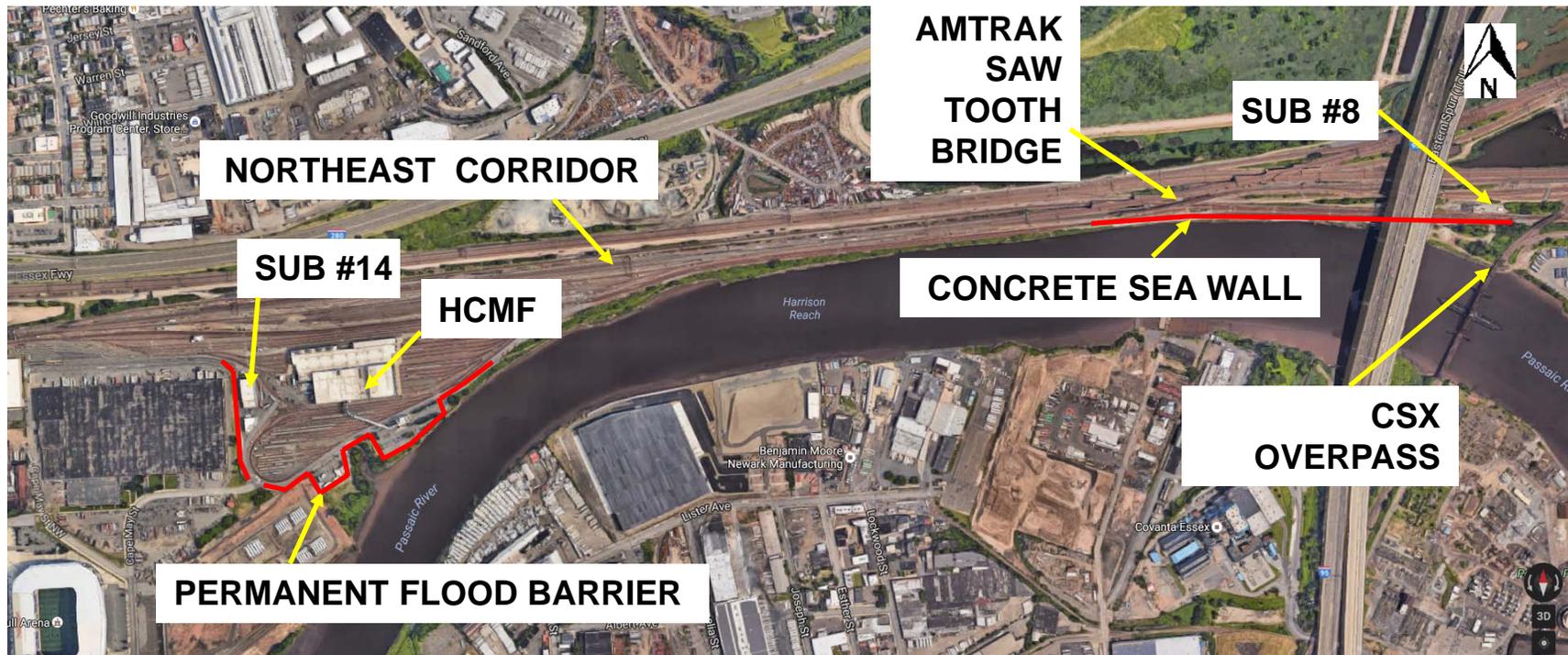


Harrison Car Maintenance Facility Permanent Flood Barrier and Concrete Sea Wall Projects

Committee on Capital Planning, Execution and
Asset Management

November 17, 2016

Background



Scopes of Work & Project Goals

HCMF Permanent Flood Barrier/ Swing Gates

- Permanent flood protection wall around the HCMF.
- Permanent wall along the south and west perimeter of the HCMF.
- Swing flood gates at main entrance and utility service road of the HCMF.



Swing Gate

HCMF Concrete Sea Wall

- Flood protection for the PATH tracks, Substation 8 and signal bungalow.
- Permanent concrete wall along the North bank of the Passaic River.
- Deployable swing gates West of the Conrail bridge.
- Extension of Amtrak bridge pier wall.



Existing Flood Plank Wall

Impacts

- **Operational Impact**

No Impact to Revenue Service

- **Economic Impact**

<u>HCMF</u>	<u>Concrete Sea Wall</u>
120 job-years	150 job-years
\$8M in wages	\$10M in wages
\$35M in economic activity	\$42M in economic activity

Project Cost/Schedule

	<u>Permanent Flood Barrier</u> \$27.2 M	<u>Concrete Sea Wall</u> \$32.2 M
• Construction:	18.2	21.7
• Planning/Engineering/Support:	3.9	4.4
• Facility Forces:	0.1	0.3
• Contingency:	1.8	2.1
• Agency Allocation (Insurance, Administration, Financial expenses)	3.2	3.7
▪ Construction Duration: Q4 2018 – Q2 2021		