



# Park Avenue Tunnel Rehabilitation

## New York Department Of Transportation Division of Bridges

**Location:** New York City, New York USA

**Date:** 2014 – Present

**Structure:** One Lane Road Tunnel

**Length:** 1,394.4 feet (425 meters)

**Cross-Section:** Width: 16 feet ( 4.9 meters)  
Height: 8 feet 11 inches (2.7 meters)

**Geology:** --

**Cost:** --

**Client:** The New York City Department of  
Transportation Division of Bridges  
(NYC DOT - Bridges)

**Owner:** The City of New York



Figure 1. Park Avenue Tunnel, Image Courtesy of the DOT

### Tunnel Rehabilitation Inspection Services:

The Park Avenue Tunnel in New York City carries one lane of Northbound traffic from 33rd St to 40th St. The tunnel, completed in 1834 as an open cut and covered in 1852, has been in operation for over 150 years, and was previously used for various railroads. The rehabilitation of the tunnel began in 2014, and consists of complete reconstruction of the tunnel. As part of the works, the tunnel drainage system has been replaced, including installation of catch basins, manholes, and drainpipes, both in the vertical walls and underneath the pavement. A new shotcrete lining will be installed which will have steel reinforcement with lattice girders to allow control of geometry.

GZ has been contracted to perform Resident Engineering inspection services (REI) during the reconstruction of the Park Avenue Tunnel. Specifically, GZ has supervised the demolition of existing tunnel walls, the installation of a new waterproofing membrane and tunnel drainage, and the construction of new final support utilizing shotcrete.