

# LAND PLANNING & DESIGN SOLUTIONS



Borton  Lawson  
ENGINEERING | ARCHITECTURE

# LAND PLANNING & DESIGN SOLUTIONS

The solutions offered by the Land Planning & Design team increase the worth and usefulness of existing land developments that enhance and protect communities and neighborhoods.

## PLANNING

We provide customized planning solutions for healthcare and education campuses as well as industrial and business parks. Our expertise lies in the examination of life-cycle project delivery by performing a thorough planning phase considering future, often unknown, development.

- ▶ Campus Planning
- ▶ Environmental Site Assessments
- ▶ Geographic Information Systems (GIS)
- ▶ Land Use Analyses
- ▶ Site Risk Assessments
- ▶ Conceptual Stormwater Management
- ▶ Traffic, Parking and Circulation Studies
- ▶ Utility Master Planning
- ▶ Conceptual Landscape Masterplan
- ▶ Site Data Management

## DESIGN

Borton-Lawson's site design process links the expertise of civil engineers, landscape architects and regulatory experts for site development solutions that are safe, creative and environmentally friendly. Our team's design expertise – from concept through construction – ensures the effective implementation of each client's goals within the available resources.

- ▶ Property and Topography Survey
- ▶ As-Built Surveys & 3D Laser Scanning
- ▶ Site Layout
- ▶ Grading & Earthwork Design
- ▶ Stormwater Management and Design
- ▶ Erosion & Sediment Pollution Control
- ▶ Utility Design
- ▶ Water/Wastewater Infrastructure Design
- ▶ Roadway, Parking and Vehicular Circulation Design
- ▶ Landscape Architecture
- ▶ Site Design for LEED



# MUNICIPAL ENGINEERING

As stewards for planning and zoning ordinances in multiple communities, Borton-Lawson's site designers understand the implementation and enforcement of the regulations.

- ▶ Public Improvement Projects
- ▶ Planning and Zoning Compliance Reviews
- ▶ Data Management and Maintenance
- ▶ Annual Budgeting
- ▶ Grant Writing
- ▶ Public Meeting Presentations
- ▶ Construction Inspections

## REGULATORY APPROVALS

Our experience and research-based approach allows us to clearly communicate the land development approval process, accurately develop a project schedule, and execute the project according to the project plan with predictive results.

- ▶ Municipal Planning and Zoning Approval
  - County Permitting Approvals
  - Conservation District
  - County Planning
- ▶ Department of Environmental Protection
  - General Water and Obstruction Permits (GP)
  - Joint Permits
  - Act 537 and Sewage Plan
  - Hazardous Materials
  - Water Quality Permit
  - Air Permit
- ▶ Department of Transportation
  - Highway Occupancy Permit (HOP) and Design
  - Road Widening
  - Driveway Permit
  - Utility Permit
- ▶ Federal Permits
  - NPDES
  - Federal Aviation Administration
  - EPA
- ▶ Army Corps of Engineers (ACOE)
  - Jurisdictional Detention
  - Joint Permit

## FLOOD PROTECTION

Borton-Lawson's history is intertwined with significant flood protection experience, especially with Northeast PA's Susquehanna River. Our team has worked closely with the US Army Corps of Engineers through multiple levee upgrades and improvements. The multi-discipline expertise of our team allows design theory to intersect with practical flood protection implementation.

- ▶ Hydraulics and Hydrology Design
- ▶ Levee Design
- ▶ Floodwall Design
- ▶ Pump Station Design
- ▶ Permitting & FEMA Coordination
- ▶ Public Meeting Presentations



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