Robinson Avenue Area

Staten Island, NY

Water Distribution Improvements and Alleviating Area Flooding

The 100-acre Robinson Avenue Area infrastructure project was unique and challenging. Not only did it resolve flooding issues and improve water distribution within the residential areas, but it resulted in a successfully completed, complex project that included large chambers and 8′ x 4.5′ FTRC box, 30″ elliptical, and 54″ circular culverts that were installed on nearly 43,000 feet of piles. The unique design was in the construction of pontoon gates and stop log chambers, and the installation of duckbill valves at catch basins near the outfalls that acted as backflow preventers to high-tide waters. Adjacent to the outfall, the project converted an open space into a passive recreation area with trees and a walking path. The new curb, improved center median, and widening of the Hylan Boulevard design improved safety for both vehicular and pedestrian traffic. An improvement of pedestrian ramps, street enhancements with a repaved roadway, reconstruction of curbs and sidewalks, and planting of hundreds of new trees helped beautify this residential area and make it more sustainable.

Project: **Robinson Avenue Area Water Distribution Improvements and Alleviating Area Flooding**
Staten Island, NY

Client: NYC DDC Department of Design and Construction
Long Island City, NY

Entrant: KSE KS Engineers, P.C.
New York, NY