

David M. Shumer, P.E. Principal and Civil Engineer

Education: Bachelor of Science in Civil Engineering, May 1996
The University of Alabama

Professional Registration: Alabama P.E. #24109 (2001) Florida P.E. #57793 (2001)
Mississippi P.E. #15311 (2001) Louisiana P.E. #29816 (2001)

Professional Societies: American Society of Civil Engineers, Mobile Branch
President (2006-2007); Vice-President (2005-2006);
Secretary (2004-2005); Treasurer (2003-2004)

Significant Experience:

Mr. Shumer has more than thirteen years of civil engineering experience, including roadway, drainage, site design, subdivision development, and traffic studies. The following is a sample of some of the projects Mr. Shumer has worked on since joining Barton & Shumer Engineering, LLC (formerly Barton Engineering, LLC):

- ❖ ***Salvation Army, Women's & Children's, Mobile, Alabama, for Cummings Architecture –*** The project consisted of the construction of a new 11,500 square foot shelter. The design included developing a site layout/configuration, the site grading and drainage and coordination with the architect, contractor, and permitting officials.
- ❖ ***Sage Armory Renovations, Mobile, Alabama –*** The project consisted of the renovation of an existing armory warehouse for use as an office for the City of Mobile Parks & Recreation and Mechanical Departments.
- ❖ ***F.D. Richardson Heights Subdivision, Mobile, Alabama –*** The project consisted of the repair of the existing storm water infrastructure to bring up to City standards. The design included developing a repair plan, selection of a contractor and inspection during construction.
- ❖ ***Alabama Bulk Terminal, Mobile, Alabama –*** The project consisted of the construction of a new office building to replace a structure damaged during Hurricane Katrina. The design included developing a site layout/configuration, the site grading and drainage and coordination with the architect, contractor, and permitting officials.
- ❖ ***Great Oaks Veterinary Clinic, Mobile, Alabama, for Hall-McCormick & Associates, P.C. –*** The project consisted of the construction of a new veterinary clinic consisting of approximately 2,800 square feet.
- ❖ ***Comprehensive Pain & Rehabilitation Facility, Pascagoula, Mississippi, for Century Construction –*** The project consisted of the development of construction drawings for a new medical clinic/office building. The design included a site layout, grading and drainage and coordination with the city personnel.
- ❖ ***Paul's Restaurant, Fairhope, Alabama, for Paul Kadenhead –*** The project consisted of the development of construction drawings for a new restaurant. The design included developing a site layout/configuration, the site grading and drainage and coordination with the contractor, city and county officials.
- ❖ ***Brown Veterinary Clinic, Fairhope, Alabama, for Hall-McCormick & Associates, P.C. –*** The project consisted of the construction of a new veterinary clinic located within the planning jurisdiction of Fairhope, Alabama. The new structure will be approximately 3,300 square feet. Civil engineering services consisted of the development of the site drawings and construction

documentation for the new clinic, as well as the preparation and coordination of an Alabama Department of Transportation turnout permit.

- ❖ ***Animal Care Center West, Mobile County, Alabama, for Hall-McCormick & Associates, P.C.*** – The project consists of the construction of a new veterinary clinic located in Mobile County, Alabama. The new structure will be two stories and approximately 5,800 square feet. The clinic, including the site design, will be designed to easily accommodate equine patients.
- ❖ ***BankTrust Site Design, Fairhope, Alabama, for Hall-McCormick & Associates, P.C.*** – The project consisted of the development of the site drawings and construction documentation for a proposed BankTrust Bank building within the city limits of Fairhope, Alabama. The project was within a planned unit development (PUD) and was designed to meet the PUD requirements in addition to the requirements of the City of Fairhope.
- ❖ ***Bryant Bank, Daphne, Alabama, for Hall-McCormick & Associates, P.C.*** – The project consisted of the conversion of an existing 14,000-square-foot drug store into a commercial bank. Civil design services included the preparation of the site drawings and construction documentation associated with revising the site design to accommodate a commercial bank site, including the adjustment of existing parking and traffic flow.
- ❖ ***Metro Firearms Facility, Mobile County, Alabama, for Hall-McCormick & Associates, P.C.*** – The project consisted of the construction of a new masonry building at the Metro Firearms training facility for the law enforcement of the City of Mobile, Mobile County, and FBI. The new structure is approximately 3,400 square feet. Civil engineering services consisted of the development of the site drawings and construction documentation for the new facility.
- ❖ ***Loxley Commerce Center, Loxley, Alabama for Seaman Capital Real Estate, LLC*** – The project consisted of the design and preparation of construction documents for a 273,000 square foot warehouse/distribution center. The work included the development of circulation that included heavy truck traffic, drainage design and coordination with the Town of Loxley, Baldwin County and the Alabama Department of Environmental Management.
- ❖ ***Performance Contractors, Pipe Fabrication Shop, Mobile County, Alabama, for Chenevert Architects, LLC*** – The project consisted of the development of the site drawings and construction documentation for a proposed maintenance shop on a 9+ acre site. The site work included modifications to the entrance and grading around the new structure.
- ❖ ***Retail Development, Foley, Alabama, for Bowden Architecture*** – The project consists of the development of a new 15,000-square-foot retail development in Foley, Alabama. Civil engineering services include the development of site drawings and construction documentation for the site.
- ❖ ***Oakleigh Park Subdivision, Baldwin County, Alabama, for BJ's Residential Properties, LLC*** – The project consists of preparing the plat and construction drawings/documents for a seventeen (17) lot subdivision in unincorporated Baldwin County, Alabama. Preparation of the NOR for the NPDES permit and monitoring will be performed in addition to the construction management for the project. This project has been approved by the Baldwin County Planning Commission and is currently in the process of selecting a contractor.
- ❖ ***Source One Guard House, Mobile County, Alabama, for Source One/Sun Building*** – The project consisted of re-subdividing two parcels into a single parcel, correcting overlapping property descriptions with an adjacent property, and preparing a construction site plan for the guard house location. The re-subdivision included the preparation of a subdivision plat for approval by the Mobile County Planning Commission and Mobile County Engineer's office. The preparation of the construction site plan consisted of developing construction drawings for approval of the Mobile County Engineer's office to obtain a building permit.

Prior to joining Barton & Shumer Engineering, LLC, Mr. Shumer was employed with The LPA Group, Incorporated from April 2004 through November 2005, where he had the following experience:

- ❖ ***Addition of Bus Lanes at Mary G. Montgomery High School, in Semmes, Alabama, for Mobile County Commission/Mobile County School Board*** – This project consisted of the design of additional pavement for school buses to queue while waiting to drop off and pick up students, thereby reducing congestion on roadways adjacent to the school.
- ❖ ***Widening of SR 180, Orange Beach, Alabama, for the Alabama Department of Transportation*** – This project consisted of the widening of existing SR 180 from three lanes to five lanes from east of the Foley Beach Express to west of SR 161. Mr. Shumer was responsible for developing the plan assembly, including geometrics, drainage design, drainage documentation, and compiling the plan assembly up to the “Plan in Hand” submittal (November 2005).
- ❖ ***Widening of SR 35, Section, Alabama, for the Alabama Department of Transportation*** – This project consists of widening SR 35 from three lanes to five lanes with and without a median barrier wall. Mr. Shumer was responsible for developing the plans up to the thirty (30) percent submittal. Mr. Shumer also initiated the development of the drainage design and assembly of plans for the “Plan in Hand” submittal.
- ❖ ***Brookley Field Runway 14-32 Rehabilitation, Mobile, Alabama, for the Mobile Airport Authority*** – This project consisted of the resurfacing the asphalt portion of Brookley Field’s primary runway. The design of the overlay included calculations of existing and future elevations of the Centerline and Touchdown Zone lights, manipulating the cross-section to tie flush at crossing taxiways and Runway 18-36, and maintaining minimum drop-off while providing enough height at the shoulder to allow the runway to be widened by twenty-five feet on either side. Mr. Shumer was responsible for calculating the amount of adjustment required for approximately 270 flush-mounted centerline and touchdown lights. Mr. Shumer was also responsible for developing the profile and cross-sections that met FAA criteria while providing for future widening that would not impact work performed on the runway during this project.
- ❖ ***Gulfport-Biloxi Airport, Taxiway H Rehabilitation*** – This project consisted of the overlay of a previously abandoned taxiway to be used during the construction of an adjacent taxiway. Mr. Shumer was responsible for the development of the plan assembly, including demolition, signing, striping, and details. Mr. Shumer was also responsible for development of concepts with construction costs, conformance with FAA design criteria, and coordination with interested parties.
- ❖ ***Brookley Field Ramp Improvements, Mobile, Alabama, for the Mobile Airport Authority*** – This project consisted of revising a previously prepared plan set. Mr. Shumer was responsible for revising the concrete ramp grading and drainage for an interim construction that was compatible with existing and future grades. Mr. Shumer also acted as the construction inspector for a period of two weeks during the setting of drainage structures.
- ❖ ***Gulfport-Biloxi Airport, Ramp Expansion & Southwest General Aviation*** – This project consisted of the design of the ramp expansion for the main terminal and the expansion of the Southwest General Aviation. Mr. Shumer was responsible for the grading and drainage of the ramp expansion, as well as the drainage design for the Southwest General Aviation. Mr. Shumer was also responsible for the generation of the plan assembly and the development of the cost estimate.

Mr. Shumer was employed with Volkert & Associates, Inc. from December 1997 through April 2004. While employed by Volkert, Mr. Shumer gained more than six years of experience in civil engineering projects. Specific project experience includes:

- ❖ ***Coleman Dairy-Cuss Fork Roadway Design, Mobile, Alabama, for Mobile County Commission*** – The project consisted of paving two dirt roads, for a total of 2.6 miles in length, as part of the Mobile County Commission’s Pay-As-You-Go Program. Specific project tasks included the analysis and design of horizontal and vertical geometry, the analysis and design of pre- and post-construction drainage, design of a site-specific erosion control plan, development of a traffic control plan, calculation of quantities, preparation of a cost estimate, and preparation of contract documents.
- ❖ ***Huntsville Southern Bypass Preliminary Design, Huntsville, Alabama, for the Alabama Department of Transportation*** – The project consisted of a corridor study for a new, fifteen-mile, limited-access, four-lane facility known as the Southern Bypass in Huntsville, Alabama. The study area for the new bypass encompassed a forty-square-mile tract from Memorial Parkway near Hobbs Island Road to I-565 at Patton Road and consisted of 1,500 acres of wetland delineation and groundwater recharge areas. Mr. Shumer was responsible for the preliminary design and layout of the Martin Road, Memorial Parkway, Hobbs Road, Weatherly Road, Toftoy Throughway, and Rideout Road interchanges with the Southern Bypass mainline.
- ❖ ***Birmingham City Center Circulation Study for the City of Birmingham, Alabama*** – The project consisted of a capacity analysis of approximately 80 intersections, determination of current volumes, evaluation of improvement scenarios, and recommendations for improvements. Mr. Shumer was responsible for assisting in determining the efficiency of intersections using Signal94 and TRAF/NETSIM and developing possible solutions for deficient intersections within the study area.
- ❖ ***NCAAT Test Track Drainage and Plans Production, Auburn, Alabama, for Auburn University*** – The project consisted of the design of a 1.87-mile, oval pavement test track, including entrance and exit ramps, a parking facility for trucks and vehicles, and an access road to the facility off CR 148. Mr. Shumer was responsible for completing the drainage design and analysis and preparing final plans.
- ❖ ***Alabama State Port Authority Entrance Improvements, Mobile, Alabama*** – The project involved designing improvements that would increase the capacity at the main entrance to the Alabama State Port Authority. The project included the design for adding lanes and re-aligning the entrance, location of the guard houses, rail modification, striping, and signage. Mr. Shumer was responsible for traffic analysis and layout and design of the proposed improvements.
- ❖ ***University of South Alabama Transit Project, Design of Roadways and Implementation of Shuttle System, Mobile, Alabama*** – The project consisted of the design of new shuttle paths (roadways) throughout the University of South Alabama campus to accommodate the new shuttle system recently implemented. Mr. Shumer was responsible for revising the design of the roadways as construction proceeded.
- ❖ ***United States Courthouse Site and Drainage Design, Mobile, Alabama, for Moshe Safdie and Associates*** – The project consisted of site design for a new United States Courthouse in Mobile, Alabama. Mr. Shumer was responsible for working on plans for fifty (50) percent design, setting the elevation for the curb around the perimeter, coordinating with utilities, and drainage design.