Gwin, Dobson & Foreman, Inc. has been providing engineering services to the transportation industry for over fifty years. Our in-depth experience includes the design of major roadway and bridge projects and related transportation improvements including:

- Highway Engineering
- Bridge Engineering
- Traffic Studies & Signalization
- Geotechnical Engineering
- Foundation & Structural Design
- Environmental Studies & Permitting
- Railroad Engineering
- Construction Services
Gwin, Dobson & Foreman, Inc. has designed roadway systems for local municipalities, county governments, development agencies and PennDOT.

Our experienced highway engineers have planned and designed many roadway projects. From traffic studies to geometric design, we have the knowledge and experience for cost effective highway design.

We have completed highway design experience for all levels of functional classification including limited access freeways, arterials, collectors and local roads.

Highway
Engineering
Gwin, Dobson & Foreman, Inc. has full structural and foundation engineering capabilities. Our experience covers virtually all site and subsurface conditions. GD&F has also designed many transportation related projects such as parking garages and bike-hike trails. We have done bridge research work and developed related program standards and demonstration projects.

GD&F has taken an active lead in structural rehabilitation and has retrofitted highway and railroad bridges using efficient, cost effective applications. GD&F is also a leader in concrete rehabilitation work, including epoxy repairs, injection grouting and pressure mortar surfacing.
Bridge Engineering

From the top of the deck to the bottom of the foundation, Gwin, Dobson & Foreman, Inc. knows bridges. Our experienced staff has planned and designed 35 major bridge projects since 1990. We use the latest industry software and have complete knowledge of PennDOT design standards.

GD&F’s cost effective designs ensure the best in safety, function and serviceability. Our project experience includes precast concrete, structural steel, timber and composite structures for multiple spans up to 300 feet.

GD&F has NBIS bridge inspection capabilities with a fully certified staff of engineers and technicians.

SPECIALIZED SERVICES

◆ PRESTRESSED (P/S) CONCRETE
◆ P/S CONCRETE ADJACENT & SPREAD BOX BEAMS
◆ P/S CONCRETE I-BEAMS
◆ REINFORCED CONCRETE DECKS & PARAPETS
◆ “RIGHT-SIZING” EVALUATION
◆ PIERS & ABUTMENTS
◆ STEEL SUPERSTRUCTURES
◆ WELDED GIRDERS, DECKS & CONNECTORS
◆ COMPOSITE STRUCTURES
◆ TIMBER BRIDGES & GLUE LAMINATED DECK/BEAMS
Gwin, Dobson & Foreman’s capabilities in Environmental Engineering serve as a useful and unique complement to our transportation services. Our staff of environmental engineers and scientists are certified specialists in their fields. From wetland delineation and mitigation to environmental assessments and permitting, GD&F has the experience and know-how.

GD&F also has significant capabilities in hydrology and hydraulic engineering. We use the latest computer software programs for bridge waterway openings, scour computation, water surface profiles, floodplain analysis and flood routing.

Our design experience includes urban drainage systems, storm sewers, culverts, stormwater detention (above and below ground), erosion and sedimentation control, stormwater management and roadway drainage.

Environmental Engineering

SPECIALIZED SERVICES

- WETLAND DELINEATION, MITIGATION & MONITORING
- WATER QUALITY EVALUATIONS
- CHEMICAL & BIOLOGICAL STREAM STUDIES
- GROUNDWATER MONITORING & TESTING
- CATEGORICAL EXCLUSION EVALUATIONS (SEMP)
- ENVIRONMENTAL ASSESSMENTS & CLEARANCES (JOINT & GENERAL PERMITS)
- SPECIES IMPACT REVIEWS (PIRM)
- FLOODPLAIN & FLOOD ROUTING ANALYSIS
- HYDRAULICS MODELING
- SCOUR COMPUTATIONS
- FLOODPLAIN & ENCROACHMENTS ANALYSIS
- WATERWAY OPENINGS & WATER SURFACE PROFILES (HEC-RAS)
- CULVERT & STORM SEWER DESIGN
Geotechnical engineering has taken on increased significance with landslide, ground subsidence, structure settlement, ground water infiltration and foundation stability problems as all too common occurrences.

GD&F engineers have experience in all geotechnical design techniques and applications. For subsurface investigations, they use time-tested geological and soil engineering methods. Engineering design capabilities include slope stability, excavation and groundwater control, settlement analysis and design parameters for soil and rock foundation design.

Our designs incorporate the latest and best software design programs. Data and analysis are summarized in concise geotechnical and foundation reports.
For Any Type Of Transportation Project, From Planning And Design Through Construction, Gwin, Dobson & Foreman, Inc. Provides A Thorough Approach And Expert Execution.

For Effective Solutions, Call Us At 814-943-5214 Or Visit Our Web Site At www.gdfengineers.com

Construction Services

Knowledgeable professionals, customer service and teamwork — these are the hallmarks of the Gwin, Dobson & Foreman, Inc. management philosophy. Our experienced team of project engineers and resident inspectors has administered hundreds of bridge, roadway and related improvement projects. Our inspections have all required NICET, ACI and NECPT certifications, among others. GD&F has experience with computerized CPM scheduling programs such as NeoGan, WebCom, MSProject and Primavera.

GD&F has full service capabilities in construction engineering and surveying. We have staked out hundreds of miles of roadways and railroad lines to exacting specifications using the latest in total station and robotic equipment.

GD&F realizes the growing importance of the dissemination of project information. We use techniques such as public participation, newsletters and web postings to keep the general public informed.