

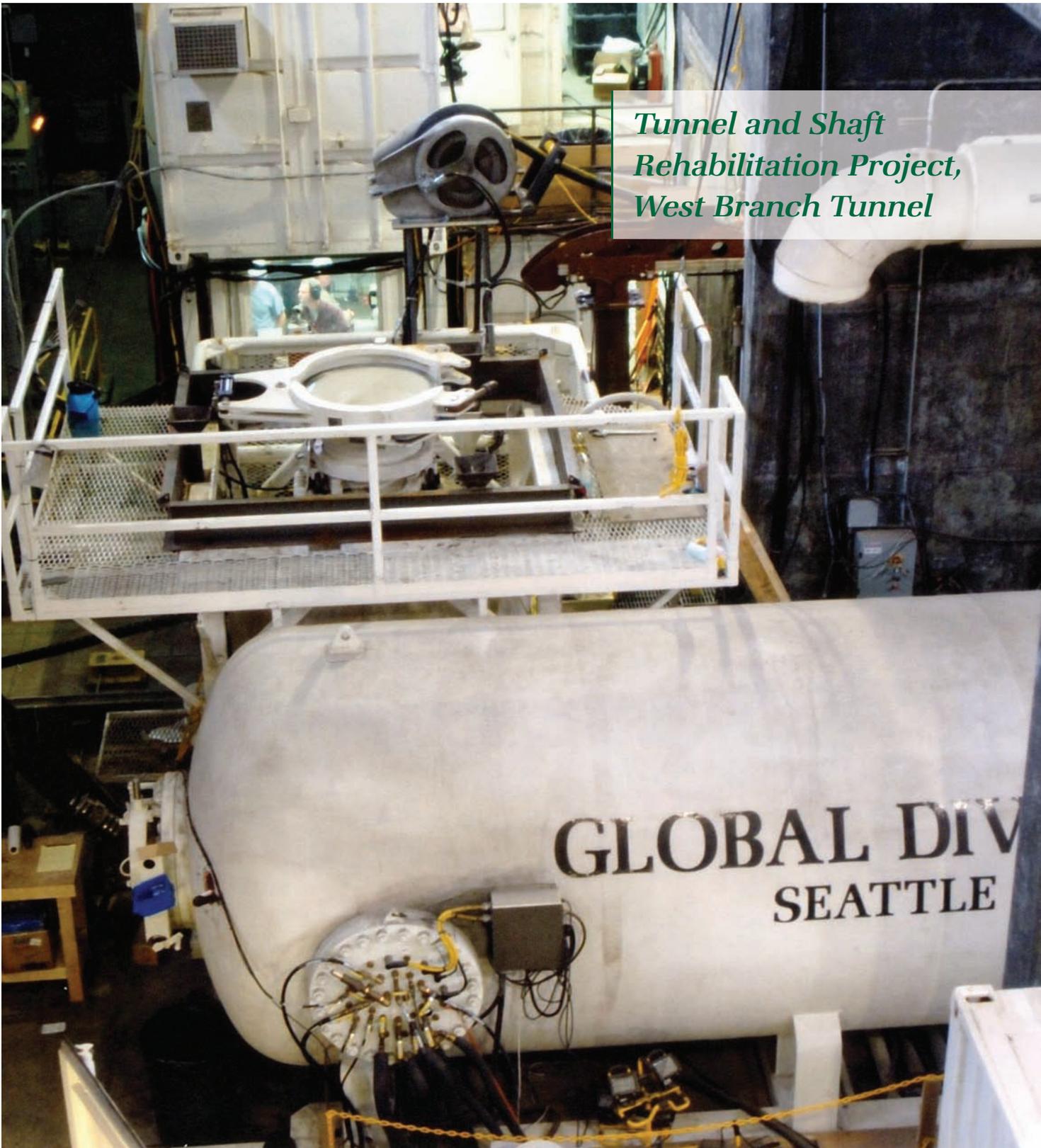


John P. Picone INCORPORATED

31 Garden Lane
PO Box 9013
Lawrence, NY 11559
www.johnpicone.com

P: 516.239.1600
718.634.1900
F: 516.239.1757

Tunnel and Shaft Rehabilitation Project, West Branch Tunnel



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John P. Picone INCORPORATED

Project Manager: Thomas D'Amelia

Contract Number: DEL-185

General Contractor: Rondout Contractors
(Schiavone/Frontier-Kemper/Picone JV)

Agency: NYC DEP

Contract Amount: \$239,500,000.00



Tunnel and Shaft Rehabilitation Project, West Branch Tunnel

The scope of work for the DEL-185 Tunnel and Shaft Rehabilitation Project of the WM-30 Rondout - West Branch Tunnel (Shaft #6) will initially involve preparatory site work, fencing, road access, retaining walls, parking areas and electrical substation improvement.

A contractor lay down, storage area and both DEP and the JV's Field Office will be created along with a facility for the storage of materials and supplies for use on the project. It is anticipated that the initial phase of the project will take approximately one year from the date of the contract award and be done by local Subcontractors.

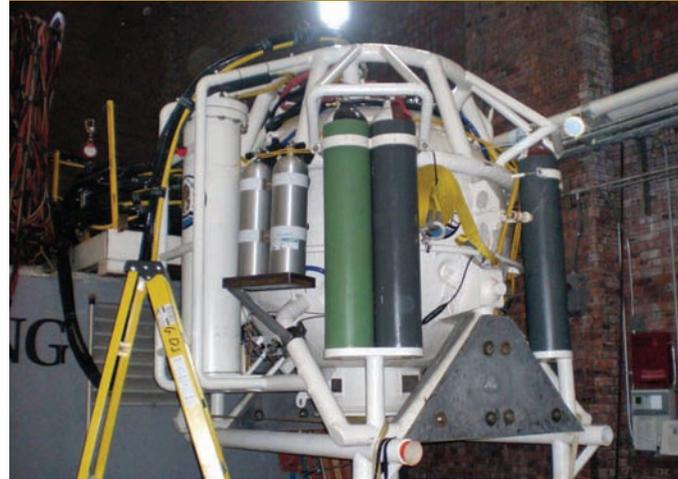
Additional scope will involve heavy topside civil, steel, electrical and concrete work for the entire building superstructure at (Shaft #6).

Challenges:

One of the most challenging features to this contract is the initial phase of work that requires Rondout Constructors to replace a 24" gate valve. The existing valve was installed in the 1940s when the Delaware Aqueduct was constructed and is the single most important component to New York City's water supply. It is the City's means to dewater the water tunnel, which is the source of over 50% of the city's daily water supply. This tunnel is currently leaking between 15 and 30 million gallons a day into the Hudson River and upland areas.

The valve is currently submersed in 700 feet of water and can only be removed by divers. These divers live in a saturation pressure chamber for 25 days and will be called upon to perform extensive concrete demolition and piping removal and installation. They will also perform an array of inspection and testing to ensure that the shaft can be dewatered to perform future repair work.

The coordination and planning of all work are of the utmost importance.



Unique Features:

The general purpose of this contract is to develop an efficient way to dewater the leaking Delaware Aqueduct. To accomplish this goal divers have to go 700 ft down the tunnel drainage shaft to inspect the condition of the 70-year-old submerged equipment. Next, the divers would replace a leaking 24" gate valve to prepare the temporary unwatering of the shaft.

Then comes the installation of 2 trains of 3 centrifugal pumps and 3 vertical turbine pumps. The clearances of these massive pumps, along with over 3,000 ft of 18-in pipe coming up the 13-ft diameter shaft will make for a very small margin for error.

