

# Highway Engineering Services

**CEC has extensive experience in all aspects of Highway Engineering, from conceptual design through construction, for state and local agencies as well as private clients.**



CEC's highway engineers have wide-ranging knowledge of state and local standards and design requirements. CEC provides innovative solutions for all aspects of highway design, from concept through construction, and offers comprehensive transportation services in all phases of project development and for all project applications.

CEC's highway engineers can design new highways or reconstruct existing highways for state departments of transportation, turnpike commissions, county and local governments, and contractors by applying practical engineering and field experience to solve urban and rural highway challenges. In addition, CEC's utility coordination specialists synchronize transportation construction with infrastructure relocation and upgrades so utility service is maintained and work proceeds on schedule.

CEC's comprehensive Highway Engineering services include:

## ROADWAY DESIGN

- Alignment and corridor studies
- Maintenance and rehabilitation
- Realignment
- Reconstruction and expansion
- Pavement design
- Safety enhancements
- Interchange lighting design
- Erosion and sediment pollution control design
- Driveway permit plans
- Right-of-way plans

## INTERSECTION DESIGN

- Auxiliary lanes
- Jug handles
- ADA ramp design

## UTILITY COORDINATION

- Staging of utilities within construction
- Utility identification and location
- Utility relocation

## STORMWATER MANAGEMENT

- Roadway drainage
- Best management practices for infiltration
- Bio-retention swales
- Detention ponds

## MAINTENANCE OF TRAFFIC

- Detours
- Staged construction
- Temporary roads and signals

## STREETSCAPES

- Pedestrian mobility
- Traffic calming
- Context-sensitive solutions