



# FACTS ABOUT MWRA'S NORUMBEGA COVERED STORAGE FACILITY



**Purpose:** Replaces the open Norumbega Reservoir with a secure buried water storage facility, eliminating the last open air contact in the system that serves 1.9 million people in 39 communities.

**Design/Build Project:** First major design/build contract done by MWRA

**Total Program Estimated Completion Costs:** \$100 million (includes design, construction management, construction and other support costs)



**Construction Schedule:** August 2000-December 2004

**Footprint of Tank:** Nearly 18 acres (over 13 football fields)

**Elevation:** New tank elevation is 280 feet above Boston enhancing the water system pressure

**Capacity and depth of tank:** 115 million gallons, 28 feet



**Benefits:** Improved water pressure, greatly enhanced water system security, improved water quality and consistency of treatment effectiveness for disinfection and corrosion control

**Yards of concrete used:** 100,000 cubic yards of concrete was placed on the site with 95% used from a batch plant



**Blasted Rock:** 100,000 cubic yards of blasted rock with 100% being crushed and used on site

**Imported Fill:** 500,000 cubic yards was used

**Large Piping and valves:** 12 and 10 feet in diameter

**Number of columns inside the tank:** 1,020



**Final Landscaping:** Roof of the tank will be a grassy meadow and the slopes and disturbed areas will be stabilized and planted with 1,700 shrubs and trees

**Project Coordinated with:** Treatment Facilities at Walnut Hill and the MetroWest Water Supply Tunnel

**Memorandum of Agreement:** Weston



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**Design Build Contractor:** Norumbega Contractors- A joint venture of J.F. White with Slattery-Skanska in association with Metcalf & Eddy



**Owner's Representative:** Malcolm Pirnie Inc. with assistance from PMA Consultants and Comprehensive Environmental Inc.

