

The Pascack Brook Improvement Project



The Pascack Brook Improvement Project is designed to prevent flooding in the Village of Spring Valley. There are nearly 125 homeowners who have been affected by constant flooding at least twice a year, this project will greatly improve drainage conditions for motorists and the public. The Rockland County Drainage Agency retained KS Engineers to provide pre-construction engineering reviews, engineering inspection and post construction services. The first challenge on this project was to install all the proposed sediment and erosion control devices in accordance with the approved plan to prevent any rainwater driven debris from reaching the storm sewer system. KS Engineers ensured all the devices were in place prior to start of construction. Another challenge was to redesign the closure piece of the box culvert. KS Engineers assisted in redesigning this crucial structure piece that involved two sewer main siphons. The construction of the bypass culvert stretched nearly 1,650 feet parallel to the Pascack Brook, diverting all floodwater and improving drainage conditions. New water mains and over a mile of sewers were installed on both sides of the culvert to improve the existing water distribution systems. In addition, new catch basins, chute connections, access and sewer manholes, sidewalks, cubs, pedestrian ramps and roadway reconstruction were also part of this Project. Complete reconstruction of the Union Road Bridge including structural steel modifications, full deck replacement, installation of a new pedestrian walkways and new bridge rail system was a part of this Project. The largest challenge was that the project was located in a densely populated neighborhood.

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County of Rockland, Drainage Agency,
Division of Highway Department
New City, NY

Entrant:

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