



# HIGHWAY & ROAD DESIGN



## **EARTHWORKS' Road Design Services**

Transportation Engineering is an essential element in Municipal, Commercial, Industrial and Residential Planning. Road Design incorporates the technical aspects of vertical, horizontal and aesthetic elements of design. The EARTHWORKS Group has extensive experience in highway and road design. Our engineers utilize sophisticated computer applications to help determine the most cost-effective and aesthetic designs. Whether it is a local street resurfacing or an urban interstate highway interchange, EARTHWORKS has the experienced staff to handle the job.

### **FEATURED PROJECT** ***COLLINS JOLLIE ROAD***

*The EARTHWORKS Group, Inc. (TEG) investigated and evaluated the condition and capacity of Collins Jollie Road, located off Long Avenue Extension in Horry County just outside the limits of the City of Conway, to determine the condition of the existing road and bridge, and to recommend improvements to upgrade the roadway and associated components to current standards of construction.*

*The improvements to the roadway included changing the profile of the road to meet current engineering design with standard slopes and vertical curves, bridge upgrades, new culverts, the installation of 8" of new road subbase, followed by the addition of 2" asphalt road surface over the entire stretch of roadway.*

In addition to having the technical design expertise, EARTHWORKS has the knowledge to assist local communities in obtaining Federal funding for needed transportation projects. EARTHWORKS's staff of professionals can help steer local officials through the maze of paperwork with State and Federal agencies, necessary for obtaining funding.

We use our expertise in road and highway systems to design systems focused on:

- A blend of cost effective, aesthetic and safety elements in highway & road development
- State of the Art computer analysis of all aspects of design
- Professional advice and administrative services, grant writing and project evaluation
- Associated stormwater and culvert design

#### Highway and Road Design Services

- Horizontal Design Plans
- Vertical Profiles
- Stormwater Modeling
- Drainage Analysis Engineering
- Stormwater Pollution Prevention Plans
- Capital Improvement Programs
- Systems Permitting
- Construction Bidding and Construction Administration Services
- Grant Applications
- Pavement Design
- Presentations for Public Involvement and Information Meetings



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