Kosciuszko Bridge Project
Stakeholders Advisory Committee Meeting
Streetscaping Opportunities in Brooklyn and Queens

New York State Department of Transportation
Commissioner Joan McDonald
Regional Director Sonia A. Pichardo

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Kosciuszko Bridge Project Area

Streetscaping Opportunities in Brooklyn

- Opportunities resulting from new bridge alignment
- Streetscaping improvements
- Sustainable design elements
Kosciuszko Bridge Streetscaping Opportunities in Brooklyn

- Redesigned Sergeant Dougherty Park
- Future shared use path (bicycles/pedestrians) connection to Queens
- Future open space adjacent to shared use path
- Four streetscaping opportunities
Streetscaping Opportunities in Brooklyn: WB Meeker Avenue between Hausman Street & Apollo Street

Approximate Proposed Dimensions: 20’ x 65’
Streetscaping Opportunities in Brooklyn:
West side of Vandervoort Avenue between Anthony Street & EB Meeker Avenue

Approximate Proposed Dimensions: 115’ x 25’
Streetscaping Opportunities in Brooklyn: WB Meeker Avenue between Van Dam Street & Apollo Street

Approximate Dimensions:
- A: 180’ x 200’ x 23’
- B: 100’ x 150’ x 140’
Kosciuszko Bridge Project Area Streetscaping Opportunities in Queens

- Streetscaping improvements
- Sustainable design elements
Kosciuszko Bridge
Streetscaping Opportunities in Queens

- Restore and enhance open space at new Pedestrian Bridge
- Access to new bikeway/walkway on new WB bridge
Streetscaping Examples:
Fidelity Triangle: Intersection of Meeker Avenue & Monitor Street, Brooklyn

“Traditional” design:
• Cobble pavers
• Central Park bench
• Decorative iron fence
• Deciduous trees and shrubs
• Located three blocks from project area
• Approximate dimensions: 40’ x 45’ x 60’
Streetscaping Examples:
Father Giorgio Triangle: Intersection of Lorimer Street & Meeker Avenue, Brooklyn

“Traditional” design:
- Cobble pavers
- Central Park bench
- Deciduous trees and shrubs
- Near project corridor
- Approximate dimensions: 40’ x 55’ x 45’
Streetscaping Examples:
Holy Name Square: Intersection of Engert Avenue & McGuinness Boulevard, Brooklyn

“Traditional” design:
- Concrete sidewalk
- Small fence
- Deciduous trees and shrubs
- Evergreen shrubs
- Approximate dimensions: 20’ x 45’ x 50’
Streetscaping Examples:
Memorial Gore: Intersection of Metropolitan Ave, Humboldt St, Bushwick Ave & Maspeth Ave, Brooklyn

“Traditional” design:
• Decorative fencing
• Shrubs and trees
• Memorial statue
• No internal access
• Approximate dimensions: 75’ x 50’
Streetscaping Examples:
Clemens Triangle: Intersection of Cypress Avenue & Myrtle Avenue, Queens

“Traditional” design:
• Brick pavers
• Central Park benches
• Deciduous trees
• Approximate dimensions: 50’ x 30’ x 40’
Streetscaping Examples:
Francis Lewis Boulevard between 217<sup>th</sup> and 220<sup>th</sup> Streets, Queens

“Modern” design:
- Bio-swale (filters runoff from adjacent streets and sidewalks)
- Reduces stormwater entering the combined sewer system
- Aesthetic benefits
- Approximate dimensions: 120’ x 100’ x 45’
Streetscaping Examples:
Intersection of Colfax Street & Murdock Avenue, Queens

“Modern” design:
- Bio-swale (filters runoff from adjacent streets and sidewalks)
- Aesthetic benefits
- Reduces stormwater entering the combined sewer system
- Approximate dimensions: 120’ x 100’ x 45’
Streetscaping Examples:
Intersection of Furmanville Avenue, 80th Street & Dry Harbor Road, Queens

“Modern” design:
- Bio-swale (filters runoff from adjacent streets and sidewalks)
- Reduces stormwater entering the combined sewer system
- Aesthetic benefits
- Approximate dimension: 37’ x 45’ x 25’
Streetscaping Examples:
E. Houston Street between Avenue B & Avenue C, Manhattan

“Modern” design:

• Furnishings and decorative fence
• Bio-swale (filters runoff from adjacent streets and sidewalks)
• Reduces stormwater entering the combined sewer system
• Aesthetic benefits
Streetscaping Elements: Lighting & Benches

NYC Street Furniture Standards – Approved Lighting

NYC Street Furniture Standards – Approved Bench

Galleon LED Luminaire Detail
Streetscaping Element: Street Trees

Selection Criteria

- Urban tolerance
  - Pollutant and drought tolerant
  - Ability to survive in compacted soils
- Compatible with structural soils
  - Survive in alkaline soil
- Pest and disease resistant
  - Emerald ash borer
  - Asian long-horned beetle
- Multi-seasonal visual interest

Final tree selection subject to review by NYC Department of Parks, Forestry
Streetscaping Element: Street Trees

Street Trees with Granite Cobble Edging and Structural Soil

Structural Soil:
- Sustainable design element
- Continuous underground trench between tree pits
- Supports sidewalk
- Maintains drainage
- Improves longevity, vigor and health of tree
Streetscaping Element: Street Trees
Examples of Freshly-Planted Street Trees in New York City

New Street Trees on Columbia Street: Brooklyn

New Street Trees with Cobble Border: Queens

New Street Trees in Late Fall: Brooklyn
Streetscaping Improvements: Accessibility
Brooklyn and Queens

Existing Condition: Crosswalk

Proposed Condition: United States Access Board Compliant Crosswalk

High visibility crosswalks:
- Reflective paint for improved nighttime visibility
- Help identify crossing locations for pedestrians
- Alert drivers of pedestrian crossing zone
- Longer lasting; require less maintenance
Accessible curb ramps:

- Textured cue to help the visually impaired
- Bright color alerts people with limited vision
- Fully compliant with the Americans with Disabilities Act

Streetscaping Improvements: Accessibility
Brooklyn and Queens

Crosswalk Curb Ramp with Tactile Warning Strip
Pedestrian Signal with Countdown Timer

Pedestrian Signal:
- Countdown timer shows remaining crossing time
- May feature audio cues for the visually impaired
- Americans with Disabilities Act compliant

Pedestrian Signal Button
Activated Sound
Sustainable Design Elements

- Street trees
- Stormwater treatment
- Structural soil
- LED street lighting
- Dark Sky Compliant lighting
- High visibility crosswalks
- Tactile warning strips
- Pedestrian countdown lights
Waterfront Opportunities

Newtown Creek

New Bridge

New pylon (tower)

Waterfront access areas

Development opportunity