



BOSTON WATER & SEWER COMMISSION
REHABILITATION OF THE NEW BOSTON MAIN INTERCEPTOR
Contract No. 21-309-005A
Report for February 1 through February 28, 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 planned for this phase of NBMI Rehabilitation.

SPECIAL MANHOLE C – DORCHESTER AVE
COMPLETED WORK

Initial measurements and cleaning for future rehabilitation.

UPCOMING WORK

Rehabilitation of structure to begin in late March / early April 2023, with temporary work zone only during non-peak hours.

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 May to Sep 2023.

SPECIAL MANHOLE E – SOUTHAMPTON ST
COMPLETED WORK

Repaired and rebuilt walls with cement-based spray-on liner and refurbished interior brick surfaces. Refurbished the existing stop log systems that control flows through the three siphons beneath the T through Andrew Square.

UPCOMING WORK

Apply spray-on epoxy coating to protect cement and brick surfaces from future corrosion. Rehabilitate the structure's roof, including stabilizing an existing access frame and cover, and applying damp-proofing on the outside surface. Shift the work zone to the center of Southampton Street to allow for replacing the remaining portion of the roof, while maintaining traffic in both directions. Install new grate walkways, handrails, and ladders necessary for safe maintenance.



Inside Special Manhole E after cement-based lining work



Crews apply cement-based spray-on liner