

Structural Integrity is Our Business



EDUCATION

Bachelor of Science in Civil Engineering
- The University of Florida, 1990
Master of Engineering - The University
of Florida, 1991

REGISTRATIONS

Florida PE No. 49972
Louisiana PE No. 32042
Mississippi PE No. 17497
Maryland PE No. 32267
Georgia PE No. 024390
Virginia PE No. 0402 032011
Texas PE No. 103930
Tennessee PE No. 00113184

Threshold Special Inspector: Florida No.
1149
NCEES Council Record No. 14300
(National Council of Examiners for
Engineering and Surveying)

ASSOCIATIONS

- 32 American Institute of Steel Construction
- 32 American Society of Civil Engineers
- 32 Florida Engineering Society
- 32 International Concrete Repair Institute: *Board Director/Florida West Coast Chapter - Vice President 2012, 2004, Past President 2006, President 2005, Secretary 2003*
- 32 Lorman Education Services: Faculty – *Proper Assessment and Planning for Structural Renovations of Existing Buildings and Structures in Florida*
- 32 National Society of Professional Engineers
- 32 Structural Engineering Institute of the American Society of Civil Engineers
- 32 Structural Engineers Council
- 32 National Academy of Forensic

Mr. Biller has extensive experience in the field of structural engineering design, consultation, assessments and inspection. He has gained a wealth of experience on a wide variety of projects for public and private clients. He is involved with planning, scheduling and estimating potential projects. He has prepared detailed layouts and designs for projects encompassing concrete, steel, masonry, and timber structures using both static and dynamic analysis. He has performed condition surveys and prepared design and construction plans and specifications for the renovation and restoration of existing structures. He has prepared drawings and specifications for client reviews, contractor bidding, permitting, construction, and record documentation. Mr. Biller also has extensive forensic engineering experience in assessing damaged structures.

Mr. Biller has performed structural engineering design for clients including architects, other engineering disciplines, contractors, building owners, developers, and public entities. He has supervised and checked final design calculations and drawings as well as provided construction and threshold inspections.

SELECT PROJECT EXPERIENCE

Commercial

Office/Retail

Key West Walgreens, Key West, Florida

Principal in Charge/Project Manager - provided structural engineering design, restoration, and renovation services for this historic theater built in the 1920's. The conversion of this historical theater into a two story structure involved the addition of a structural steel elevated floor structure within the existing building, restoration of concrete walls and columns, and the addition of an elevator. The first floor accommodates the pharmacy/retail area. The new second floor accommodates a break room, bathrooms, storage space for the Walgreens store and two apartment units.

Verizon Wireless, Various Locations, Florida

Principal in Charge/Project Manager - performed structural design for prototype buildings located in Citrus Park and Estero, Florida. The construction of the prototype structure is comprised of the following: cast-in-place concrete foundations and floor slab on grade, reinforced concrete masonry unit or light gauge metal framed walls and pre-engineered metal plate connected timber or light gauge steel roof trusses.

6/10 Corporation/Winter Haven, Florida

Principal in Charge/Project Manager - performed a condition survey of the structure to observe the state of the discernible structural components of this two story building constructed in the early 1900's. BillerReinhart prepared design documents (drawings and specifications) for the recommended repairs and modifications, including second floor timber framing strengthening, second story exterior wall strengthening and timber roof framing strengthening. BillerReinhart performed site visits during construction to observe progress.

Entertainment/Recreation

Sarasota Opera House, Sarasota, Florida

Principal in Charge/Project Manager - performed structural design for the restoration of a historic 1920's era opera house. The scope of repair work addressed structural steel exterior wall and elevated floor beams and bar joists that exhibited moisture related deterioration and resulting impairment. BillerReinhart performed site visits during construction to observe progress.

Public

Correctional

Pinellas County Jail Expansion - Phase II, Pinellas County, Florida

Principal in Charge/Project Manager - designed the foundation system for the Pinellas

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- 32 Engineers – Senior Member
Florida Institute of Consulting
Engineers
- 32 American Council of Engineering
Companies

PERSONAL INTERESTS

Playing Drums for Blues/Rock Bands,
Martial Arts, Running, Weightlifting

County Jail Expansion Phase II project. This project was a value engineering effort on behalf of Pinellas County. The originally designed foundation system utilized auger cast piles. The new foundation system was designed utilizing the following: augered displacement piles, cast-in-place concrete pile caps, reinforced concrete grade beams, concrete elevator pit walls, and pile supported mat foundations. Based on a geotechnical investigation and pile installation reports regarding site conditions, calculations for the foundation system were performed for the pile layout and spacing, grade beam design, and elevator pit design based on the column load tables and drawings provided. BillerReinhart prepared construction documents (drawings and specifications) for the foundation system, performed site visits, and reviewed shop drawings and structural submittals during the project's construction phase.

Education

Lithia Springs Elementary School, Valrico, Florida

Principal in Charge/Project Manager - prepared design drawings, specifications and bid documents for the restoration and waterproofing of deteriorated precast concrete walkway slabs for this 2-story school building. BillerReinhart assisted the client and owner during the bidding phase of the project to select a contractor to perform the restoration work. BillerReinhart also performed construction administration services including: conducting site visits during the restoration work to observe construction progress, submitting reports documenting the work, and reviewing contractor pay requests.

Glover School, Plant City, Florida

Principal in Charge/Project Manager - performed a condition survey of the discernible structure elements of this historical timber framed structure. The building is to be restored to its original condition for use as a community center. BillerReinhart generated a report to document our findings and recommend necessary repairs for the structure. A repair scope of work and schematic drawings were prepared for cost estimating by a contractor.

Hillsborough County Public Schools, Florida

Principal in Charge/Project Manager - provided structural engineering consulting for the School Board of Hillsborough County on small restoration/modification projects. Services included condition surveys, design of buildings, preparation of reports, and preparation of design and/or repair documents.

Government

Park Trammell Building, Tampa, Florida

Principal in Charge/Project Manager - prepared design drawings and specifications for the restoration of deteriorated post-tensioned reinforced concrete columns at the 9-story office building. BillerReinhart also performed construction administration services including conducting site visits during the restoration work to observe construction progress and submitting reports documenting the work to the client and building code official having jurisdiction.

Hotels/Hospitality

Holiday Inn Peoria City Centre, Peoria, Illinois

Principal in Charge/Project Manager – prepared design drawings and specifications and bid documents for the exterior painting and waterproofing of the hotel structure. The existing hotel property consists of a 9 story guest tower, 6 story guest tower, indoor pool building, and restaurant building. BillerReinhart performed a condition survey to observe the building's exterior perimeter surfaces and prepared construction documents; bid documents and specifications based on the results of the survey. BillerReinhart assisted the client and owner during the bidding phase of the project to select a contractor to perform the restoration work and performed various construction administration services including: attending project-related meetings, conducting site visits to observe construction progress, and submitting reports documenting the work to the building code official having jurisdiction over the project.

Mariner Beach Club, St. Petersburg, Florida

Principal in Charge/Project Manager - prepared design drawings and specifications and bid documents for the exterior renovation and restoration of the two 2-story

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timeshare buildings. The project includes the following: removal and replacement of exterior elevated walkways, exterior stairs, balconies, and patio and walkway slabs at grade; restoration and strengthening of exterior masonry walls, resurfacing of exterior masonry walls (new stucco finish and coating application), restoration of existing concrete beams and slabs, removal and replacement of timber beach shelter structures, specification of sealants, expansion joints, and waterproofing membranes; removal and replacement of doors, windows, and sliding glass doors; removal and replacement of guardrail systems, repair and reconfiguration of roof mansard structures, removal and replacement of existing fencing, construction of drainage improvements, application of pavement overlays, and implementation of mechanical and electrical upgrades. Assisted the client and owner during the project's bidding phase to select a contractor. Performed construction administration services that include the following: conducting site visits to observe construction progress, submitting reports documenting the work to the client and building code official having jurisdiction, attending weekly project meetings, and reviewing contractor payment applications.

Steak 'n Shake Restaurants, Various Locations, Florida

Principal in Charge/Project Manager - performed structural design for prototype buildings taking into consideration location-appropriate wind speeds. The construction of the prototype structure is comprised of the following: cast-in-place concrete foundations and floor slab on grade, reinforced concrete masonry unit or timber framed exterior walls and pre-engineered metal plate connected timber roof trusses. BillerReinhart prepared construction documents (drawings and specifications) for the various prototype buildings, reviewed shop drawings and submittals regarding structural work, and performed site visits during construction to observe progress.

Coconut Grove Doubletree Hotel, Miami, Florida

Principal in Charge/Project Manager - prepared design drawings, specifications and bid documents for the restoration of deteriorated reinforced concrete parking deck slabs, retaining walls, and elevated pool structure. Project also included balcony guardrail repair, waterproofing, window replacement, and supplemental window anchorage for the 17-story hotel structure. BillerReinhart assisted the client and owner during the bidding phase of the project to select a contractor to perform the restoration work. BillerReinhart also performed construction administration services including: conducting site visits during the restoration work to observe construction progress, submitting reports documenting the work, and reviewing contractor pay requests.

Doubletree Hotel, Rockville, Maryland

Principal in Charge/Project Manager - prepared design drawings, specifications and bid documents for the restoration and partial removal and replacement of deteriorated reinforced concrete parking deck slabs for the hotel's 3-level parking structure. BillerReinhart assisted the client and owner during the bidding phase of the project to select a contractor to perform the restoration work. BillerReinhart also performed construction administration services including the following: conducting site visits during the restoration work to observe construction progress, submitting reports documenting the work, and reviewing contractor pay requests.

Bayport Plaza, Tampa, Florida

Principal in Charge/Project Manager - prepared design drawings, specifications and bid documents for the restoration and waterproofing of deteriorated precast concrete parking deck structures for the 4-level parking structure. BillerReinhart assisted the client and owner during the bidding phase of the project to select a contractor to perform the restoration work. BillerReinhart also performed construction administration services including the following: conducting site visits during the restoration work to observe construction progress, submitting reports documenting the work, and reviewing contractor pay requests.

Miami Hilton Downtown, Miami, Florida

Principal in Charge/Project Manager - prepared design drawings and specifications and bid documents for the restoration, waterproofing, and re-coating of the 25-story hotel structure. BillerReinhart assisted the client and owner during the bidding phase of the project to select a contractor to perform the restoration work.

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Adams Mark Hotel/Dayton Hilton/Daytona Beach, Florida

Principal in Charge/Project Manager - prepared design drawings and specifications and bid documents for the restoration of deteriorated reinforced concrete balconies for the 16-story south tower of the hotel complex. BillerReinhart assisted the client and owner during the project's bidding phase to select a contractor. BillerReinhart performed construction administration services including the following: conducting site visits during the restoration work to observe construction progress, submitting reports documenting the work to the client and building code official having jurisdiction, and reviewing contractor pay requests. BillerReinhart also performed site visits during the guardrail and sliding glass door replacement work to observe construction progress and submitted reports documenting the work to the client and building code official having jurisdiction.

Grand Hyatt Tampa Bay, Tampa, Florida

Principal in Charge/Project Manager - performed structural design and prepared construction documents (drawings and specifications) for various renovation and restoration projects at the hotel complex. Projects include the following: renovation/restoration of the Casitas, the vacation villas' timber-framed roof overhangs, structural strengthening and design of additional framing to accommodate the installation of new roof-mounted air-conditioning equipment for Oystercatcher's Restaurant, design of exterior wall modifications to accommodate the installation of new chillers and structural analysis of an existing steel support structure and design of additional framing members to accommodate the installation of new cooling towers.

Oceanfront Hotel Dock/Seawall, Ft Lauderdale, Florida

Principal in Charge/Project Manager - performed structural design and prepared construction documents (drawings and specifications) for the dock restoration program, including new dock design, existing concrete seawall restoration, and new sheet pile seawall design. The project involved coordination with civil and geotechnical engineering consultants.

Residential

Condominiums

Lakeview of Largo Condominiums, Largo, Florida

Principal in Charge/Project Manager - prepared design drawings and specifications and bid documents for the restoration of deteriorated reinforced concrete balcony and walkway slabs, roof mansard structures, and structural steel stairs at the 7-building condominium complex. BillerReinhart assisted the client and owner during the bidding phase of the project to select a contractor to perform the restoration work. BillerReinhart also performed construction administration services including the following: conducting site visits during the restoration work to observe construction progress, submitting reports documenting the work to the building code official having jurisdiction, reviewing contractor pay requests.

West 10 Apartments, Tallahassee, Florida

Principal in Charge/Project Manager - performed structural analysis services of building 2 in the apartment complex to provide the appropriate recommendations for repairing the structure after it experienced settlement. BillerReinhart performed a site visit to observe discernible structural elements and reviewed available construction documents (drawings and/or specifications) for the subject structure, as well as, the results of geotechnical investigation reports regarding site conditions and foundations. BillerReinhart prepared a report to document findings and make appropriate recommendations for repairing the structure.

Single Family

Horizon House, Tampa, Florida

Project Manager - performed structural design and prepared construction documents (drawings and specifications) for the additions and renovations for a single story residence constructed circa 1966. The structure is constructed of cast-in-place concrete foundations and floor slab on grade and pre-cast pre-stressed concrete roof slabs supported by pre-cast pre-stressed concrete channel beams. The channel beams span between reinforced concrete masonry unit walls. An analysis was performed on existing structural components to estimate their capacities for adding a

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second story. Building additions included a second story, a carport and a storage structure. The renovation includes cutting a portion of a channel beam for a stairway access to the second floor area.

Healthcare

Brandon Regional Hospital, Brandon, Florida

Principal in Charge/Project Manager - performed Threshold Inspector duties as per Chapters 471 and 553 of the Florida Statutes for the pre-cast concrete parking garage structure and the structural steel heart center tower. BillerReinhart reviewed structural drawings, specifications, and submittals, performed site visits to observe project construction, and prepared reports documenting the work to the building code official having jurisdiction over the project.

Industrial/Manufacturing

Coca-Cola Foods, Auburndale, Florida

Project Manager/Structural Engineer – provided structural design for Coca-Cola Foods' citrus processing plant. Included design of structural steel equipment support, pipe rack structures, reinforced concrete foundation, slab, and sump structures.

CITGO, Lake Charles, Louisiana

Structural Engineer – provided structural design for one of CITGO's oil refineries. Included design of structural steel equipment support, pipe rack structures, reinforced concrete foundation, and slab structures.

Sun Oil Company (Sunoco) Waste Water Treatment Plant, Toledo, Ohio

Structural Engineer – provided structural design for one of Sunoco's waste water treatment plants. Included design of structural steel equipment support, pipe rack structures, reinforced concrete foundation, and slab structures.

U.S. Agri-Chem (USAC), Fort Meade, Florida

Project Manager/Structural Engineer – provided structural design for this fertilizer/phosphate processing plant. Included design of structural steel equipment support, pipe rack structures, reinforced concrete foundation, slab, and sump structures.

Breed Automotive Propellant Processing Inflater Assembly Facility, Lakeland, Florida

Structural Engineer – provided design of a structural steel and reinforced concrete explosion resistant, pressure-relieving building. Other structural design components included structural steel equipment support structures, reinforced concrete foundations, slabs, trenches and sumps for contaminated water collection and storage.

Shell Chemical, Lakeland, Florida

Structural Engineer – provided design of structural steel equipment support, pipe rack structures, reinforced concrete foundation and slab structures for a chemical plant.

Forensic Evaluations/Expert Witness Consulting

Mr. Biller serves as a consultant for legal issues involving buildings and other structures, including structural failures, building settlement related damage, sinkhole losses, storm/wind damage, insect damage, fire damage, and vehicular impact. BillerReinhart performs such tasks as site assessments, report preparation, structural analysis, structural design, deposition testimony, appraisal hearing testimony, and trial testimony.