BROAD ST AND VANDERBILT AVE STREET IMPROVEMENTS

Presentation to Staten Island Community Board 1

April 9, 2019





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Broad St and Vanderbilt Ave Street Improvements

PROJECT OVERVIEW

- 1. Staten Island Cycling Trends
- 2. Previous Work
- 3. **Proposed Improvements**
- 4. Project Summary



Staten Island Cycling Trends (2014-present)

Increased Ridership and Expanding Network

Biking to Work **48% Increase**

Staten Island is the borough with the highest rate of change for people biking to work

Source: 3-Year Rolling Average of US ACS – Journey to Work

Bike Network Size

27 additional lane miles added from 2014 – 2017, for a total of 91 miles

Dockless Bike Share Pilot +54,000 Trips

From 7/26/2018 to 1/30/2018 *based on unverified operator data



Previous Work: New Springville Greenway Connections (Summer 2016)

Connecting Bicycle Routes Increased Cycling

After adding a bicycle connection between the New Springville Greenway and the Staten Island Greenbelt, ridership more than doubled

Nome Ave at Richmond Ave 206% increase

Travis Ave at Nehring Ave

128% increase

Rockland Ave at Forest Hill Rd

195% increase

Source: 14-hour weekend bicycle counts in June 2016 and 2018

Rockland Ave facing west towards Kelly Blvd

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Previous Work: Targee St, Dekalb St to Van Duzer St (Summer 2017)

Safety Significantly Increased After Travel Lanes Were Narrowed and Bicycle Lanes Added

Crashes with injuries **Down 64%**

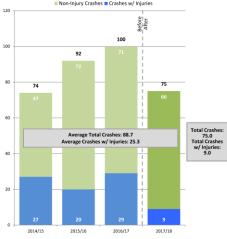
Motor Vehicle Occupant Injuries Down 77%

Pedestrian Injuries **Down 17%**

Cyclist Injuries Down 100%

Source: NYPD AIS/TAMS Crash Data from 2014-2018





Each before year period is the 12-month period beginning August 1 and ending July 31. The 1-yr after period is November 1, 2017 to October 31, 2018. The implementation period of August 1, 2017 to October 31, 2017 is excluded.



Proposed Improvements

New Bicycle Routes

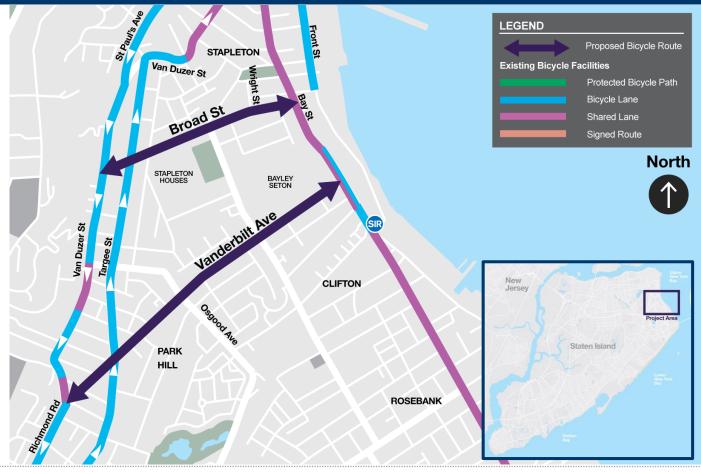
Add bicycle routes to Broad St and Vanderbilt Ave between existing routes on Van Duzer St, Targee St, and Bay St

To Enhance The Existing Bicycle Network

Build on positive trends for cycling on Staten Island by connecting existing routes to population and commercial centers

And Increase Street Safety

Implement proven traffic calming measures on a Vision Zero Priority Corridor



Proposed Improvements: New Bicycle Facilities

Add Bicycle Lanes



Dedicates space for cyclists on the street

Increases predictability of cyclist's behaviour for motorists and pedestrians

Separates slower bicycle traffic from motor vehicle traffic

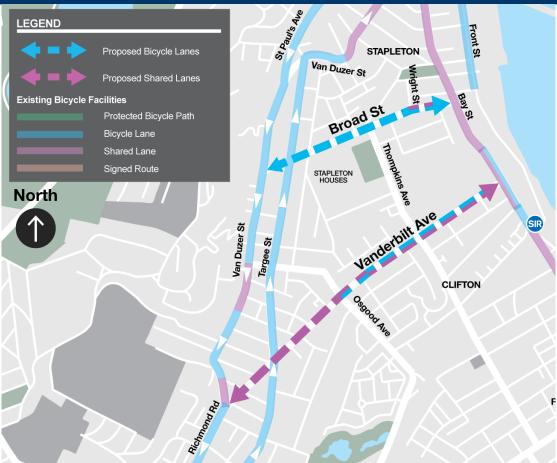
Add Shared Lane Markings



Guides cyclists along routes

Alerts motorists to the presence of cyclists

Helps align cyclists properly in the street



Existing Conditions: Broad St

STAPLETON POR Van Duzer St DECEDENT STAPLETON STAPLETON

Wide parking lanes

Retail between Targee St and Quinn St and at Bay St

Stapleton Houses between Gordon St and Cedar St

Vision Zero Priority Area High concentration of pedestrian injuries

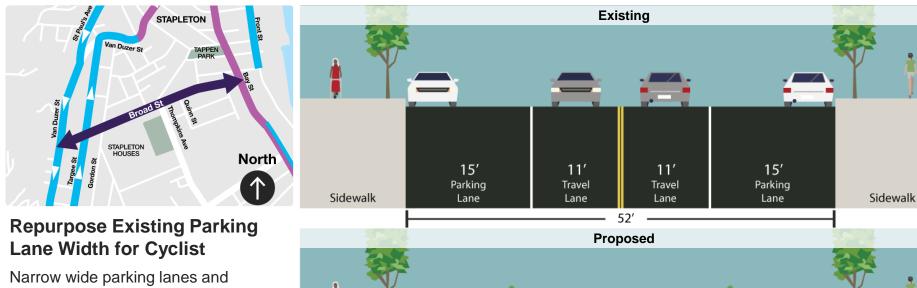
106 cyclist during a typical midweek day Source: 14-hour count at Canal St on 10/10/2018

Vanderbilt Ave facing east towards Thompkins Ave

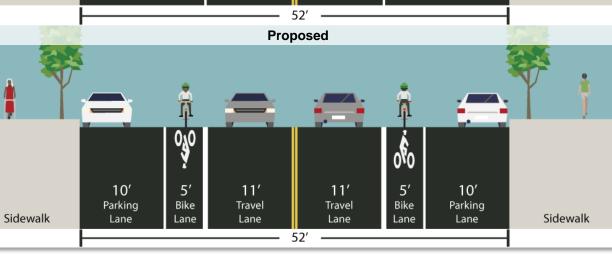
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Proposed Improvements: Broad St



- dedicate remaining space to bicycle lanes
- Add shared lane markings where road is too narrow for bike lanes (1 block)



Existing Conditions: Vanderbilt Ave

Vanderbilt Ave facing east at Nunley Ct

PARKE PARK HILL PARK HILL PARK HILL North

Steep hill between Tompkins Ave and Osgood Ave

Large apartment buildings on Park Hill

Retail at the intersection of Targee St and Vanderbilt Ave

SIR Clifton Station on Bay St

Vision Zero Priority Corridor Top 10% of borough corridors in KSI/mile

9 pedestrians severly injured since 2012 7 motor vehicle occupants injured since 2012 Source: injuries, NYS DOT; KSI, Persons Killed or Severely Injured

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Proposed Improvements: Vanderbilt Ave

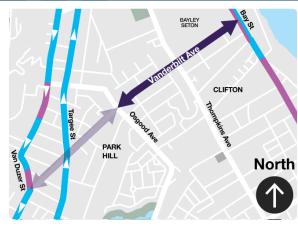


Discourage Speeding with Speed Cushions

Add speed cushions along Vanderbilt Ave to slow vehicles down, without negatively affecting bus, truck, and emergency vehicle traffic

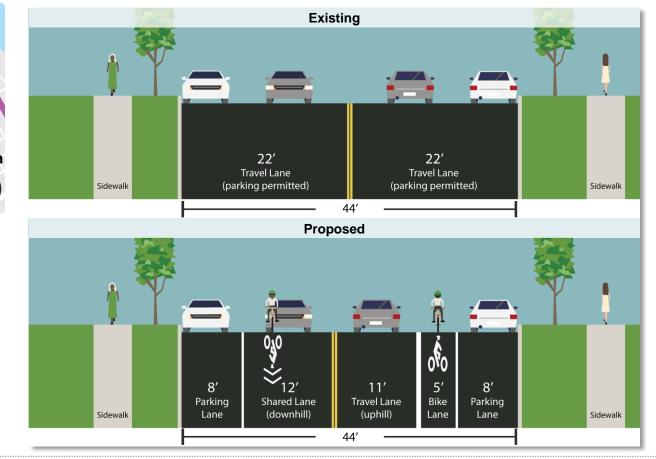


Proposed Improvements: Vanderbilt Ave, Bay St to Osgood Ave

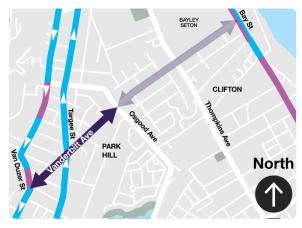


Separate Cyclists From Faster Motor Vehicle Traffic During Uphill Segments

Narrow uphill travel lane to standard width and add dedicated bicycle lane Add sharrows to downhill stretch and narrow travel lanes to standard shared lane widths

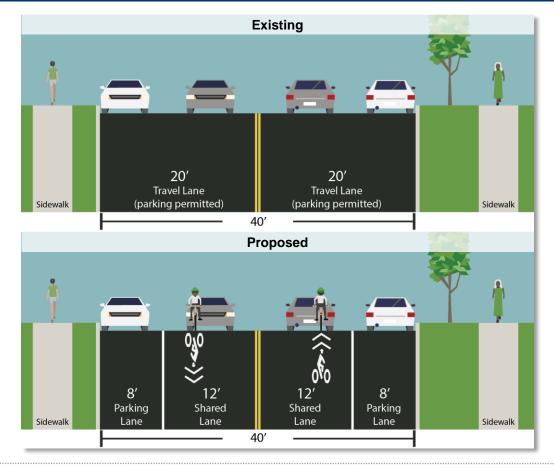


Proposed Improvements: Vanderbilt Ave, Osgood Ave to Van Duzer St



Add Shared Lanes To Guide Cyclists to Existing Routes

Where roadway is too narrow for dedicated bike lanes, shared lane markings are used to guide cyclists to existing bicycle routes on Van Duzer St and Targee St



Project Summary

Encourage Cycling

Connect existing bicycle routes and communities to increase safety and help with wayfinding

Discourage Speeding

Narrow travel lanes standard width and add speed cushions to Vanderbilt Ave

No Loss To Traffic or Parking Capacity

Narrow travel and parking lanes to increase safety without impacting existing capacity



THANK YOU!

Questions?







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