

Union Square

Union Square Bike Network Improvements



Background



Protected Bike Lanes

- Broadway (2010)
- 1st Ave (2010)
- 2nd Ave (2013)
- 4th Ave (2014)
- 6th Ave (to be installed 2016)

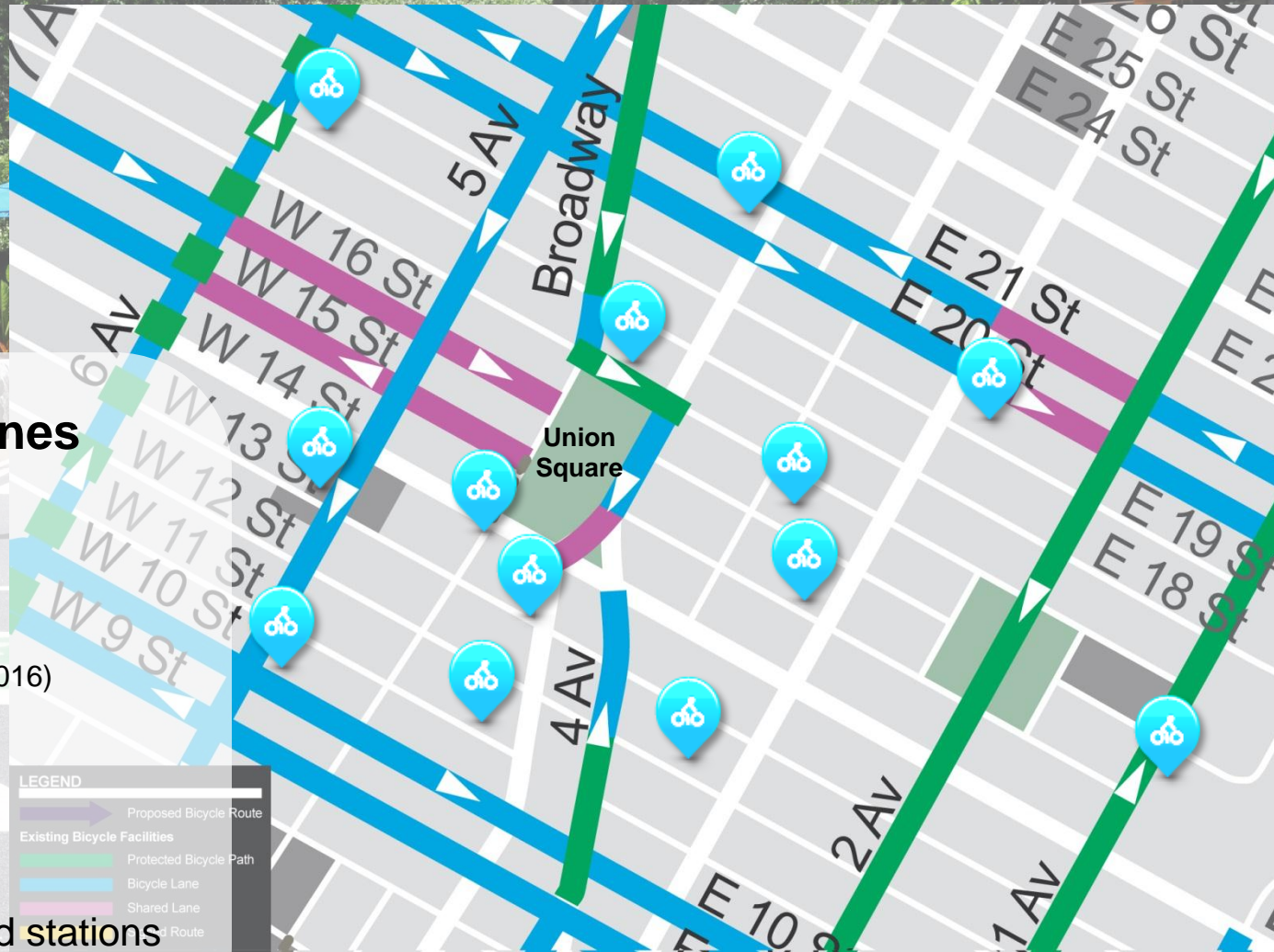
Bike Routes

- W 16th St (2013)
- W 15th St (2013)

Citi Bike

- 2 of the 10 most used stations

Vision Zero Priority Area



Union Square Bike Network Improvements

Issues

4th Ave Northbound Bike Lane Ends

*Protected lane stops short of
Union Square Park
Cyclists have no way to continue
north of 14th St*

Broadway Southbound Bike Lane Ends

*No connection to protected lane
on 2nd Ave*

No Direct East to West Connection

*between Union Sq and
1st Ave/2nd Ave*



Union Square Bike Network Improvements Proposal

① 4th Ave

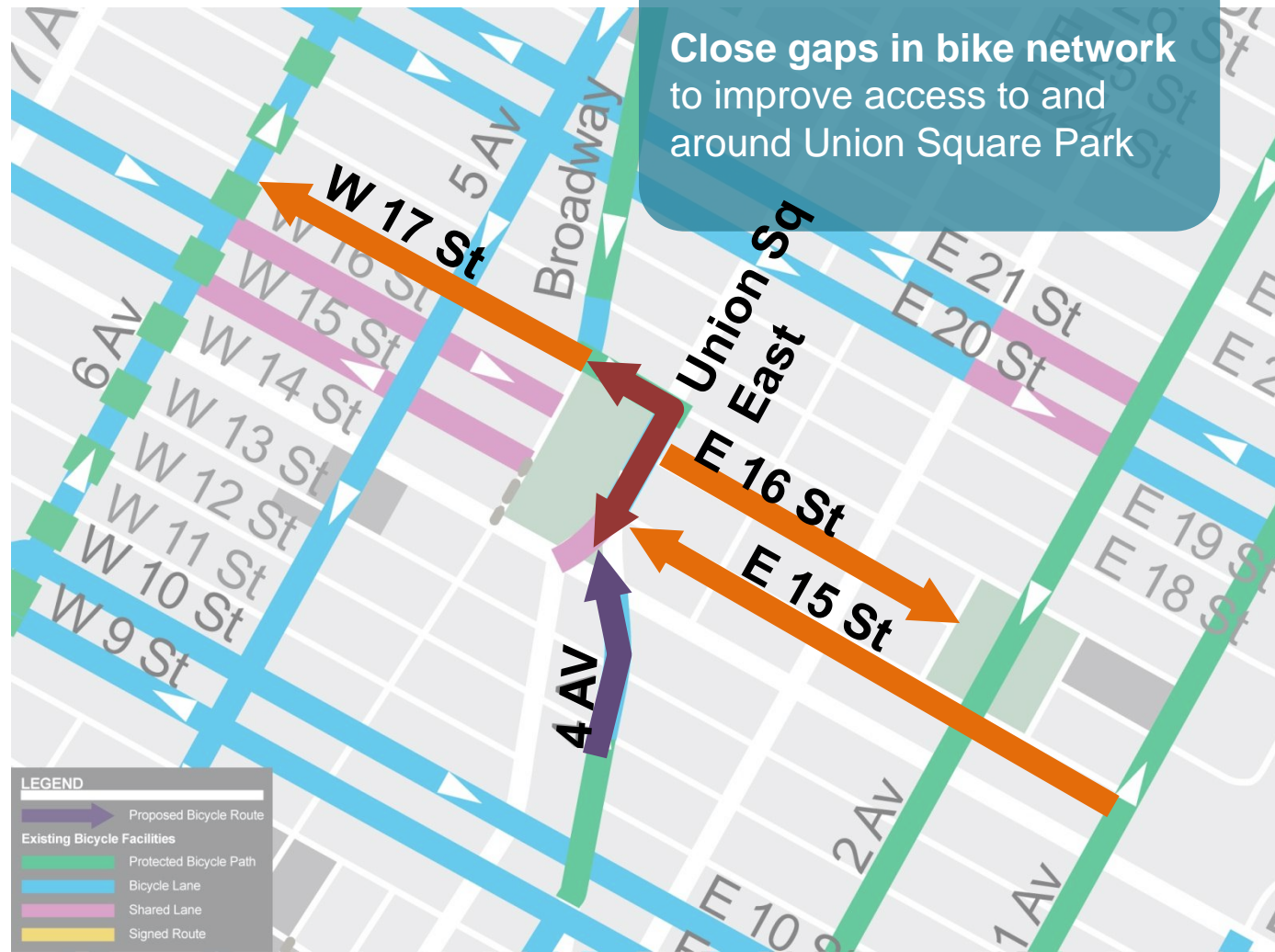
- Extend protected bike lane to 14th St
- Curbside lane one block from 14th St

② Union Square East and 17th St

- Install protected two-way bike lane
- Shorten pedestrian crossings

③ E 15th St E 16th St 17th St

- Install bike lanes connecting to protected lanes on 1st Ave, 2nd Ave, and 6th Ave



4th Avenue

Existing Conditions

1

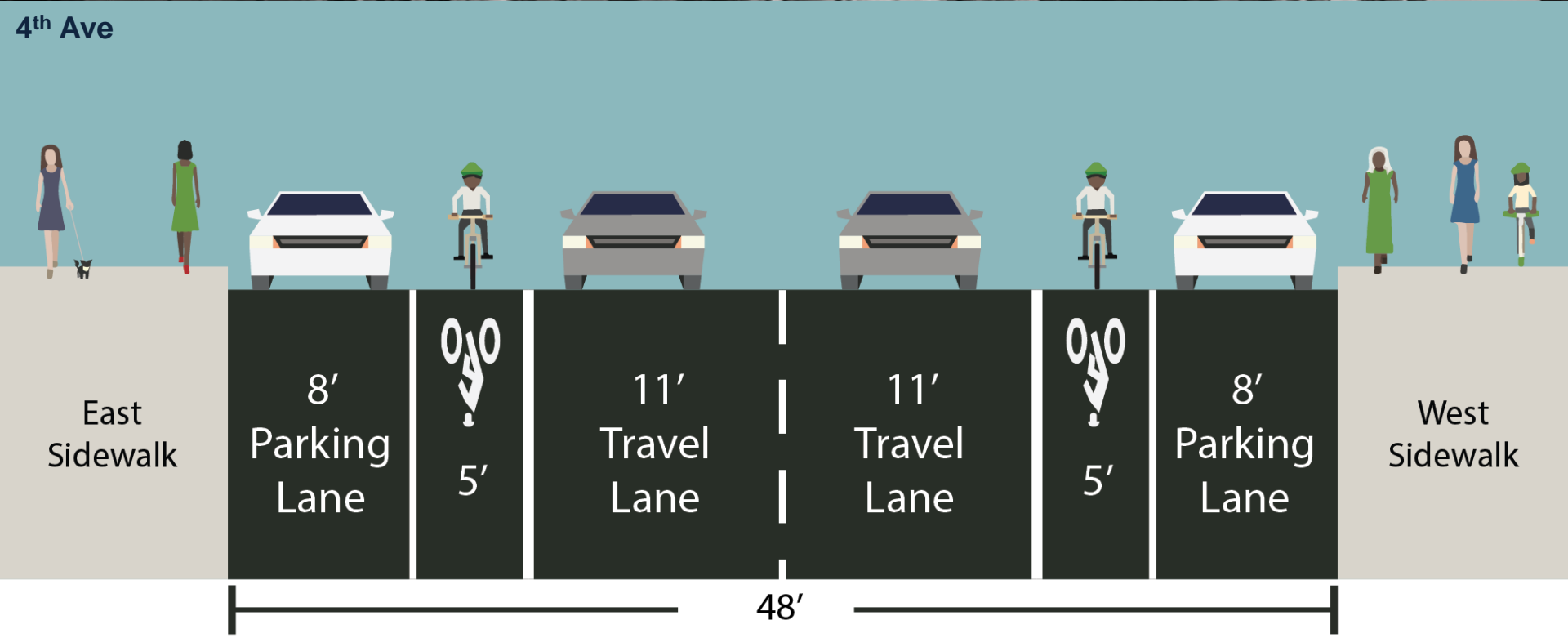


Existing Conditions

1

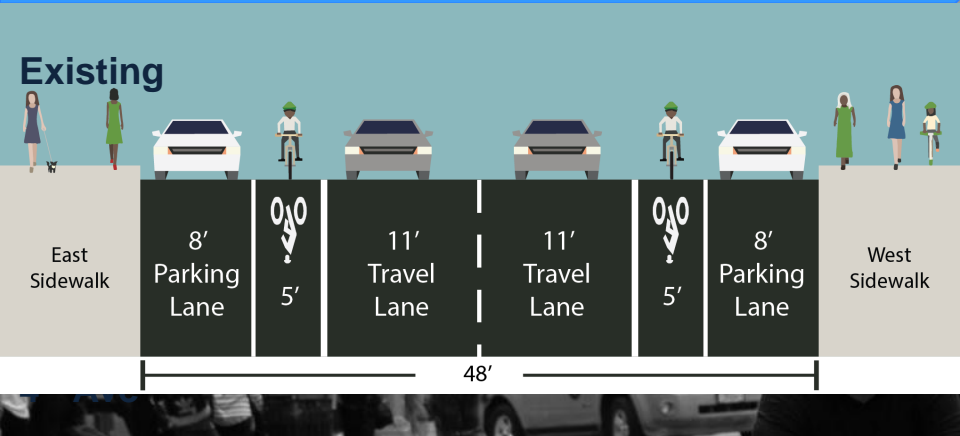


4th Ave

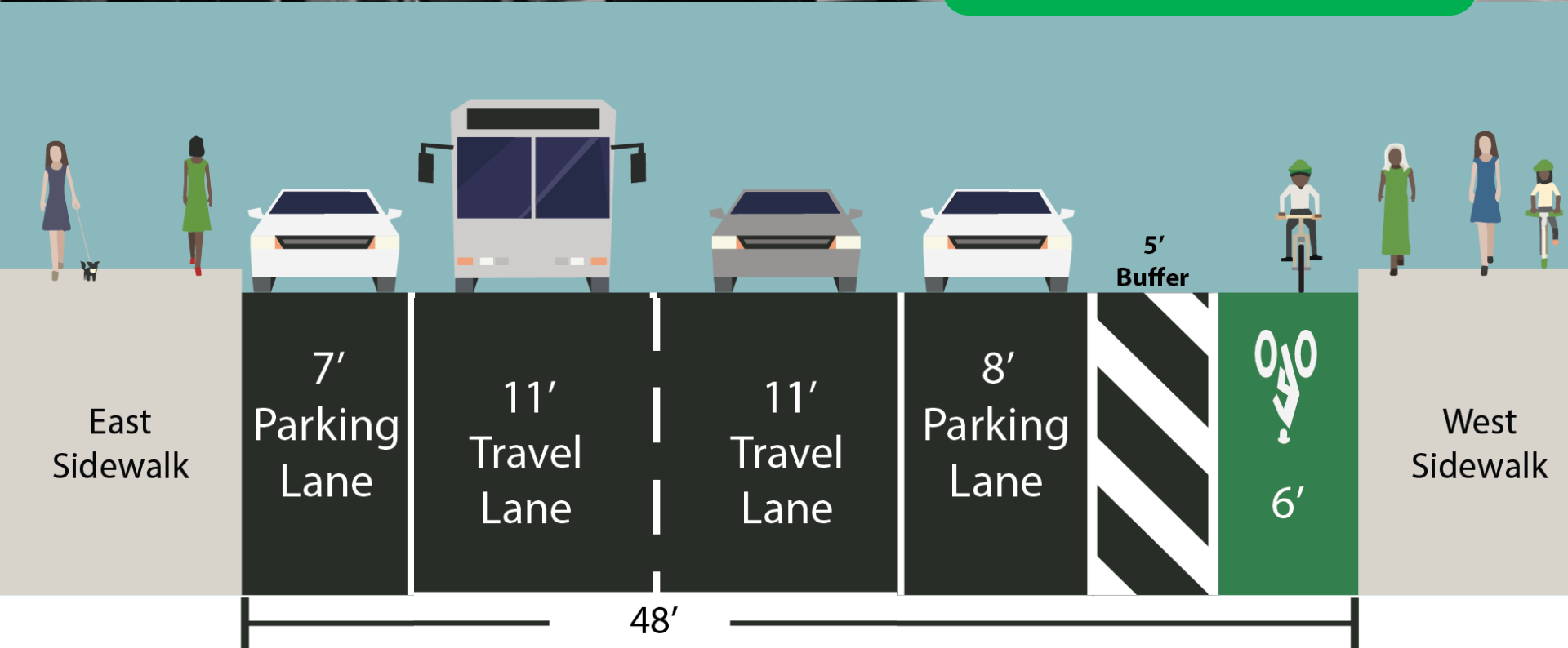


Proposed Design

1

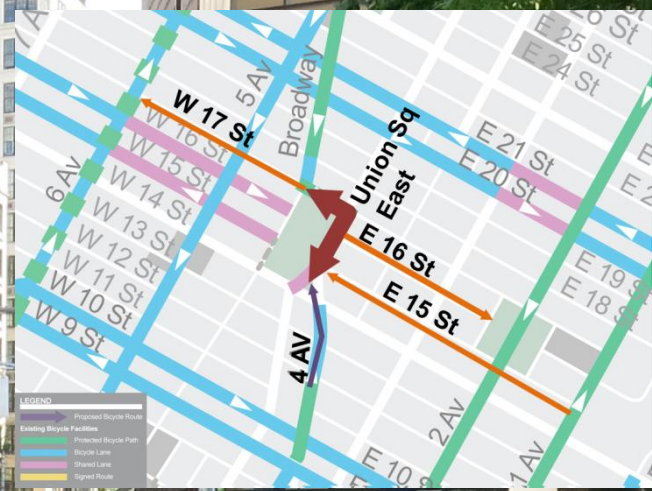


Extend parking protected bike lane to



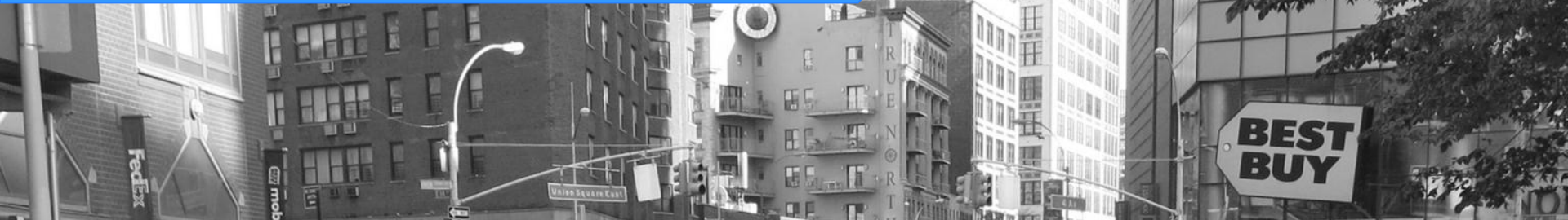
Union Square East Existing Conditions

2

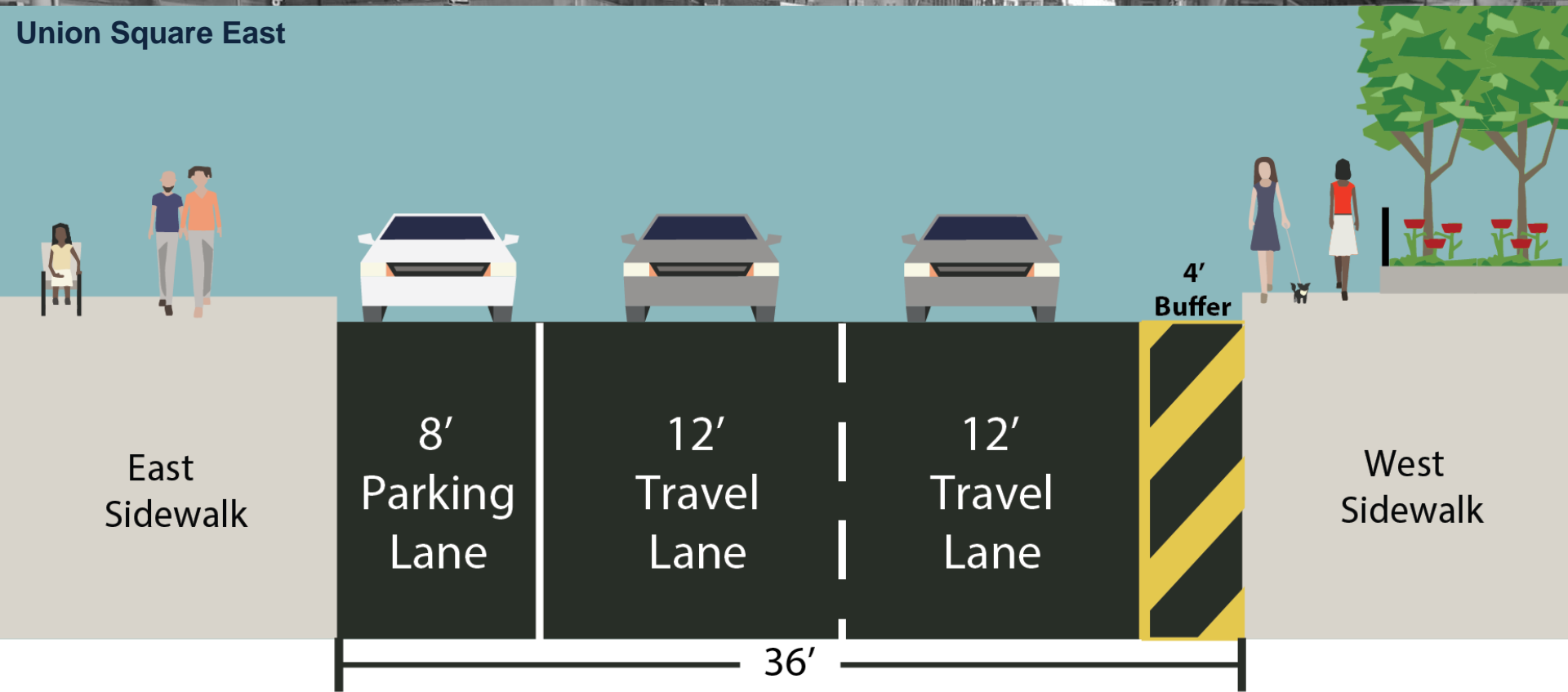


Existing Conditions

2

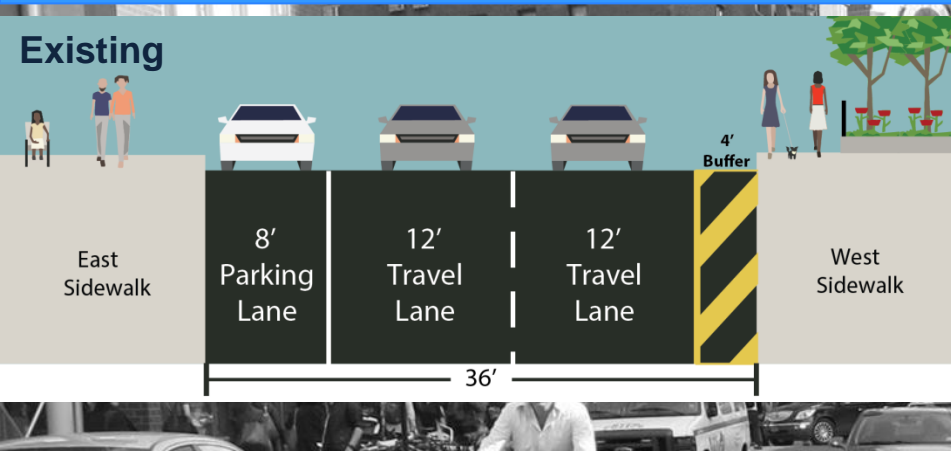


Union Square East

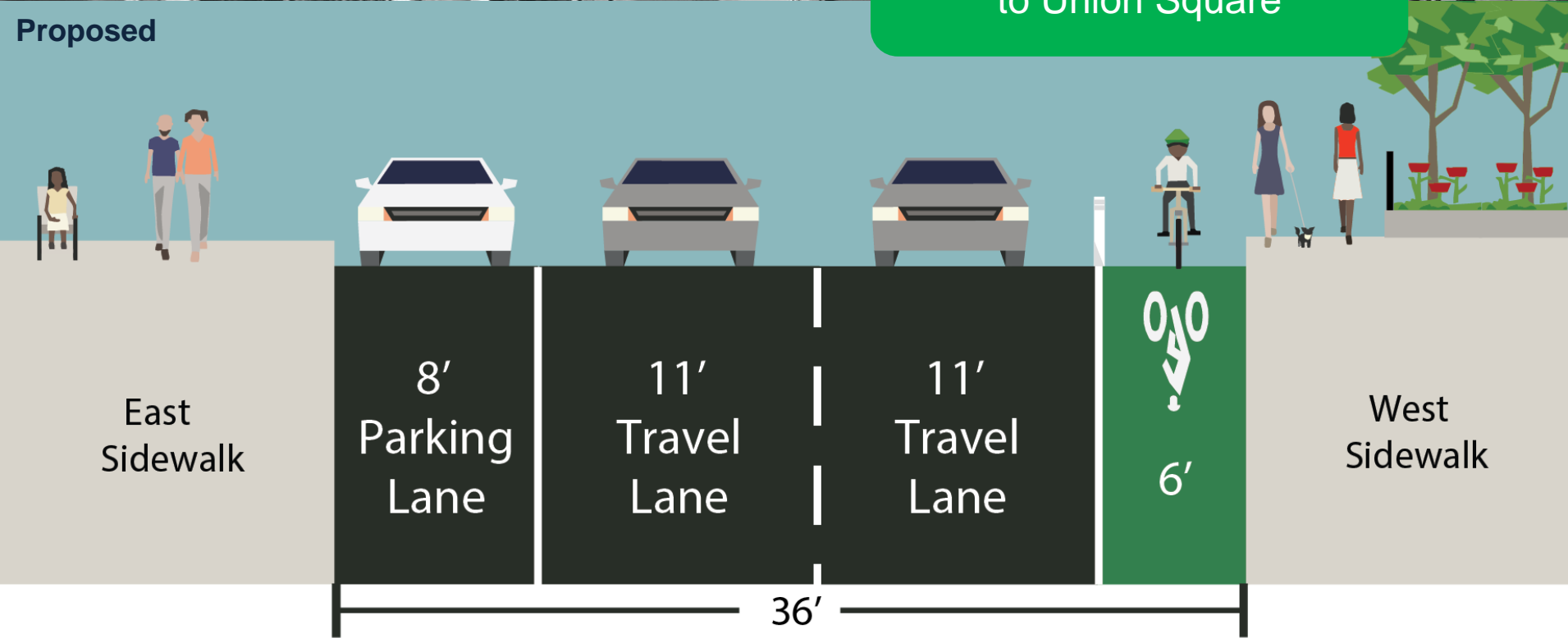


Union Square East Proposed Design

2

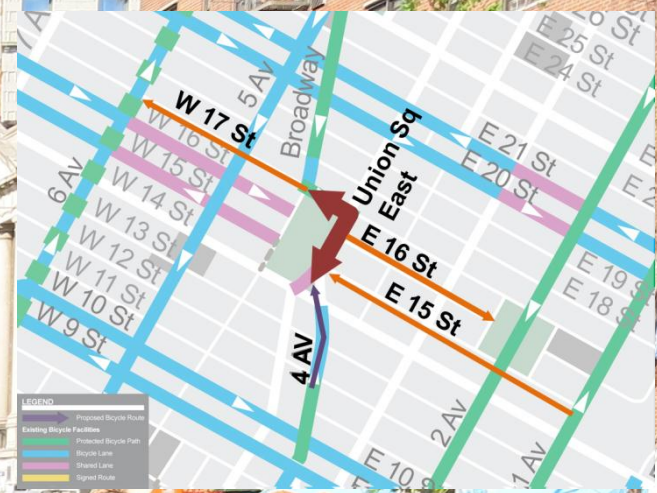


Extend protected bike lane
to Union Square



Union Square East Existing Conditions

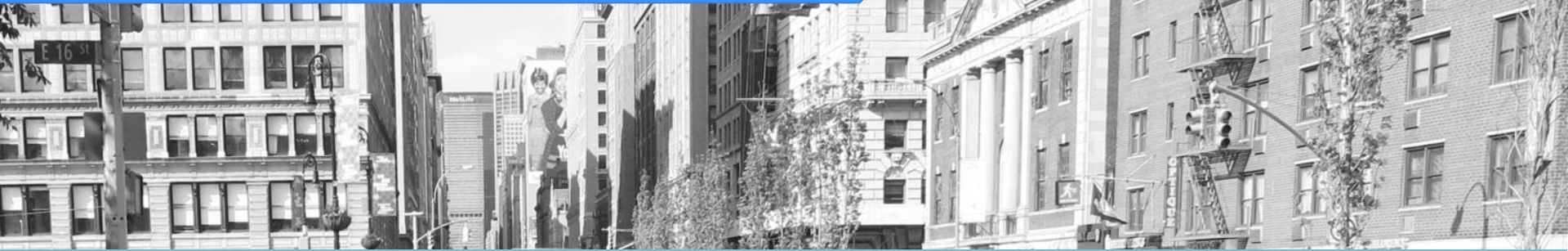
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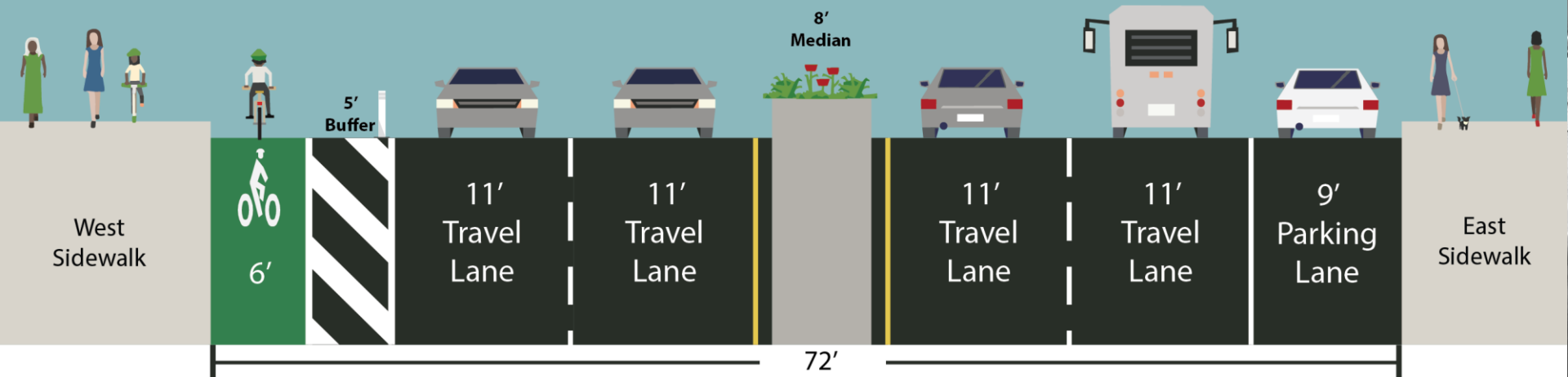
Union Square East

Existing Conditions

2

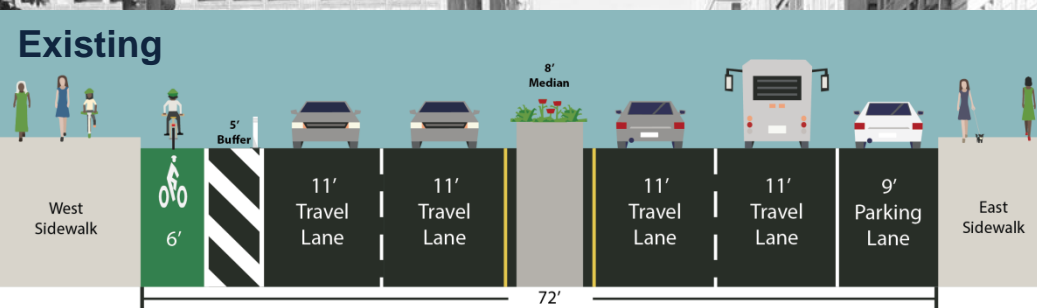


Union Square East



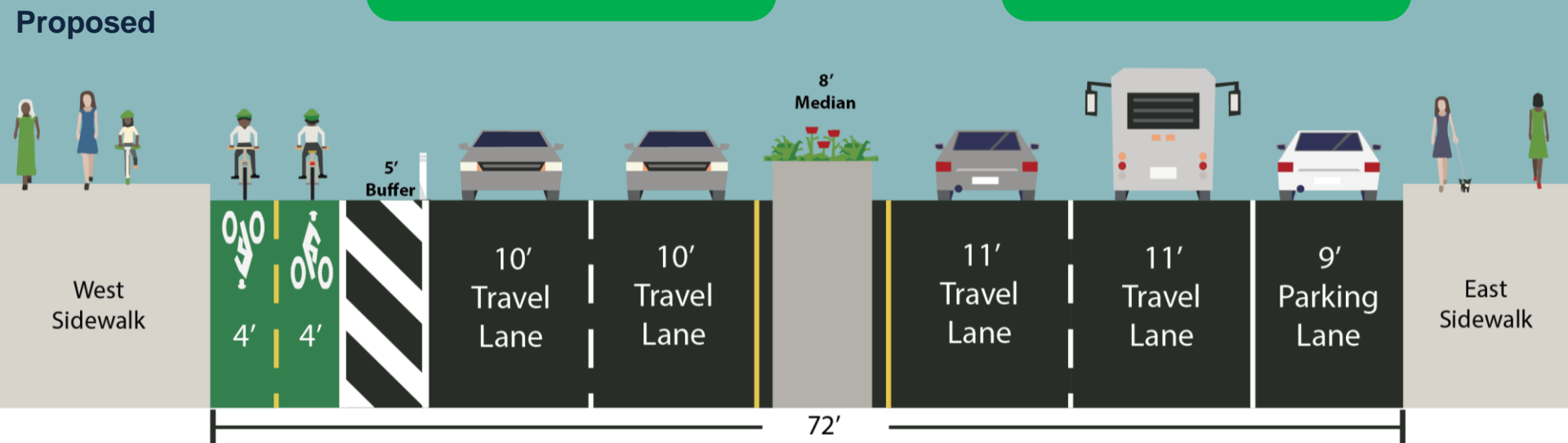
Union Square East Proposed Design

2



Allows two-way
bicycle connections

Provides physical
barrier for cyclists



Union Square East Existing Condition

2

Union Square Existing Conditions
Illustrative Site Plan - 3/24/2016



Union Square

Wide roadway

*Creates long pedestrian crossings
at park entrance*

Unprotected bike path

*Enables vehicles to park in
bike path*

Union Square East

Union Square East

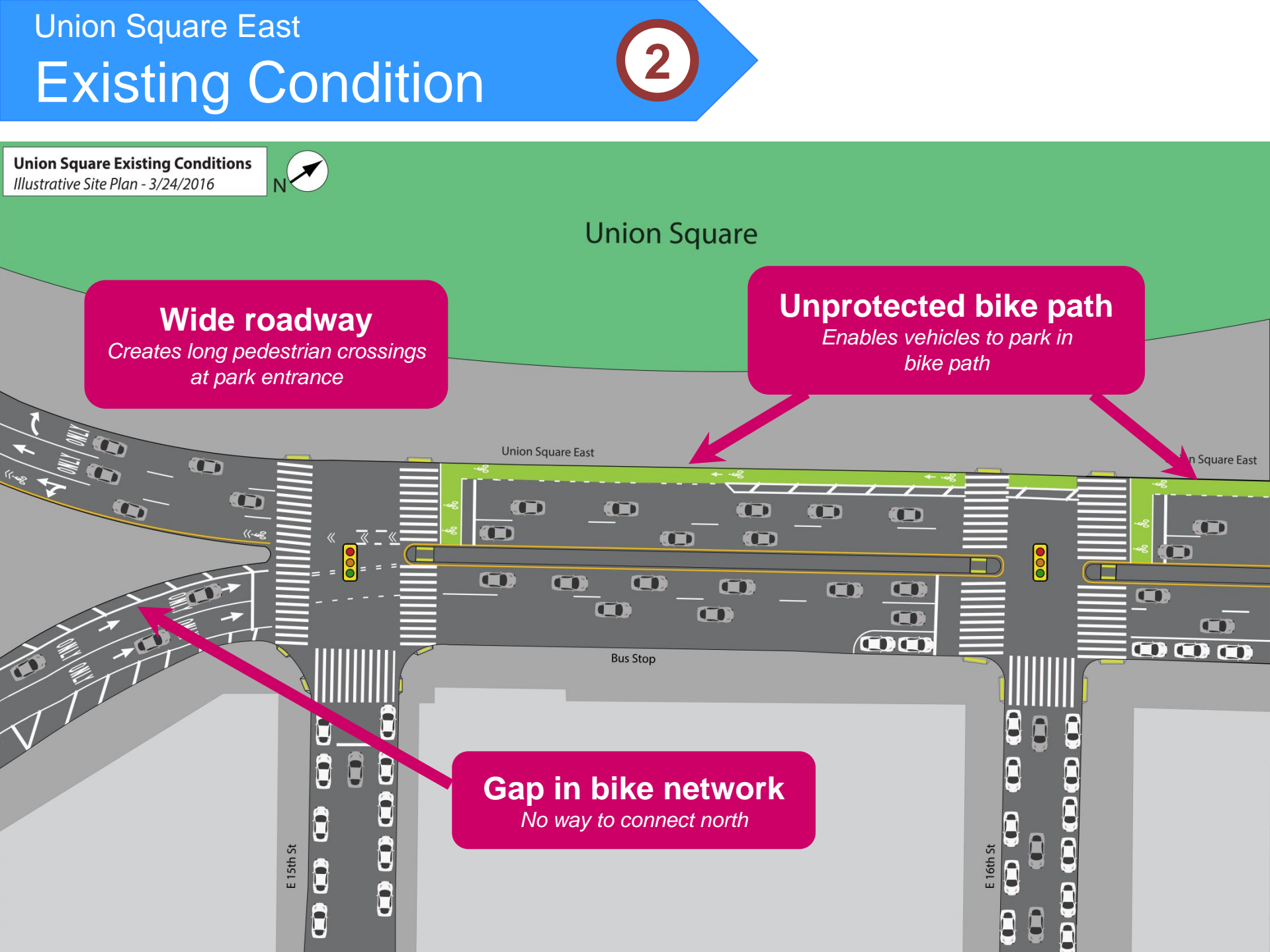
Bus Stop

Gap in bike network

No way to connect north

E 15th St

E 16th St



Union Square East Proposed Design

2

Union Square Proposed Design
Illustrative Site Plan - 3/24/2016



Union Square

Improved pedestrian safety

Increases visibility
Shortens crosswalks

Two- way protected bike path

Prevents parking in bike facility

Union Square East

n Square East

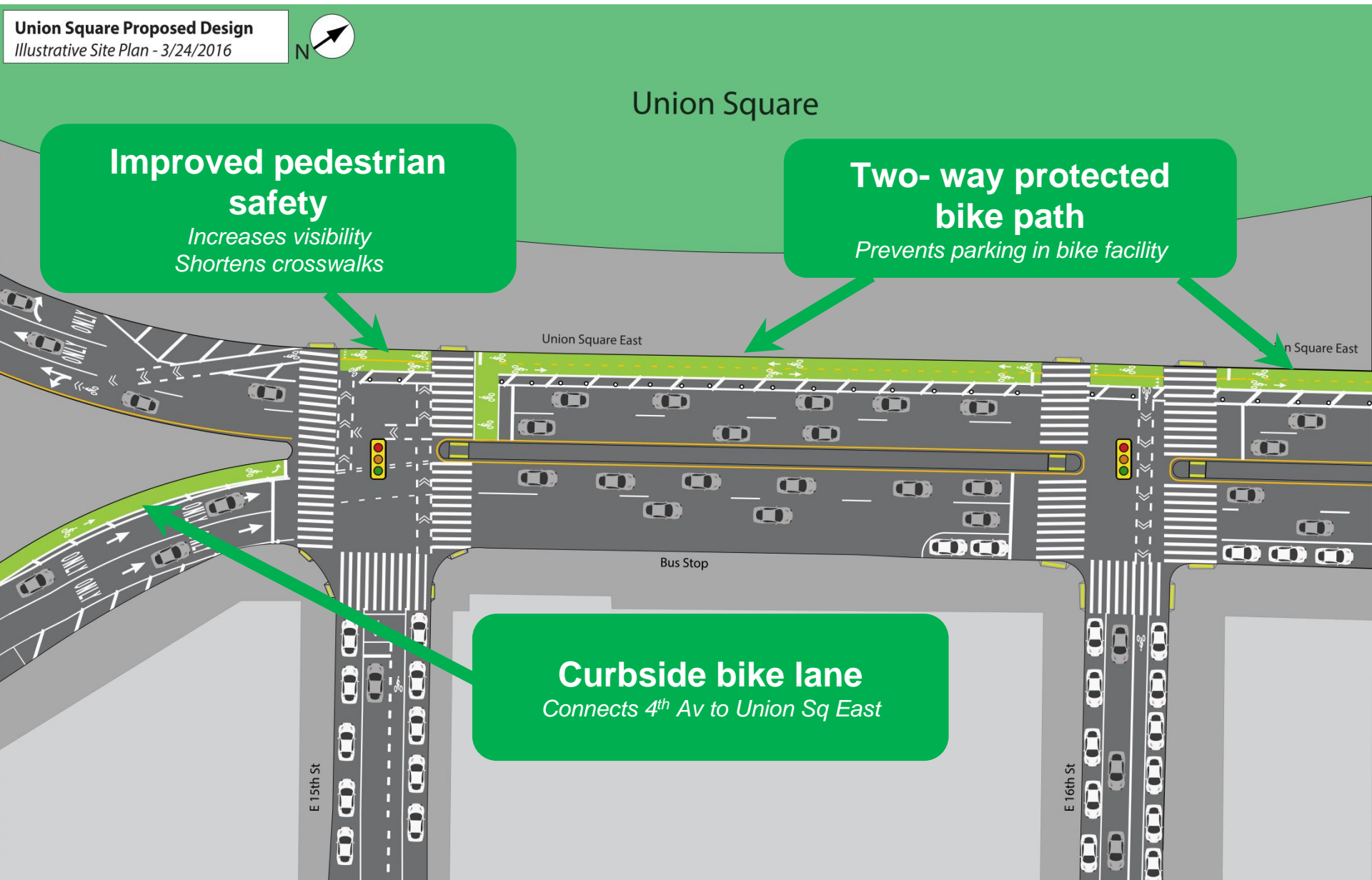
Bus Stop

Curbside bike lane

Connects 4th Av to Union Sq East

E 15th St

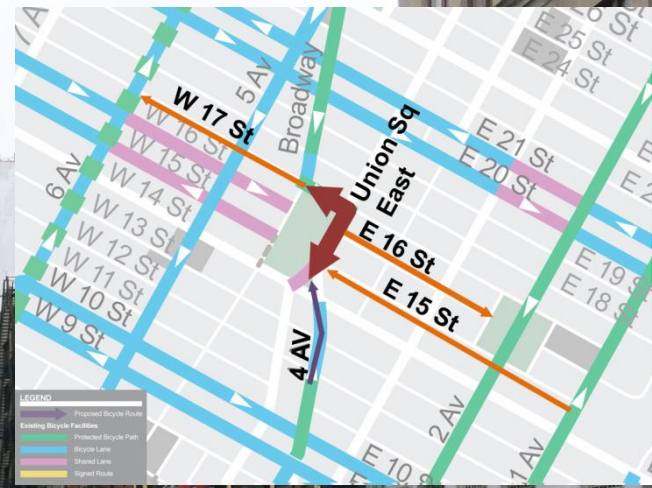
E 16th St



E 17th St

Existing Conditions

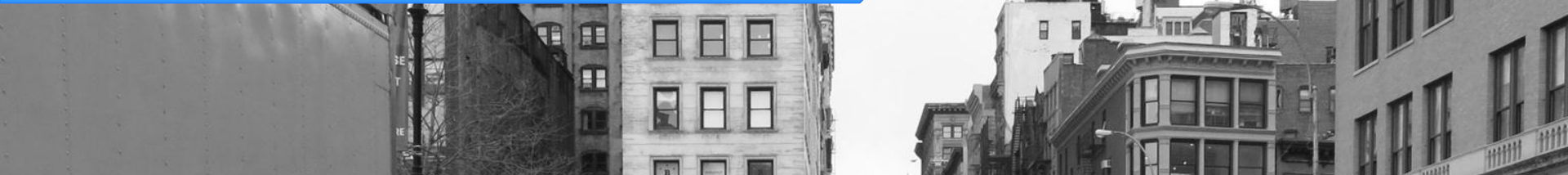
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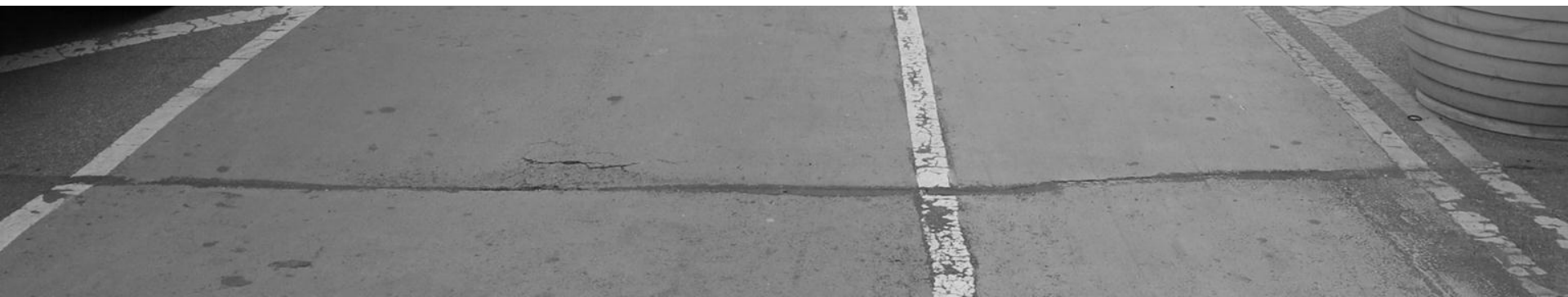
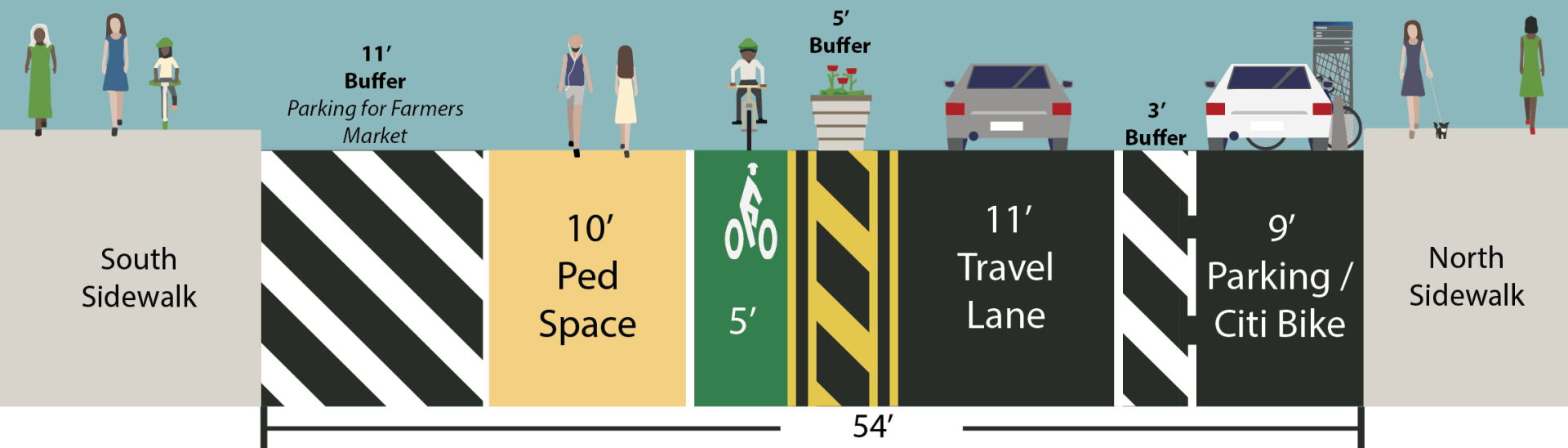
E 17th St

Existing Conditions

2

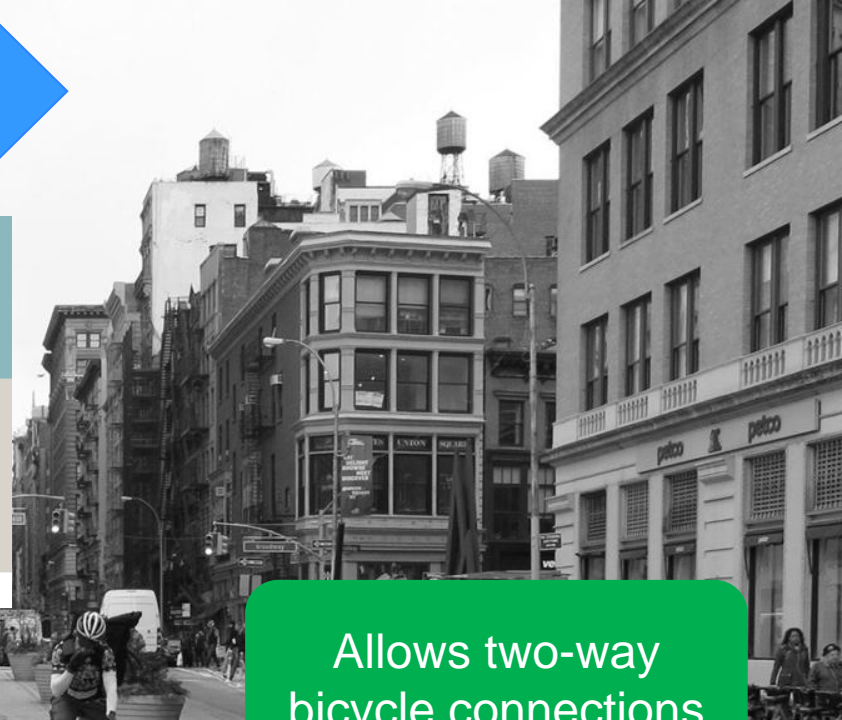


E 17th St



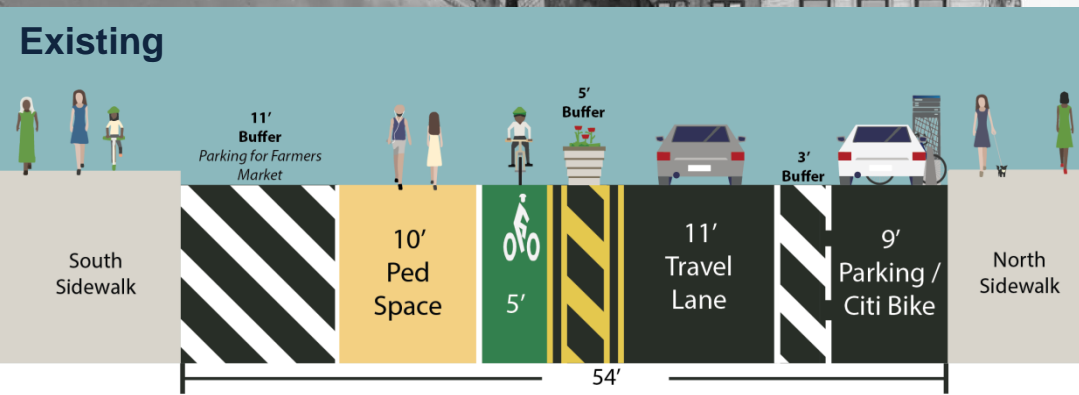
Proposed Design

2

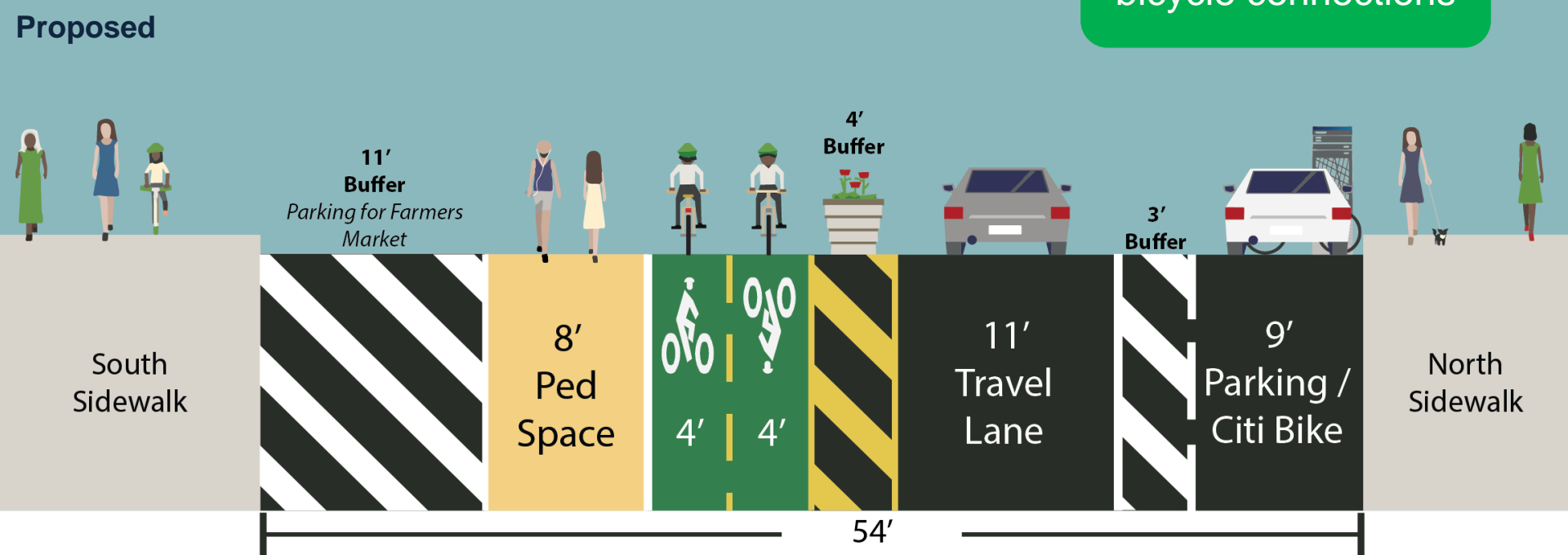


Allows two-way bicycle connections

Existing



Proposed



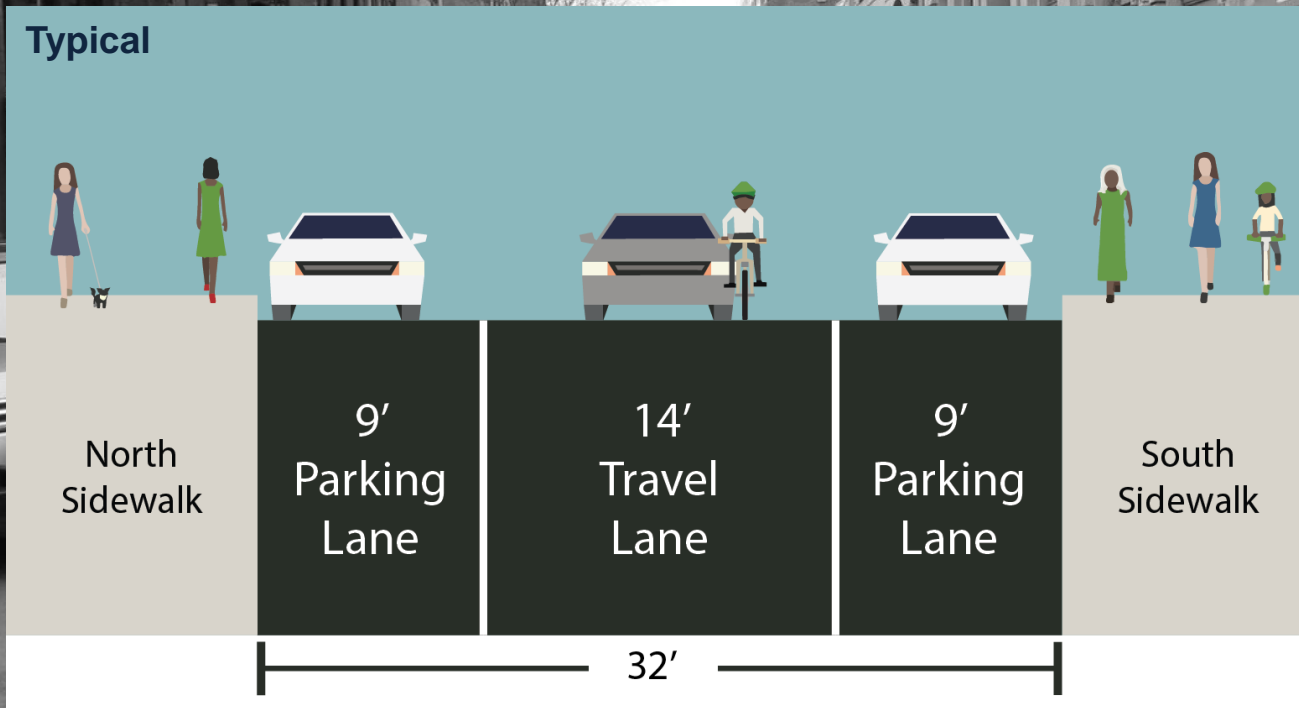
Existing Conditions

3



Existing Conditions (Typical)

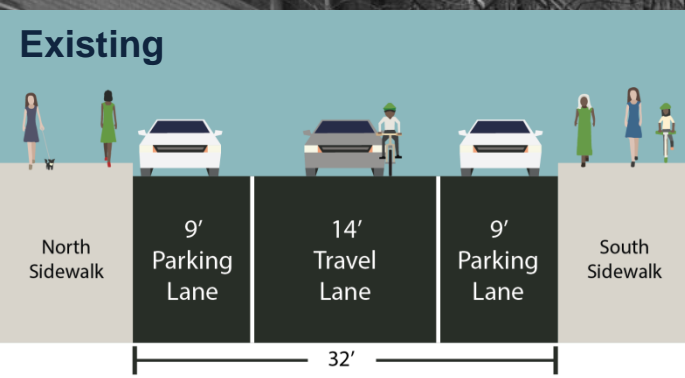
3



Proposed Design (Typical)

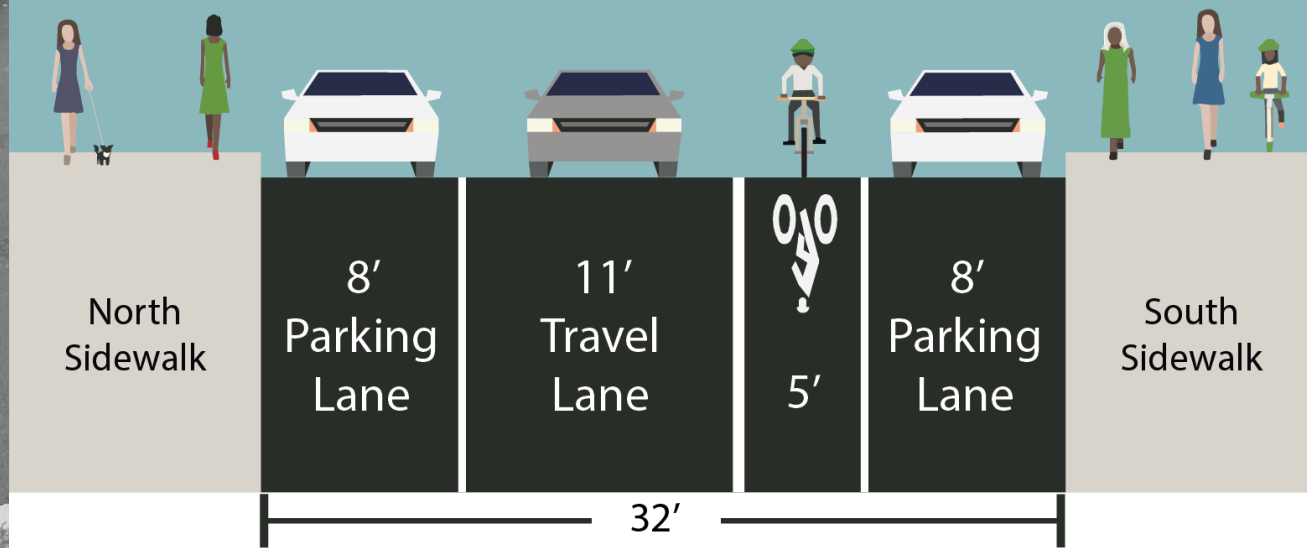
3

Existing



Provides dedicated space for cyclists

Creates standard width travel lane to discourage speeding



Union Square

Summary of Improvements

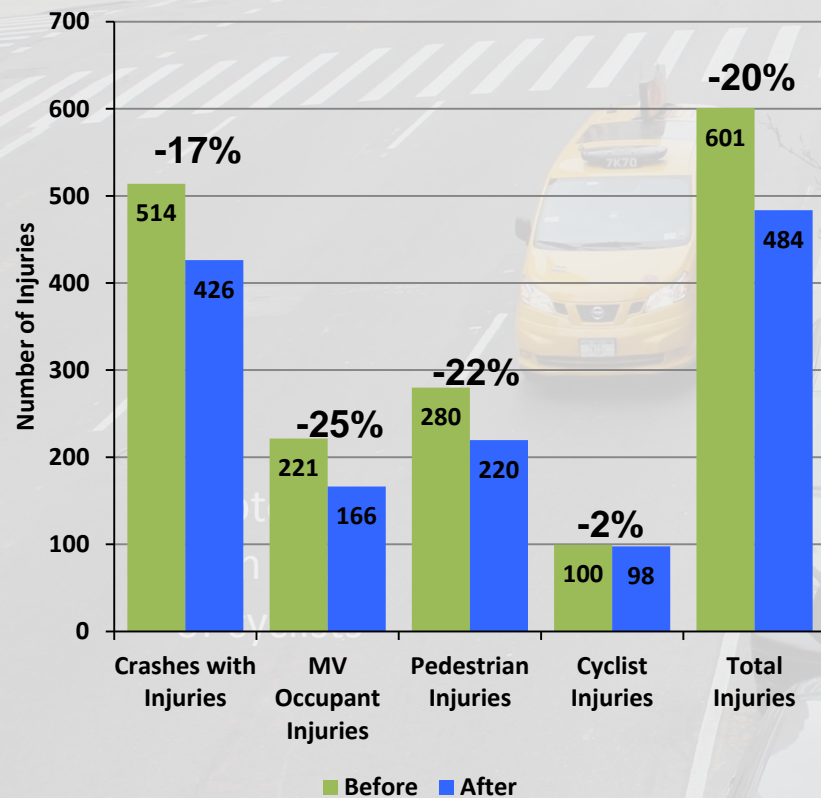
- 1 **Extend 4th Ave Protected Bike Lane**
- 2 **Create two-way protected path on Union Sq E and E 17th St**
Shorten Ped Crossings
- 3 **Install New East-West Bike Lanes on 15th St, 16th St, 17th St**



Union Square

Summary of Bike Safety Benefits

Protected Bicycle Lanes with 3 years of After Data: Before vs After



Protected bicycle lane projects with 3 years of after data include the following: 9th Ave (16th-31st), 8th Ave (Bank-23rd, 23rd-34th), Broadway (59th-47th, 33rd-26th, 23rd-18th), 1st Avenue (Houston to 34th), 2nd Ave (Houston-34th), Columbus Ave (96th-77th) Note: Only sections of projects that included protected bicycle lanes were analyzed

Source: NYPD AIS/TAMS Crash Database





www.nyc.gov/dot

Thank
You