

PATH – Replacement of Substation No. 2

Project Authorization

Committee on Capital Planning, Execution & Asset Management
December 13, 2018

Background

- Substation No. 2, located in Jersey City, NJ, provides PATH with:
 - Power to three additional substations
 - Power to tunnel ventilation system
 - Traction power to operate trains
 - Compressed air system for signal system and sump pumps
- Building is more than 110 years old
- Equipment is over 50 years old - requires substantial upgrades
- Building to be transferred to City of Jersey City in exchange for adjacent property to house new substation
- Board approved property transfers in March 2018
- Proposed project:
 - Delivers on agreement with City of Jersey City
 - Provides PATH with a modern, efficient and reliable new substation



Scope of Work

- Furnish, install and commission into service a new substation, including:
 - Traction power transformers, rectifiers, switchgear and compressed air equipment
 - New utility duct banks
 - Associated auxiliary systems and equipment
 - Decommission the existing substation

- All equipment installed in new two-story steel framed building constructed above Federal Emergency Management Agency base flood elevation

Impacts/Mitigation

Operational Impacts/Mitigation

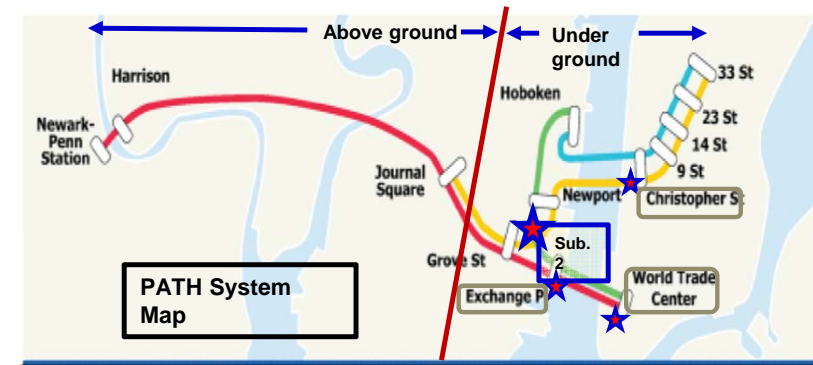
- Construction will be staged to keep PATH system operational at all times to minimize customer and operational impacts
- Coordinate long term street closures with Jersey City to support construction
- Develop a robust customer and local community outreach plan, including input on the development of the façade.
- Coordinate with NJ Transit Light Rail operations during construction

Economic Impacts

- 1,190 total job-years
- \$101.9 million in wages
- \$337.6 million in economic activity

Project Cost / Schedule

Total Project Cost	\$216.2 Million
Construction/Facility Forces:	116.5
Planning/Engineering:	25.8
Contingency	21.3
Site Acquisition	18.1
Agency Allocations	34.5
<i>(Insurance, Admin, Financial Expense)</i>	



Construction Duration: 1Q 2021 to 3Q 2024