

C. WILLIAM BREWER, P.E.  
Civil Engineer

Over three decades of experience with large-scale engineering, construction, and real estate/community development projects. Licensed as a Professional Engineer with expertise in real estate acquisitions and due diligence, strategic planning, entitlement, land use, permitting, land planning, civil engineering, design process management, heavy/civil construction, general/building construction, management, design-build, land development, and master planned community development. Provided leadership and expertise integral to the success of high profile and environmentally sensitive master-planned community development projects in the southeastern United States.

Also has decades of experience in athletics as competitor, coach, official, team director, volunteer and event organizer as well as in athletic and recreation facility design and construction.

## PROFESSIONAL EXPERIENCE

2008 to present **Robson Forensic, Inc.**  
*Associate*

Provide technical investigations, analysis, reports, and testimony toward the resolution of commercial claims and personal injury litigation involving construction practices, premises and construction site safety, civil engineering, construction, project management, real estate acquisitions and development, strategic planning, land planning, permitting, failure analysis, bicycle crashes, athletic facilities and activities.

### **Land Development/Community Development:**

- Entitlements, feasibility analysis, permitting, and development agreements
- Land acquisition, land planning, green field development, redevelopment and infill development
- Site development, infrastructure, roads, water distribution, wastewater collection, and storm water management systems, dry utility systems

### **Heavy/Civil Construction:**

- Trench safety, shoring, pipe laying, excavation, and open caisson construction
- Crane hoisting, lifting, construction equipment
- Demolition, deconstruction, concrete recycling
- Earthwork and grading, lake/lagoon/pond excavation and dredging, blasting and vibration, dewatering, dynamic and surcharge compaction, wick drains, erosion and sedimentation control,
- Dewatering, sheet piling, open caissons,
- Pump station, treatment plant and deep injection well construction, pipelines
- Roadways, bicycle and pedestrian facilities, traffic signals, signage and lighting
- Quarry permitting and operation

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**General Construction:**

- Low and mid-rise residential and commercial construction
- Precast concrete fabrication and erection, concrete, formwork, shoring
- Structural renovation and remodeling
- Renovation, asbestos abatement, demolition and deconstruction
- Construction defects

**Environmental and Land Use:**

- PUD zoning, site planning, platting, permitting, historic renovation SHPO coordination
- Wetland permitting, mitigation, creation and restoration
- FEMA FIRM LOMR
- Timber management and Silva culture
- Phase I Environmental Site Assessment, ACM abatement/NESHAP compliance, UST removal, fuel contaminated soil remediation
- Wetland permitting, mitigation, creation and restoration
- Environmental permitting, endangered species, Phase I ESA, ACM/NESHAP compliance, timber management and Silva culture, UST removal, air quality permitting, NPDES & SWPPP compliance

**Project Management:**

- Construction safety, CPM scheduling, cost estimating, value engineering, delay claims, and change order analysis

**Special Projects:**

- Community parks, regional parks, playgrounds
- Recreation facilities, aquatics facilities, and athletic facilities
- Leisure facilities including natural preserves, walking and fitness trails
- Community recreation centers, playgrounds, gymnasiums, school facilities
- Sports lighting, glare and noise control, landscaping, aquatic features & fountains
- Sports and athletic fields, courts, and facilities
- Golf course construction

2007 to  
present

**Murphy Environmental & Land Management, LLC**

*Vice president – Project Manager*

Provide project management services for Murphy Environmental & Land Management, LLC, which specializes in site/civil development and infrastructure construction including: earthmoving, excavation, grading, site clearing, dewatering, demolition, rock slide stabilization, storm water management systems, site drainage, water, sewer, road building and quarry operation in addition to environmentally sustainable heavy construction, services including green waste reduction, deconstruction, erosion control and site stabilization, concrete crushing and recycling.

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- 2007 to present **C. William Brewer, P.E.**, Hilton Head Island, SC  
*Project Management Consultant*  
Provide project management services for all phases of construction and community development: acquisition due diligence, entitlement, claims documentation, dispute resolution, cost estimating, scheduling, strategic planning, design program and project management, environmental compliance, project close out, and community development planning services.
- 2002 to 2007 **Picerne Military Housing**, Fort Bragg, NC  
*Development Director*  
Picerne Military Housing is a leader in the privatization of family housing in partnership with the United States Army under the Residential Communities Initiative (RCI) program. The Fort Bragg RCI program provides for the ownership, operation, maintenance, renovation and/or replacement of over 5,578 homes serving military families on Fort Bragg. Provided market-grade new, replacement and renovated family housing while maintaining housing availability and occupancy levels.
- Directed preparation of the construction and development volume of the Community Development and Management Plan for the program – received congressional approval on May 1, 2003. Responsible for design including all new home, renovation and redevelopment plans, site plans and engineering; as well as for all site development, utility systems and service agreements, entitlement and permitting.
- Successes and accomplishments:
- Directed environmental due diligence and permitting for program real properties, subsequent acquisitions and refinancing.
  - Led the design and environmental permitting processes for the acclaimed 1,100-acre Linden Oaks community at Fort Bragg including 1,600 homes, commercial sites, security, schools, recreational amenities and environmental preserves.
  - Negotiated special utility service agreements and obtained necessary system operation approvals to provide service to the Linden Oaks community.
  - Delivered 1,150 home sites.
- 2000 to 2002 **C. William Brewer, P.E.**, Hilton Head Island, SC  
*Project Management Consultant*  
Provided acquisition and project management expertise to **Ecological Investments, LLC**; developer of Butterfly Kingdom. This project was a visionary environmentally focused commercial/education/entertainment destination being developed in Jasper County, South Carolina. Drafted the Planned Unit Development (PUD) ordinance and successfully completed the acquisition and entitlement of this complex project, securing approvals from municipal, county, and state agencies.

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Served as advisor to the management of the **Oakview Group, LLC**, developer of The Neighborhoods at OakView community on Hilton Head Island, SC. Directed development of advertising collateral, developed program for site enhancements and assisted management in the development of pricing strategies.

Furnished project management expertise to **I-95 Properties, LLC**; developer of the proposed Gateway Crossings PUD. Provided strategic business and community development planning for proposed planned unit development in Hardeeville, SC.

1997 to  
2000

**Del Webb Communities, Inc.**, Bluffton, SC  
*Vice President - Land Development*

Del Webb (now a subsidiary of Pulte Homes) is the nation's leading developer of active adult communities. Sun City Hilton Head (SCHH) is a 5,600-acre master planned community with two golf courses, delivering 450 homes per year and planned for 8,625 homes. Challenges included storm water management, utility infrastructure requirements, weather sensitive soils, environmentally sensitive area, scarce human resources and a limited contractor base.

Responsible for all land planning and engineering, preparation of land, construction and coordination of major infrastructure including bridges, electric power system, gas transmission pipelines water and sewer, subdivision improvements, golf course(s), special projects, community and residential landscaping. Managed staff of 81 and an annual budget in excess of \$20,000,000. Member of site Executive Management Team responsible for product development, and strategic planning of Sun City Hilton Head.

Successes and accomplishments:

- Coordinated the land development and engineering phases of due diligence for the acquisition of the Spruce Creek Company near Ocala, Florida.
- Developed comprehensive timber and soil management and utilization plans.
- Reduced developed lot costs by 32%. Developed and implemented operating plan for an in-house heavy construction division.
- Delivered 1,300 lots and achieved coordinated delivery of developed home sites ahead of sales.
- Responsible for the design and construction of the landmark US 278 Bridge.
- Resolved major drainage issues and upgraded storm water management plan for the 100-year design storm, while maintaining water quality.
- Water quality best practices recognized by SCOCRM as model for other developers.
- Upgraded community landscaping standards for SCHH.
- Improved coordination and cooperation with environmental agencies, and utilities.
- Assembled and developed a strong Land Development project team.
- Developed and implemented a coherent signage program.
- Managed construction of the Hidden Cypress golf course.

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1988 to **Arvida/JMB Partners**, Weston, FL

1997 *Director - Development/Engineering*

Managed the engineering and land development of Weston, Arvida's 10,000-acre 17,250-unit "Hometown" that incorporated as a city in 1996. From 1,000 to 1,300+ homes were delivered annually. Blasted, excavated and transported in excess of 1,000,000 cubic yards of earth per month. Directed the planning and construction of extensive infrastructure in an environment of wetland permitting, complex regulations, and high sensitivity to the environment.

Directed comprehensive engineering and land planning, contract administration, mass earthmoving, infrastructure planning, pipelines and 'dry' utilities system, site improvement, and special project functions. Coordinated with public agencies and units of government including the Indian Trace Community Develop District (ITCDD), City of Weston, Broward County, and the State of Florida. Managed annual budgets of up to \$40,000,000.

Successes and accomplishments:

- Member of team evaluating potential real estate acquisitions and performing feasibility analyses for real estate developments.
- Planned and delivered over 8,000 home sites and over 500 acres of commercial, recreational, institutional and educational uses. Prepared site-specific PUD ordinances for successive phases.
- Key member of the team planning the creation or enhancement, and preservation of over 1700 acres of wetlands. Directed extensive geotechnical, hydrogeological and biological research.
- Directed extensive multiyear study of blast vibration effects on residential structures. Directed proactive technical analysis, documentation and effective public education program of the effects of construction blasting.
- Optimized ITCDD participation and financing of major infrastructure (water, sewer, storm water management and arterial roadway systems).
- Managed construction of Weston Hills Country Club golf courses.
- Directed special projects including the renovation and expansion of the Athletic Club at Weston, and the design and construction of neighborhood parks and recreational facilities including the 42-acre Tequesta Trace Park.
- Restructured earthwork methods and contracts resulting in reduced costs; increased fill yield and recovered \$5.3 million credit for earthwork from the ITCDD.
- Drafted unprecedented security licensing agreement with Broward County; replaced \$15,000,000 of out-standing bonds and eliminated the need for \$70,000,000 of future bonds.
- Planned and delivered modular elementary school complex in 9 weeks.

THE EXPERTS  
**Robson Forensic**

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1984 to 1988 **F.W.D.C., Inc.** (a subsidiary of Cenvill Development Corp.), Pembroke Pines, FL  
*Vice President and Project Manager*  
Century Village at Pembroke Pines is a 750 acre 7,250 unit condominium retirement community in Pembroke Pines, Florida. Sales ranged from 400 to 900 units annually. Mid-rise residential buildings were constructed of precast concrete that was fabricated on site and erected by an in-house division.

Responsibilities included building design and construction, preparation and erection of precast concrete, utilities and pipelines, site planning and land development. Responsible for the preparation of engineering feasibility studies and due diligence evaluations of various real estate projects undertaken by Cenvill Development. Provided technical support to other Cenvill projects. Managed annual budgets of \$20,000,000 and a staff of 70.

Successes and accomplishments:

- Prepared reports and performed due-diligence analysis for acquisitions and entitlements for commercial properties.
- Directed the design, value engineering, and construction of an on-site 4 MGD wastewater treatment plant and an 8 MGD deep well injection system.
- Managed the design and construction of 1,100 mid-rise condominium units.
- Completed the construction of a 130,000 square foot recreation facility including 1,100-seat theater.
- Directed emergency structural renovation of Century Village at West Palm Beach clubhouse.
- Represented building industry on county fire code drafting and enforcement committee.

1983 to 1984 **Keith and Schnars, P.A.**, Fort Lauderdale, FL  
*Civil and Structural Engineering Project Manager*  
Keith and Schnars provide planning, civil, structural, environmental, surveying and geotechnical services to public and private clients throughout Florida.

Responsible for a variety of civil and structural projects including site work for additions to buildings at the University of South Florida, utility pipeline and drainage projects, structural elements for the Sawgrass Expressway, and private site developments. Construction experience was well utilized in value engineering and constructability review.

1977 to 1983 **Lanzo Construction Co., Florida**, Pompano Beach, FL  
*Project Manager*

The Florida division of Michigan based Lanzo Construction specializes in pipeline and related heavy construction and also constructed a variety of master pumping stations, and water/wastewater treatment plants.

Responsible for project management, estimating, scheduling, and purchasing for multi-million dollar pipeline, roadwork, master pump station and treatment plant projects. Designed various project elements including: sanitary sewers, open caissons, shoring, and dewatering systems.

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## **ADDITIONAL ACTIVITIES & SPECIAL PROJECTS**

Community and Regional Parks, athletic fields, aquatics facilities, track & field facilities, golf courses, tennis courts, sports lighting, bicycle facilities, leisure facilities including natural preserves, walking and fitness trails, playgrounds, gymnasiums, community centers, swimming pools, proscenium stage theater, temporary school facilities, bridges, wastewater treatment plant; 3500-foot deep injection well, etc.

## **ATHLETIC FACILITIES**

Has consulted on and managed the design, design-build and/or construction of athletic and recreational facilities including the following examples:

- Conversion from 440-yard and survey layout of the University of Connecticut 400m track, Storrs, CT
- Tequesta Trace Park athletic complex including 400m track & field event, baseball/softball and roller hockey facilities, Weston, FL
- Neighborhood playgrounds, recreation complexes and community centers.
- Independence Bay community center (Deerfield Beach, FL) design included decorative pools as well as swimming pool
- T-Y Park natural pool facility pumping equipment modifications
- Century Village at Pembroke Pines, FL community indoor and outdoor short course lap pools and neighborhood pools
- Century Village (WPB, FL) structural renovation of indoor pool facility
- Centura Park community center Pompano Beach, FL (outdoor pool facility)
- Weston, FL various pools including: short course competition pool and indoor spa renovation (Athletic Club at Weston), lap pool Weston Hills CC and neighborhood pools
- Sun City Hilton Head (Bluffton, SC) various community athletic facilities and pools
- Fort Bragg, NC Family Housing Neighborhood Centers including fitness facility and lap pool design
- Hardeeville, SC for Ecological Investments coordinated design program for Butterfly Kingdom project including proposed decorative pools and water park
- Golf courses: Weston Hills Country Club, Century Village at Pembroke Pines and Hidden Cypress at Sun City Hilton Head
- Other athletics and recreational facilities including: basketball and tennis courts, playgrounds, boardwalks and docks, bicycle facilities and multipurpose leisure trails, gymnasiums, weight training facilities, etc.

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**ATHLETIC BACKGROUND (AS PARTICIPANT, COMPETITOR AND/OR COACH)**

- Running, track & field, road racing, triathlon/duathlon, swimming, open water swimming, cycling, soccer, gymnastics, weight training, skiing (Alpine and Nordic), sailing, rock and ice climbing, football.
- Skill clinics: running, swimming and cycling.
- US Power Squadron boating safety and piloting, lifelong experience with sail and power boat operation.
- Participated in a pilot program for masters athletes as resident athletes at the Olympic Training Center at Colorado Springs, CO (1997).
- Competitive triathlete (USA Triathlon licensed over 30 years) and cyclist (USA Cycling licensed since 1997).
- Participant in charitable organization fund raising rides and cycling events.
- Founder and manager of a USA Cycling licensed cycling club team.
- Participant in cycling team training camps

**ATHLETIC BACKGROUND (AS OFFICIAL, EVENT COORDINATOR OR DIRECTOR)**

- Track and field, Triathlon/Duathlon and road racing event coordination including training and utilization of volunteer officials, judges, timers, and participants; responsible for safety of participants, officials and attendees.
- Event planning and promotion: triathlon/duathlons, road races, and bicycle races.

**PROFESSIONAL CREDENTIALS**

Professional Engineer: NCEES, Alabama, Connecticut, District of Columbia, Florida, Georgia, Iowa, Maryland, Michigan, Minnesota, Nevada, New Mexico, New York, North Carolina, Ohio, Pennsylvania, South Carolina, Texas, Virginia  
Pilot: Single Engine Land, Instrument Rated, High Performance Endorsement  
Certified XL Tribometrist

**EDUCATION**

B.S., Civil Engineering, University of Connecticut, Storrs, Connecticut, 1977



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*Continuing Education:*

Pedestrian Safety on Arterial Streets, UNC PBIC, FHWA, 2021  
Improving Traffic Signals for Bicycling and Walking, UNC PBIC, FHWA, 2021  
Statewide Action Plans for Bicyclist and Pedestrian Safety, UNC, PBIC, FHWA, 2021  
The Basics of Bikeway Selection at Intersections and with Parking, UNC, PBIC, FHWA, 2021  
A Simple Guide to Contract Documents for Contractors and Subcontractors, AIA, 2021  
NHI-142080 Bicycle Facility Design, NHI/FHWA, 2021  
MPO and DOT Partnership for Complete Streets Projects, UNC PBIC, FHWA, 2020  
Going Dutch: Translating Dutch Cycling Ideas to an American Context, UNC PBIC, FHWA, 2020  
Evaluating Road Diets: Recent Research and Case Studies, UNC PBIC, FHWA, 2020  
Update on the Clean Water Act, FES/ACEC, 2020  
Developing and Delivering Pedestrian Safety Projects, UNC PBIC, FHWA, 2020  
Controlling and Preventing Cracks in Concrete Flatwork - American Concrete Institute, ACI University, 2020  
STEP UP Campaign for Pedestrian Safety, UNC PBIC, FHWA, 2020  
Enhancing Mobility, Access and Safety for Pedestrians (Part I), UNC PBIC, FHWA, 2020  
Enhancing Mobility, Access and Safety for Pedestrians (Part II), UNC PBIC, FHWA, 2020  
Construction Safety: Excavation & Trenching, AASHTO Transportation Curriculum Coordinating Council, 2020  
Construction Safety: Working Safely in Work Zones, AASHTO Transportation Curriculum Coordinating Council, 2020  
Construction Safety: Earthmoving Equipment and Motor Vehicles, AASHTO Transportation Curriculum Coordinating Council, 2020  
Preparing and Implementing Construction Site Storm Water Pollution Prevention Plans, ASCE, 2019  
Improving the EPA Multi-Sector General Permit for Industrial Stormwater Discharge, 2019  
Improving Intersection Safety for All Road Users, UNC PBIC-FHWA, 2019  
Designing and Implementing Separated Bikeways, ASCE, 2019  
The Analysis and Quantification of Construction Delays, ASCE, 2019  
Innovative Bicycle Facility Treatments, ASCE, 2019  
Improving Intersection Safety for All Road Users, U.S. Department of Transportation Federal Highway Administration, 2019  
Improving Pedestrian and Bicyclist Safety in Work Zones, U.S. Department of Transportation Federal Highway Administration, 2019  
ITE - Smart Columbus Program: Safety Management Plan, 2019  
Designing for Bicyclist Safety, FHWA & UNC Pedestrian and Bicycle Information Center webinar, 2019  
Ethical Decision Making for Engineers #3, RedVector, 2018  
Creating an Effective and Sustainable Safety Culture, EHS Today, 2018  
AIA Contract Documents - Fall 2018 Release: Master Agreements, AIA, 2018  
The Human Factor in OSHA Enforcement and Compliance, EHS Today, 2018  
OSHA in the Supply Chain— How Far Does Your Liability Extend? EHS Today, 2018  
Multiple Threat Crash, UNC PBIC-FHWA, 2018  
Conducting Bicycle Road Safety Audits, UNC PBIC-FHWA, 2018

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Hydrologic Trespass and Nuisance Considerations in Stormwater Management Design, ASCE, 2018

Using Crash Types to Understand Pedestrian and Bicyclist Safety, UNC PBIC-FHWA, 2018

Safety Performance Measures for Pedestrians and Bicyclists, UNC PBIC - FHWA webinar, 2017

Determining the Safety Impact of Bicycling and Walking Investments, UNC PBIC - FHWA Webinar, 2017

Contractor Safety Beyond Compliance: Modeling OSHA's Recommended Best Practices for Contractor Management, EHS Today Webinar, 2017

Contractor Safety Management, EHS Today Webinar, 2017

Addressing Speed-Related Crashes with a Focus on Protecting Children, UNC PBIC-FHWA, 2017

Making Signals Work for Bicyclists and Pedestrians, FHWA and the Pedestrian and Bicycle Information Center, 2017

Maintenance of Drainage Features for Safety, AASHTO Transportation Curriculum Coordinating Council, 2017

Prevent Safety Liability at Multi-Employer Worksites, presented by EHS Today, 2017

Incorporating Bicycle Networks into Resurfacing Projects, UNC-FHWA-PBIC, 2017

Designing for Bicycle Safety Part III, UNC-FHWA-PBIC, 2017

Designing for Bicycle Safety Part II, UNC-FHWA-PBIC, 2017

Designing for Bicycle Safety Part I, UNC-FHWA-PBIC, 2017

Getting from Vision Zero Plan to Vision Zero Progress, UNC-FHWA-PBIC, 2017

Pedestrian and Bicycle Count Programs Part II, UNC-FHWA-PBIC, 2017

Pedestrian and Bicycle Count Programs Part I, UNC-FHWA-PBIC, 2017

Southeast Bicycle Symposium, Hilton Head Island, SC, 2017

A New Life for Urban and Suburban Arterials, The Urban Land Institute, 2017

Strategies for Compliance with OSHA's Final Walkway - Working Surfaces and Fall Protection Standards, ASSE, 2017

Shopping for Trouble: Detecting and Mitigating Pedestrian Accident Risks in Retail Parking Lots, CLM webinar, 2017

Guardrail Series: Guardrail Basics, AASHTO Transportation Curriculum Coordinating Council, 2016

Fundamentals of Geosynthetic Materials, AASHTO Transportation Curriculum Coordinating Council, 2016

Separated Bike Lanes Part II – Design Considerations for Separated Bike Lanes, FHWA & Pedestrian and Bicycle Information Center webinar, 2016

Separated Bike Lanes Part I – Planning for Separated Bike Lanes, FHWA & Pedestrian and Bicycle Information Center webinar, 2016

Walk Friendly Communities – Inspiring and Celebrating Your City's Vision for Walkable Streets, FHWA & Pedestrian and Bicycle Information Center webinar, 2016

Understanding Roles, Risks and Responsibilities: Explore the AIA Contract Documents Teaming Agreement, AIA webinar, 2016

Active Transportation and Real Estate - The Next Frontier, webinar, the Urban Land Institute, 2016

What the U.S. can learn from international efforts to improve pedestrian and bicycle safety, FHWA Pedestrian and Bicycle Information Center webinar, 2016

Ethical Decision Making for Engineers #2, RedVector webinar, 2015

Complete Streets – An Introduction to the Design of Complete Streets, RedVector webinar, 2015

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Complete Streets – An Introduction to the Complete Streets Concept, RedVector webinar, 2015  
Basic Stormwater Pond Design, RedVector webinar, 2015  
Basics of Water Resources: Groundwater Hydrology, RedVector webinar, 2015  
Professional Standard of Care: Proof and Defense, RedVector webinar, 2015  
Building Pathology: Site Drainage Problems, RedVector, 2015  
ADA Tolerances and Acceptable Measurements, AIA webinar, 2015  
Mixed-use and Urban Redevelopment - Two Case Studies, Urban Land Institute webinar, 2015  
Smart Safety Design to Prevent Slips, Trips and Falls, Engineering News Record (ENR) webinar, 2015  
Measuring the Economic Impact of Nonmotorized Transportation, University of North Carolina Highway Safety Research Center - Pedestrian and Bicycle Information Center, FHWA, 2015  
Road Diets: Improving Safety for All Road Users, University of North Carolina Pedestrian and Bicycle Information Center/FHWA, 2015  
Bicycle Safety Guide and Countermeasure Selection System (BIKESAFE) Webinar, FHWA Pedestrian and Bicycle Information Center, 2015  
A Resident's Guide for Creating Safer Communities for Walking and Biking, University of North Carolina Pedestrian and Bicycle Information Center/FHWA, 2015  
ActiveTrans Priority Tool: A Model Methodology for Prioritizing Pedestrian and Bicycle Improvements on Existing Roads, University of North Carolina Pedestrian and Bicycle Information Center, 2014  
English XL Variable Incidence Certification, 2014  
Designing for Older Users, University of North Carolina Pedestrian and Bicycle Information Center/FHWA, 2014  
Crash Reconstruction as an Element of Risk Management, Institute of Transportation Engineers Educational Institute, 2014  
How to Create a Bicycle Safety Action Plan: Off-Road Facilities, University of North Carolina Pedestrian and Bicycle Information Center, 2014  
How to Create a Bicycle Safety Action Plan: On-Road Facilities, University of North Carolina Pedestrian and Bicycle Information Center, 2014  
How to Create a Bicycle Safety Action plan: Planning for Safety, University of North Carolina Pedestrian and Bicycle Information Center/FHWA Livable Communities Webinar Series, 2014  
Roadside Landscaping and Safety, FHWA & Pedestrian and Bicycle Information Center webinar, 2014  
Fundamentals of Helical Anchors/Piles, SunCam, Inc., 2014  
Statewide Complete Streets: How states are working with communities for friendlier roads, FHWA & Pedestrian and Bicycle Information Center webinar, 2014  
Pedestrian Safety and the Highway Safety Improvement Program, FHWA & Pedestrian and Bicycle Information Center webinar, 2014  
Countermeasure Costs: Putting a price on pedestrian and bicycle infrastructure, FHWA & Pedestrian and Bicycle Information Center webinar, 2014  
Pedestrian/Bicycle Crash Investigation, Institute of Police Technology and Management, University of North Florida, Jacksonville, FL, 2013  
Pedestrian Safety Guide and Countermeasure Selection System Webinar, Pedestrian and Bicycle Information Center FHWA Pedestrian Focus Webinar Series, 2013  
Systematic Safety Project Selection Tool, Pedestrian and Bicycle Information Center, FHWA Pedestrian Focus Webinar Series, 2013

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Quality Control with UV CIPP Pipe and Culvert Liners, Forester University  
Webinar, 2013

Counting Bicyclists & Pedestrians, Institute of Traffic Engineers (ITE) Professional Development  
Program, [www.ite.org](http://www.ite.org), 2013

Traffic Control Plans (for Construction Work Zones), [www.SunCam.com](http://www.SunCam.com), 2013

AASHTO Bike Guide: Off-Road Facilities: Shared Use Path Design, Pedestrian and Bicycle  
Information Center, FHWA Pedestrian Focus Webinar Series, 2012

AASHTO Bike Guide: On-Road Facilities Part 1: Bike Lanes, Pedestrian and Bicycle Information  
Center, FHWA Pedestrian Focus Webinar Series, 2012

AASHTO Bike Guide: On-Road Facilities Part 2: Shared Lanes, Paved Shoulders, Bicycle  
Boulevards and Traffic Signals, Pedestrian and Bicycle Information Center, FHWA Pedestrian  
Focus Webinar Series, 2012

AASHTO Bike Guide: Off-Road Facilities: Shared Use Path – Roadway Intersection Design,  
Pedestrian and Bicycle Information Center, FHWA Pedestrian Focus Webinar Series, 2012

Project Management Basic Training, Florida Engineering Society ([www.fleng.org](http://www.fleng.org)), 2012

Basic Civil Engineering – Culvert Design (1), Red Vector Continuing Education, 2012

Basic Civil Engineering – Culvert Design (2), Red Vector Continuing Education, 2012

Design of Wick Drains, Red Vector Continuing Education, 2012

Asbestos Management, Red Vector Continuing Education/Chitester Management Systems, Inc.,  
2012

Heavy Construction Equipment Basics – Lifting, Red Vector Continuing Education, 2012

Corrugated Steel Pipe Durability, Red Vector Continuing Education, 2012

Ductile Iron Pipe, Red Vector Continuing Education, 2012

Heavy Construction Equipment Basics – Earthmoving & Excavating, Red Vector Continuing  
Education, 2012

HEC-RAS – Open Channel Flow Basics, Red Vector Continuing Education, 2012

Traffic Calming, Red Vector Continuing Education, 2012

Highway Rumble Strips, Red Vector Continuing Education, 2012

Preventing and Investigating Accidents, Red Vector Continuing Education, 2012

Tort Liability & Risk Management – Bicycle and Pedestrian Design, Red Vector Continuing  
Education, 2011

OSHA Demolition (Safety), Red Vector Continuing Education/Chitester Management Systems, Inc.,  
2011

ADA Guidelines: General Site and Building Elements, Red Vector Continuing Education, 2011

Green Design: Introduction to Sustainability and Measurement Systems, Red Vector Continuing  
Education/University of Tennessee, 2010

Green Design: Introduction to High Performance Building Design, Red Vector Continuing  
Education/University of Tennessee, 2010

Green Design: Introduction to Indoor Environmental Air Quality, Red Vector Continuing  
Education/University of Tennessee, 2010

Green Design: Perspectives on Innovation, Red Vector Continuing Education/University of  
Tennessee, 2010

Green Design: Designing Relationships to Nature, Red Vector Continuing Education/University of  
Tennessee, 2010

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Green Design: Levels of Complexity Theory, Red Vector Continuing Education/University of Tennessee, 2010

Green Design: Introduction to Integral Sustainable Design Theory, Red Vector Continuing Education/University of Tennessee, 2010

Green Design: Introduction to Sustainable Design Materials and Resources, Red Vector Continuing Education/University of Tennessee, 2010

Green Design: Introduction to Sustainable Sites, Red Vector Continuing Education/University of Tennessee, 2010

Green Design: Introduction to Sustainable Water Systems I, Red Vector Continuing Education/University of Tennessee, 2010

Green Design: Introduction to Indoor Environmental Air Quality, Red Vector Continuing Education/University of Tennessee, 2010

Green Design: Introduction to High Performance Building Design, Red Vector Continuing Education/University of Tennessee, 2010

Slope Stabilization and Rockfall Mitigation, Geobruigg, Asheville, NC, 2009

Basic Wind Loads 1: ASCE 7-05, Red Vector Continuing Education, 2009

Excavation Safety and Shoring – OSHA, Red Vector Continuing Education, 2009

Contract Guide for Design Professionals: Advanced, Red Vector Continuing Education, 2007

Construction Claims: Labor Productivity Loss, Red Vector Continuing Education, 2007

A/E's, Owners & Contractors: Managing Projects to Success, Red Vector Continuing Education, 2006

Environmental Site Assessments – ASTM & EPA, Red Vector Continuing Education, 2006

Business Management Part I; Part II The Business Plan & Part III Marketing & Financial Planning, Red Vector Continuing Education, 2004

Runoff Analysis Using the SCS Method – Part 1, Red Vector Continuing Education, 2004

Insurance for Construction Defects, Red Vector Continuing Education, 2004

Construction Law – Advanced, Red Vector Continuing Education, 2004

Basic Civil Engineering – Water Supply, Red Vector Continuing Education, 2003

Toxic Mold Detection, Prevention & Remediation, Red Vector Continuing Education, 2003

A Wetland Primer, Advanced: Field Evaluation & Permitting Considerations, Red Vector Continuing Education, 2003

A Wetland Primer for Design Professionals, CPM Scheduling Part I, Red Vector Continuing Education, 2003

Basic Civil Engineering – Asphalt, CPM Scheduling Part I, Red Vector Continuing Education, 2003

The Florida Building Code – Administrative Core Course, Chitester Management Systems, 2003

CPM Scheduling Part I, Red Vector Continuing Education, 2002

CPM Scheduling Part II, Red Vector Continuing Education, 2002

Environmental Compliance, CPM Scheduling Part I, Red Vector Continuing Education, 2002

ACI/PCA Building Code Seminar, 1996

Blasting Regulation Workshops, Broward County, FL, 1996

ACI Concrete Slabs on Grade Seminar, 1996

ACI/PCA Building Code Seminar, 1990

Seismic Monitoring Procedures, GeoSonics, Inc., Fort Lauderdale, FL, 1990

Advanced Permitting Workshop, Florida Engineering Society, Fort Lauderdale, FL, 1988

Basis of Review, Florida Engineering Society, Palm Beach, FL, 1987

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Florida Environmental Permitting Short Course, The Florida Chamber at the Florida State University Center for Professional Development, Tallahassee, FL, 1987  
Florida Environmental Permitting Short Course, The Florida Chamber at the Florida State University Center for Professional Development, Tallahassee, FL, 1986  
ACI 318 Building Code Requirements for Reinforced Concrete Seminar, 1984

## PROFESSIONAL MEMBERSHIPS

American Society of Civil Engineers (ASCE)  
Bicycle Advisory Committee, Hilton Head Island, SC  
Construction Institute of the American Society of Civil Engineers  
Florida Engineering Society (FES)  
National Society of Professional Engineers (NSPE)  
Palmetto Cycling Coalition  
Urban Land Institute (ULI)  
Beaufort County, South Carolina Comprehensive Plan Update Bicycle and Pedestrian Task Force

### *Past Affiliations:*

Member, National Association of Environmental Professionals  
Member, City of Margate, FL Unsafe Structures Board  
Member, Broward County, FL Fire Code Subcommittee  
Member, Broward County, FL School Board's Consultants Selection Committee  
Member, Builders Association of South Florida (BASF) Board  
Chair, BASF legislative committee (and various technical committees)  
Construction Specifications Institute  
American Concrete Institute  
American Water Works Association  
Affiliate (non-attorney) member, Environmental & Land Use Law section FL Bar Association

## PRESENTATIONS

*A Discussion on Bicycles, Equipment, and Trails and Why They Fail*, Florida Justice Association, March 2014  
*Bicycle Crashes, Hazards, and Investigations*, American Association for Justice, June 2013  
National Low Impact Development Conference, Wilmington, NC, 2007  
"It's a Blast," video technical writer and production, Weston, FL, 1996  
Blasting Effects and Regulations Seminar, Fort Lauderdale (Weston), FL, 1996

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**PUBLICATIONS**

Brewer, C. William, P.E., A Summary of the Effects of Blasting in South Florida. Weston, Florida, 1996 (Internal booklet prepared at Arvida – distributed to residents and public officials)  
Brewer, C. William, P.E., A Summary of Typical Design, Specification & Construction Conditions Which Affect Cracking in Concrete Slabs on Grade, Fort Lauderdale, FL, 1995  
Dowding, Charles H. and Brewer, C. William, P.E., Criteria for Safe Blasting as a Function of Distance, Fort Lauderdale, FL, 1994

**MEDIA**

Interview: Bicycle Safety, WTOC Savannah, GA 8/27/2017  
Interview: Bicycle Safety, WTOC Savannah, GA 3/24/2017