through the NFIP,” Florida Flood Plain Mangers Association, August 31 – September 4, 2009 Milton, Florida

“Mapping and Engineering Standards,” .Association of State Floodplain Managers National Conference, June 7-12, 2009, Orlando, Florida

“Coastal Construction Issues,” .Association of State Floodplain Managers National Conference, June 7-12, 2009, Orlando, Florida

“Supporting Flood Studies with Framework Data,” Association of State Floodplain Managers National Conference, June 7-12, 2009, Orlando, Florida

“Geospatial Data, Tools, Training s, and Applications for Coastal Floodplain Management,” Association of State Floodplain Managers National Conference, June 7-12, 2009, Orlando, Florida

“Understanding Levees,” Association of State Floodplain Managers National Conference, June 7-12, 2009, Orlando, Florida

“Storm Surge Modeling,” Association of State Floodplain Managers National Conference, June 7-12, 2009, Orlando, Florida

“When Disaster Strikes,” International Code Council, March 25, 2009, New Orleans, Louisiana

“Florida Building Code Accessibility,” Building Officials Association of Florida, June 27, 2008 Ocala, Florida

“Florida Laws and Rules,” Building Officials Association of Florida, June 27, 2008 Ocala, Florida

“Florida Building Code Chapters 5, 6, & 7,” Building Officials Association of Florida, June 27, 2008 Ocala, Florida

“Jobsite Safety,” Building Officials Association of Florida, June 26, 2008 Ocala, Florida

“Workers Compensation,” Building Officials Association of Florida, June 26, 2008 Ocala, Florida

“Most Common Code Violations,” Building Officials Association of Florida, June 26, 2008 Ocala, Florida

“2006 Florida building Code Supplement,” Building Officials Association of Florida, June 26, 2008 Ocala, Florida

“2004 Florida Building Code Chapters 5, 6, & 7,” Building Officials Association of Florida August 15, 2007, St. Augustine, Florida



Seminars Attended (cont.):

- “**Understanding Window and Door Performance Standards,**” American Architectural Manufacturers Association, August 15, 2007, St. Augustine, Florida
- “**Masonry Construction & Inspection Certification Workshop,**” Florida Concrete & Products Association, April 21-22, 2006, Tampa Florida
- “**2003 IBC Solving Means of Egress Issues In Commercial Buildings,**” International Code Council, Clearwater, Florida
- “**2005 National Electric Code Review,**” National fire Protection Association, February 12-14, 2006, Las Vegas, Nevada
- “**Florida Building Code Wind Load Design,**” Florida Engineering Society, January 2006, Tampa, Florida
- “**2003 IRC Performing Residential Building Inspections,**” International Code Council – October 2005, Kent, Washington
- “**2003 IRC Performing Residential Plumbing Inspections,**” International Code Council – October 2005, Nashville, Tennessee
- “**Micropiles – Developments in Design and Construction,**” Deep Foundations Institute – September 2005, Chicago, Illinois
- “**AutoCad Beyond The Basics,**” Avatech Solutions – March 2005, Tampa, Florida
- “**Viz 3D Beyond The Basics 2005,**” Avatech Solutions – February 2005, Tampa, Florida
- “**Viz 3D Core Concepts 2005,**” Avatech Solutions – February 2005, Tampa, Florida
- “**AutoCad 2005 Update,**” Avatech Solutions – January 2005, Tampa, Florida
- “**Designing for High Wind Workshop,**” Simpson Strong -Tie – March 2004, Jacksonville, Florida
- “**Intro High Wind Workshop,**” Simpson Strong -Tie – March 2004, Jacksonville, Florida
- “**Strong Tie Workshop,**” Simpson Strong -Tie – February 2004, Pinellas Park, Florida
- “**ChlorEP Seminar,**” The Chlorine Institute – November 2003, Tampa, Florida
- “**General Topics on Wind Related Damage,**” Windstorm Insurance Conference, February 2003, Orlando, Florida
- “**Advanced SAS Workshop,**” Simpson Strong -Tie – September 2002, Jacksonville, Florida
- “**Intro to SAS Workshop,**” Simpson Strong -Tie – September 2002, Jacksonville, Florida
- “**Building Code / Structural Tampa,**” Florida Engineering Society (FES) – March 2002, Tampa, Florida
- “**Productivity Seminars Customizing and 3D Modeling,**” Cadtech Seminars – June 2001, Tampa, Florida
- “**Productivity Seminars: Maximizing AutoCad,**” Cadtech Seminars – June 2001, Tampa, Florida



Urban Search and Rescue Training:

Professional Rescuer CPR, American Red Cross - Annually, St. Petersburg, Fl, 8 hours

Florida Structural Specialist Annual Training - Florida Task Force 3 – August 2008, Bartow, Fl, 10 hours

Florida Structural Specialist Annual Training - Florida Task Force 3 – August 2008, Ocala, Fl,

Confined Space Training, Hillsborough County Fire Rescue - June 2003, Tampa, Fl, 24 hours

Hazard Material Training, Hillsborough County Fire Rescue - June 2003, Lutz, Fl, 12 hours

Self Contained Breathing Apparatus, Hillsborough County Fire Rescue – October 2003, Tampa, Fl, 4 hours

ChlorEP Seminar, The Chlorine Institute- November 2003, Tampa, Fl, 12 hours

Incident Command System Training, FEMA on-line training - November 2003, Tampa, Fl, 8 hours

Trench Rescue Training, Hillsborough County Fire Rescue – January 2004, Tampa, Fl, 24 hours

Special Response Team Training , Florida Fire Chiefs Association – March 2005, Orlando, Florida

Project Experience:

Walgreens Storm Water Vault, Safety Harbor, Florida - Project Manager that supervised the construction of two storm water vaults which exceeded 22,000 square feet in size. The cast-in-place strip footings were in excess of 1,700 lineal feet along with approximately 10,200 square feet of masonry wall. The vaults were topped with elevated pre-cast concrete panels and covered with a concrete slab that exceeded 24,000 square feet

Incarnation Sports Facility, Tampa Florida – Project Manager that supervised the installation and erection of the pre-engineered metal building for this sports facility with a square footage of approximately 9,000. The role was to verify the proper location of each of the structural members and verify all connections were properly made to the main frame, perkins, cross bracing, roof sheathing, and wall sheathing were verified. Additionally, I supervised the placement of the 9,000 square foot foundation and slab. The foundation consisted of reinforced strip and pad footings. The formwork had to be verified for the placement of the anchor bolts for the main spans of the pre-engineered steel.

Rusty Pelican, Tampa, Florida – Project Manager that supervised the removal and replacement of cast-in-place concrete columns under the restaurant. The existing columns were deteriorated and were structurally compromised. The column locations were temporarily shored, and pre-construction underpins were installed. The column rebar cages were constructed and placed within the form work for the columns. The rebar cage and form work were placed over the underpins and were poured back. The structure was lowered on to the new columns and was reattached.



Project Experience: (cont.)

Oakview Baptist Church, Okeechobee, Florida– Project Manager that supervised the installation of the emergency temporary shoring of the pre-engineered roof trusses that were damaged from a hurricane. Once the restoration plans were complete and after an animation that was created by Mr. De Loach of the demolition sequence was completed, Mr. De Loach supervised the removal and replacement of newly designed long span pre-engineered roof trusses and the modification of the existing roof system to meet current code requirements

Berkman Parking Garage, Jacksonville, Florida – Project Manager responsible for creating a 3D model of the parking garage prior to the collapse, after the collapse and a rough animation of how the parking garage could have collapsed. An animation of the demolition sequence was also created. Additionally Mr. De Loach made visits to the site during the demolition process to assist with the construction activities.

Bracken Property, Lutz, Florida – Project Manager that reviewed all of the construction documents and participated in the construction of a large residential structure from foundation work through cosmetic work.

Volusia County High School, Volusia County, Florida – Project Manager that provided construction estimates for site work that was needed after storm damage to the site while the site was under construction. The estimates were done from photographs, a rough estimate from the contractor and verbal communication with the adjuster and contractor on site.

3M Plant Demolition, Decatur, Alabama – Project Manager that constructed a 3D model and animation of a structural steel building from an original set of plans that needed to be demolished without damaging piping that was running within 10 feet of the building. The animation consisted of fly around views of the structure and then disassembly of the building while bringing in shoring to support the structure while it was being taken apart.

Financial Center Training Center, Tampa, Florida – Project Manager that was tasked with creating a 3D animation of the proposed interior finish of the training center. The animation consisted of an interior walk through and was very detailed on finishes, lighting and furniture.

Hertenstein Property, Tampa Florida – Project Manager responsible for conducting the initial site visit of the structure that was hit by a car and damaged the front wall of the structure. Additionally Mr. De Loach was responsible for the creation and over seeing the drafting of the restoration plans. Finally Mr. De Loach worked with the contractor and homeowner to make some changes to the floor plan in addition to the repairs that needed to be done to the structure.

Villas Del Sol at Kissimmee, Kissimmee, Florida – Project Manager that was tasked with assisting in the collection of damaged components at this condominium building that was damaged by fire. The building consisted of 20 units and was substantially damaged to over fifty percent of the structure. Mr. De Loach also assisted in the creation of the restoration plans.

Garden of Memories Mausoleum, Blount Curry and Roel, Tampa, Florida. Senior Technician Responsible for site visits and drafting a portion of the restorative underpinning plans to stabilize the structure. The site visit consisted of visual evaluations of the exterior and from within empty crypts.

The Vintage, Tampa Palms Apartments, Tampa, Florida. Senior Technician responsible for the elevation of the existing roof system and the design of the restorative plans to remove and replace the damaged members.



Project Experience: (cont.)

Carroll Property, Gibsonton, Florida. This was a retail shop, which was hit by a vehicle. The structure consisted of masonry wall with a brick veneer. The roof system was an open webbed joist that was supported by steel beams and columns. The impact had damaged a good portion of the front wall. Mr. De Loach was the senior engineering technician that took part in the initial inspection and the development of the restoration plans and details.

Manhattan Palms Apartments, Tampa, Florida. This was a fire that damaged half of the roof system over this two-story, eight unit, apartment building. It also damaged the exterior masonry wall on the second floor of the structure. Mr. De Loach was the senior engineering technician that took part in the initial inspection and the development of the restoration plans and details.

Eddy Residence, Ormond Beach, Florida. This was a fire restoration project with modifications to a structure on the beach. This was a post and beam structure with interior non-load bearing walls within. The structure required a modification to the copula where the lightning struck and on the ground floor where some of the beams had to be supported with new footings and steel columns hidden within the modified floor plan. Mr. De Loach was the senior engineering technician that took part in the initial inspection and the development of the restoration plans and details and follow up site visits.

Gisonda Residence, New Port Richey, Florida. This was a single-family residence that was struck by a vehicle. The structure consisted of masonry walls but did not have any reinforcing steel within the walls. The impact took out a column and a portion of the front wall with a window within it. Mr. De Loach was the senior engineering technician that took part in the initial inspection and the development of the restoration plans and details.

Huddleston Residence, Tampa, Florida. This was a single-family 2-story structure that was struck by lightning, which started a fire. The structure consisted of exterior masonry & frame walls, pre-engineered floor trusses and roof trusses. The fire had damaged some floor trusses in the main portion of the structure; along with some roof trusses over the garage were damaged. Mr. De Loach was the senior engineering technician that conducted the initial inspection and development of the restoration plans and details.