



## D&B ENGINEERS AND ARCHITECTS, P.C.

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# Collection System/ Pumping Stations

## SERVICES INCLUDE:

### *Feasibility Studies*

- Capacity, Equipment Replacement

### *New Sewer System Design*

### *Sewer Rehabilitation*

- In Situ Alternatives

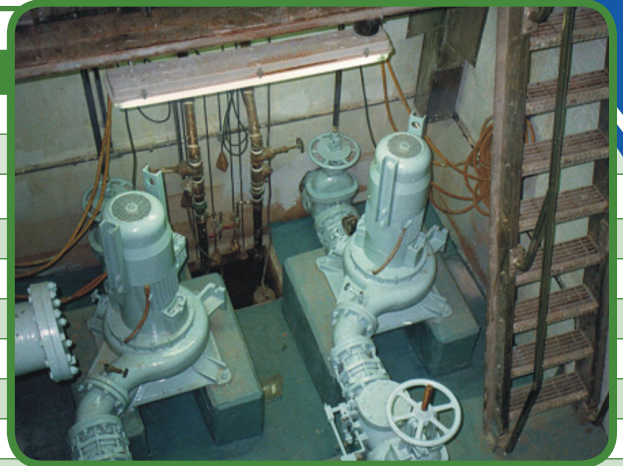
### *Pump Station Rehabilitation*

### *Sewer System Surveys/Investigations*

### *Outfalls/Force Mains*

### *Construction Management*

### *Start-Up and Training*



D&B Engineers and Architects, P.C. (D&B) provides engineering and construction management for sanitary sewage collection systems and pumping stations. The firm has handled complete sewer system projects, as well as numerous extensions of sewage collection systems.

D&B has extensive experience conducting sanitary sewer surveys and alternative rehabilitation analysis and design. The firm has produced contract documents for complete replacement and for in-line repair/rehabilitation. D&B's analysis takes into account the economics of the project on both a capital cost and as an indirect cost to the residents and commercial areas that may be affected.

As a full-service firm, D&B will complete all required studies; environmental reviews and permit acquisitions; preliminary, conceptual and detailed design document preparation; remediation of any site contamination; design services during construction; resident engineering and construction management/schedule services; operation and maintenance manual preparation; start-up; and training services.

Owner preference for specific alternatives is incorporated by the preparation of an alternative evaluation report, which provides the technical, environmental and cost impacts of all approaches.

This method allows for non-cost impacts, such as inconvenience to homeowners and businesses, to be factored into the alternative selection.

D&B has designed over 50 new and rehabilitated pumping station projects ranging in size from 100 gallons to 210,000 gallons per minute. In addition to new pump installations, the design aspects of these projects include the installation of multiplex telemetry systems; flow metering; mechanical, electric and ventilation equipment; structural and architectural repairs; installation of electrical generating and transmission facilities; new electrical substations; pump speed control systems; bypass pumping systems for construction; and odor control systems.

In addition, the firm has handled the rerouting of sewage flows between treatment plants via force mains from a few hundred feet to over 2.5 miles long. Also completed were several estuarine outfall projects with pipe sizes from 36-inches to 120-inches in diameter.

Force main routes are selected to minimize utility disruption, environmental impacts, traffic concerns, homeowner inconvenience, and commercial impacts, while balancing long-term structural stability and cost.