

# Microtunneling Overview

The microtunneling operation at E. 10th Street will create a 66-inch-diameter tunnel beneath the FDR Drive, allowing for the installation of a new 42-inch sewer line in a steel sleeve. These lines connect the branch interceptor to the 109-inch interceptor, improving stormwater drainage capacity.

This operation utilizes the Herrenknecht AVN1200TC boring machine, and a 260-ton thrust block in the launching pit. The 120-foot run will begin east of the FDR Drive in East River Park and move towards E. 10th Street, west of the FDR Drive.



### Launching Pit

Outer footprint: 36'x19'  
Depth: 26.4'  
Depth to groundwater: 8.9'



### Receiving Pit

Outer footprint: 15'x15'  
Depth: 25.2'  
Depth to groundwater: 5'

Both pits utilize a tremie concrete plug to create watertight shafts and resist hydrostatic uplift forces.

Soil in the area of E. 10th Street predominately is composed of urban fill which includes nonhomogeneous amounts of sand, silt, gravel, and cobbles, as well as historic debris including brick, stone, concrete, metal, wood, ash, organic materials as well as other materials used to increase the land area of Manhattan.

### EAST 10TH STREET PLAN AND PROFILE

