

CHAPTER 3

Phasing and Implementation Plan



Jamaica Bay Greenway

The previous chapter describes the preferred location and design of nearly 20 miles of new or enhanced Greenway route. This chapter presents the route as a series of projects for phased implementation as funding becomes available.

A total of 17 projects on DOT right of way and nine Future Enhancement Projects (FEP) have been identified as part of the Jamaica Bay Greenway Implementation Plan. FEPs are long term projects on jurisdiction outside of DOT that require coordination with other agencies. Routes designated as Future Bike Network Expansion are beyond the scope of this Plan, but are included for further consideration. A number of factors defined these projects, including:

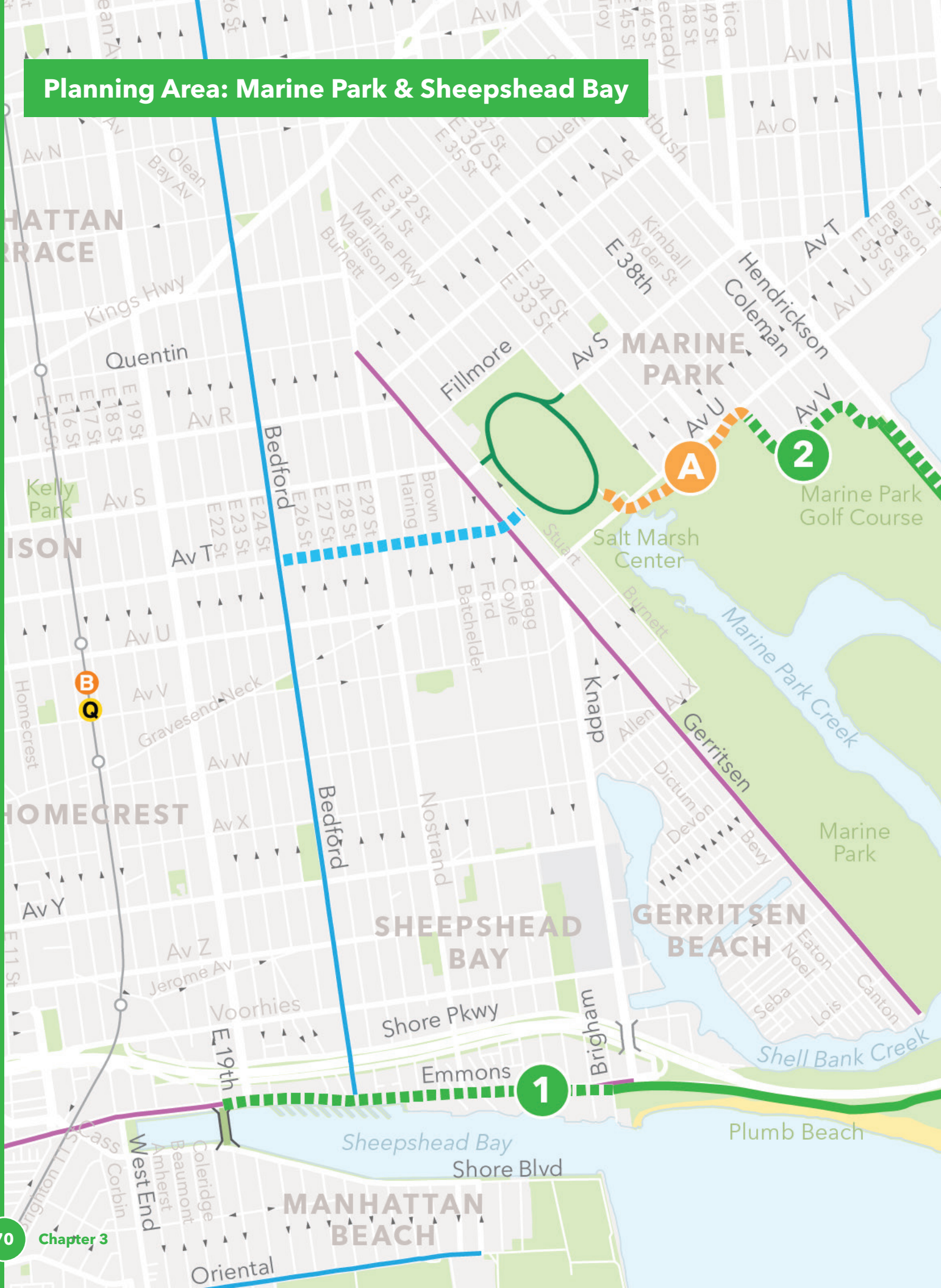
- Feedback gathered at 12 community workshops.
- Individual neighborhood needs and constraints.
- Opportunities to increase traffic safety.
- Street geometry, grid orientation and physical barriers to implementation.
- Political and agency jurisdiction.
- Realistic roadway reconstruction expectations.
- The presence of other recently completed projects and proposed new capital projects by DOT or other agencies on or adjacent to the route.

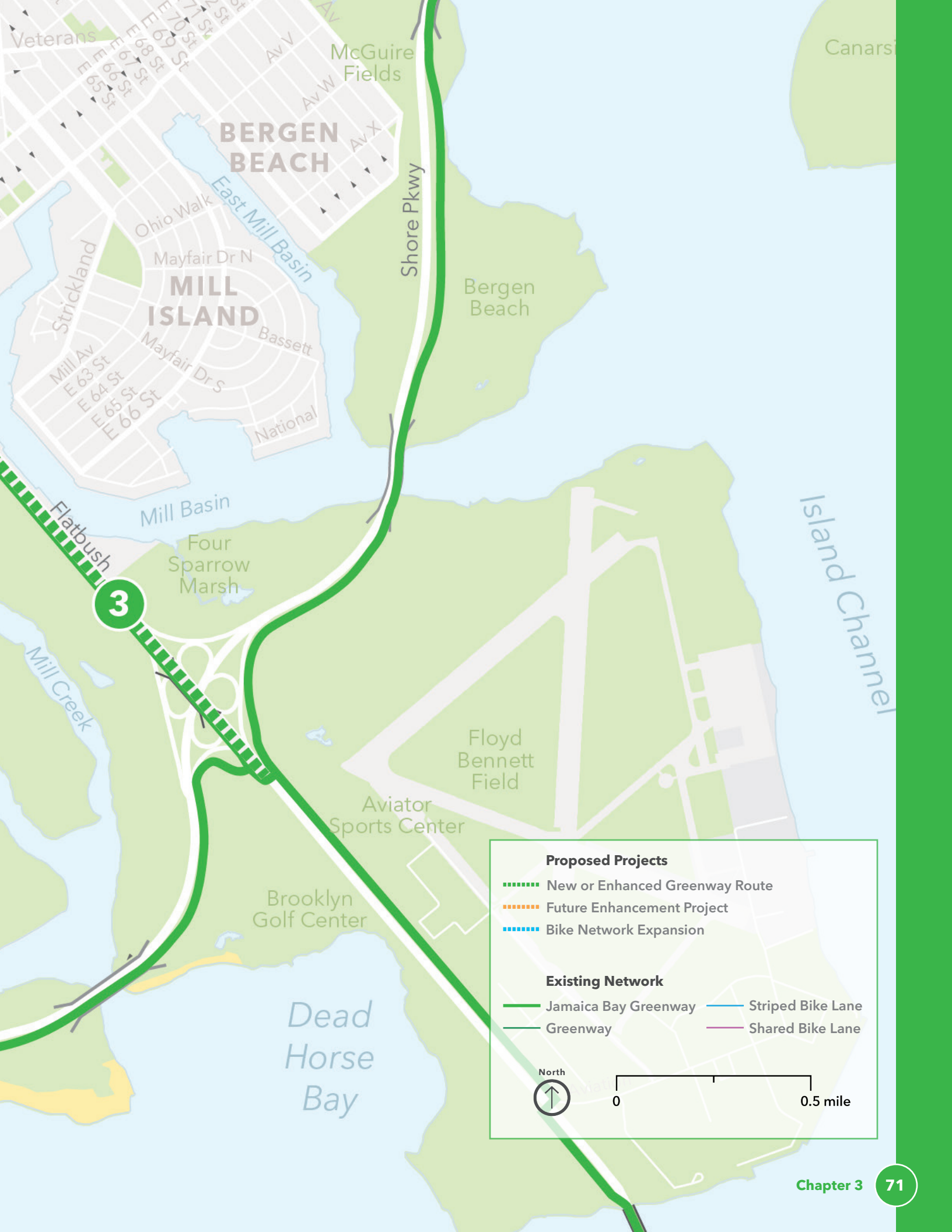
Projects are listed and shown on the tables and maps on the following pages. Physical project limits, including start and end points, and the approximate length of affected streets, are specified.

DOT reserves the right to change proposed project limits and routes. To assist in phasing the implementation of these projects, tables include the following information for each project:

- Estimated construction cost.
- Jurisdiction if other than DOT.
- Overview of short term and/or long term design.
- A description of the work proposed.
- A listing of other recently completed projects and proposed new capital projects by DOT or other agencies within or adjacent to the route.

Planning Area: Marine Park & Sheephead Bay





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Proposed Projects

- New or Enhanced Greenway Route
- Future Enhancement Project
- Bike Network Expansion

Existing Network

- Jamaica Bay Greenway
- Greenway
- Striped Bike Lane
- Shared Bike Lane

North ↑

0 0.5 mile

Planning Area: Marine Park & Sheepshead Bay

Project				Length	Cost	Jurisdiction
ID	Location	Begin	End	Approx Linear Feet	Estimated (\$1,000,000)	Other than DOT
1	Plumb Beach Network Connection			4,800	\$9.09	
	Emmons Ave	East 19th St (Ocean Ave Pedestrian Bridge)	Brigham St	-	-	-
2	Marine Park Connector			2,500	\$4.7	
	East 38th St	Ave U	Ave V	800	-	-
	Ave V	East 38th St	Hendrickson St	1,000	-	-
	Hendrickson St	Ave V	Hendrickson Pl	400	-	-
	Hendrickson Pl	Hendrickson St	Flatbush Ave	300	-	-
3	Flatbush Ave Enhancements			6,500	\$12.3	
	Flatbush Ave	Hendrickson Pl	Shore Pkwy Greenway	-	-	-
A	Marine Park Path			1,900	N/A	
	Marine Park	Ave U Entrance	East 38th St	-	-	NYC Parks

Overview of Greenway Design

Description of Work

Related Projects

Short Term

Long Term

Recently Completed or Proposed

Parking protected 2-way bicycle path.

Grade separated, two-way bicycle path and separate pedestrian path on the south side of the street.

Widen sidewalk to accommodate a two-way bicycle path and separate pedestrian path.

2015 NYC Parks Capital Project: Brigham St Park. Currently in design.

Parking protected multi-use path.

Grade separated, two-way bicycle path and separate pedestrian path adjacent to Marine Park.

Widen sidewalk to accommodate a two-way bicycle path and separate pedestrian path.

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Enhanced pedestrian and bicycle route with improved ramp crossings.

Grade-separated, multi-use path on the west side of the street.

Widen sidewalk to accommodate a two-way bicycle path and separate pedestrian path. Reconstruct curbcuts and crossings at Shore Pkwy off-ramps.

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Grade separated, multi-use path through or adjacent to Marine Park.

Work with NYC Parks to widen the existing path to accommodate a multi-use path through or adjacent to Marine Park.

2015 NYC Parks Capital Project: Marine Park Gerritsen Ave Pedestrian Path (B057-415M).



Proposed Projects

- New or Enhanced Greenway Route
- Future Enhancement Project
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Existing Network

- Jamaica Bay Greenway
- Greenway
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- Shared Bike Lane

North ↑

0 ————— 0.5 mile

Planning Area: Canarsie & Spring Creek

Project				Length	Cost	Jurisdiction
ID	Location	Begin	End	Approx Linear Feet	Estimated (\$1,000,000)	Other than DOT
4	Paerdegat Network Link			2,000	\$3.79	
	Ave I	East 56th St	Flatlands Ave	500	-	-
	Flatlands Ave	Ave I	Paerdegat Ave N	1,500	-	-
5	Paerdegat Ave N			5,000	\$9.47	
	East 76th St	Flatlands Ave	Paerdegat Ave N	200	-	-
	Paerdegat Ave N	East 76th St	Seaview Ave	4,800	-	-
6	Canarsie Pier East Connector			4,600	\$8.71	
	Seaview Ave	East 102nd St	E 108th St	1,500	-	-
	East 102nd St	Shore Pkwy	Seaview Ave	1,300	-	-
	Shore Pkwy Service Rd	Rockaway Pkwy	East 102nd St	1,300	-	-
	Rockaway Pkwy Circle	Shore Pkwy Greenway	Shore Pkwy Service Rd	500	-	-
7	Spring Creek Towers Neighborhood Greenway			4,500	\$8.52	
	Seaview Ave	Louisiana Ave	Pennsylvania Ave	900	-	-
	Louisiana Ave	Flatlands Ave	Seaview Ave	4,500	-	-
8	Pennsylvania Ave Overpass			600	\$1.14	
	Pennsylvania Ave	Seaview Ave	Shore Pkwy Greenway	-	-	-
9	Gateway Network Link			3,500	\$3.32	
	Fountain Ave	Flatlands Ave	Seaview Ave	2,100	-	-
	Seaview Ave	Erskine St	Fountain Ave	1,400	-	-
10	Erskine St Overpass			700	\$0.040	
	Erskine Loop	Gateway Dr/Seaview Ave	Shore Pkwy segment of Greenway	-	-	-
B	Canarsie West Trail Connector			2,400	N/A	
	Canarsie Park	Seaview Ave	Shore Pkwy segment of Greenway	-	-	NYC Parks
C	E 108th St Streetscape Improvements			2,400	N/A	
	East 108th St	Glenwood Rd	Seaview Ave	-	-	NYC Parks, NY Rising, NYCDEP
D	Gateway Dr Extension			500	N/A	
	Gateway Dr	Vandalia Ave	Flatlands Ave	-	-	HPD, NYC Parks

Overview of Greenway Design

Description of Work

Related Projects

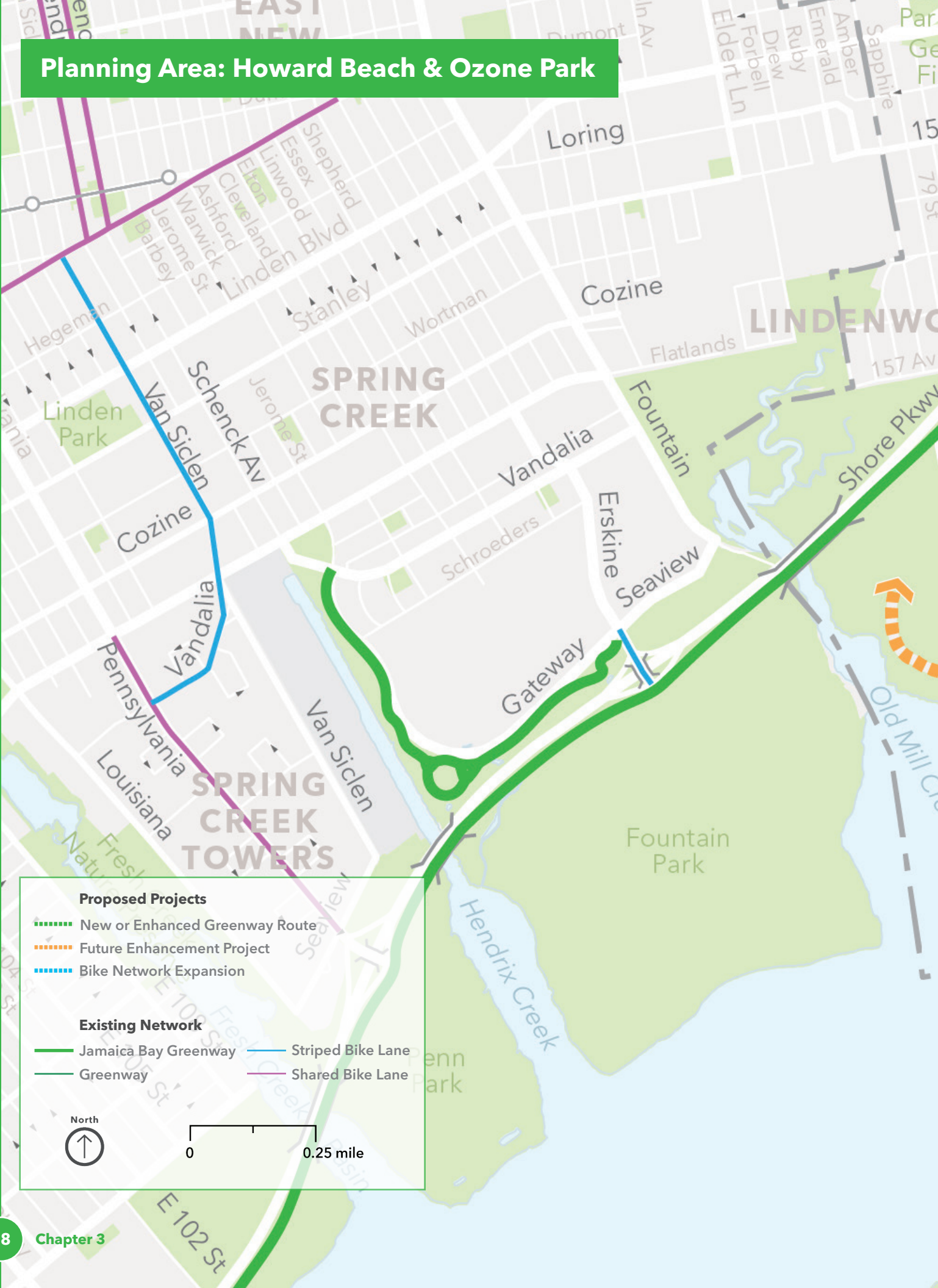
Short Term

Long Term

Recently Completed or Proposed

Short Term	Long Term	Description of Work	Related Projects
Standard bicycle lanes.	-	Install bicycle markings and wayfinding signage.	-
Bicycle stamps on south sidewalk.	Concrete neckdowns at the intersection of Flatlands Ave.	Build out concrete neckdowns at targeted intersections.	-
-	Barrier-protected, multi-use path on west side of the street.	Build out pedestrian neckdowns to create barrier-protected, multi-use path.	2014 DOT St Improvement Project: Parking-protected, multi-use path on the west side of the street.
-	Grade-separated, multi-use path adjacent to Canarsie Park, east of Rockaway Pkwy..	Reconstruct sidewalk to accommodate multi-use path and bus stop bulb outs.	2015 DOT Street Improvement Project: Parking protected, multi-use path and grade-separated bus stop on south side of the street.
-	New sidewalk and on-street bicycle markings.	Construct wide sidewalks.	2015 DOT Street Improvement Project: On-street, shared bicycle markings.
-	Grade-separated, multi-use path adjacent to Canarsie Park, east of Rockaway Pkwy.	Reconstruct sidewalk to accommodate multi-use path.	2015 DOT Street Improvement Project: Separated, two-way bicycle path.
Parking protected, two-way bicycle path.	Grade separated, two-way bicycle path and separate pedestrian path on the west side of the street.	Widen sidewalk to accommodate a two-way bicycle path and separate pedestrian path.	Future NPS Park: Penn Park.
-	Grade-separated bicycle path.	Widen sidewalk on overpass to accommodate a two-way bicycle path and separate pedestrian path.	Future NPS Park: Penn Park.
Median-separated, two-way bicycle path. Bus stop bulb outs.	-	Redesign roadway to include two-way bicycle path. Construct bus stop bulb outs.	Future NPS Park: Fountain Park.
-	Protected bicycle path.	Install concrete barriers or sidewalk markings to designate bicycle route.	Future NPS Park: Fountain Park.
-	Off-street path in Canarsie Park, west of Rockaway Pkwy.	Work with NYC Parks to construct a multi-use path through Canarsie Park, west of Rockaway Pkwy, connecting to Paerdegat Ave N and Greenway.	2015 NYC Parks Capital Project: Canarsie West Trail Connector (BG-915M). Currently in design.
-	Streetscape improvements and flood mitigation as feasible.	Work with NYC Parks, DEP and NY Rising to install pedestrian improvements.	Governor's Office of Storm Recovery Canarsie NY Rising.
-	Off-street path alongside Gateway Dr extension.	Work with HPD and NYC Parks to extend Gateway Dr multi-use path from Vandalia Ave to Flatlands Ave adjacent to new road.	2015 HPD & HDC Development: Gateway Elton I-III.

Planning Area: Howard Beach & Ozone Park



Proposed Projects

- New or Enhanced Greenway Route
- Future Enhancement Project
- Bike Network Expansion

Existing Network

- Jamaica Bay Greenway
- Striped Bike Lane
- Shared Bike Lane
- Greenway

North

0 0.25 mile



Planning Area: Howard Beach & Ozone Park

Project				Length	Cost	Jurisdiction
ID	Location	Begin	End	Approx Linear Feet	Estimated (\$1,000,000)	Other than DOT
11	Conduit Greenway Extension			3,500	\$6.63	
	Shore Pkwy Service Rd	89th St	155th Ave	1,700	-	-
	155th Ave	Shore Pkwy Service Rd	Cohancy St	1,200	-	-
	Cohancy St Bridge	155th Ave	Conduit Ave N	600	-	-
12	Belt to Bridge Connector			7,500	\$7.11	
	84th St	Shore Pkwy Greenway	165th Ave	5,200	-	-
	165th Ave	84th St	Cross Bay Blvd	2,300	-	-
13	Addabbo Bridge Improvements			4,500	\$6.93	
	Cross Bay Blvd	165th Ave	Addabbo Bridge	1,300	-	-
	Addabbo Bridge	-		3,200	-	-
E	Spring Creek Park Path			Undetermined	N/A	
	Spring Creek Park	Connection to Shore Pkwy Greenway	Connection to Addabbo Bridge Path	-	-	NPS, DOI
F	Shore Pkwy Greenway Extension			1,600	N/A	
	Shore Pkwy Service Rd	84th St	89th St	-	-	NYC Parks
G	North Conduit Extension			3,500	N/A	
	North Conduit	Cohancy St	116th St	2,700	-	NYC Parks, NYS DOT
	Conduit Ave N Path	116th St	Lefferts Blvd	800	-	

Overview of Greenway Design

Description of Work

Related Projects

Short Term

Long Term

Recently Completed or Proposed

Parking-protected two-way bicycle path and separate pedestrian path.

Grade-separated, two-way bicycle path and separated pedestrian path along the park edge.

Construct new sidewalk to accommodate bicycle and pedestrian path.

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Separated, two-way bicycle route on bridge.

Install concrete barriers or sidewalk markings to designate bicycle route.

On-street bicycle lanes and wayfinding signage; targeted pedestrian improvements.

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Install bicycle lane markings and wayfinding signage. Build or paint pedestrian neckdowns at designated intersections.

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Parking protected, multi-use path on south side of the street.

Grade-separated, two-way bicycle path and separated pedestrian path on south side of the street.

Construct new sidewalk and grade-separated, multi-use path.

Protected, two-way bicycle path on west bridge and approach.

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Redesign street to create parking protected two-way bicycle path. Install concrete barriers.

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Construct a multi-use path through Spring Creek Park.

Work with NPS and DOI to construct a multi-use path through Spring Creek Park.

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Widen and enhance existing path.

Work with NYC Parks to widen and enhance existing path from Shore Pkwy Greenway to 90th St.

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Widen and enhance existing path, extend to Lefferts Blvd. Bridge to Conduit Park.

Work with NYC Parks and NYS DOT to widen and enhance existing path from Cohancy St Bridge to Conduit Park.

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Planning Area: Rockaway & Broad Channel



Must walk bike per MTA Policy. NYC DOT will continue to work with MTA to address safe access issues.

Boardwalk is open daily from 6 am to 10 pm. Bike riding is prohibited on weekends and holidays from Memorial Day weekend to Labor Day between 10 am and 6 pm, as per NYC Parks policy.

Planning Area: Rockaway & Broad Channel

Project				Length	Cost	Jurisdiction
ID	Location	Begin	End	Approx Linear Feet	Estimated (\$1,000,000)	Other than DOT
14	Broad Channel Greenway Enhancements			6,200	\$11.74	
	Cross Bay Blvd	Jamaica Bay Wildlife Refuge (north of E 6th Rd)	East 21st Rd	-	-	-
15	Nassau County Connector			1,800	\$3.41	
	Beach 9th St	Boardwalk	Seagirt Ave	200	-	-
	Seagirt Ave	Beach 9th St	Nassau Expressway Greenway	1,600	-	-
16	Bridge to Beach Connector			1,900	\$0.020	
	Beach 94th St	Beach Channel Dr	Rockaway Fwy	700	-	-
	Beach 94th St	Rockaway Fwy	Shore Front Pkwy	1,200	-	-
17	Jacob Riis Park to Boardwalk			7,400	\$0.080	
	Rockaway Beach Blvd	Jacob Riis Park Promenade	Beach 126th St	-	-	-
H	Beach 94th St Safety Improvements			Intersection	N/A	
	Beach 94th St	Beach Channel Dr	Beach 92nd St	-	-	MTA
I	Bayside Path			14,200	N/A	
	Beach Channel Dr	Beach 149th St	Beach 98th St	-	-	NYC Parks, Dept of Ed, Private

Overview of Greenway Design

Description of Work

Related Projects

Short Term

Long Term

Recently Completed or Proposed

-	Enhanced medians and additional parking. Enhanced bicycle facilities.	Reconstruct median, install bicycle facility and wayfinding signage.	Capital reconstruction on Cross Bay Blvd
On-street, shared use markings and wayfinding signage.	Sidewalks on both sides of street.	Install shared lane markings and wayfinding signage. Construct new sidewalks.	NYC Parks Rockaway Parks Conceptual Plan Project: Beach 9th St - Beach 26th St.
On-street, shared lane markings, bicycle lane, and wayfinding signage. On-street, shared lane markings, contraflow bicycle lane, and wayfinding signage.	-	Install bicycle lane markings and wayfinding signage.	NYC Parks Rockaway Parks Conceptual Plan Project: Beach 94th St - Beach 95th St Corridor.
On-street bicycle lanes and wayfinding signage.	-	Maintain or upgrade existing route. Install wayfinding signage.	-
-	Work with MTA to improve pedestrian crossing at Beach Channel Dr and Beach 92nd St.	Install traffic signal at Beach Channel Dr and Beach 92nd St.	-
-	Work with NYC Parks, DOE and private property owners to construct continuous multi-use path along waterfront.	Work with Construct continuous multi-use path along waterfront.	NYC Parks Rockaway Parks Conceptual Plan Project: Beach 108th St Esplanade.