

## Rehabilitation of Elevated Deck and Boat Dock at North Branch Pumping Station, NSA

**Project Number** 22-094-3D

**Service Area** North

**Location** North Branch Pumping Station

**Engineering Consultant** In House Design

**Engineering Contractor** To be determined

**Estimated Construction Cost** \$15,000,000.00

**Contract Award Date** December 2023

**Substantial Completion Date** December 2025



### Project Description

This project replaces deteriorated exterior concrete decking, stairs, boat dock, and architectural balustrades at the North Branch Pumping Station. The project will also replace deteriorated flap gates at nearby connecting structure to Drop Shaft DS-M91.

### Project Justification

The North Branch Pumping Station is nearly 100 years old and structural rehabilitation is required to address deterioration of the exterior concrete decking, stairs, boat dock, and architectural balustrades. While performing localized concrete repairs under previous Contract 16-079-3D, it was discovered that the existing concrete was in worse condition than anticipated. Furthermore, it was determined that localized concrete repairs would not sufficiently address the extent of structural deterioration and a more comprehensive rehabilitation plan is required. This project replaces existing elevated concrete decking with new concrete decking supported by structural steel framing, installs new protective concrete jackets around existing concrete beams, replaces the deteriorated existing boat dock and stairs in-kind, and repairs large areas of the exterior deck walls. These structural modifications and repairs will extend the useful life of the structure and ensure the pumping station facility remains operational. The project will also replace deteriorated flap gates at nearby connecting structure to Drop Shaft DS-M91.