



CIVIL ENGINEERING

Properly preparing for future growth requires skilled personnel experienced in land planning and design. At Patterson & Dewar Engineers Inc. (P&D), our Engineering Team assists our clients from an initial concept through completion. Equipped with expert knowledge ranging from code-compliant constraints to the latest design practices, our engineering and in-house survey resources are safe, efficient, and cost-effective for our clients.

We developed relationships with state and local governments throughout the southeast and remain proficient with permitting and regulatory requirements. These relationships allow us to shepherd each project through the development process and keep the scope, schedule, and budget on track. Working as part of the project team, we collaborate with owners, architects, contractors, developers, utility directors, and regulatory officials to ensure successful project delivery.

SITE DEVELOPMENT & LAND PLANNING

Utilities rely on P&D for assistance with land planning and site development, including:

- Site design
- Feasibility studies
- Conceptual land planning
- Utility substation planning and design
- Stormwater management
- Grading, earthwork, and storm drainage
- National Pollutant Discharge Elimination System (NPDES) erosion and sediment control
- Flood studies
- Third-party plan review
- Re-zoning and variance requests

SUBSTATION SITE SERVICES

Our electrical, civil, and structural engineering teams deliver turnkey substation solutions, from initial planning to design and construction, all the way through testing and commissioning. Our civil/site team assists with:

- Access design and improvements
- Construction consultation
- Drainage system design
- Erosion and sediment control
- Foundation design
- Grading and earthwork
- Land planning
- NESC requirements
- Oil spill containment (SPCC)



**patterson
& dewar**
ENGINEERS

OUR LOCATIONS

Georgia (Corporate)

850 Center Way
Norcross, GA 30071
(770) 453-1410

Arizona

1525 North Hayden Rd.
Suite 100
Scottsdale, AZ 85257

Tennessee

1531 Hunt Club Blvd.
Suite 200
Gallatin, TN 37066
(615) 527-7084

Texas

15924 Midway Rd.
Addison, TX 75001
(214) 461-0760

Virginia

4511 Daly Dr.
Suite I
Chantilly, VA 20151
(571) 299-6773

STRUCTURAL

Our team collaborates with clients from various disciplines, including architects, builders, developers, utility directors, elected officials, and government supervisors. P&D draws on decades of experience to offer specialized structural engineering services, including:

- Utility structure design and analysis
- Foundation design
 - » Caissons
 - » Spread footers
 - » Pads
- Soils investigation analysis
- Retaining wall design
- Lattice tower structure design and review
- Shear wall design
- Solar Installation Forensic Analysis



ENVIRONMENTAL

P&D's team of experts sift through governmental policies and regulations to identify solutions to meet a client's legal obligations every step of the way while helping to ensure each project is successful. Our environmental engineering services includes:

- SPCC design and evaluation
- Storm Water Pollution Prevention Plans (SWPPP)
- Environmental reports for Rural Utilities Service (RUS) grants
- GIS research and mapping
- NPDES Construction General Permit
- Stream buffer variance coordination
- Permitting

SURVEYING

P&D brings years of experience and state-of-the-art technology to every land surveying assignment. We offer a full range of surveying services, such as:

- Boundary
- Topographic
- ALTA/NSPS Land Title
- As-built
- Transmission Line Surveying
- Route/Corridor
- Construction staking
- GPS/GNSS
- Hydrographic

P&D Engineers are currently licensed in Alabama, Colorado, Florida, Georgia, Kentucky, Mississippi, New Mexico, North Carolina, South Carolina, Tennessee, Texas, and Virginia.

THE P&D DIFFERENCE

For more than 50 years, P&D's civil engineers have worked on noteworthy projects serving a wide range of public, private, and institutional clients. Experience matters, so let our skilled engineers help you develop new and exciting projects and find solutions to problems.

For more information, please contact civilengineering@pdengineers.com

