

•• CIVIL ENGINEERING DESIGN

Triad has a team of professional personnel which provides civil engineering design services in a variety of markets including land planning, site development of residential subdivisions, commercial development, education and healthcare facilities, water/wastewater, landfills, reservoirs, and many other facets of land development. We can combine many other in-house services, from surveying to construction inspection and testing, to provide a product from start to finish. Our goal is to design a cost-effective project that incorporates good engineering science, meets local, state and federal regulations and codes, and is an appealing design that meets or exceeds client expectations.

Our Civil Engineering Design Services Include:

▾ Site Grading and Development Plans

- Minor lot subdivisions
- Major lot subdivisions
- Planned unit developments
- Erosion and sediment control plans

▾ Commercial/Industrial Site Developments

- New commercial/industrial planned developments
- New commercial/industrial buildings/parking sites
- Additions/renovations to existing development sites

▾ Landscape Design

▾ Storm Water Best Management Practices (BMP)

- Environmental Sensitive Design (ESD) (micro-scale BMPS, rainwater harvesting, and site planning practices)
- Storm water conveyance systems (channels, storm drain pipe systems, etc.)
- Storm water quantitative controls (ponds, underground storage, infiltration and attenuation)
- Storm water quality controls to meet state and federal clean water acts (wetlands, filters, non-structural BMP, etc.)

▾ Utility Design and Analysis

- Sanitary sewer conveyance systems
- Sanitary sewer pump stations
- Sanitary sewer on-site treatment (septic fields and treatment plants)
- Potable water distribution systems

▾ Hydrologic Studies

- Drainage studies
- Flood plain analysis
- Stream restoration
- Reservoir rehabilitation/construction

▾ Green Sustainable Design

- LEED Site Design and Consulting
- LEED Site Certification Processing
- Water Conservation Design

▾ Land Use and Planning Consultation

▾ Transportation Engineering

- Traffic studies
- Intersection design
- Entrance plans
- Roadway improvement plans

▾ Reinforced Concrete Design

▾ Retaining Wall Design

▾ Construction Specifications and Contract Documents

▾ Construction Contract Administration

