



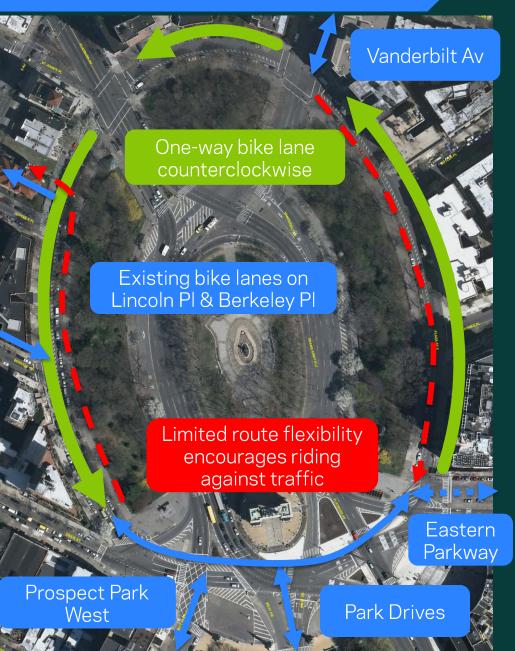
Timeline



- 2004: Plaza Street Buffered Bike Lane Installed
- 2007- 2013: Bike Network Enhancements: GAP Southeast, Vanderbilt, Berkeley/Lincoln, PPW, Eastern Parkway (under construction)
- 2010: DOT Proposes converting bike lane to two-way as part of GAP project
- 2011: GapCo & other community members express concerns with 2010 Design Proposal
- 2012: DOT proposes new design option

t James rand Av ambridge Buiumo asson Existing Bicycle Network St Mark's PI Fulton Warren Pacific Baltic Lefferts Butler Atlantic Douglass latbush DeGraw Sackett St John's Pl Washington & Eastern Pkw Lincoln Pl Berkeley President Carroll Garfield 7 St PARK 2 St AFT TOTAL 35% 5 St 6 St 00

Existing Conditions

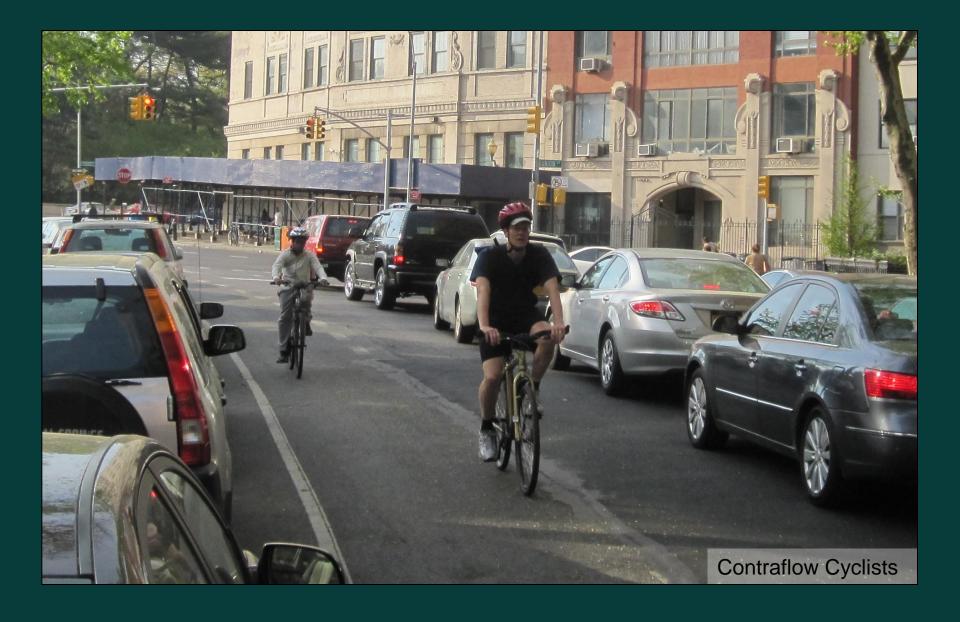




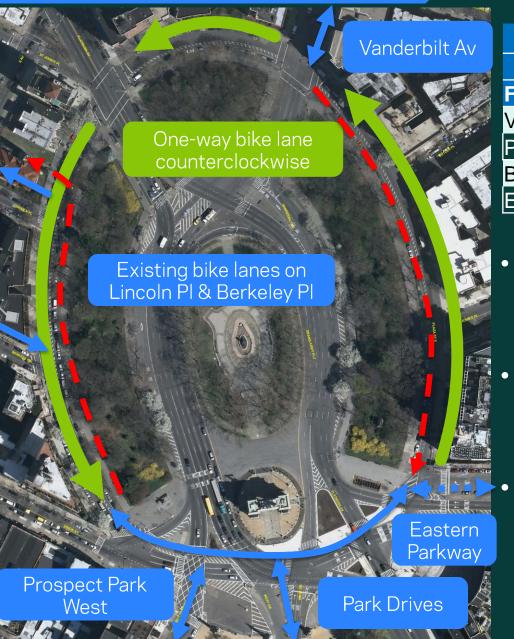
 27% of AM commuter bicycle traffic is contraflow



Existing Conditions - Contraflow Cyclists



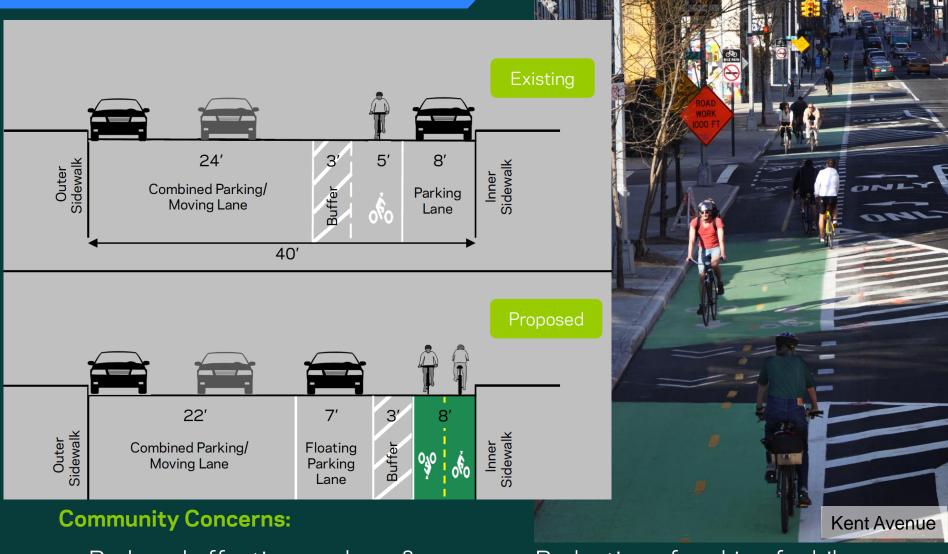
Existing Conditions



Plaza Street Bike Trip Length			
# Blocks			
From	То	Existing	Proposed
Vanderbilt	EP	5+	3
PPW	Lincoln	6+	2
Berkeley	Vanderbilt	5+	3
EP	Lincoln	5	3+

- Existing traffic direction forces long trips crossing busy streets
- Two-way facility will shorten connector trips to 2 or 3 blocks
- Short trips require attention to ons and offs

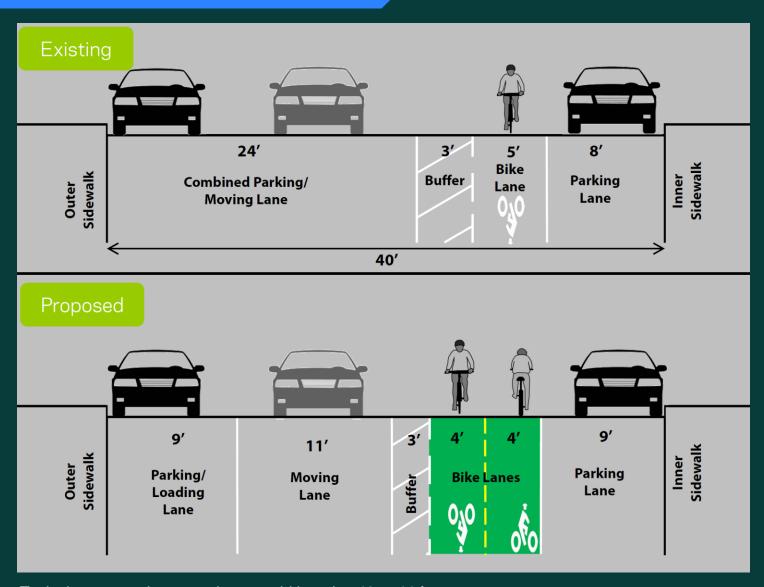
2010 Design Proposal



Reduced effective roadway & potential impact on through traffic

 Reduction of parking for bike path access and turn lanes: Approx. 30 spaces

2012 Design Proposal



Typical cross-section, actual street width varies 40 to 44 feet

Proposed Improvements - Traffic Calming



11-Foot wide travel lane

Discourages speeding

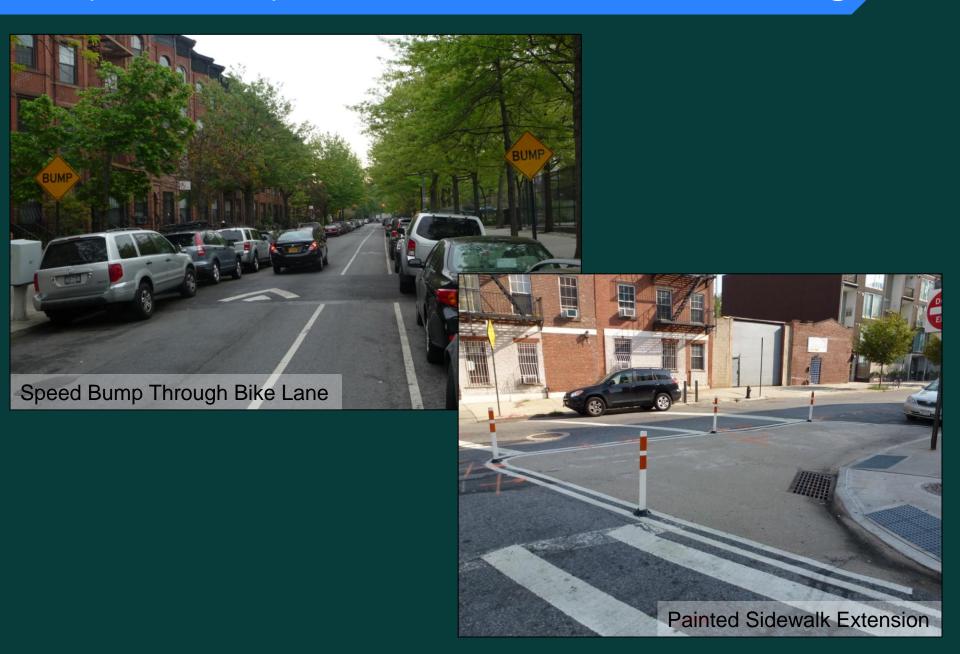
Speed Bumps

- Control illegal speeding
- Discourage cut-throughs

Painted Sidewalk Extensions

- Emphasize right of way of crossing pedestrians
- Proposed locations:
 - SWC at Berkeley Place
 - SEC of Flatbush Ave
 - NEC of Vanderbilt Ave

Proposed Improvements - Traffic Calming



Comparing Designs

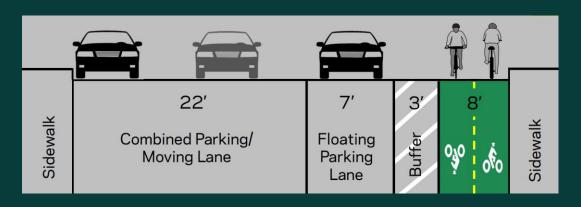
- 1. Sense of Protection
- 2. Bike Network Access
- 3.Limited Impact on Other Street Users
- 4.Limited Parking Loss

Comparison: Sense of Protection

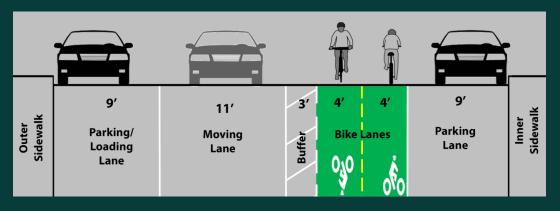
Sense of Protection



2010 Protected Bike Path



2012 Two-way Bike Lane

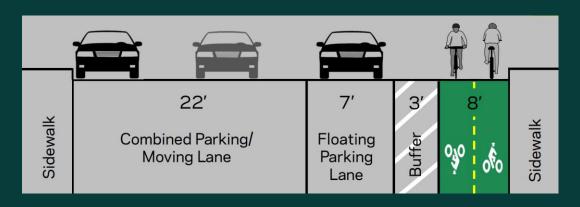


Less demand for protection due to low traffic volumes

Comparison: Bike Network Access

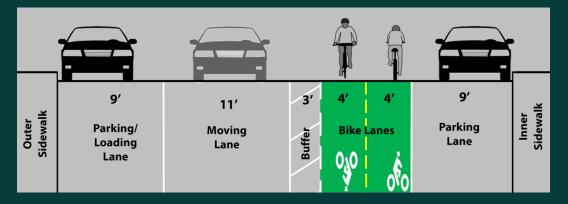
Bike Network Access

2010 Protected Bike Path

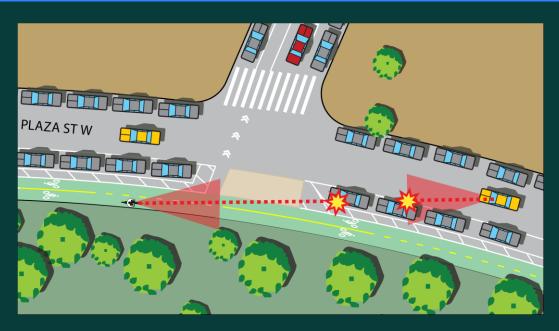




2012 Two-way Bike Lane

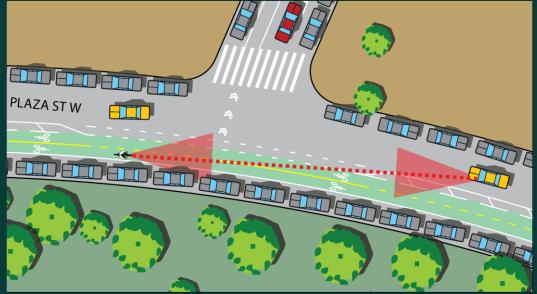


Comparison: Bike Network Access



2010 Protected Bike Path

- Safety: poor visibility
- Mobility: two-stage turn required



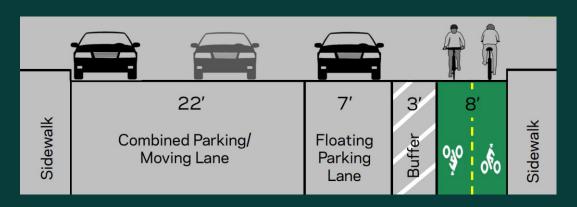
2012 Two-way Bike Lane

- Safety: excellent sight lines for turns
- Mobility: simpler/quicker turns, cyclist can pick out gaps in traffic

Comparison: Impact on Other Street Users

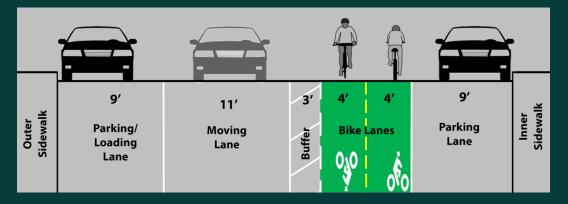
Limited Impact on Other Street Users

2010 Protected Bike Path





2012 Two-way Bike Lane

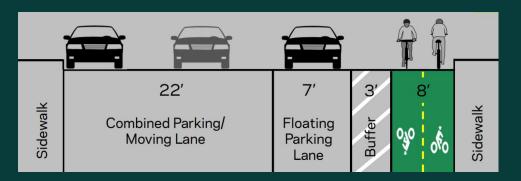




Comparison: Limiting Parking Loss

Limiting Parking Loss

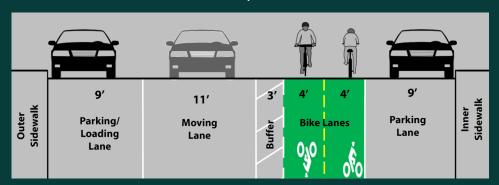
2010 Protected Bike Path



Removed 30 of 92 spaces along berm

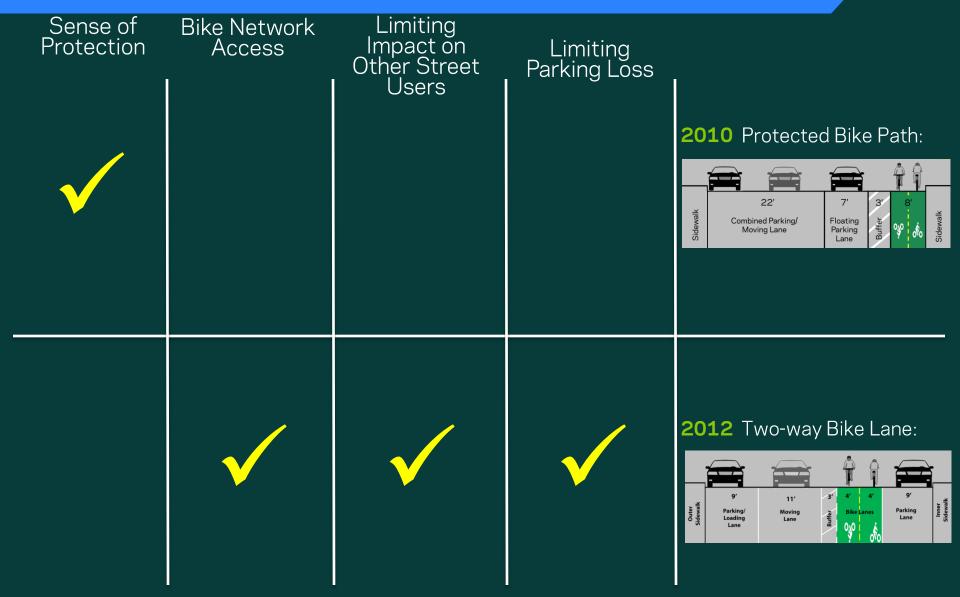


2012 Two-way Bike Lane



No spaces removed

Comparison of 2010 & 2012 Proposals



Inspiration for Innovative Design







- Contra-flow treatment already successful in major U.S. cities
- Ocean Parkway Service Road two-way lane installed 2009

Proposal Summary

Proposal:

- Addresses 2010 community concerns
- Two-way buffered bicycle lane
- Narrow existing moving lane to standard width
- Wide separation between vehicles and contra-flow bikes
- Speed bumps & painted neckdowns

Benefits:

- Improved cycling route flexibility & connectivity
- Easy on/off for short bike trips
- Traffic calming on residential street safer for all users
- Predictability of two-way cyclists safer ped crossing
- No parking loss

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