



# NYCT Flood Mitigation/Resiliency Design

## Feasibility Study at 148th & 207th Street yards and portals

As part of the Sandy rebuilding effort, AG performed electrical design services addressing flooding resilience at two facility locations in flood-prone areas: the yard and portals located at 148th Street, as well as 207th Street.

The extensive and highly specialized work covered investigations of pump rooms adjacent to the portals (one at each site), electrical design for stop lock type flood gates (such as plates lowered by a chain in front of a tunnel portal), electrical design for flood gates at entrances (such as security gates that come out of the ground), review of all existing electrical NYCT drawings, for both sites, to determine the power sources, and electrical design for the flood gates.

The method by which to deliver power to the the new flood gates was a critical challenge. The AG team prepared an exhaustive cost/benefit analysis of all options and presented the findings to NYCT.

After approval from all key stakeholders, the preferred option became the basis from which a comprehensive flood resilience design could proceed, and all deliverables were provided on time and within budget.



Location:  
Brooklyn, NY

Owner:  
NYC Transit

Client:  
HDR

Completion Date:  
2017

Services Provided:  
Electrical

Staff Hours:  
1,500

A.G. Consulting Engineering, PC  
131 W 33rd Street, Floor 12  
New York, NY 10001  
212-268-0950  
agceng@agceng.com  
www.agceng.com