



# DENNIS

C O R P O R A T I O N

## Daniel R. Dennis, III, PE, PLS, MBA 1990 - Present (Career) President

Masters of Business  
Administration  
The Citadel Evening  
College  
1993

B.S., Civil Engineering  
The Citadel  
1990

US Army Reserve Officer  
Training Corps

Professional Engineer -  
SC, NC, GA, AL, LA, CT, MO,  
TN, VA, WV

Professional Land  
Surveyor- SC

National Council Record -  
NCEES

Expert Witness - SC

Mr. Dennis' experience includes planning, design, inspection, construction management, program management, project management and expert witness testimony for many road and bridge projects. Specific responsibilities have included geometric design, drainage design, pavement design, and traffic studies. As President of Dennis Corporation, Mr. Dennis oversees over one hundred employees and oversees projects for fourteen company divisions.

Recent roadway and bridge experience includes the following projects:

- ❑ **Beaufort County Sales Tax Program Management-** Mr. Dennis currently serves as Program Manager for the Beaufort County Sales Tax Program, assisting the County with the program management of fourteen transportation projects with construction costs totaling over \$400 million. The projects include both local road and bridge projects in the county over a seven year duration. As the program manager, Mr. Dennis will be responsible for assisting Beaufort County with scheduling, budgeting and construction management of these projects.
- ❑ **SC 802 Road Widening and new Intracoastal Bridge over the Beaufort River, Beaufort County, SC-** Mr. Dennis is currently the roadway project design manager for this project which includes a new four-lane bridge across Beaufort River and widening the existing approach roadways from two lanes to five lanes. Mr. Dennis is overseeing the roadway design, utility coordination, survey and traffic studies for the project.
- ❑ **Palmetto Commerce Parkway, Phase II, Charleston County-** Mr. Dennis supervised preliminary plans for the design of a four mile divided highway from US 78 to Ashley Phosphate Road in Charleston County. This \$29,000,000 project has been accelerated due to the Daimler Chrysler automobile manufacturing facility currently under construction. The project will also require the construction of ten bridges spanning the Blue House Swamp and two future railroad spur bridges.
- ❑ **Fairfield County CTC Program Manager-** Mr. Dennis is currently the principal-in-charge of several projects located throughout Fairfield County and funded through the CTC and county. These projects include the 2006 Road Improvement Program, 2007 Road Improvement Program; West Moultrie Street Sidewalk; Wateree Road Reconstruction; Polling booth paving program; Dutchman's Creek Pedestrian Bridge; Brown's Bridge Replacement and the Safe Routes to School Program.
- ❑ **Expert Witness Testimony** including research, discovery, depositions and trial testimony on over eighty cases for the SCDOT and private defense and trial attorneys.
- ❑ **Design Build: SCDOT I-85 Access Improvements at the Greenville-Spartanburg Airport and BMW Interchanges, Greenville/Spartanburg Counties, South Carolina-** Deputy Project Manager responsible for the coordination of activities of the key organization for this \$30 million project including CEI Teams, Construction Administration Team, Design Review Team, and Support Services Team. In this role, Mr. Dennis reported directly to the SCDOT Project Manager, and he ensured that appropriate resources were provided and that the various groups were responsive to the client's needs.

- ❑ **Design Build: NCDOT Cary US 1-64/SR 1009 (Tryon Road) Interchange to South of I-40, Wake County, North Carolina-** Mr. Dennis served as the CEI manager for this \$64 million highway construction project. Mr. Dennis was in charge of the following:
  - Teaming with the Contractor and Engineer to win the project. This included team meetings discussing design and construction value engineering to determine how to get the highway built safely, quickly, for the lowest possible cost.; Preparing the technical proposals which NCDOT used to select the most qualified team; Preparing construction sequencing options, scheduling, and cost estimates; Reviewing preliminary designs; Mobilizing CEI staff consisting of resident engineer, inspectors, testing technicians, and survey personnel to inspect the project; Setup of office and infrastructure to handle large CEI staffs, computer network, and testing equipment: Ensuring that office and field staff were complying with NCDOT standards.
- ❑ **Design Build: I-77 from I-485 to SR 2136 (Gilead Road) Exit 23, Mecklenburg County, North Carolina—**Mr. Dennis served as the CEI manager for this \$6 million highway project in charge of the following:
  - Team meetings with the Contractor and Engineer discussing design and construction value engineering to determine how to get the highway built safely, quickly, and for the lowest possible cost; Preparing the technical proposals which NCDOT used to select the most qualified team; Reviewing preliminary designs; Preparing construction sequencing options, scheduling, and cost estimates; Mobilizing CEI staff consisting of resident engineer, inspectors, testing technicians, and survey personnel to inspect the project; Set up of office and infrastructure to handle large CEI staffs, computer network and testing equipment; Ensuring that office and field staff were complying with NCDOT standards.
- ❑ **Louisiana TIMED Program, LaDOTD, Louisiana -** Mr. Dennis was very instrumental in the Pursuit, and Start-up phases of this \$2.3 Billion Program involving program, design and construction management of fifty-three (53) major highway projects. Mr. Dennis prepared much of the Technical Proposal, participated in due-diligence analysis for the development of the “cost-to-complete” portion for the design, utility relocation, right-of-way and construction aspect of this Program. Additionally, he assisted with the development of the fees for the Design, Program Management, Right-of-Way Acquisition, Utility Relocation and Construction Management phases of this Program.
- ❑ **Construction and Resource Manager, South Carolina Department of Transportation -** Assistant Construction Manager for the Construction Engineering and Inspection of 40 Road and Bridge projects located throughout the State. The projects had a combined construction cost of approximately \$720 million. Responsibilities included construction management of two area offices with a combined staff of 35 people including construction engineers, inspectors, testing technicians, and surveyors. Work activities included project staffing, technical specification writing, inspector QA/QC certification training, contracting, constructability reviews, value engineering reviews, and construction schedule reviews.
- ❑ **Design Build: SCDOT Conway Bypass, Horry County, South Carolina -** Project Engineer for the engineering and construction of a 28 mile, \$435 million design-build limited access highway from US 17 in Myrtle Beach, SC to US 501 north of Conway, SC. The project, comprised of 5.5 miles of bridges and 22.5 miles of embankment filled roadway, included right-of-way acquisition, utility relocations, clearing and grubbing, grading, “superpave” bituminous asphalt pavement, storm water drainage design, and erosion control. Wetland, stream, or river crossings consist of either flat slab of AASHTO girder bridges. The latest design and construction guidelines were utilized including FHWA, SCDOT, and AASHTO standards. Design software for the project included the latest versions of Microstation and Inroads. Responsibilities on this project included the following:
  - Roadway and storm drainage design and bridge geometry coordination for the US 17 and Conway Bypass Interchange located adjacent to the former Briarcliffe Mall. The roadway design at this interchange included the vertical and horizontal design for US 17, Ramps NE, NW, SE, SE Connector, Connectors A & B, Loop SE, Mall Access

Road, Hilton Road, relocated Kings Road, and all associated bridges. All work was designed in accordance with both "The 1990 Policy on Geometric Design of Highways and Streets and the SCDOT Highway Design Manual." The designed storm drainage system along US 17 included approximately 130 SCDOT type 16 catch basins; 17,000 linear feet of drainage pipe; and a 5 acre storm water detention pond. All drainage design was done in accordance with the 1997 SCDOT manual on Hydraulic Design.

- Structural design for all pile locations, cut off elevations, and deck grade calculations for 42 flat slab bridges totaling 5.5 miles of structure. Design computations were complex due to the complex geometric design and super elevation requirements.
  - Stormwater design for all cross line drainage on the mainline from US 17 to US 501 along the Conway Bypass. The design criteria for this work included either the rational method, SCS TR-55, or USGS Regression Equations depending upon the size of the drainage area.
  - Aerial photography coordination for a 5 mile by 1000 foot corridor for the relocation of the Conway Bypass around Brown Bay wetlands. Work included route layout, survey controls, and monumentation.
- ❑ **Lynches River Bridge (US 52 Northbound), Effingham, South Carolina** - Project Engineer responsible for the design and construction plans of a 660 ft. long 46 ft wide cast-in-place bridge supported with 18 in. concrete piles. Design included hydraulic analysis using US Army Corps of Engineers HEC-RAS River Analysis System and WSPRO, plan and profile design, pile layout, cut off elevations, and structural details.
- ❑ **West Alexander Avenue, Greenwood, South Carolina** - Project Engineer responsible for design, construction plans, specifications, bidding, and inspection for the widening and overlay of SCDOT road S-24-128 and reconstruction and overlay of various county roads contiguous to the project. Design included geometric layout, horizontal and vertical design, pavement design, drainage and erosion control design, coordination with SCDOT and several utilities, right-of-way platting, and right-of-way acquisition. All right-of-way and engineering design was approved by SCDOT District 2 Engineering and conformed to AASHTO and SCDOT specifications.
- ❑ **Munitions Road, Shaw Air Force Base, Sumter, South Carolina** - Project Engineer for the design of a dedicated road approximately one mile in length to be used solely for the purpose of transporting F-16 aircraft munitions from the bunkers located at the Northeast end of Runways 22L and 22R to the arm/disarm ramp located at the Northeast end of Runways 22L and 22R. The munitions, including air to air missiles and air to ground weaponry, will be transported by munitions tow vehicles similar to large tugs used at commercial airports. Design responsibilities included the evaluation and selection of a preferred roadway alignment, topographical surveys, horizontal alignment layout, subsurface information review, horizontal and vertical roadway design, pavement design, stormwater design, sediment and erosion control permitting, environmental coordination, utility relocation design, and the preparation of construction plans, specifications, and cost estimates.
- ❑ **Nations Road, Greenwood, South Carolina** - Project Engineer responsible for design, construction plans, specifications, bidding, and inspection for the widening and overlay of SCDOT Road S-96 and US 25/S-96 intersection. Design included geometric layout, horizontal and vertical design, pavement design, drainage and erosion control design, and utility coordination. All designs conformed to were approved by SCDOT District 2 Engineering and conformed to AASHTO and SCDOT specifications.
- ❑ **Marine Corps Air Station, Beaufort, South Carolina** - Project Engineer for construction plans and specifications for repairing various roads and storm drainage systems located throughout the 5400 acre air station. Repairs included pavement reconstruction, slurry seal application, asphalt overlays, milling, and new Portland Cement concrete pavement construction. Additional projects included providing inspection, planning and estimating services for designated roads, and storm drainage systems that will require future repairs and maintenance, and a complete field survey and plan production of all air station road and parking lot markings and signage.

- ❑ **Greenville, South Carolina** - Project Engineer for construction and right of way plans for improvements to various city streets. Design included property research, plat preparation, plan and profile and drainage improvements.
- ❑ **The Citadel, Murray Barracks Replacement/Jenkins Avenue Road Construction, Charleston, South Carolina** - Project Engineer for construction plans and specifications for the construction of a 110,000 sq. ft., 220 room barracks. Design included all civil site work including grading, drainage, utility and pavement design for the building site and adjacent Jenkins Avenue Road construction. Utility relocations included potable water, stormwater, sanitary sewer, gas, fire protection, HVAC, steam, irrigation, electrical and fiber optic.
- ❑ **Isle of Palms Connector Bridge (SC Route 703) Mt. Pleasant, South Carolina** - Assistant Resident Engineer for the \$40 million construction of 2.2 miles of reinforced concrete and precast girder bridge. The 11,460 foot bridge is 54 feet wide and supported by 714 pre-stressed concrete girders ranging in height from 18 feet to 76 feet above sea level. Project consisted of 23,000 LF of concrete barrier parapet wall; 66,000 SY of grooved surface finish; 30,000 SY of reinforced concrete; and 23,000 LF of drilled shafts. His responsibilities included the supervision of employees performing field inspections, quality control and material testing, change orders, maintenance of project records, processing progress payments, and construction schedule reviews.
- ❑ **Isle of Palms Connector Roadway (SC Route 703), Mt. Pleasant, South Carolina** - Assistant Resident Engineer for the construction of 3.5 miles of roadway. The project consisted of unclassified excavation, 8-inch stabilized aggregate base course, asphalt concrete binder course, asphalt concrete surface course, seeding, guard rail, signage, and markings. His responsibilities included supervision of employee's performing field inspections, quality control and materials testing, change orders, maintenance of project records, processing progress payments, and construction schedule reviews.
- ❑ **Rehabilitation of the Grace and Pearman Bridges, Charleston, South Carolina** - Office Engineer and Construction Inspector for the rehabilitation of four miles of precast girders, steel plate girders, and steel truss bridges (\$16M). The project consisted of extensive structural steel and concrete repair in addition to abrasive blast cleaning and coating of two cantilevered trusses.
- ❑ **Traffic Impact Study for Polawana Island, Beaufort, South Carolina** - Author of a detailed study on the proposed traffic generated from a 288 single family development in the Lady's Island District of Beaufort County and its impact on SC 602 and US 21. Contents of the report include functional classification, road jurisdiction, land use analysis, design capacity, signalization study, and review of accident and congestion data.
- ❑ **Traffic Impact Study for Burlington Plantation, Beaufort, South Carolina** - Author of a detailed study on the proposed traffic generated from a 1300 residential dwelling units comprising the Burlington Plantation and its impact on SC 40. Contents of the report include functional classification, road jurisdiction, land use analysis, design capacity, preliminary intersection design, signalization study, and review of accident and congestion data.

#### **Construction Engineering and Inspection (CEI) Certification Classes**

- ⇒ Asphalt Roadway Inspection Course - Clemson University, Clemson, SC, Expires 3/16/2010
- ⇒ Nuclear Gauge Safety Training Course - Troxler Laboratories, Raleigh, NC
- ⇒ Bridge Foundations - SCDOT, Columbia, SC (Expired)
- ⇒ Concrete Inspection Level 1 - SCDOT, Columbia, SC (Expired)
- ⇒ Earthwork, Base Course and Nuclear Gauge - SCDOT, Columbia, SC (Expired)
- ⇒ AASHTO Site Manager Construction Management Software
- ⇒ SC Work Zone Traffic Control Supervisor's Course - Institute for Transportation Research, Columbia, SC
- ⇒ OSHA 10 Hour Construction Safety Course