



43rd Avenue, Skillman Avenue

Street Safety Improvement Project

Presented to Queens Community Board 2 Transportation Committee - November 6, 2017

■ Background

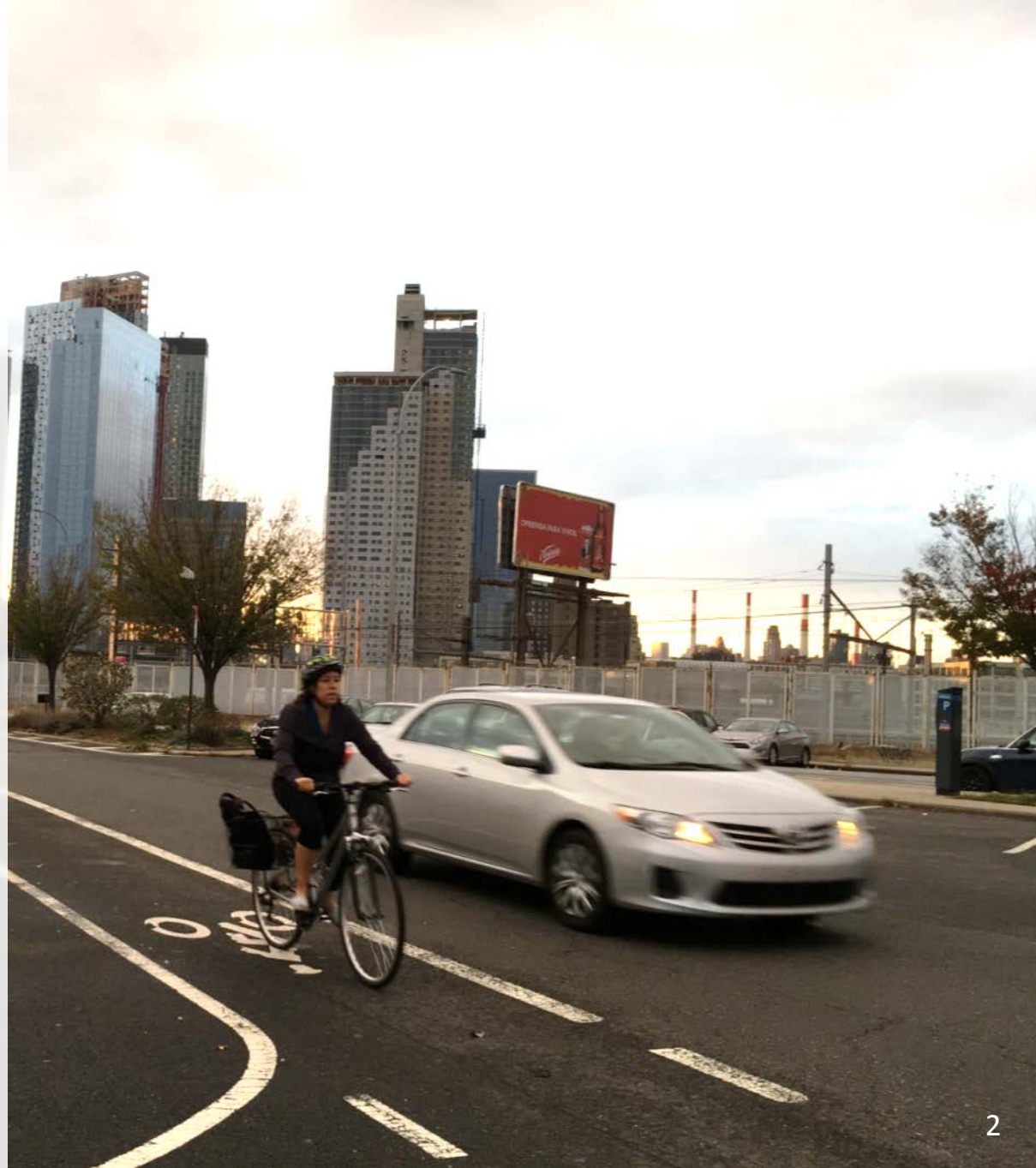
- Project timeline
- Safety data
- Existing bike network

■ Project proposal

- Proposal overview
- Corridor reconfiguration
- Safety improvements at Roosevelt Ave
- Skillman Ave at Sunnyside Yards

■ Summary

- Proposed project benefits
- Parking changes



Background

1

Project Timeline



- **2008:** Bicycle lanes installed on Skillman Ave and 43rd Ave
- **2011:** 2-way bicycle path striped on Queens Blvd Bridge
- **2015-2017:** Protected bicycle lanes installed on Queens Blvd between 50th St and Yellowstone Blvd
- **April 2017**
 - 1 bicyclist serious injury and 1 death at 43rd Ave and 39th St
 - Majority Leader Van Bramer and Community Request Traffic Safety Improvements and Call for Analysis of Protected Bike Lane on 43rd Ave/Skillman Ave
- **Spring 2017**
 - 108th Precinct walkthrough
 - Traffic data collection
- **Summer 2017:** DOT design and analysis of protected bicycle lanes on Skillman Ave and 43rd Ave
- **August 2017:**
 - 2-way bicycle path painted green on Queens Blvd Bridge

Safety

- Skillman Ave and 43rd Ave are in a **Vision Zero Priority Area**
- **Bicyclist fatality** at 43rd Ave/39th St in April, 2017
- **1,400+ bicyclists** counted during May 2017 7am-7pm weekday count (between Van Dam St/32nd Pl and between 39th St/39th Pl)

Skillman Ave/43rd Ave (Queens Blvd to Roosevelt Ave), QN
Injury Summary, 2010-2014 (5 years)

	Total Injuries	Severe Injuries	Fatalities	KSI
Pedestrian	74	6	0	6
Bicyclists	46	3	0	3
Motor Vehicle Occupant	221	6	0	6
Total	341	15	0	15

Fatalities, 01/01/2010 – 7/24/2017: 2

Source: Fatalities: NYCDOT, Injuries: NYSDOT. KSI: Persons Killed or Severely Injured



Bike Network



Project Proposal

2

Proposal Overview

- **Discourage speeding** by narrowing the roadway
- Shortens pedestrian crossings in a Vision Zero Priority Area with **30+ pedestrian islands**
- Upgrades 2.6 lane miles of bike lanes to **protected bike lanes**
- Creates a **continuous 7+ mile protected bike route** from Forest Hills to Midtown via Queens Blvd, Skillman Ave/43rd Ave, Queens Blvd Bridge, Queens Plaza North, and the Queensboro Bridge path



Proposal Overview



Proposed Improvements

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Corridor Reconfiguration

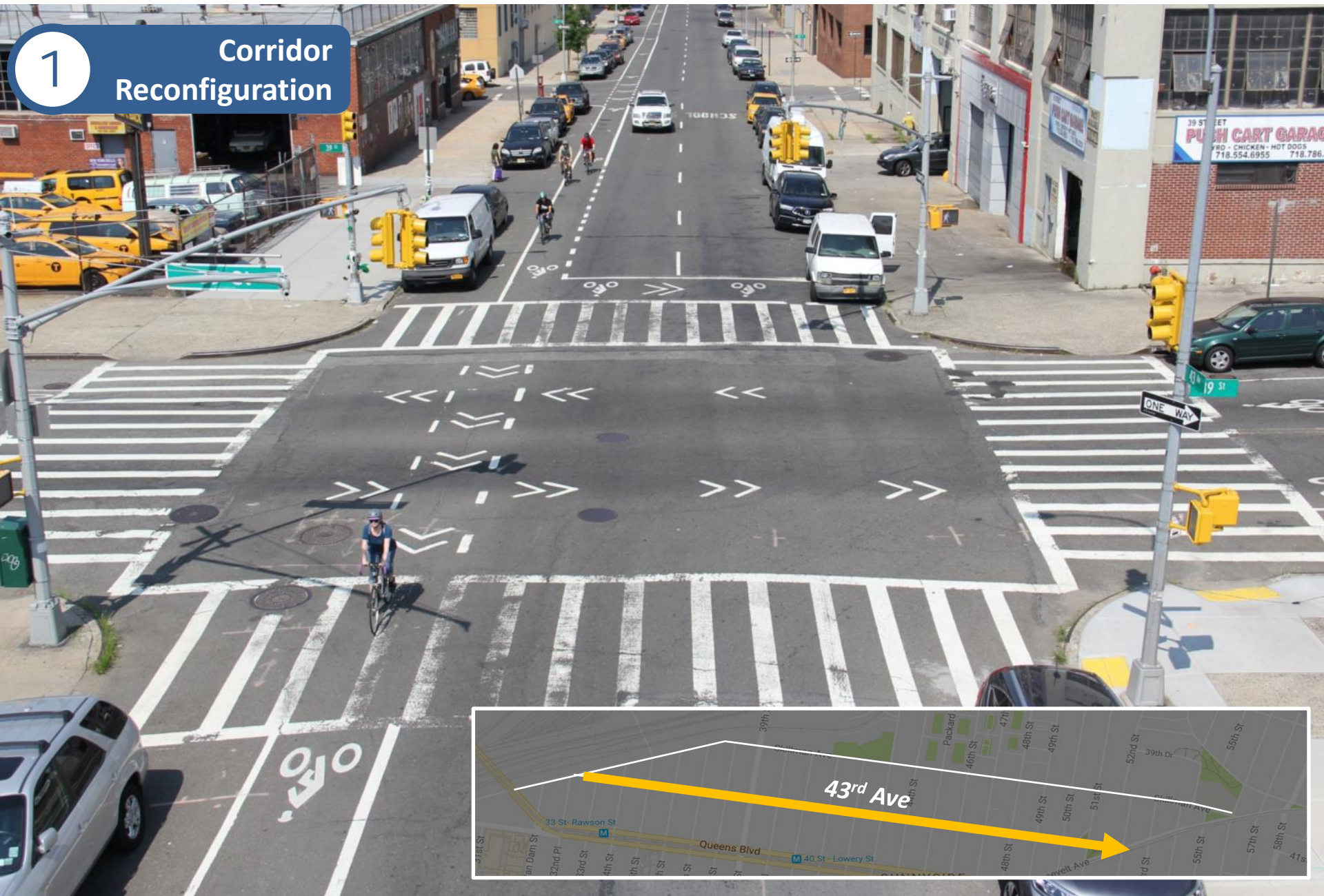


43rd Ave, Skillman Ave – Project Proposal

Existing Conditions: 43rd Ave (32nd Pl/Skillman Ave to 52nd St/Roosevelt Ave) – typical configuration, facing west

1

Corridor Reconfiguration

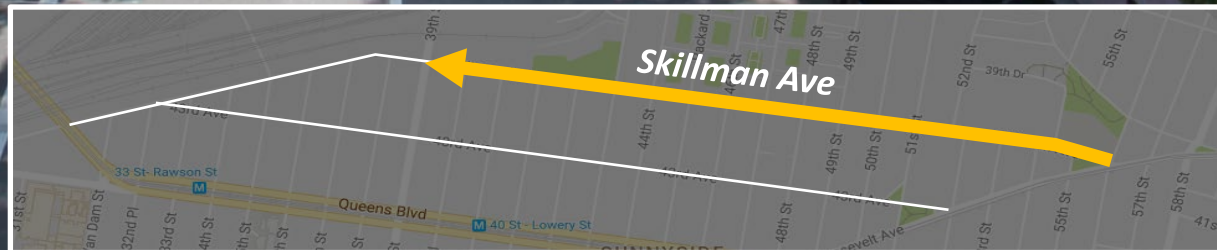


43rd Ave, Skillman Ave – Project Proposal

Existing Conditions: Skillman Ave (56th St/Roosevelt Ave to 39th St) – typical configuration, facing east

1

Corridor Reconfiguration

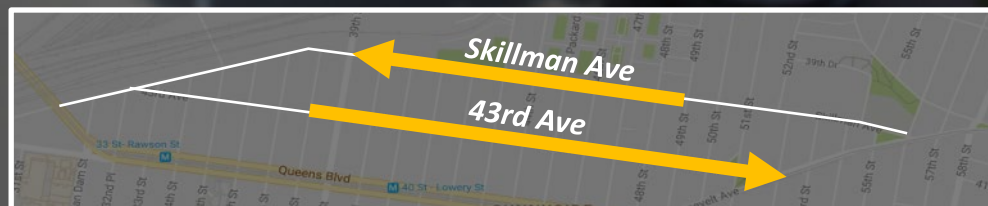
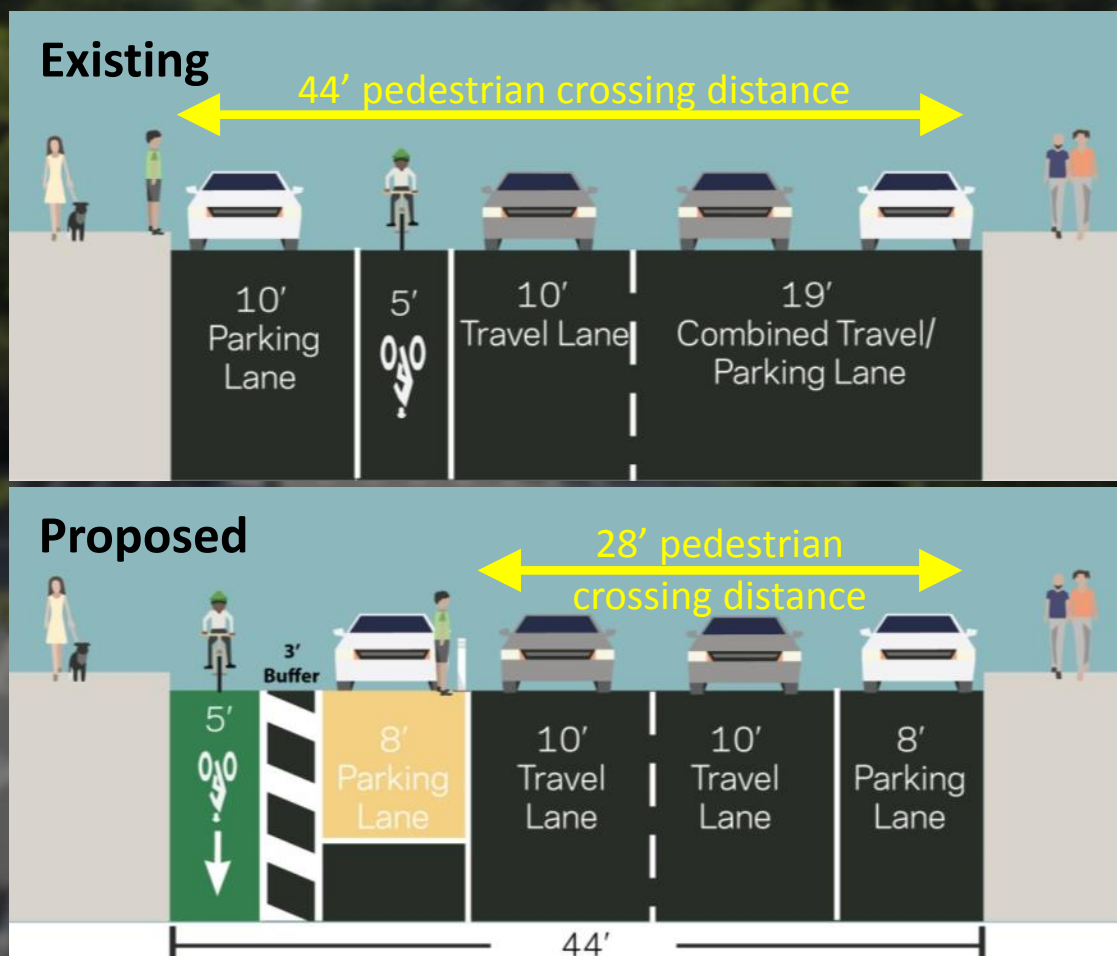


43rd Ave, Skillman Ave – Project Proposal

Skillman Ave (49th St to 39th St), 43rd Ave (38th St to 52nd St)

Typical Configuration with Two Travel Lanes

- Protected space for bicyclists
- Shorter crossing distance
- Maintain necessary traffic capacity



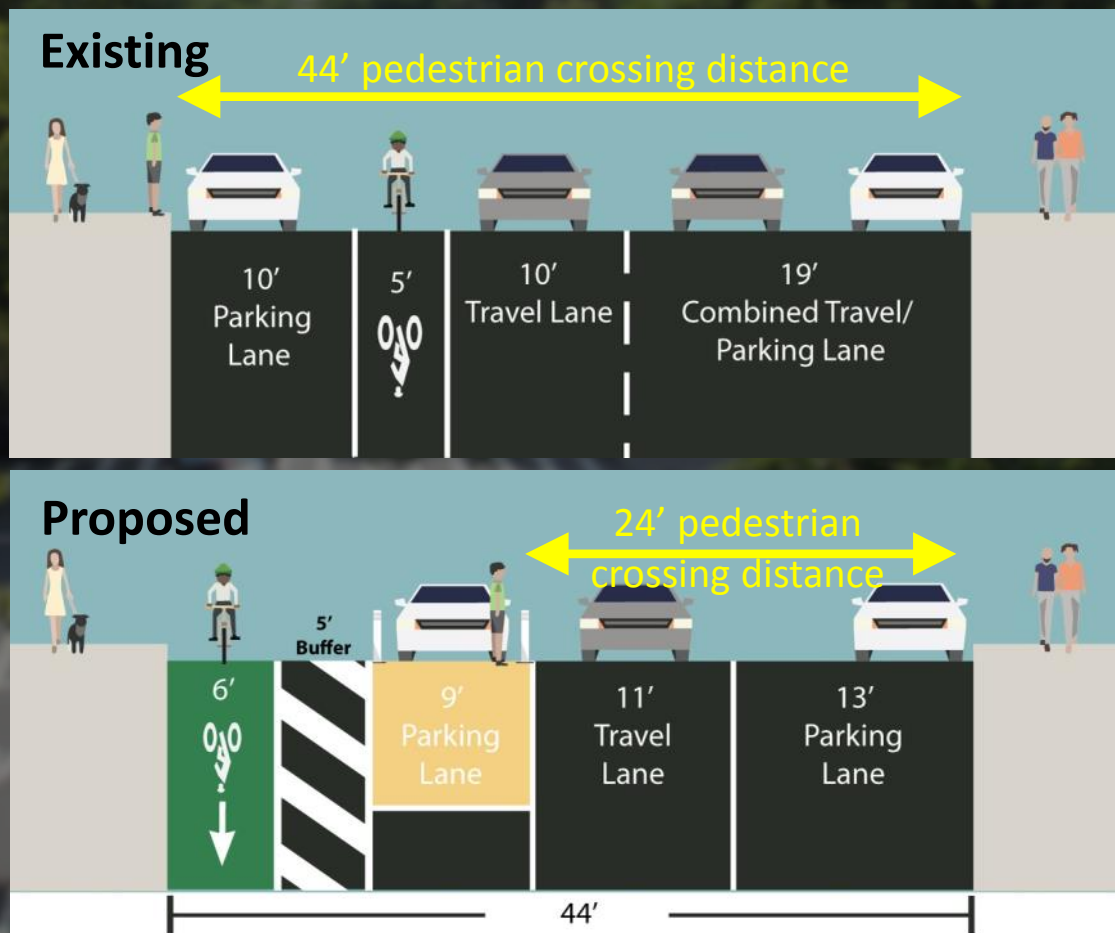
1

Corridor
Reconfiguration

43rd Ave, Skillman Ave – Project Proposal

Skillman Ave (56th St to 49th St), 43rd Ave (32nd Pl to 38th St)

- Lower vehicle volume on these sections of 43rd Ave and Skillman Ave
- Traffic analysis indicates that traffic will still flow well with one travel lane
- Removing excess vehicular capacity discourages speeding
- Wide parking lane allows traffic to flow even when a vehicle is double-parked



1 Corridor Reconfiguration

43rd Ave, Skillman Ave – Project Proposal

Existing Conditions: Skillman Ave (49th St to 39th St), 43rd Ave (38th St to 52nd St)

High cyclist volumes without physical separation

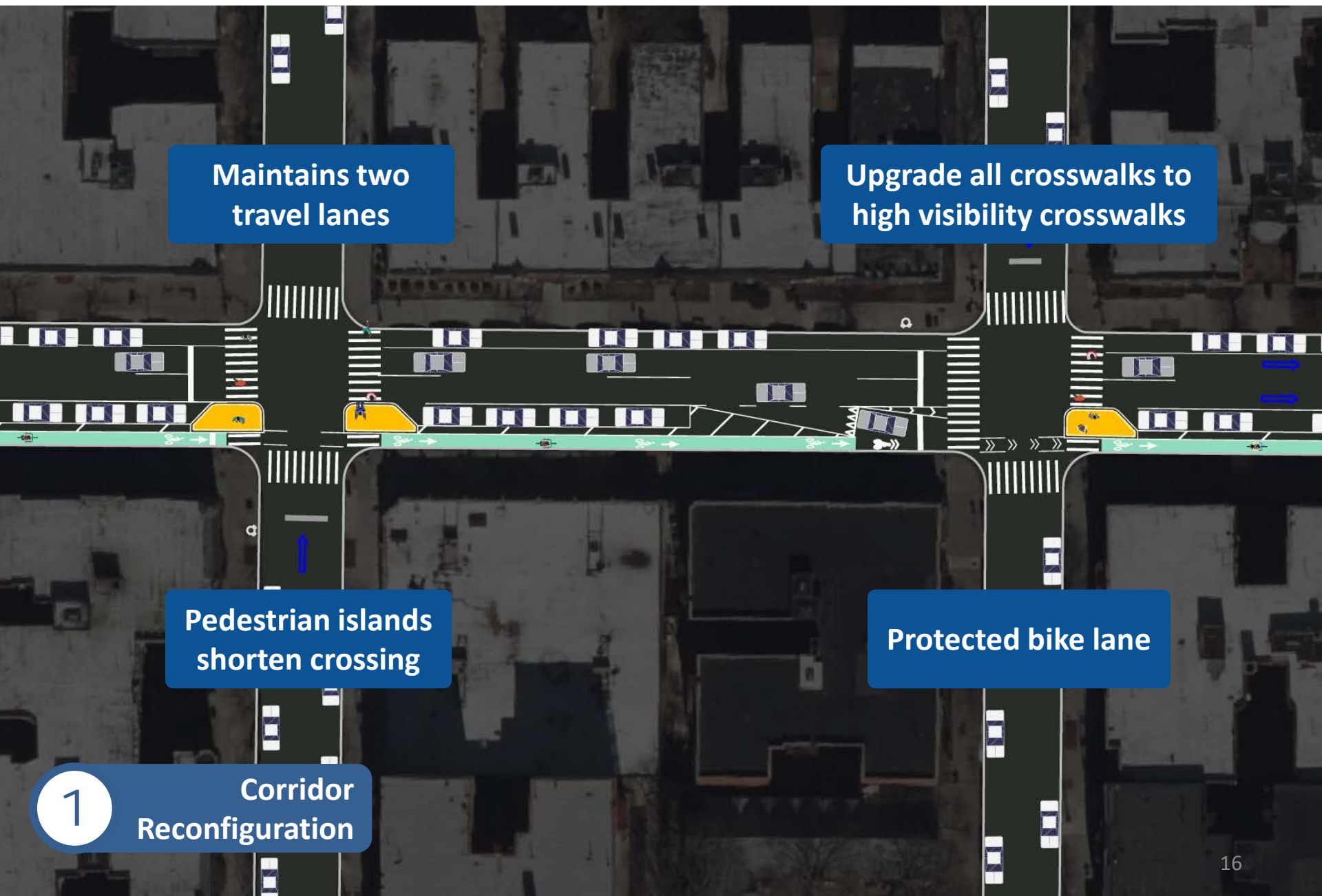
Long pedestrian crossing distances

1

Corridor
Reconfiguration

43rd Ave, Skillman Ave – Project Proposal

Proposed Conditions: Skillman Ave (49th St to 39th St), 43rd Ave (38th St to 52nd St)



Maintains two
travel lanes

Upgrade all crosswalks to
high visibility crosswalks

Pedestrian islands
shorten crossing

Protected bike lane

1

Corridor
Reconfiguration

43rd Ave, Skillman Ave – Project Proposal

Existing Conditions: 43rd Ave (51st St to Roosevelt Ave)

- Location: slip-lane for right turn from 43rd Ave to westbound Roosevelt Ave near 52nd St
- Extremely low vehicle volume
- Heavy pedestrian volume near 52 St-Lincoln Ave subway station



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Safety Improvements at Roosevelt Ave

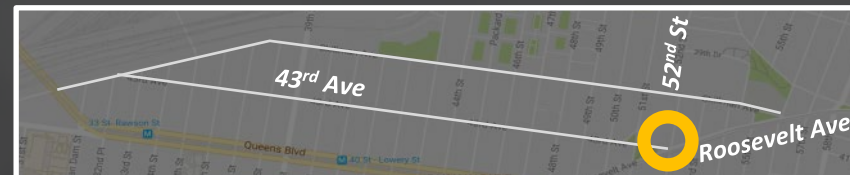


43rd Ave, Skillman Ave – Project Proposal

43rd Ave (51st St to Roosevelt Ave), 52nd St (Roosevelt Ave to Queens Blvd)

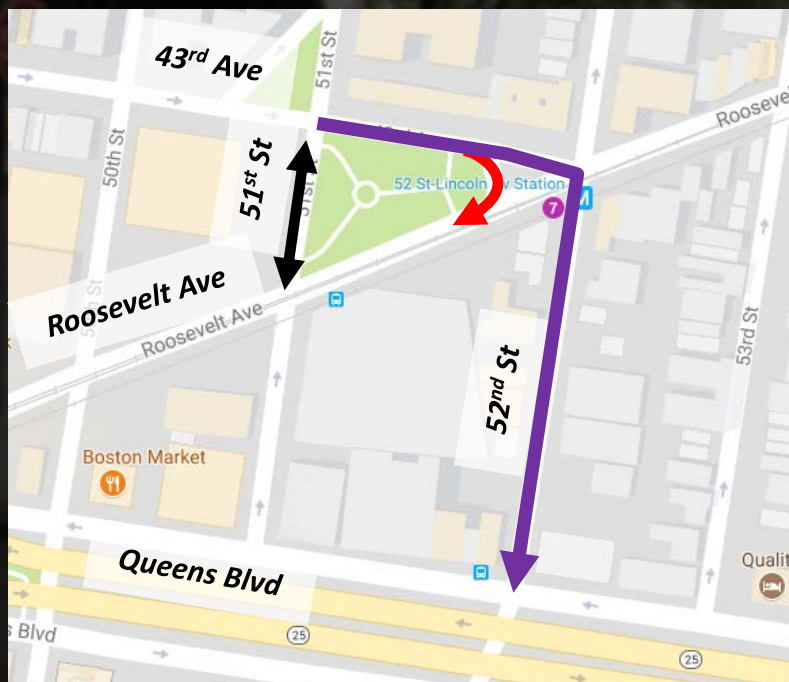
Proposal:

- Ban right turn from 43rd Ave onto Roosevelt Ave and close slip-lane
- Maintain two-way access on 51st St
- Extend 43rd Ave protected bike lane to Roosevelt Ave
- Add bike lane connection to Queens Blvd protected bike lane via 52nd St



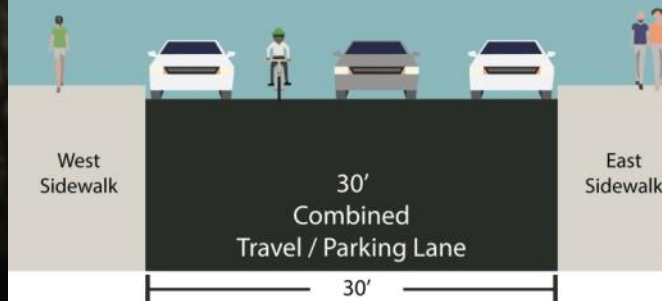
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Safety Improvements at Roosevelt Ave



52nd St: Roosevelt Ave to Queens Blvd

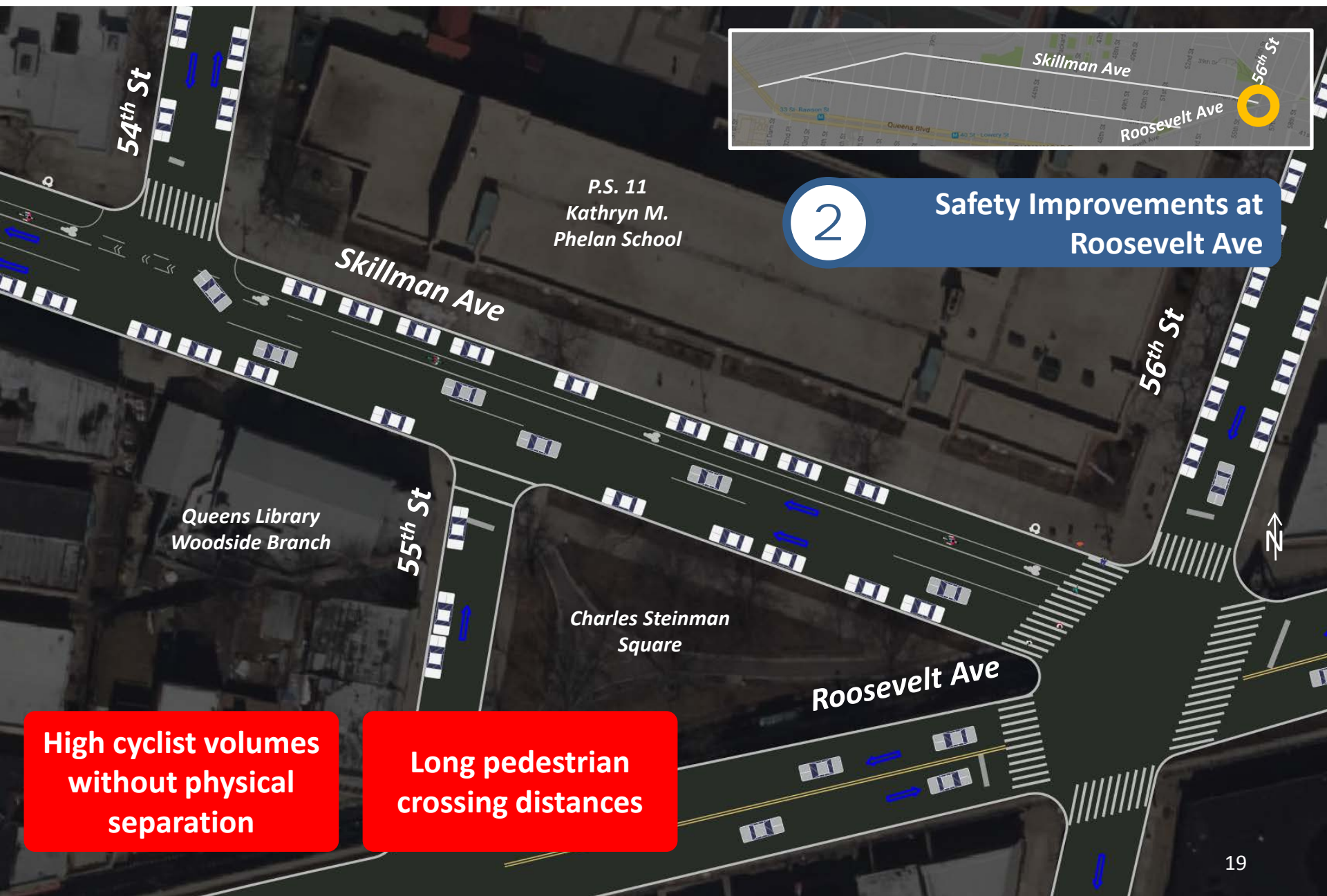
Existing



Proposed



Existing Conditions: Skillman Ave (54th St to Roosevelt Ave)



2 Safety Improvements at Roosevelt Ave

High cyclist volumes without physical separation

Long pedestrian crossing distances



Safety Improvements at Roosevelt Ave

Traffic calming

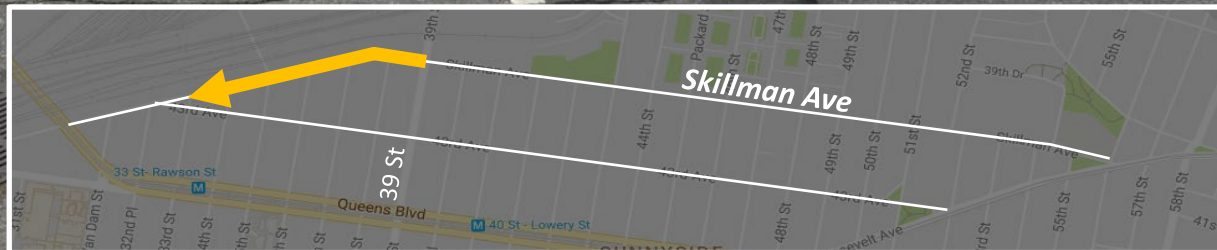
Pedestrian Island shortens crossing

43rd Ave, Skillman Ave – Project Proposal

Existing Conditions: Skillman Ave (39th St to 33rd St)

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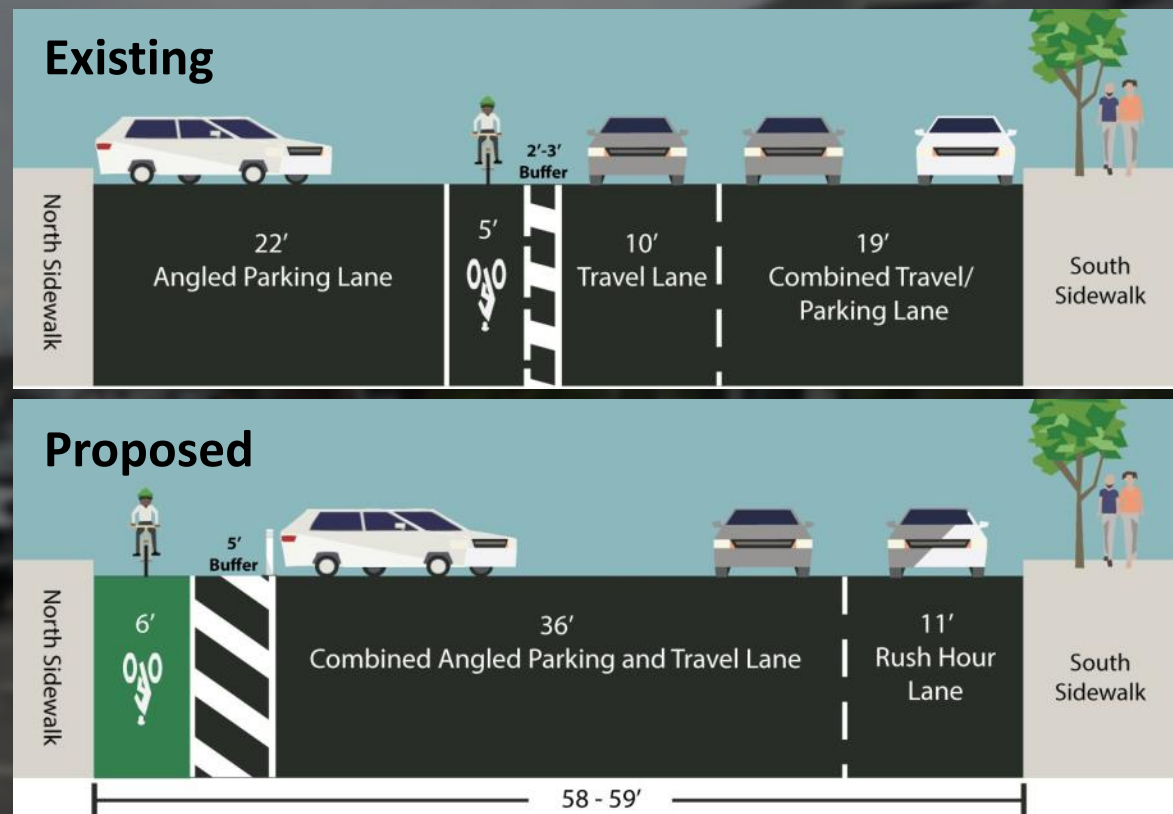
**Skillman Ave
at Sunnyside Yards**



Skillman Ave (39th St to 33rd St)

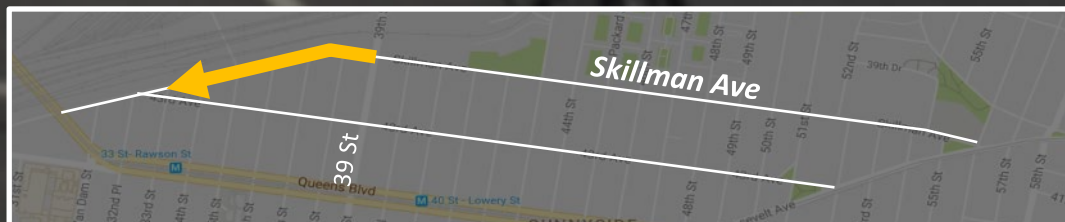
Proposal:

- One full-time travel lane
- One 7am-10am curbside travel lane
- Angled parking
- Protected bike lane



3

**Skillman Ave
at Sunnyside Yards**



Example: Paerdegat Ave North, Brooklyn

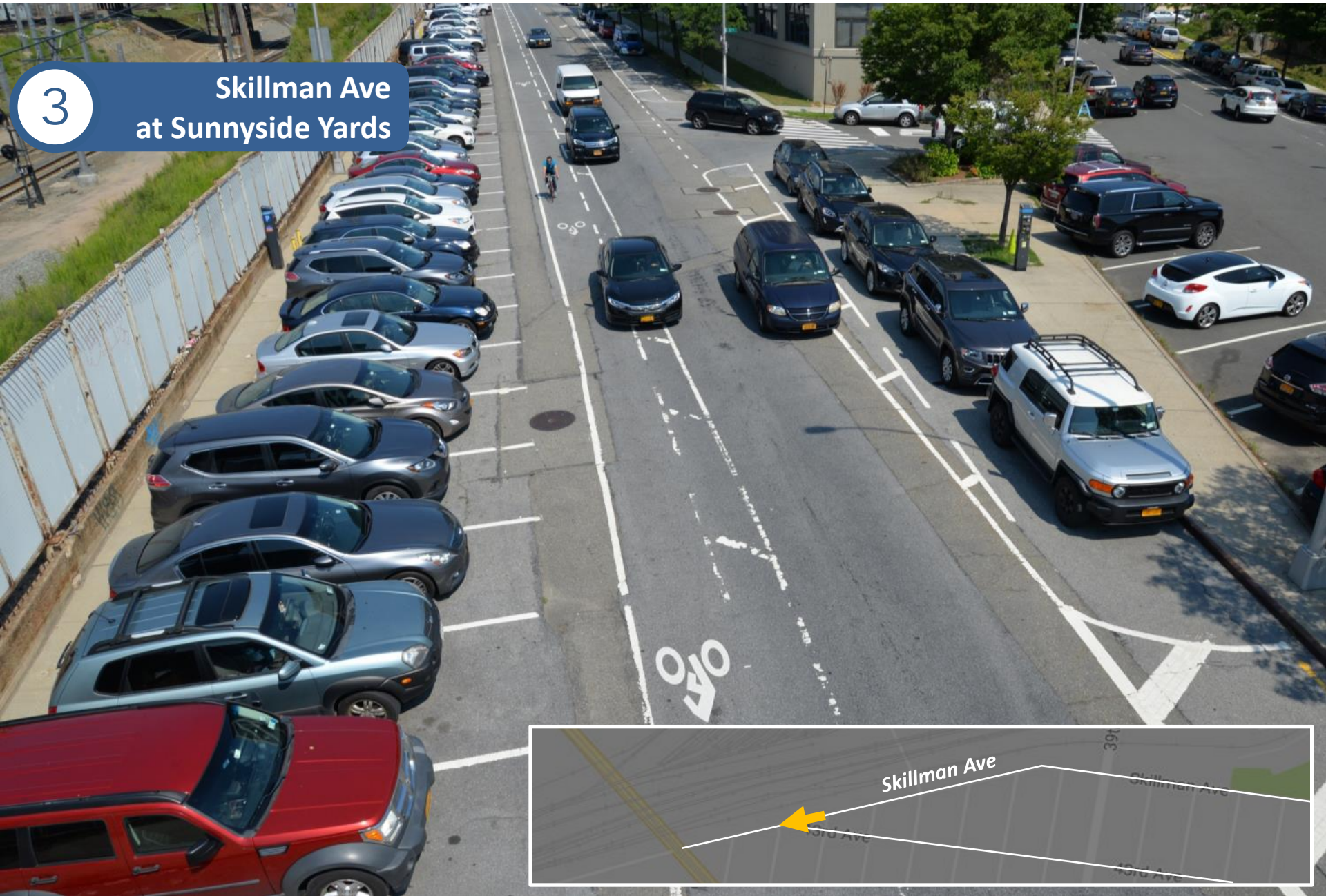


43rd Ave, Skillman Ave – Project Proposal

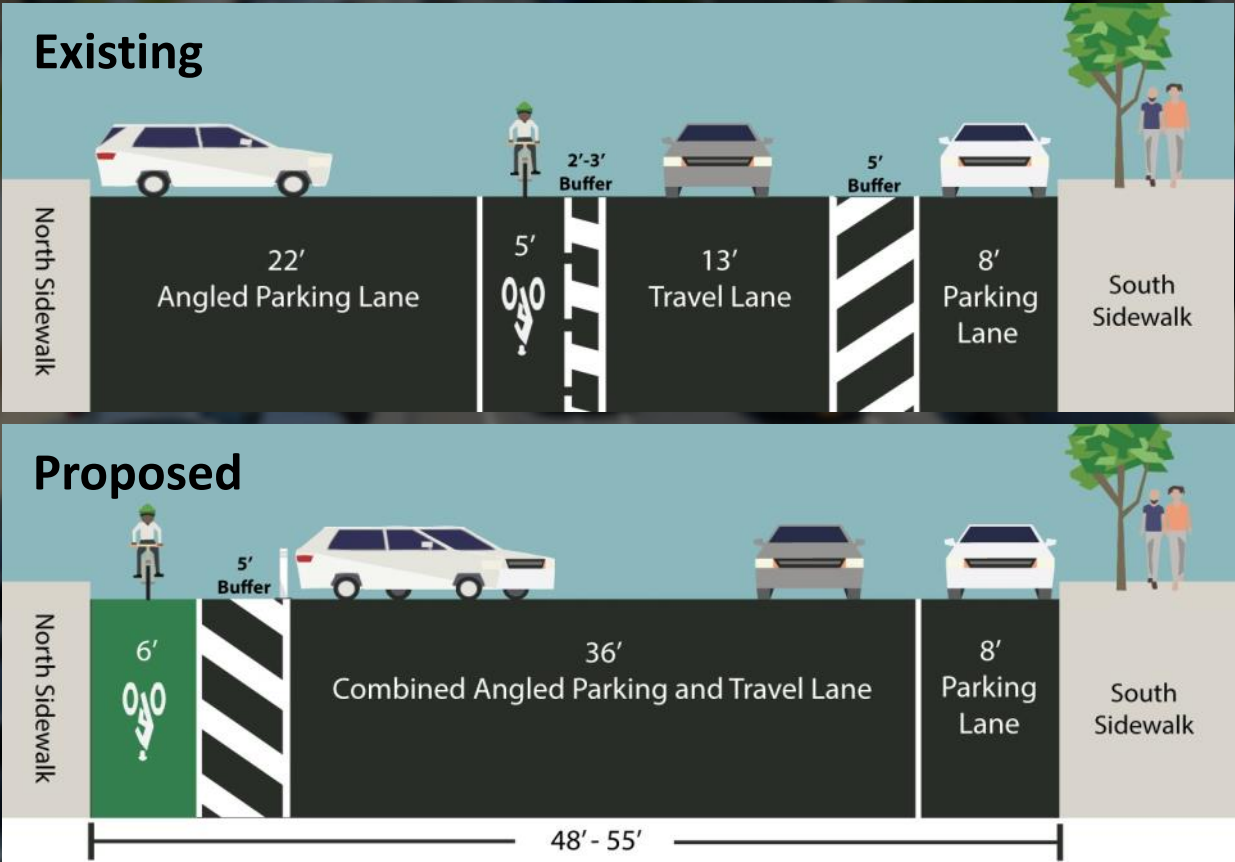
Existing Conditions: Skillman Ave (33rd St to 32nd Pl)

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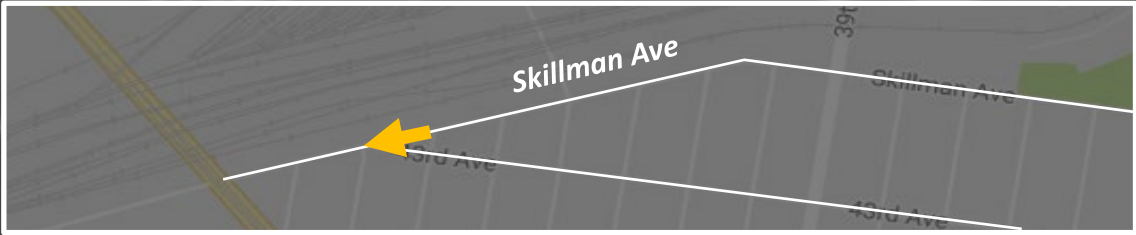
Skillman Ave
at Sunnyside Yards



Skillman Ave (33rd St to 32nd St)



3 Skillman Ave at Sunnyside Yards



43rd Ave, Skillman Ave – Project Proposal

Existing Conditions: Skillman Ave (32nd Pl/43rd Ave to Queens Blvd)

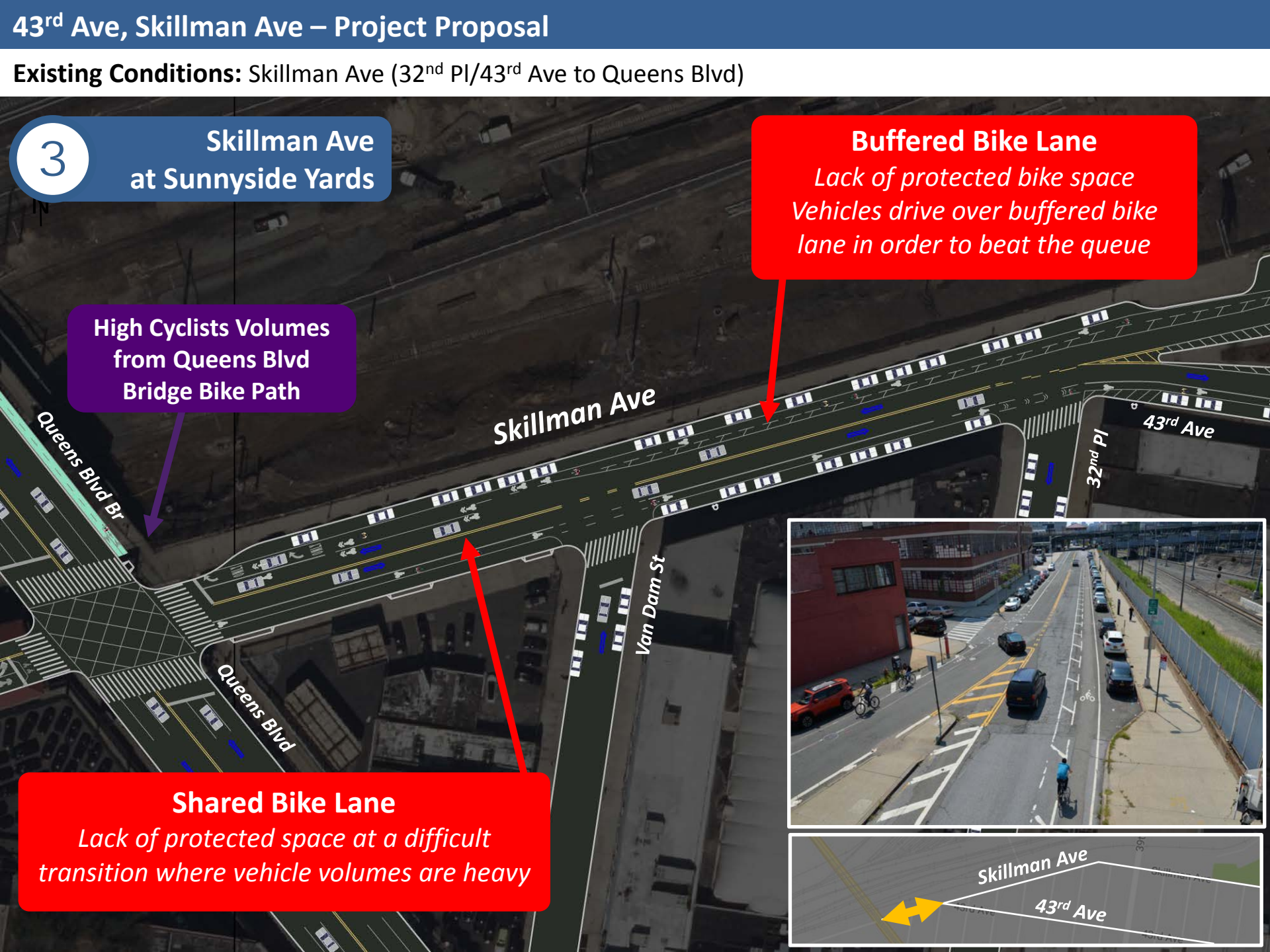
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Skillman Ave
at Sunnyside Yards

High Cyclists Volumes
from Queens Blvd
Bridge Bike Path

Buffered Bike Lane
*Lack of protected bike space
Vehicles drive over buffered bike
lane in order to beat the queue*

Shared Bike Lane
*Lack of protected space at a difficult
transition where vehicle volumes are heavy*



43rd Ave, Skillman Ave – Project Proposal

Proposed Conditions: Skillman Ave (32nd Pl/43rd Ave to Queens Blvd)

3

Skillman Ave at Sunnyside Yards

2-way Protected Bike Path

Maintain all moving lanes

Separates moving lane from bikes

Easier two-way bike transition from Queens Blvd Bridge



Example: 20th Ave, Queens



Summary

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Proposed Project Benefits

Pedestrian Safety

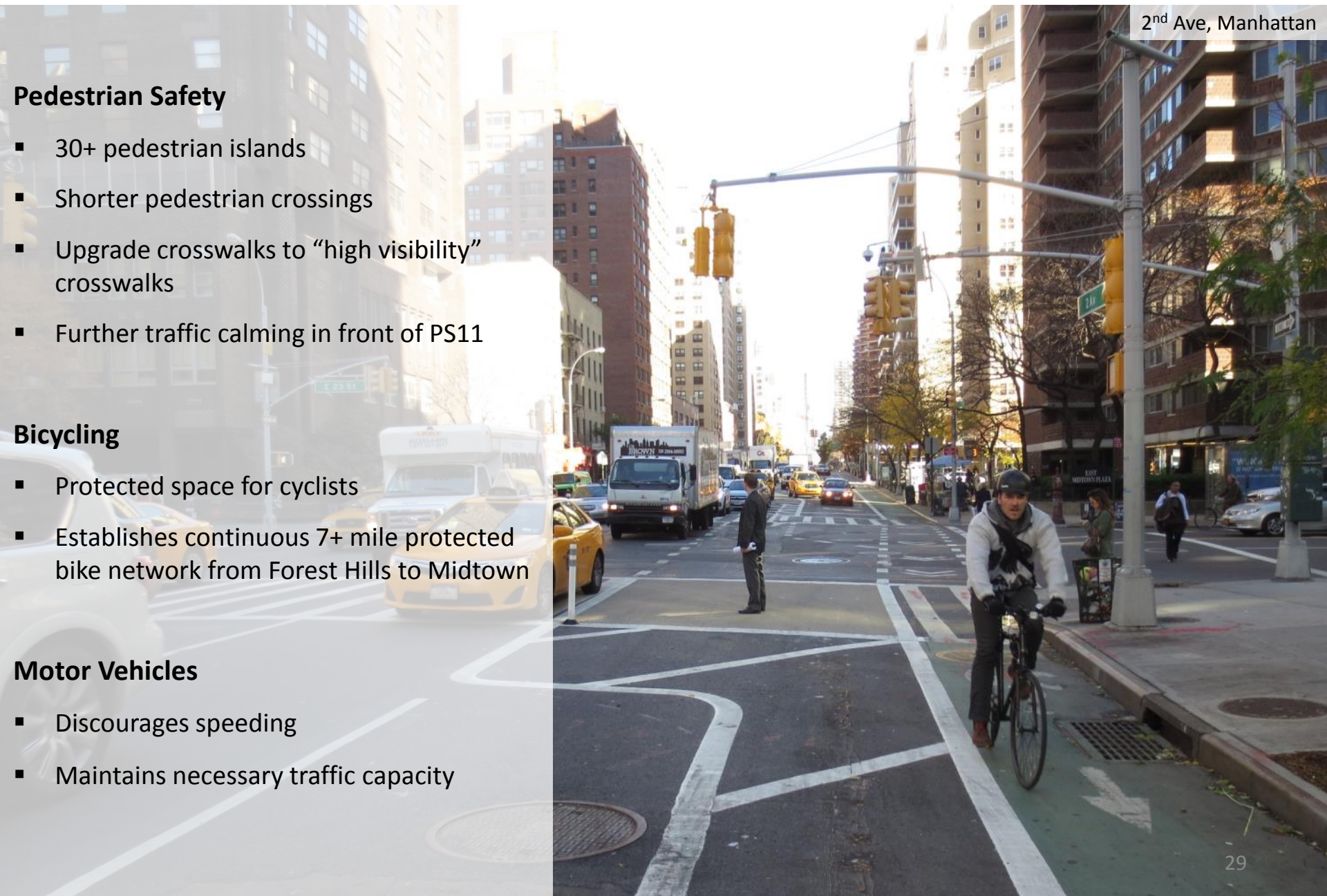
- 30+ pedestrian islands
- Shorter pedestrian crossings
- Upgrade crosswalks to “high visibility” crosswalks
- Further traffic calming in front of PS11

Bicycling

- Protected space for cyclists
- Establishes continuous 7+ mile protected bike network from Forest Hills to Midtown

Motor Vehicles

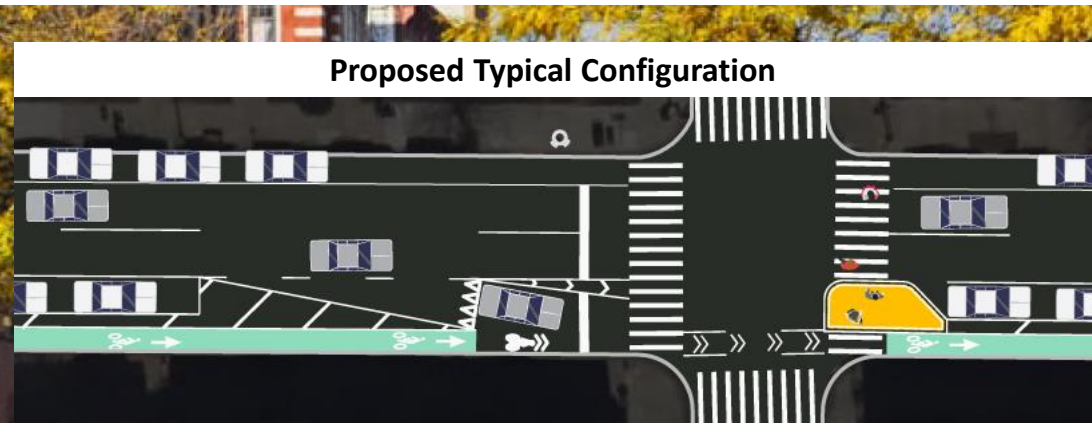
- Discourages speeding
- Maintains necessary traffic capacity



2nd Ave, Manhattan

Summary

Parking Changes: Pedestrian islands will shorten crossing distances 36%-45%, requires some parking loss

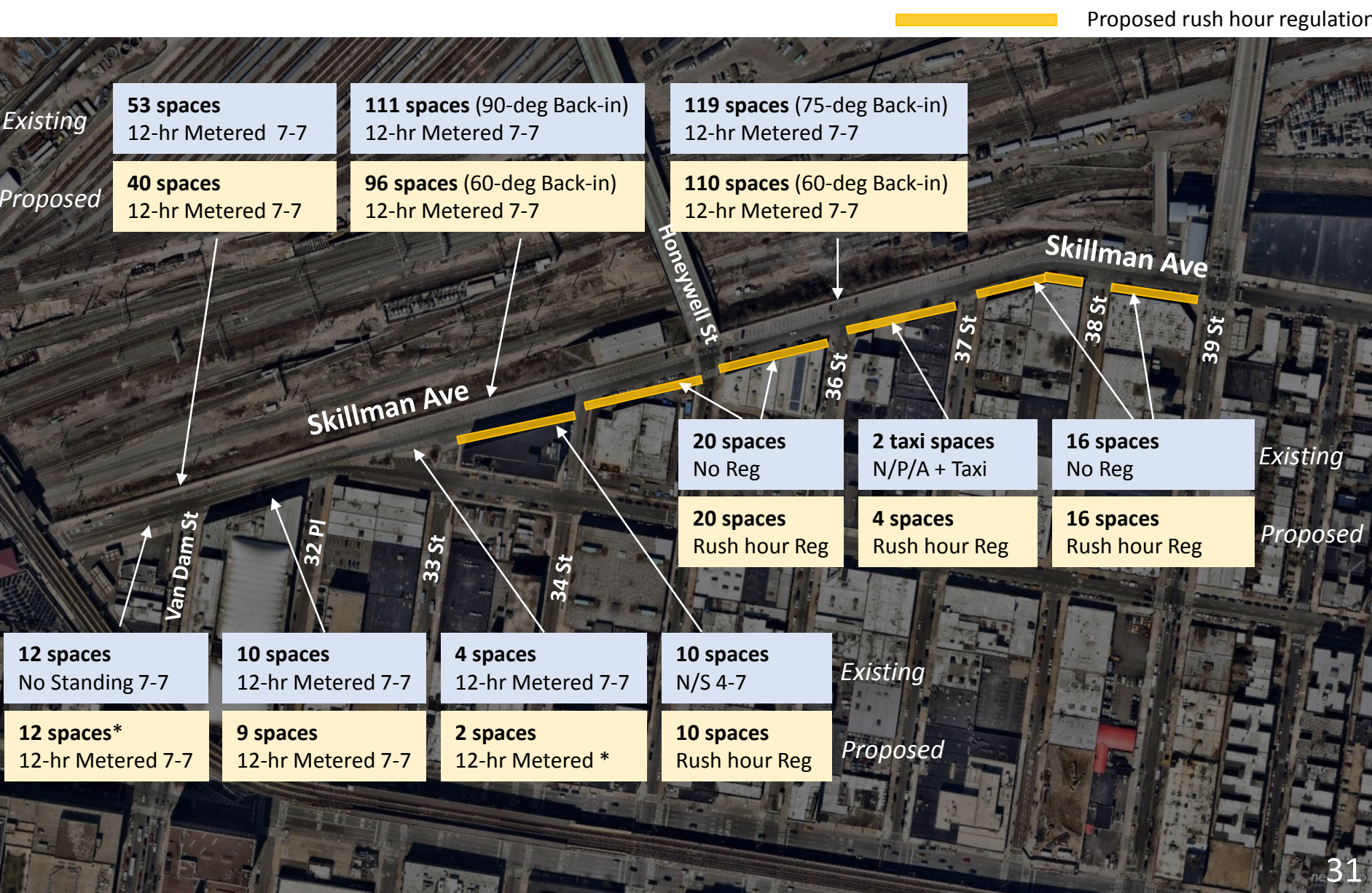


17% of the parking spaces on the Skillman Ave/43rd Ave corridor will be repurposed for **right turn treatments** and **pedestrian islands** (118 spaces)



Summary

Parking Loss on Skillman Ave (39th St to Queens Blvd)
40 full-time spaces and 40 AM peak period spaces lost (359 existing spaces)



Questions?

THANK YOU!



NYC DOT



NYC DOT



nyc_dot



NYC DOT