

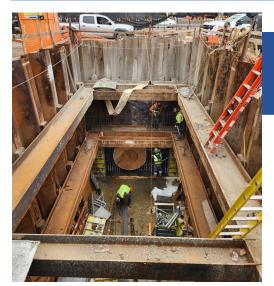
## Microtunneling Overview

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.

**GEOLOGIC UNITS:** 

FILL ORGANIC CLAY (CH) SILTY CLAY (CH)



LEGEND:

- GROUND WATER

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.

## 

GROUND SURFACE

**EAST 10TH STREET PLAN AND PROFILE**