

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 (K-secondary), healthcare facilities, water/wastewater, landfills, reservoirs, and many other facets of land development. We can combine many other inhouse services, from surveying to construction inspection and testing, to provide a complete project from start to finish. Our goal is to design a cost-effective project that incorporates good engineering science, meets the local, state and federal regulations while exceeding our clients' expectations.



Our Civil Engineering Services Include:

→ **Site Grading and Development Plans**

Minor/Major Lot Subdivisions
Planned Unit Developments
Erosion and Sediment Control Plans

→ **Commercial/Industrial Site Developments**

New Commercial/Industrial Planned Developments, Buildings and Parking Sites
Additions/Renovations to Existing Development Sites

→ **Landscape Design**

Presentation Drawings
Landscape Plans
Buffered Viewshed Renderings

→ **Storm Water Best Management Practices**

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 for State and Federal Clean Water Acts (Wetlands, Filters, Non-Structural BMP, Etc.)
MS4 Retrofitting and Design

→ **Construction Specifications and Contract Documents**

→ **Construction Contract Administration**

→ **Utility Design and Analysis**

Sanitary Sewer Conveyance Systems
Sanitary Sewer Pump Stations
Sanitary Sewer On-Site Treatment (Septic Fields and Treatment Plants)
Potable Water Treatment and Distribution Systems

→ **Hydrologic Studies**

Drainage Studies
Flood Plain Analysis
Stream Restoration
Reservoir Rehabilitation/Construction

→ **Green Sustainable Design**

LEED Site Design and Consulting and Certification Processing
Water Conservation Design

→ **Land Use Planning Consultation**

→ **Highway Engineering**

Traffic Studies
Intersection Design
Entrance Plans
Roadway Improvements

→ **Retaining Wall Design Energy PSC Certificates of Public Necessity and Need Support**

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