



BOSTON WATER & SEWER COMMISSION
REHABILITATION OF THE NEW BOSTON MAIN INTERCEPTOR
Contract No. 21-309-005A
Report for May 1 through May 31, 2023

PROJECT SUMMARY

The New Boston Main Interceptor (NBMI) is a critical part of the BWSC's wastewater system, carrying sewage and stormwater from more than 3,000 acres in City neighborhoods. Due to severe degradation the NBMI system needs to be rehabilitated. The goal of this project is to rehabilitate a 500-foot portion of the existing 102-inch NBMI and four major sewer structures. The sewer system is approximately 25 to 35 feet deep, and rehabilitation work is being done in a "trenchless" manner to avoid deep excavation along the pipe length and to minimize neighborhood and traffic disruption.

SPECIAL MANHOLE B – MOAKLEY PARK

COMPLETED WORK

Replaced and reconfigured a 24-inch pipe where flows come into the NBMI from the north to reduce turbulence. The purpose of this work is to reduce the corrosive and odorous gases caused by the sewer.

UPCOMING WORK

None anticipated in this phase of work.

SPECIAL MANHOLE C – DORCHESTER AVE

COMPLETED WORK

Occupying temporary work zone only during non-peak hours to clean the structure interior and remove existing deteriorated components such as handrails and a gate. Removed degraded concrete from interior walls by hydro blasting. Began demolition of a section of the existing brick shelf.

UPCOMING WORK

Repair and rebuild walls with cement-based spray-on liner and epoxy coating; reconfigure flow channels and install new grate walkways, handrails, and ladders necessary for safe maintenance. Install new stop log systems.

SPECIAL MANHOLE D – PREBLE ST

COMPLETED WORK

Initial measurements investigations, cleaning, and test pits. Measured downstream pipe to be sliplined using laser and sonar technology, as well as pulling a model of the pipe segment through to make sure the slipline pipe will fit.

UPCOMING WORK

Sliplining of 102-inch pipe and rehabilitation of structure to be scheduled in July to Sep 2023.

SPECIAL MANHOLE E – SOUTHAMPTON ST

COMPLETED WORK

Repaired/rebuilt concrete walls and refurbished brick surfaces and stop log systems. Rehabilitated surfaces with cementitious spray-on liner and epoxy coating. Replaced grate walkways, handrails, and ladders necessary for safe maintenance.

UPCOMING WORK

None anticipated in this phase of work.



Location Map



Crews remove old gate in Special Manhole C.



Special Manhole E, rehabilitated with cementitious liner and epoxy coating and ready for safe access.