

CASE STUDY

Fast Install for Express Lanes

Broward County, FL

OWNER

Florida Department of Transportation,
Tallahassee, FL

ENGINEER

Parson Brinckerhoff, New York, NY

INSTALLATION DATE

December 2018

PRODUCTS

23,600' (7193 m) of 18" (450 mm) HP Storm pipe
5,780' (1762 m) of 24" (600 mm) HP Storm pipe
4,880' (1487 m) of 30" (750 mm) HP Storm pipe
2,480' (756 m) of 36" (900 mm) HP Storm pipe

DESCRIPTION

The Florida Department of Transportation (FDOT) needed to extend the existing express lanes on I-95 from Commercial Boulevard to West 10th Street in Broward County. The project, called Express Phase 3A-2, called for watertight joints between sections, to meet a 100-year design service life, fit the budget and meet FDOT requirements, including post-installation inspection.

HP Storm pipe was chosen over reinforced concrete pipe (RCP) due to its superior joint performance, durability, ease of installation and overall cost effectiveness. Another key factor was the polypropylene pipe is stiffer so it consistently passed the DOT's mandate that all projects undergo a laser profile inspection that checks for joint gaps, cracks and the pipe's ovality. If the pipe does not pass the laser profiling, FDOT may require it to be repaired, reinstalled or replaced entirely.

HP Storm passed all of the requirements after installation. The 20' (6 m) lengths of pipe reduced the number of joints in the pipeline, reduced installation time and increased crew efficiency. Nesting the different pipe diameters reduced truck deliveries and on-site storage space.

