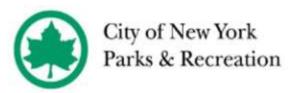
REHABILITATION OF THE HIGH BRIDGE

SCHEMATIC DESIGN

PRESENTATION TO: COMMUNITY BOARDS 4 (BX) & 12 (MN)

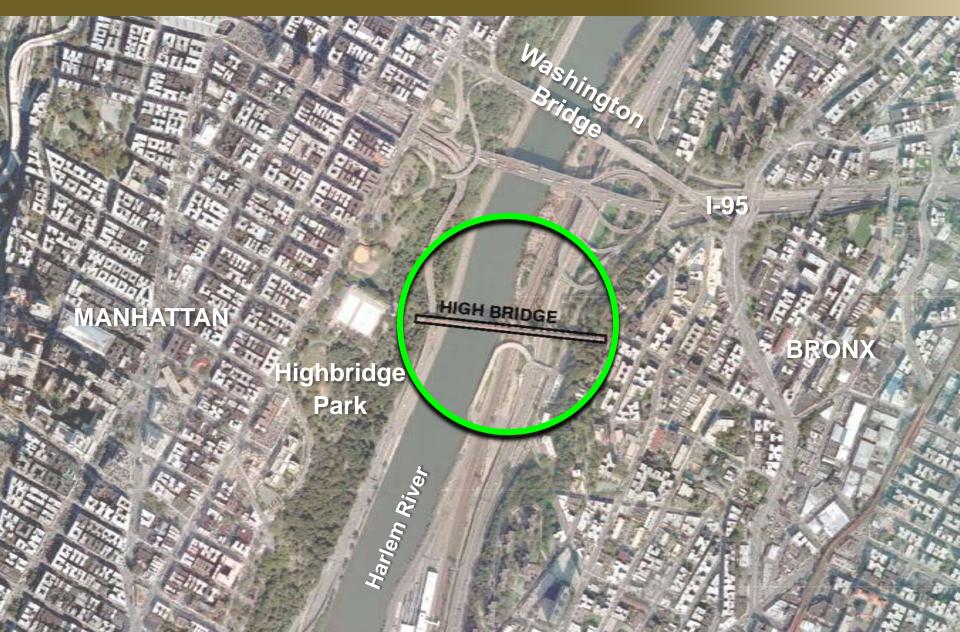
OCTOBER 4 & 5, 2010







LOCATION



AERIAL VIEW



PUBLIC COMMENTS



PUBLIC COMMENTS

Bridge Use

- Design for safe sharing by pedestrians & bicyclists
- Add benches
- Strong, tall fence needed

Bridge Appearance

- Clean the stone arches
- Safety fence should be minimal to preserve views
- Preserve historic appearance
- Show historic aqueduct pipe
- Add lighting on walkway and for decoration

PUBLIC COMMENTS

Education

- Include signs to tell the bridge history
- If possible, create access or views to the aqueduct pipe below

Operations

- Allow regular bicycle commuting/should be open late
- Need security (PEP & Rangers / lighting, fencing, call boxes)
- Have festivals on the bridge
- (Future) Develop public uses for the gatehouses

HISTORICAL SIGNIFICANCE

Exterior

- Granite arches, piers and copings (1848)
- Steel arch (1928)
- Brick walkway (1864 & 1928)
- Iron railings (1864 & 1928)
- Light fixtures (1935)
- Gatehouses not in contract
- Ventilators not in contract

Interior

- Aqueduct pipes and pedestals
- Structural brick arch & tie rods

SCHEMATIC DESIGN

STRUCTURAL IMPROVEMENTS

STRUCTURAL REHABILITATION

MASONRY ARCH SPANS AND WALKWAY

Waterproof deck

Add new steel tie rods below deck

Repoint & clean all masonry (funding permitting)



STRUCTURAL REHABILITATION

MASONRY ARCH SPANS AND WALKWAY

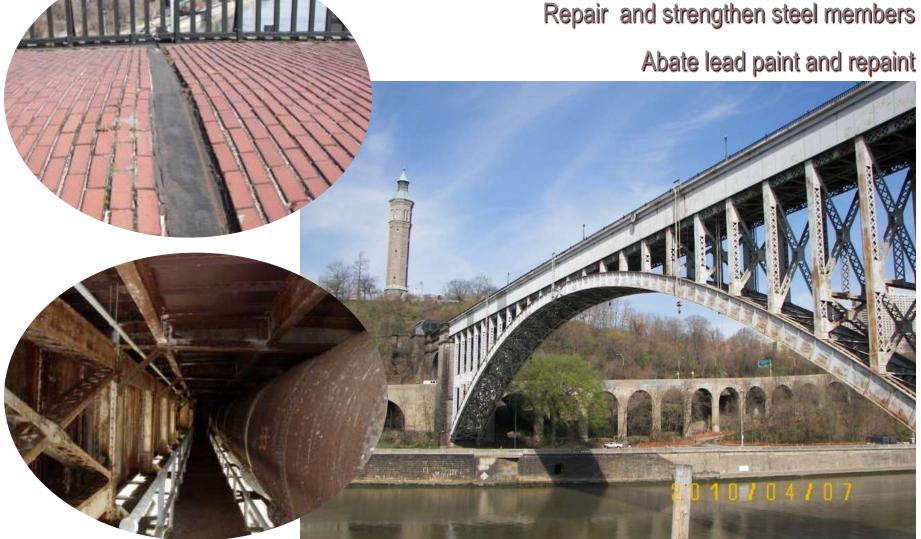


STEEL ARCH SPAN AND WALKWAY

Waterproof deck

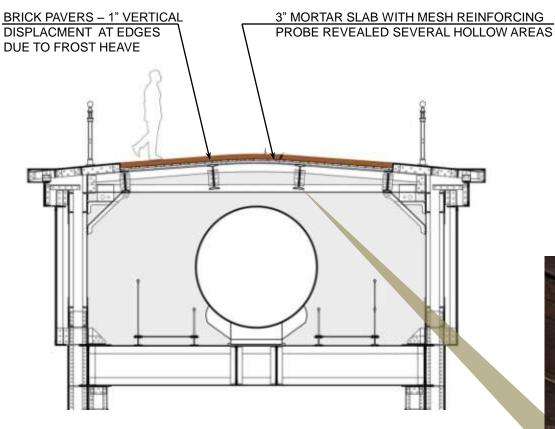
Repair and strengthen steel members

STRUCTURAL REHABILITATION



STRUCTURAL REHABILITATION

STEEL ARCH SPAN AND WALKWAY



STEEL ARCH SPAN SCHEMATIC CROSS SECTION



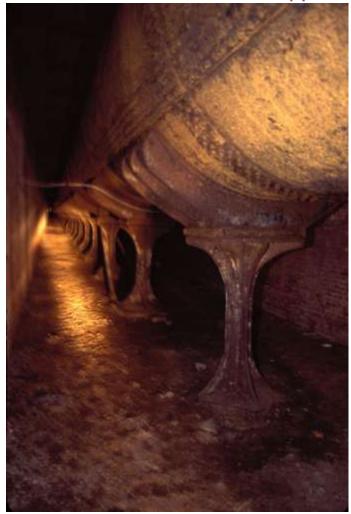
STRUCTURAL REHABILITATION



AQUEDUCT PIPE

Stabilize and preserve pipes

Reset shifted cradle supports



HIGH BRIDGE

SAFETY IMPROVEMENTS

EXISTING WALKWAY AND LIGHTING



SAFETY FENCE FENCE MATERIAL ALTERNATIVES



McNICHOLS 1"X1" Opening Wire Mesh



McNICHOLS 1"X3" Opening Wire Mesh



Jakob W40mm Aperture w/ 3mm Dia. Rope



Jakob W50mm Aperture w/ 3mm Dia. Rope



Jakob W60mm Aperture w/ 3mm Dia. Rope

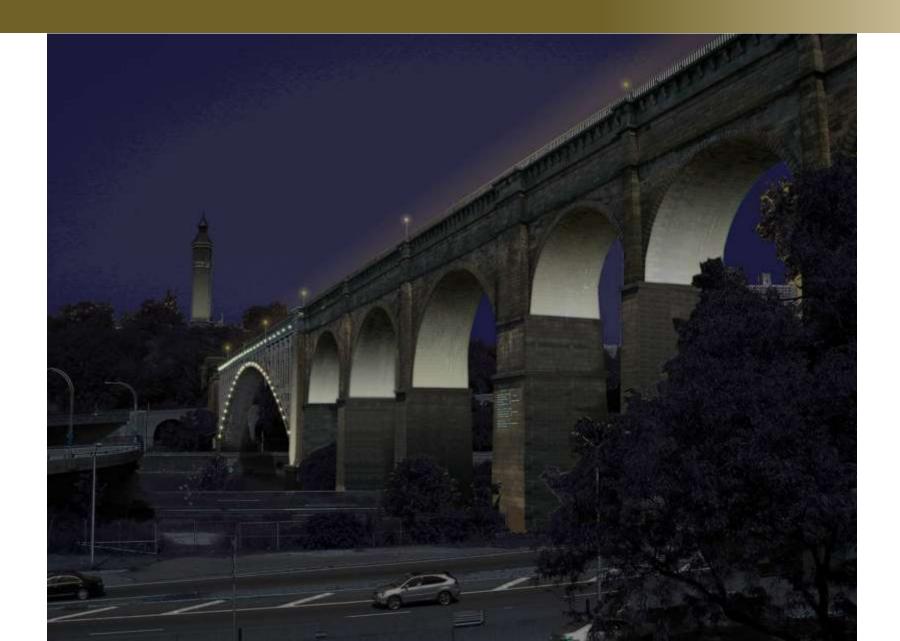


Jakob W60mm Aperture w/ 2mm Dia. Rope

SAFETY FENCE AND RESTORED LIGHTING



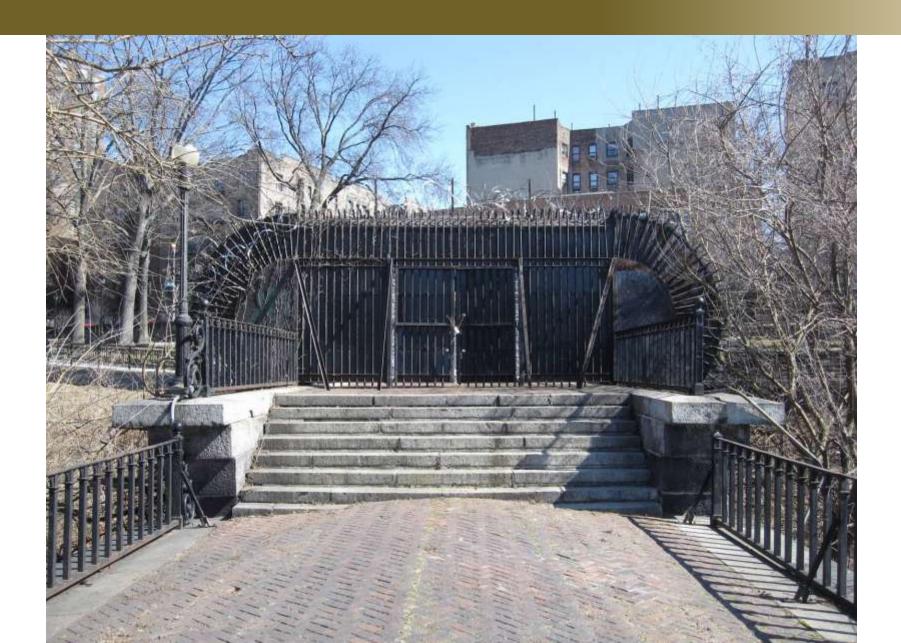
ARCHITECTURAL LIGHTING (UNFUNDED)



HIGH BRIDGE

ACCESS & USE IMPROVEMENTS

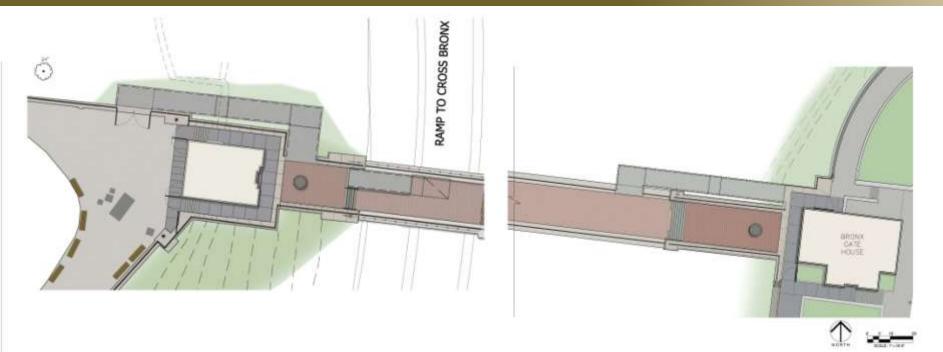
EXISTING BRIDGE ACCESS - BRONX



EXISTING BRIDGE ACCESS - MANHATTAN



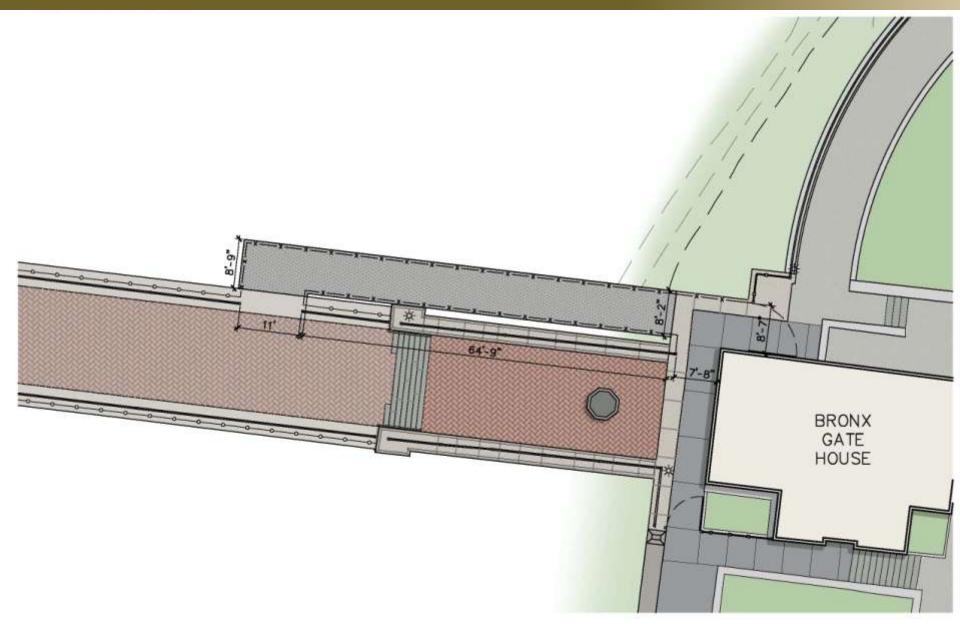
ACCESS RAMPS MANHATTAN AND BRONX OVERALL PLAN



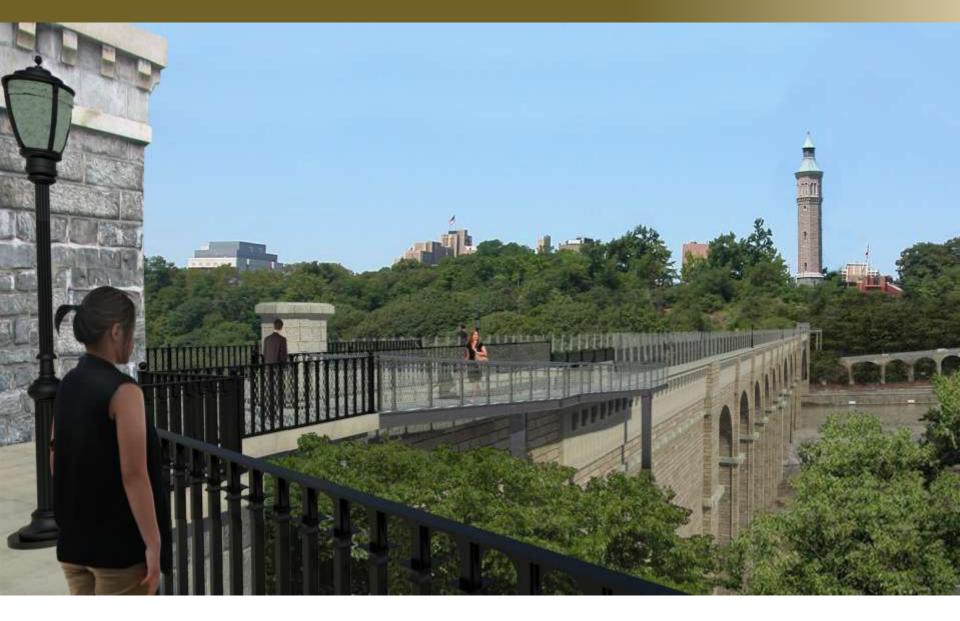


OVERALL PLAN

ACCESS RAMPS BRONX



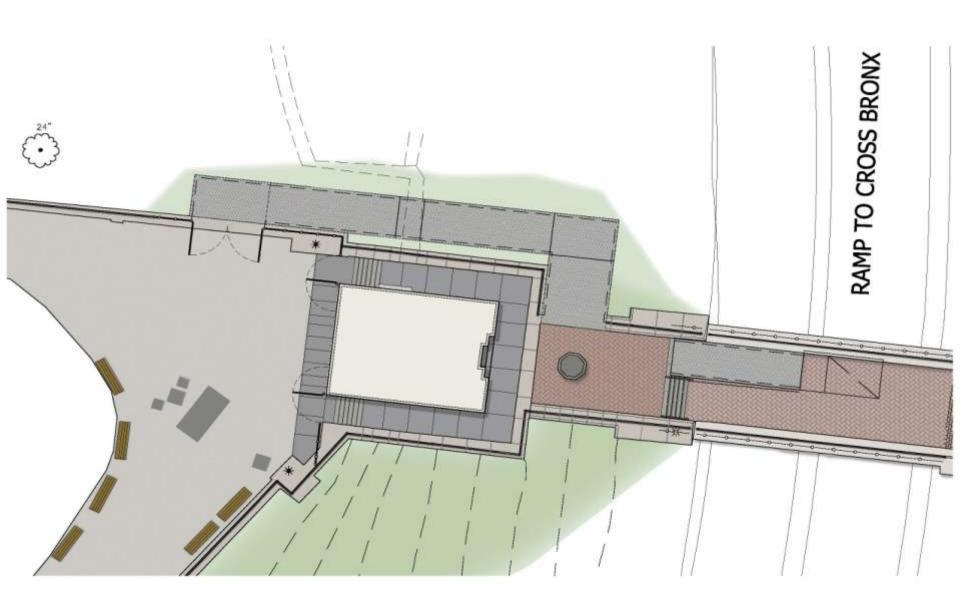
ACCESS RAMP RENDERING BRONX



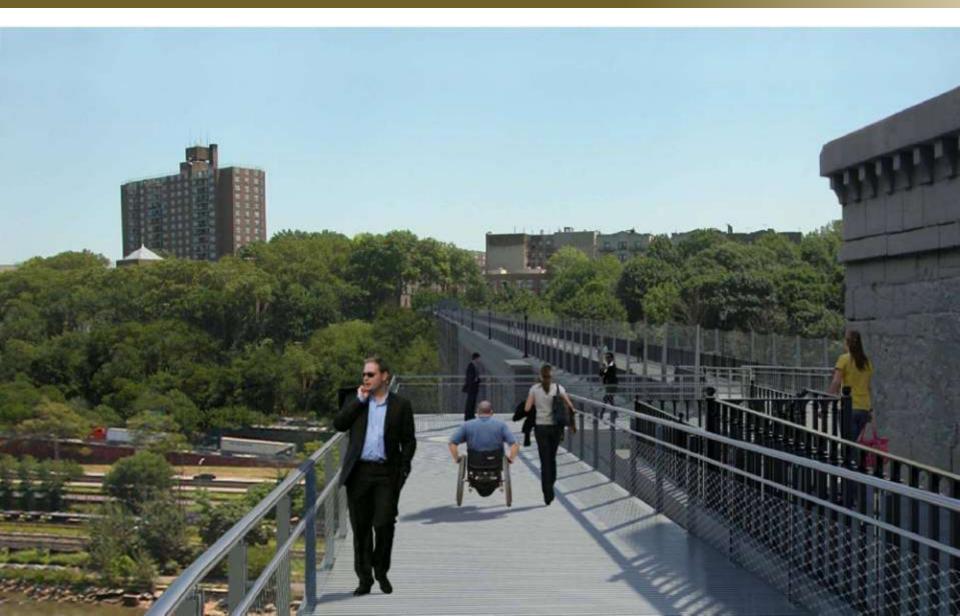
ACCESS RAMP RENDERING BRONX



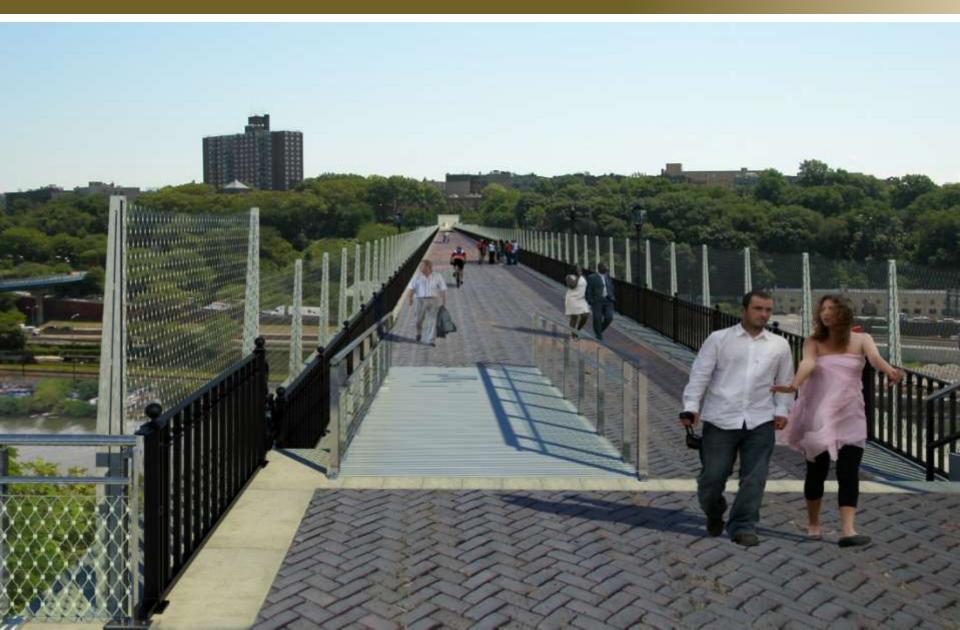
ACCESS RAMPS MANHATTAN



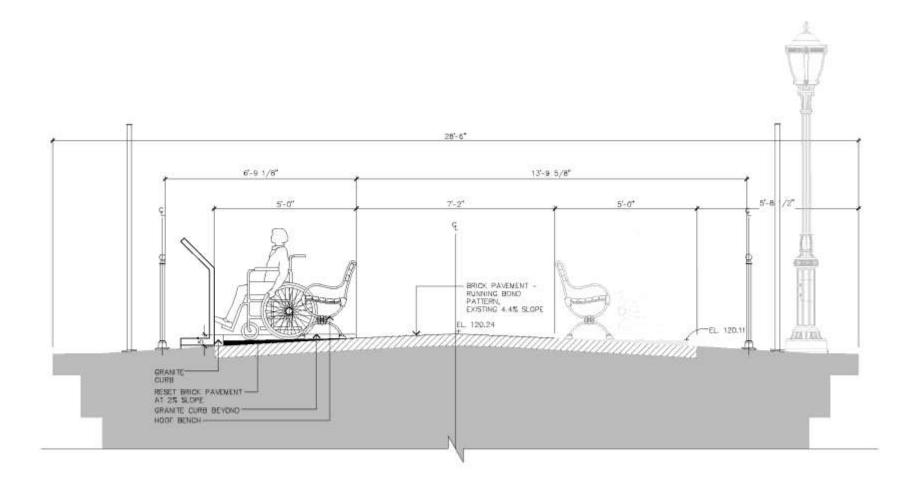
ACCESS RAMP RENDERING MANHATTAN



ACCESS RAMP RENDERING MANHATTAN



ACCESS VIEWING PLATFORMS



PROJECT SCHEDULE

Design Start	FEBRUARY 2010

Final Design Completion SPRING 2011

Construction Start FALL 2011

Construction Completion

-

FALL 2013

PROJECT FUNDING

Total Funding = \$62 Million

- \$49.6 Million through PlaNYC
- \$5 Million through Rep. José E. Serrano
- \$7.2 Million in other federal grants



Rehabilitation of the High Bridge has been made possible by funding allocated by Mayor Bloomberg. It is one of eight Regional Parks to be improved through the PlaNYC program, providing expanded recreation to local residents and regional visitors. Unveiled on Earth Day 2007, PlaNYC is an ambitious and practical plan to make New York City America's first sustainable city. As part of this plan, Mayor Bloomberg has pledged to provide more recreational opportunities to keep New Yorkers healthy and active.



City of New York Parks & Recreation

The High Bridge is owned and operated by the Department of Parks & Recreation.

NEW YORK CITY DEPARTMENT OF DESIGN + CONSTRUCTION

The rehabilitation project is managed by the Department of Design + Construction.



The project design team is led by Lichtenstein Consulting Engineers, PC.