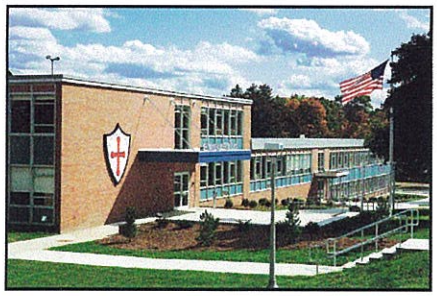
ESTABLISHED 1879

OUR ROOTS, FOCUS, AND EXPERTISE

Our Resources and Services



DOC has been in continuous operation since 1879, and offers a full range of construction and management services. We currently employ 60 salaried professionals and typically between 100 and 300 hourly field personnel. More than 30 of our employees — including our president, senior officers, and project managers — are trained engineers with extensive on-site experience.

Our firm is distinguished by the range and depth of in-house technical expertise we can provide in project planning, budgeting and design. DOC maintains fully-staffed engineering and estimating departments to deliver thoughtful project budgets, critical path schedules, and logistical plans. O'Connell Development Group, one of our affiliated companies, offers expertise in project financing, development, public permitting and utility generation and management.

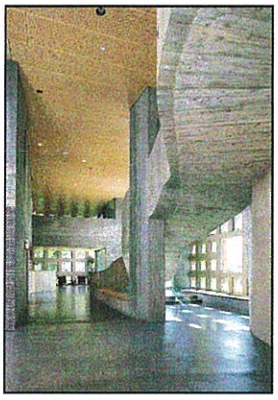
We're proud of the many awards we've received for workmanship and performance. Among them are two *Build America* Awards, widely regarded as the "Oscars" of the construction industry. We are among the few firms in the nation to receive Build America awards for both heavy construction and building projects.

We are equally proud of our record ensuring the safe execution of all our jobs. That record is exemplified by our *insurance experience modification factor* of .96, which is well below the industry average.

ESTABLISHED 1879

OUR ROOTS, FOCUS, AND EXPERTISE

Our Focus



Daniel O'Connell's Sons is recognized as a unique group of professionals who love to build. For generations, people who respect the building process and relish construction challenges have been drawn to work with and for DOC. Our firm has deep roots in virtually all types of construction. We've built everything from hotels to dams, theaters to bridges, and laboratories to highways.

As a general contractor, DOC counts many successful projects in the industrial and commercial sector. We have also built institutional and cultural buildings for significant architects and engineers, and fully understand what they expect for quality workmanship and performance.

Despite our broad base of experience, DOC is *not* a large, general construction company. Our business is focused on helping private clients and public agencies successfully address their most important and difficult challenges. We're among the best at planning and implementing projects that are technically complex and require particular management or engineering expertise.

Because of this focused approach, we've earned a reputation as one of New England's premier builders, capable of managing the most sophisticated and challenging projects. And we've proven it time and again: We've demolished and rebuilt a bridge on an active commuter rail line during a 72-hour holiday weekend. Our work on Boston's Central Artery Project includes subsurface construction 120 feet deep, through an operating mass transit station. The award-winning Rowes Wharf complex—with its four-star hotel and below-grade parking—was built largely on piles *in* Boston Harbor.

ESTABLISHED 1879

OUR ROOTS, FOCUS, AND EXPERTISE

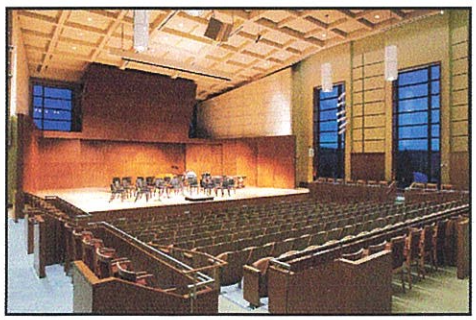
Our Expertise

Over the years, DOC has developed expertise in virtually every conceivable type of construction project, including:

- *Building Construction and Renovation*
- *Office/Hotel/Retail Complexes*
- *Libraries, Museums, and Theaters*
- *Public Buildings*
- *Laboratories and Technical Facilities*
- *Utilities and Infrastructure*
- *Dams and Flood Control*
- *Residential Complexes*
- *Corporate Office Interiors*
- *Wastewater and Water Treatment Plants*
- *Large Scale Sitework*

DOC can serve as construction manager or self-performing general contractor for any type of project. Expert planning, quality craftsmanship, and on-site problem solving make it possible for us to meet any deadline and maintain any budget.

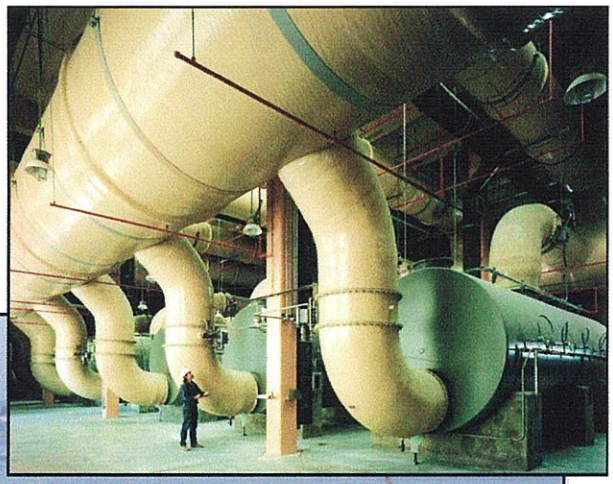
Logistical Challenges

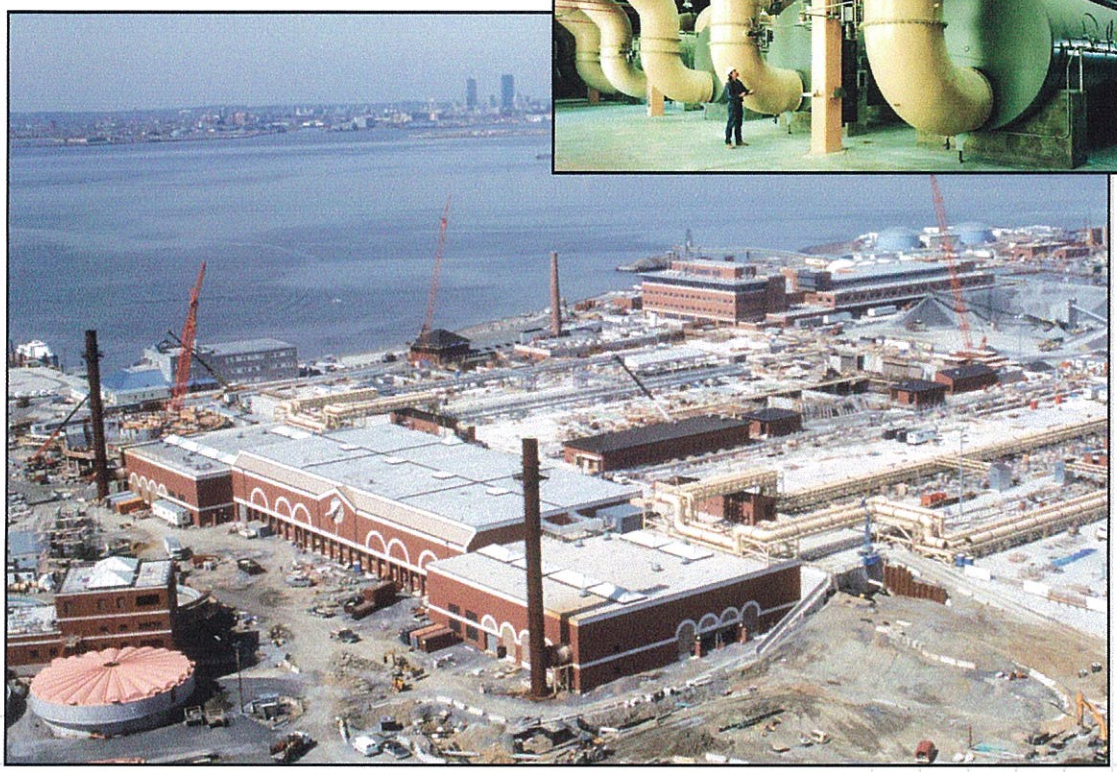


Clients usually turn to DOC to carry out projects that offer some significant logistical challenge. People have said they're amazed at some of the things we've done—like reconstruction of an historic landmark bridge from the water up, while maintaining traffic flow of 2,500 vehicles a day. We also built a 830 foot long bridge over the Charles River, which is the longest steel box culvert span in North America. Steel sections weighing up to 330 tons each were delivered through the river locks and jacked into place from barge platforms.

Over the years, DOC has become adept at construction and operation of utility generating and distribution facilities with complex piping and control systems. For example, under our direction design and construction for expansion and renovation of the operations and control center for the entire northeast power grid was completed without any disruption to service. Other typical projects include demolition and reconstruction of an outdated dam and bridge structures, and riverway diversion.

ESTABLISHED 1879





North System Headworks Facility

Deer Island, MA

Part of the Boston Harbor Cleanup Project, the North System Headworks Facility provides preliminary treatment of wastewater by screening out large objects that would damage equipment. Construction includes a grit facility, primary pretreatment gallery, primary treatment control building and two odor control facilities. DOC served as general contractor in a joint venture with Barletta Engineering Corporation.

Client	**Massachusetts Water Resources Authority**
Architect	**Metcalf & Eddy**

ESTABLISHED 1879

Rehabilitation of Primary and Secondary Clarifiers

Deer Island, Boston Harbor, MA

This project for the MWRA includes the rehabilitation of the Primary and Secondary Clarifiers at the 1,200 mgd Deer Island Treatment Plant. The clarifiers include 48 primary and 54 secondary rectangular tanks, respectively. Each clarifier consists of four bays (20' x 200'). The primary clarifiers have concrete covers for odor control purposes. Includes removal and replacement of nearly 60 miles of stainless steel chain, along with sprockets, bearings, flights, wearstrips, valves, and rehabilitation of concrete. The construction will be completed in phases while the plant remains operational and is expected to take three years to complete.

Client	**Massachusetts Water Resources Authority**
Engineer	**Fay, Spofford & Thorndike**

ESTABLISHED 1879

Massachusetts Water Resource Authority
Loring Road Covered Reservoir

Weston, MA

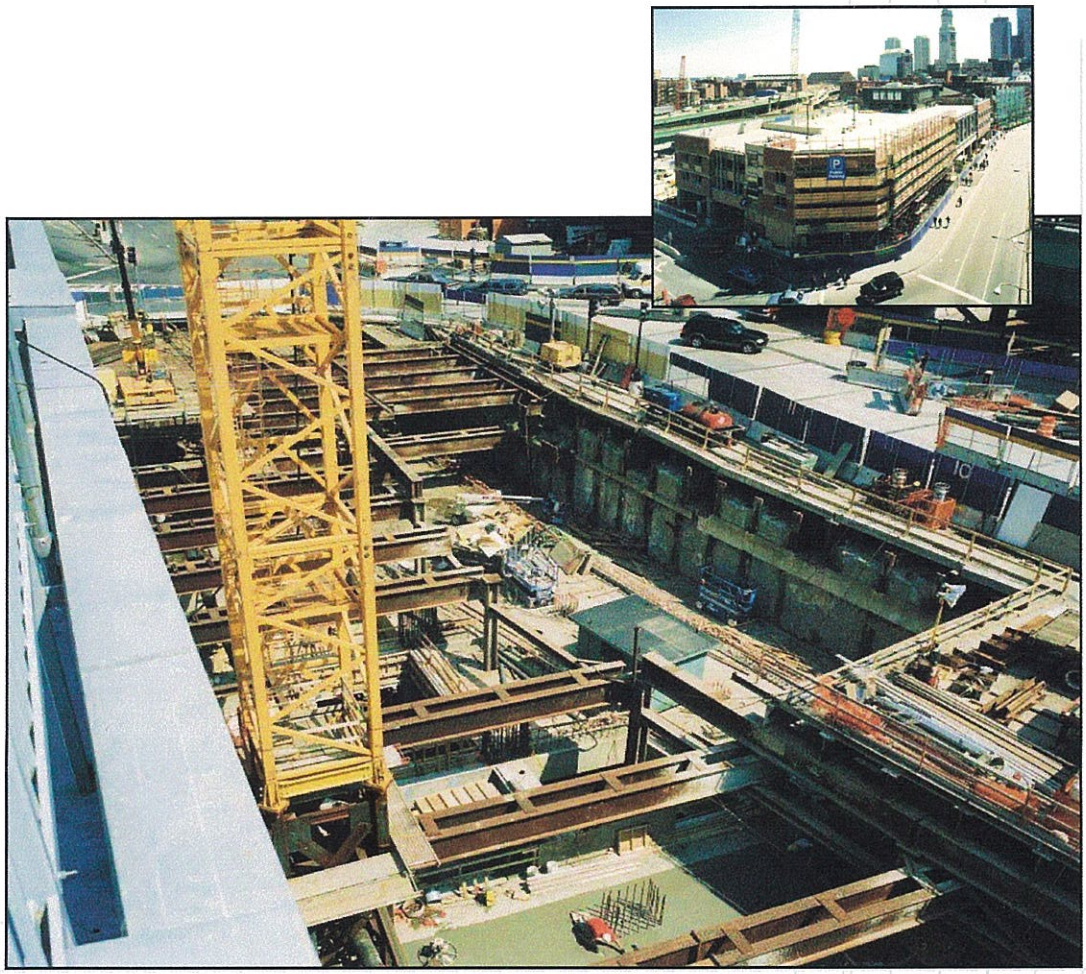
This 20 million-gallon covered drinking water storage facility provides higher and more stable water pressures to a large service area in the metropolitan Boston vicinity and prevents contamination of treated water. The facility consists of two concrete water storage tanks, buried below ground, landscaped and covered with meadow grass. Building this massive, heavy construction project in the midst of a quiet, residential neighborhood was a significant challenge. Extensive mitigation efforts were put in place to minimize the impact of noise, dirt, rock blasting, and construction traffic on the neighborhood.

Client **Massachusetts Water Resource Authority**

Engineer **Sverdrup Civil**

A Joint Venture Project
Of O'Connell-Barletta, Inc.

ESTABLISHED 1879



Central Artery Vent Building and Parking Garage

Boston, MA

Construction of Vent Building No. 4 included a 310-car parking garage with retail space, renovations to the MBTA's Haymarket Station and utility relocations. The garage was partially construction over the existing MBTA station, which remained open and operational throughout construction. Deep excavation for concrete ductwork was 120-ft below grade. DOC served as general contractor in a joint venture with Walsh Northeast.

Client	**Massachusetts Highway Department**
Engineer	**Bechtel/Parsons/ Brinkerhoff**

A Joint Venture Project with Walsh Construction

ESTABLISHED 1879

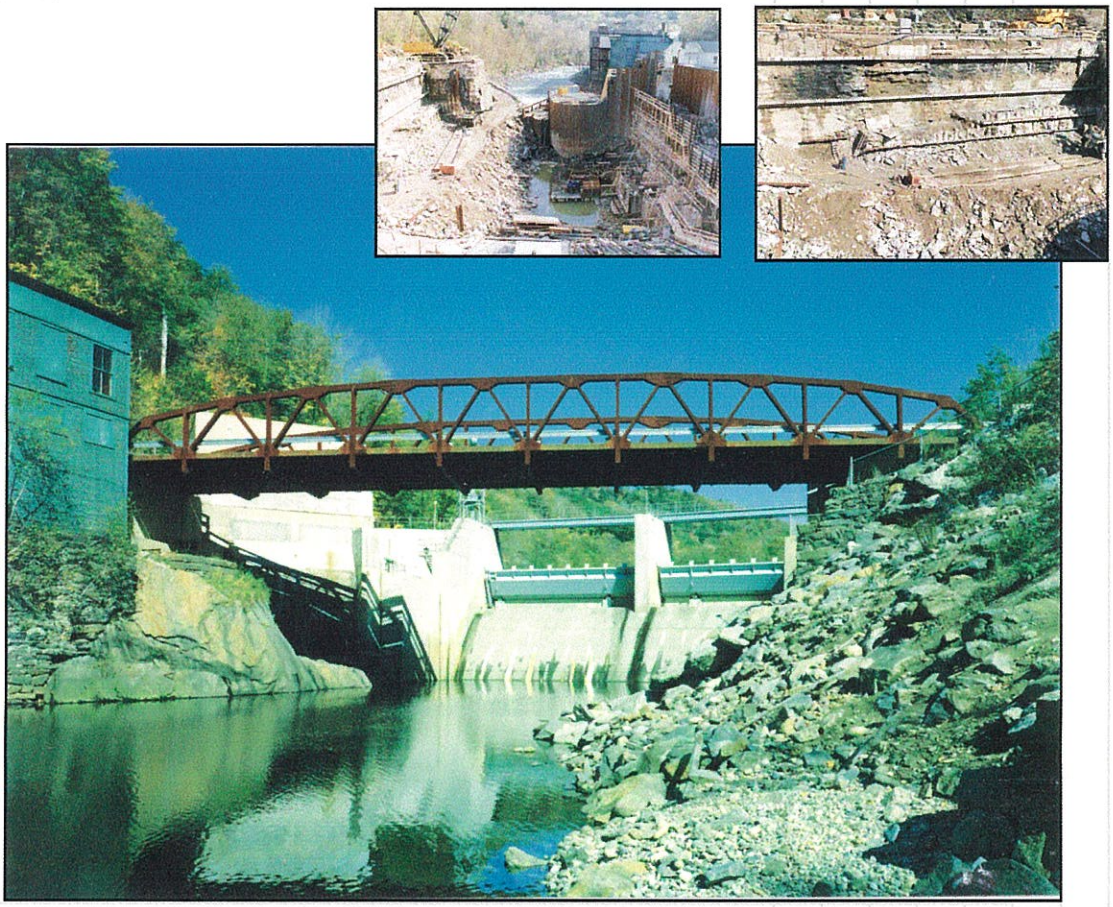
Tunnel Station, Upstream Fish Lift

Preston, CT

Construction of a new fish lift and related structures on the Quinnebaug River enabling the upstream passage of herring and shad during spawning season. The lift elevator is remotely operated and will "crowd" fish into the lift chamber and raise them over thirty feet to continue their journey. The work involves new channel walls at the Forebay to the power plant and a flume device to release fish. Unique challenges included a two-part cofferdam solution for safe construction access. One cofferdam was set onto cleaned rock and supported by internal concrete base pads built by divers using tremie methods. The other cofferdam was essentially a permanent ten foot diameter caisson, bedded into rock anchors by a dive team, then filled with concrete to provide the support pier of a portion of the structure above.

Client	**Northeast Utilities**
Engineer	**Northeast Generation Services**

ESTABLISHED 1879



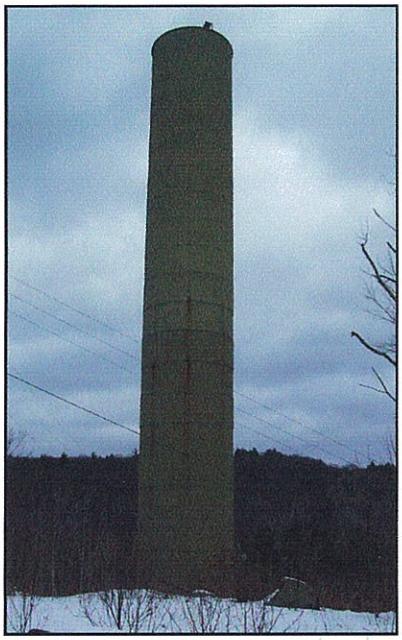
Deerfield #5 Dam Replacement

Monroe, MA

This project involved the removal of the existing #5 dam, a timber crib structure dating from the 1890s. The new concrete dam has adjustable crest gates. The entire flow of the Deerfield River was diverted through the hydroelectric generating station during construction. The bridge between Rowe and Monroe, MA was removed during construction and rebuilt upon completion of the new dam. DOC served as general contractor on the project.

Client	**New England Power Company**
Engineer	**Black & Veatch**

ESTABLISHED 1879



Hydropower Tunnel Surge Tank

Springfield, MA

Daniel O'Connell's Sons removed and existing surge tank (a 207' tall, 25' diameter steel standpipe), modified the existing tank foundation and constructed the replacement surge tank. DOC was also responsible for removing lead-contaminated soils.

Client	**Springfield Water and Sewer Commission**
Engineer	**CDM Engineering**

ESTABLISHED 1879

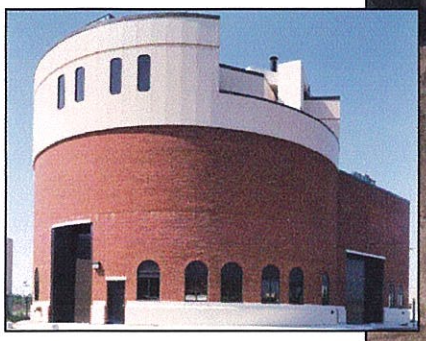
Fields Point Waste Water Treatment Facility

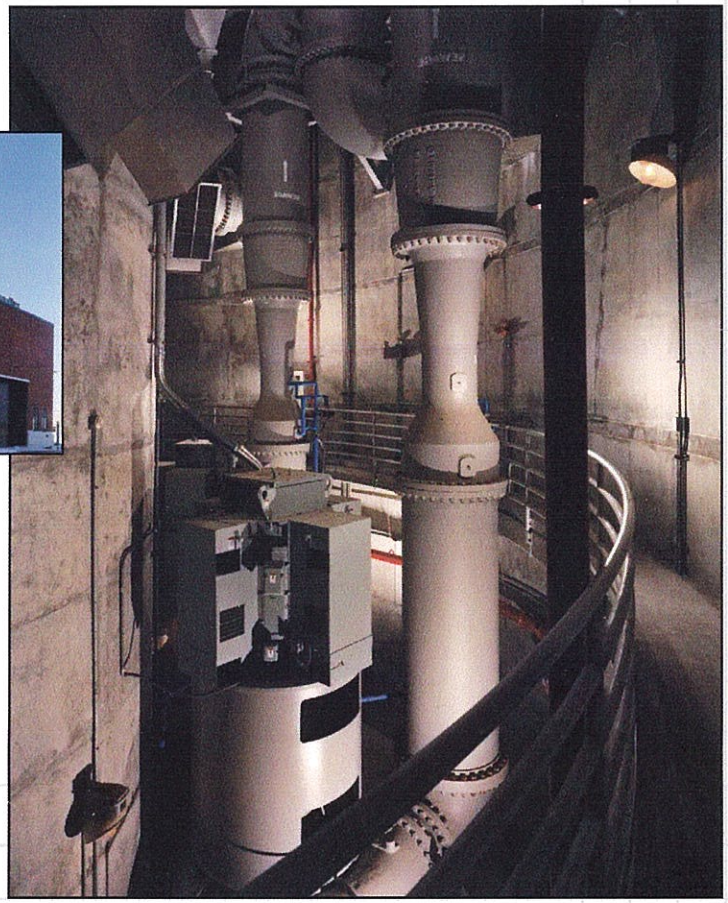
Providence, RI

Daniel O'Connell's Sons is general contractor for this portion of the combined sewer overflow system installed for Narragansett Bay. Specifically, our task involves new and upgrade work associated with biological nitrogen removals. The work includes upgrades to plant water and primary/secondary clarifiers; grit handling facilities; gravity thickeners and aeration tanks. Also included is a new operations, screening and caustic building with blower building modifications and screw lift replacement.

Client	**Narragansett Bay Commission**
Engineer	**SEA Consultants, Inc.**

ESTABLISHED 1879





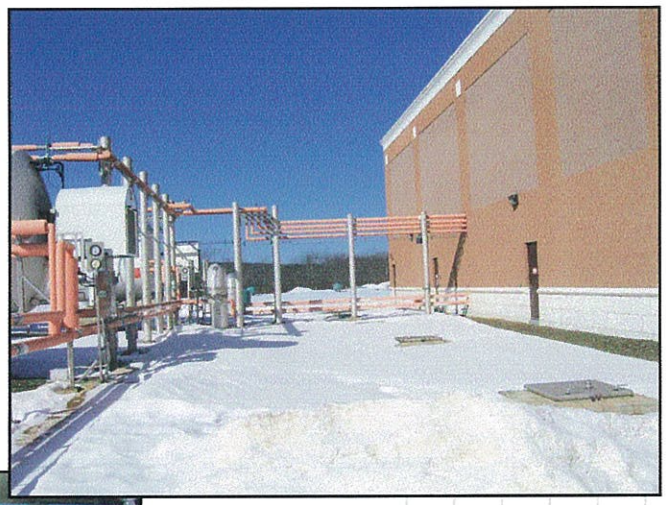
Caruso Wastewater Pump Station

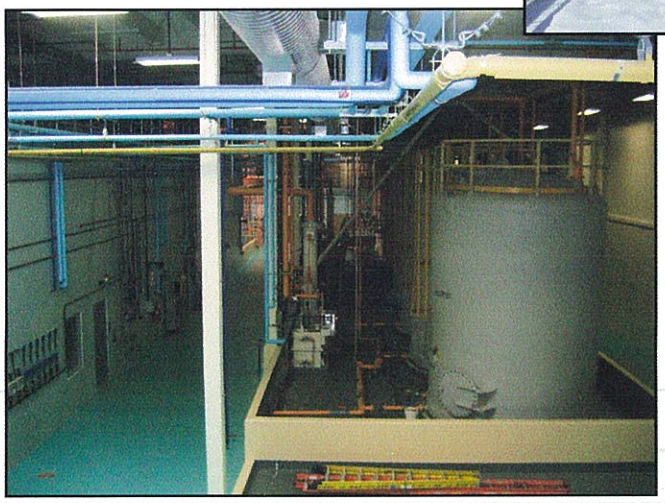
East Boston, MA

Among the many challenges on this urban construction site, this project involved construction of a 65 foot diameter, 80 foot deep underground wastewater pump station. Seven pumps transfer sewage to a wastewater treatment plant in Boston Harbor. The engineering challenges included a 100 foot deep slurry wall, in a silo shape for the full perimeter of the site. Daniel O'Connell's Sons, as general contractor, also relocated an existing 54" active sewer line in advance of pump station

Client	**Massachusetts Water Resources Authority**
Engineer	**Metcalf & Eddy**

ESTABLISHED 1879





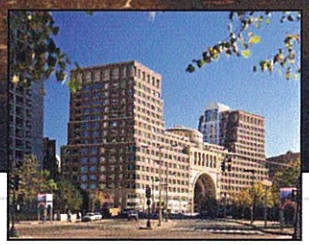
John J. Carroll Water Treatment Plant

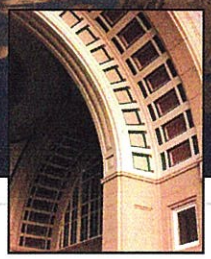
Marlborough, MA

This project consists of renovating the existing drinking water disinfection plant by installing new ultraviolet disinfection equipment, all new electrical equipment for the renovations, instrumentation and controls equipment and HVAC equipment. This will be done by creating a temporary bypass of the two extended ozone contact chambers so that the demolition of the concrete roofs and baffle walls can be accomplished. This will allow for the accommodation of 12 in-line ultraviolet units and all ancillary equipment. Also, a temporary sodium hypochlorite feed system will be installed to allow for the removal and relocation of existing chemical feed points for sodium hypochlorite and sodium bisulfite. This project will be completed in two phases which will allow the Authority to operate the plant at half capacity for the entire duration of the project.

Client	**Massachusetts Water Resource Authority**
Engineer	**AECOM**

ESTABLISHED 1879





Rowes Wharf

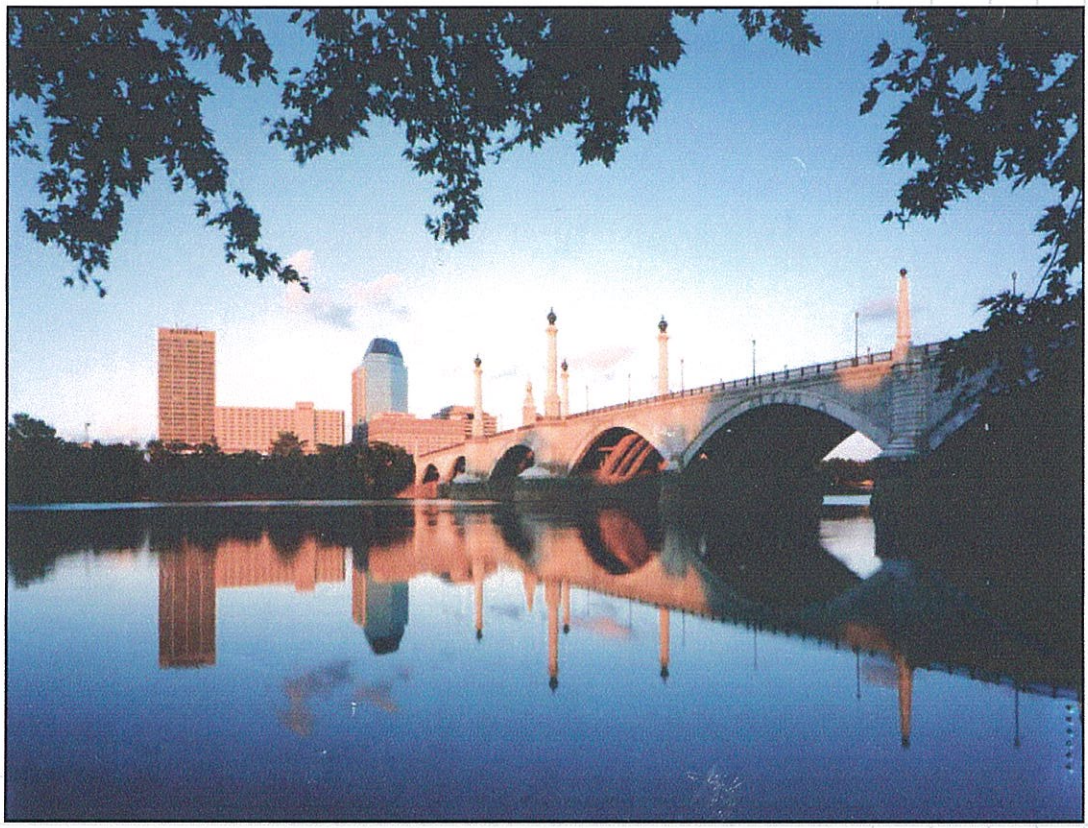
Boston, MA

A 15-story mixed use development project, totaling 665,000 square feet, built largely on piles *in* Boston Harbor. Complex includes the prestigious Boston Harbor Hotel, luxury residential condominiums, prime office space, below-grade parking garage, and marina facilities. Under the direction of DOC's project management team, this project pioneered the use of up -down construction in the United States. This joint-venture project with Beacon Construction Company was honored with the prestigious Build America award by the Associated General Contractors of America.

Client	The Beacon Companies and The Equitable
Architect	Skidmore, Owings & Merrill of Chicago

Winner of the Build America Award

ESTABLISHED 1879



Memorial Bridge Reconstruction

Springfield, MA

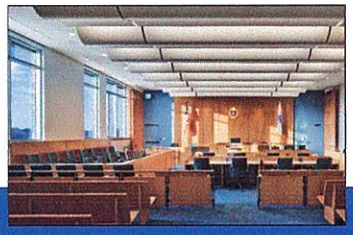
The Memorial Bridge is a 1500-ft landmark bridge that carries nearly 25,000 vehicles a day. The challenges for this complex reconstruction project included a demanding schedule, logistical constraints, and road and river hazards on a bridge that had to remain open throughout the project. The structure was completely refurbished above the waterline. Despite a substantial increase in the scope of critical work items, brutal winter weather, and river flood waters, DOC finished the project ahead of schedule. Work on this contract was preceded seventy-five years ago when Daniel O'Connell's Sons built the original structure.

Client	**Massachusetts Highway Department**
Architect / Engineer	**Fay Spofford and Thorndike**

Winner of the Build America Award

DOC

ESTABLISHED 1879



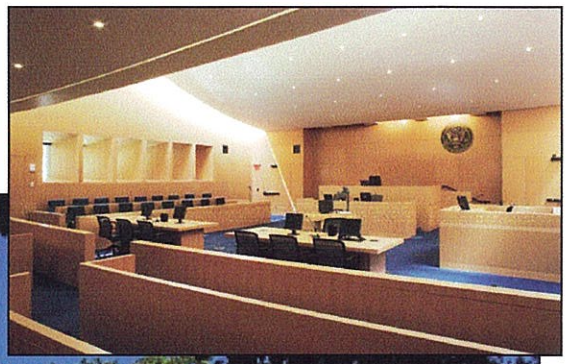
J. Michael Ruane Judicial Center

Salem, MA

This project consolidates five court departments into two adjacent buildings, offering opportunities for shared resources and building efficiencies. The new building houses the Superior Court, District Court, Juvenile Court, Housing Court, and Probate & Family Court. A total of 11 new courtrooms provide fully-accessible judicial facilities that meet current national court standards. As part of the project, the historic First Baptist Church was relocated and renovated to serve as a new Law Library.

Client	**DCAM, Commonwealth of Massachusetts**
Architect	**Goody Clancy & Associates**

ESTABLISHED 1879



U.S. Federal Courthouse

Springfield, MA

The new US Federal Courthouse forms a spiraling crescent around ancient Copper Beech and Linden trees original to the site. A colonnaded entry pavilion leads to a curved colonnade for pedestrians and the grand stair, which leads to the courtrooms on the building's third public level. Judges chambers are located in a parsonage-like annex. The façade is a combination of limestone precast and glass with a three-story circular colonnade. This is built out of 40ft precast columns faced by a custom designed curtain wall. The main entrance is also bordered by an all-glass pavilion structure. The building satisfies security measures for a Federal Courthouse.

Client	**US General Services Administration**
Architect	**Moshe Safdie & Associates**