



**David Russell, PE**  
**1997 - Present (Career)**  
**Roadway Design Consultant**

B.S. Civil Engineering  
The Citadel  
1997

Registered Professional  
Engineer,  
SC #21591

Mr. Russell has 11 years of engineering design experience on transportation and site/civil projects. Such projects have involved new design, roadway/bridge widening, drainage, and commercial and residential site design. Mr. Russell has completed numerous training courses including federally endorsed Context Sensitive Design training from the University of Kentucky.

Examples of his project experience include the following assignments:

- ❑ **SC 802, Beaufort, SC** - Mr. Russell is serving as the Transportation Engineer for the SC 802 Widening in Beaufort County, SC. Mr. Russell is overseeing the roadway design for this \$50,000,000 project. The project entails widening projects on SC 802 including from US 21/SC 802 to Ribaut Road: a new 2-lane bridge across the Beaufort River and widening from 2 lanes to 4 lanes with raised/flush median for approximately 2.5 miles. The project also includes widening of SC 802 from SC 280 to SC 170 from 2 lanes to 4 lanes with a raised/flush median for approximately 1.7 miles.
- ❑ **Camp Welfare Road, Fairfield County, SC** - Mr. Russell is working as the Transportation Engineer for the widening of Camp Welfare Road in Fairfield County, SC. This project consists of the improvement and upgrade of Camp Welfare Road (S-20) from I-77 to Camp Welfare Road with Full Depth Reclamation (8"). The length of the project is approximately 3 miles. The project will involve improving the current roadway by widening the existing travel way 4 additional feet (2 feet on each side), improving existing shoulders and ditches, and upgrading the existing roadway with cement stabilized base course and triple treated surface course.
- ❑ **Horry County Sales Tax- Dirt Road Paving Program** - Project Engineer/Manager responsible for the design of six paving projects and coordination with other team members on over forty more paving projects as part of Horry County's road sales tax program. The total length of all projects was 20 miles at an estimated construction cost of \$15 million.
- ❑ **Roadway Improvements to Earl Church and Rebel Roads, Aiken County, SC (Aiken Co.)** - Project Manager for the widening and improvement of 3 miles of roadway improvements in Aiken County. These two road projects are part of Aiken County's road paving program. A raised edge section with closed drainage was used to minimize impacts to adjacent properties. The design for the projects was completed in under 60 days
- ❑ **Baylee Estates Residential Subdivision, Aynor, SC** - Project Manager & Lead Engineer for the design of a 61 lot single family subdivision in Aynor, SC. Located off of Floyd Page Road, the Baylee Estates project consisted of the addition of roads, water, gravity sewer, and a sewer pump station.
- ❑ **Watertower Road Interchange with S.C. 31 (Carolina Bays), Myrtle Beach, SC (Parkway Group)** - Project Manager and lead designer for the development of a new interchange at the intersection of Watertower Road and Carolina Bays Parkway. The project consisted of the addition of ramps to accomplish the completion of the interchange. An overpass for Watertower Road was previously constructed as part of a re-alignment associated with the original Carolina Bays Parkway. The project was contracted privately, however close coordination with the SCDOT was critical. The project was completed on an

accelerated schedule.

- ❑ **Widening and Improvements to Flowing Well Road, Aiken County, SC (Aiken Co.)** - Project Manager & Lead Roadway Engineer for the widening and improvement of 3.77 miles of Flowing Well Road in Aiken County. Site conditions consisted of limited outfall areas and hilly terrain. This provided challenging site conditions for the widening project. The plans were developed to minimize impacts to property owners while improving drainage conditions and safety. Multiple roadway typical sections were used in the design of the roadway from valley gutter sections to open ditch sections. Special attention to sedimentation and erosion control was key to the overall project success.
- ❑ **US 17 Improvements, Beaufort/Colleton Counties, SC (SCDOT)** - Lead Roadway Engineer for this complex project involving the design of 22 miles of widening through the environmentally sensitive ACE Basin in the South Carolina low country. The project also included the design of a new interchange at the convergence of US 21 and US 17 in Gardens Corner, SC and the design of several structures.
- ❑ **US 76 Bridge Replacement over Chattooga River on South Carolina/ Georgia State Line (SCDOT)** - This is a major crossing of the Chattooga River between Oconee County, SC and Rabun County, Georgia. Mr. Russell was the Roadway Engineer and worked closely with the SCDOT, FHWA, GDOT, US Forest Service and sub-consultants in preparing plans to realign the roadway and create a scenic overlook within a US Forest and "wild and scenic" river corridor. Coordination with the US Forest Service, SCDOT, and GDOT was deemed a priority in order to avoid delays to the project.
- ❑ **US 17 over the Combahee River, Beaufort County, SC (SCDOT)** - Mr. Russell was the Lead Roadway Engineer for the fast tracked replacement plans of an existing 520' concrete structure that is located in the pristine wetlands of the ACE Basin. The historical, cultural, and environmental issues associated with the project required close coordination with environmental agencies as well as the SC State Historic Preservation Office. Constraints for the design of the structure and its approaches include a civil war fort on the Southeast corner, a public boat landing on the Southwest corner, and underwater cultural resources (historic shipwrecks) under the structure. Roadway realignment included the realignment of the boat ramp entrance and the application of MSE wall structures to protect adjacent historic sites.
- ❑ **US 377 over Black River and Black River Swamps, Intersection Improvement SC377/US521, Williamsburg County, SC (SCDOT)** - Roadway Engineer for the replacement of four deficient and obsolete bridges, along with intersection improvements of SC Route 377 and US Route 521. In order to not have an unreasonable detour, the roadway will be realigned slightly so that traffic can be maintained during construction of the new bridges. Safety improvements will be made at the intersection of US 521 and SC 377, including adding traffic lanes, and removing a "spur".
- ❑ **Grissom Parkway (29<sup>th</sup> Ave. - 48<sup>th</sup> Ave.), Myrtle Beach, SC (SCDOT)** - Under the direction of the Project Manager, Mr. Russell was responsible for roadway drainage design that included an analysis of drainage areas and detention requirements, culvert size/location and closed drainage system design associated with curb and gutter section.
- ❑ **Loring Mill Road, Sumter, SC (SCDOT)** - Under the direction of the Project Manager, he was responsible for the drainage design aspect of this roadway widening project that included the sizing of detention areas and use of energy dissipaters in the design process.
- ❑ **I-85/S12 Interchange-Spartanburg, SC (SCDOT)** - Deputy Project Manager in charge of design for an interchange at I-85 and Brockman-McClimon Road. Responsible for all aspects of design and coordination within the project team to include horizontal and vertical design associated with the widening of Interstate 85 and the addition of interchange ramps and a relocation of Brockman-McClimon Road.
- ❑ **County Roads- Horry County, SC** - Project Manager responsible for the design of three (3) county paving projects; Chelsey Lake Drive, Southland Drive/Sugarbush Road, Vaught Ridge Road.
- ❑ **I-95 Frontage Roads, Dillon County, SC** - Project Manager responsible for the conceptual through final design of 2.2 miles of frontage roads along I-95 in Dillon, South Carolina.

- ❑ **I-26 \ U.S. 378 Interchange, West Columbia, SC (SCDOT)** - Project Engineer involved in the design of a single point urban diamond interchange that included ramps, retaining walls, a relocated frontage road, and the realignment to U.S. 378.
- ❑ **Carolina Bays Parkway, Horry County, SC (SCDOT)** - Project Engineer involved in this design/build project which involved the widening of US 501 and its interchange with Carolina Bays Parkway. Responsibilities included all aspects of ramp and mainline design for the interchange.
- ❑ **SC Route 72 Widening-Abbeville County, SC (SCDOT)** - Under direction of the Project Manager, Mr. Russell was responsible for all aspects of design from conceptual to final plans. This included development of multiple alternatives and public involvement, Right-of-Way plan development, and construction plan production. Multiple segments enabled the client to begin purchasing right-of-way while work was in progress to accommodate the schedule.
- ❑ **Natchez Trace Parkway, Natchez, MS (FHWA-EFLHD)** - Project Engineer involved in the design/construction to a section of the Natchez Trace Parkway from U.S. 61 to Liberty Road (approximately 16 miles), including the widening of Liberty Road with interchange.
- ❑ **Aqaba International Industrial Estate- Aqaba, Jordan** - Relocation of 4km of the Dead Sea Highway for a new 273-hectare industrial park. Design responsibilities included roadway plan design and preparation, as well as international coordination of roadway plan production for this USAID project.