

# Bore-Gard® Installation – 150 ft., 190 ft. & 240 ft. Liberty Island, New York

<b>Distance of Installation:</b>	150 feet, 190 feet and 240 feet
<b>Maximum Pulling Force on Pipe:</b>	Approx. 1000 pounds
<b>Reamer Diameter:</b>	16" Backreamer
<b>Soil Conditions:</b>	Granite wall, rock fill, dirt and water

The Liberty Island was needed to provide future utility and cable needs. Horizontal Directional Drilling was the preferred method of installation because it minimized any disruption to the islands pristine environment and tourist activities and Bore-Gard's convenient 10 and 20 foot lengths were ideal for limited space. Three bores were needed on the island, the first was 150 ft. under a bricked walkway to the corner of the gift shop, the second was 190 ft near a row of oak trees, and the third was 240 ft. under a recessed walkway near the base of the statue.



**Left:** Limited spaces and minimizing disruption to the pristine environment and daily tourist activities made Horizontal Directional Drilling and Carlon Bore-Gard the ideal solution.



**Above:** Bore-Gard was transported to the island, after visiting hours, on a 10,000 s. ft barge pushed by a tugboat.



**Left:** Using a 16" backreamer, two 6 inch Bore-Gard ducts are being pulled into the 190 ft. bore