



# Centre & Lafayette St

Protected Bicycle Lanes

September 2021



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# Background

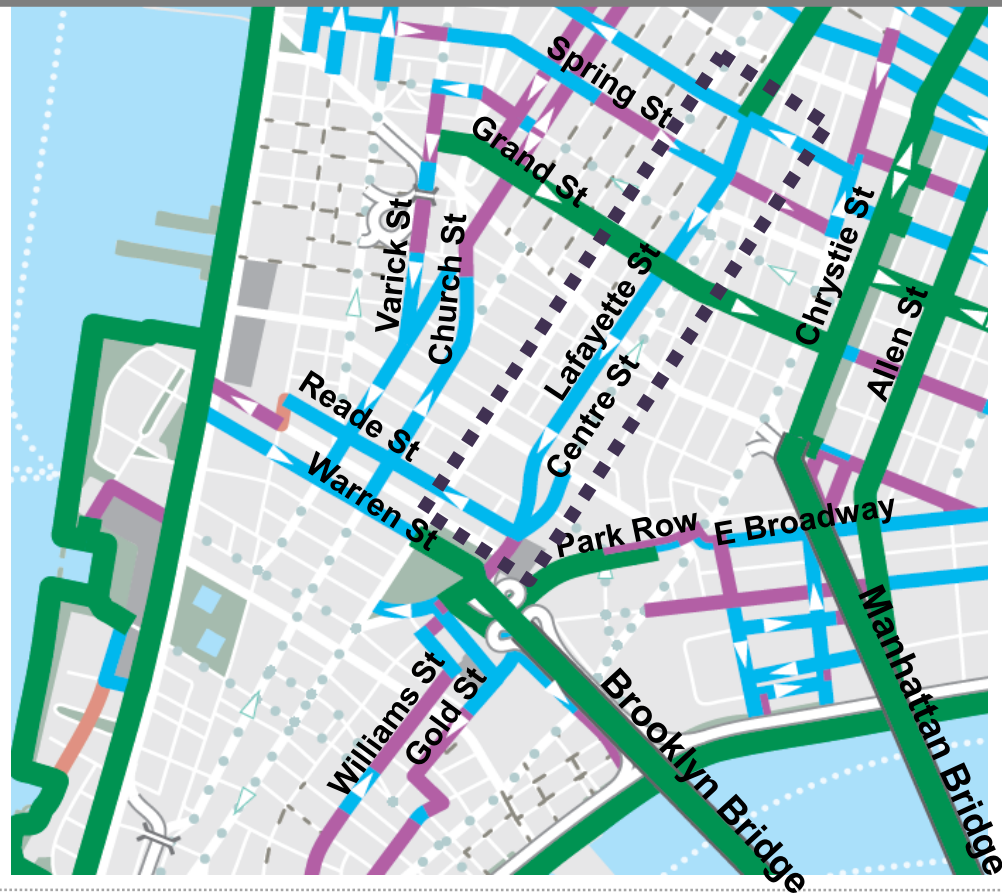
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### Brooklyn Bridge:

- No northbound connection from the Brooklyn Bridge without forcing cyclists to divert multiple blocks either east or west

### Manhattan Bridge:

- Protected bike lane connections installed on Allen St and on Chrystie St, which connect to 1st Ave and 2nd Ave



### Manhattan Access:

- Upgraded Brooklyn Bridge bicycle path will be complete in September 2021
- Cyclists access the two-way bike lane via the middle of the roadway at the intersection of Centre St and Chambers St





# Background

## Connection to the Brooklyn Bridge Dedicated Bike Lane at Chambers Street



Left turning vehicles exiting the bridge are restricted to a dedicated turn phase

Bicycles are protected from left turning vehicles by signal timing

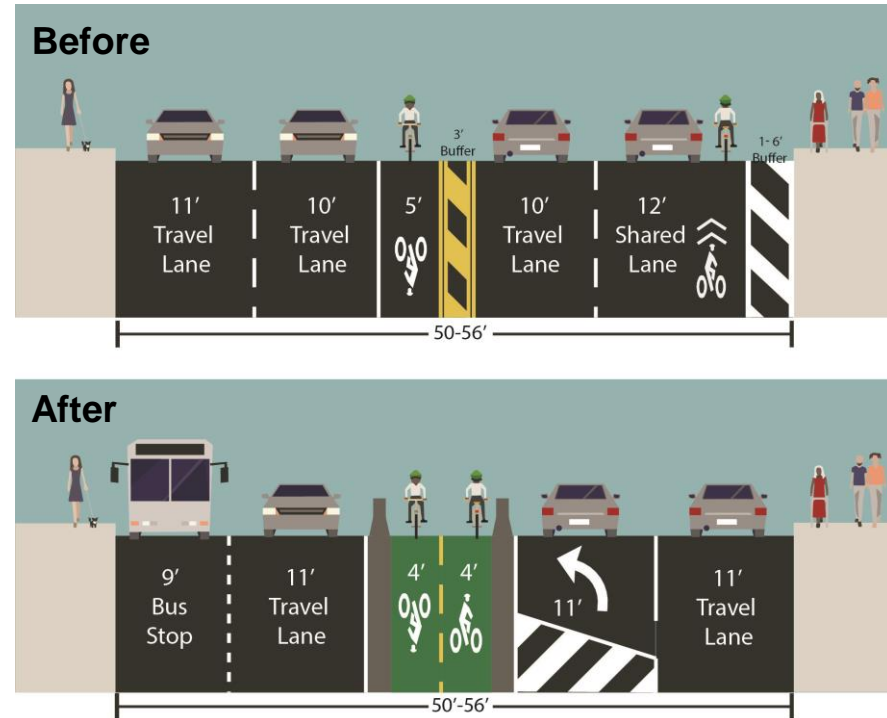
All-pedestrian “Barnes dance” is maintained

### Changes for Motorists:

- Travel lanes reduced from two lanes in each direction to one
- Add a northbound left turn lane at Reade St

### Changes for Cyclists:

- Continue barrier-protected bike lane in the middle of the roadway north from where bridge path ends at Chambers St

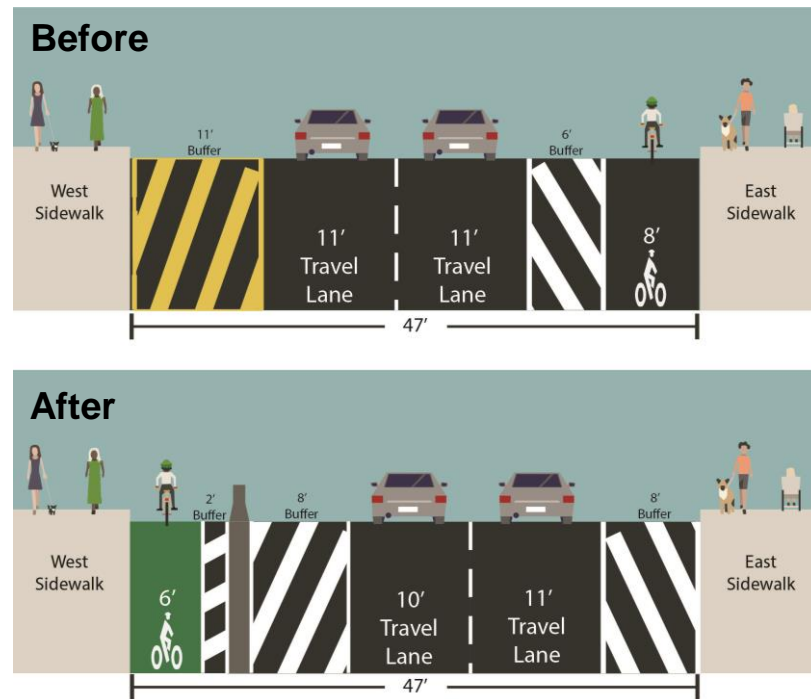


### Changes for Motorists:

- Maintains two travel lanes and buffered space on both sides

### Changes for Cyclists & Pedestrians:

- Continues the barrier-protected bike lane north to the concrete median at Duane St
- Adds additional pedestrian space at the southern end of Foley Square at Duane St

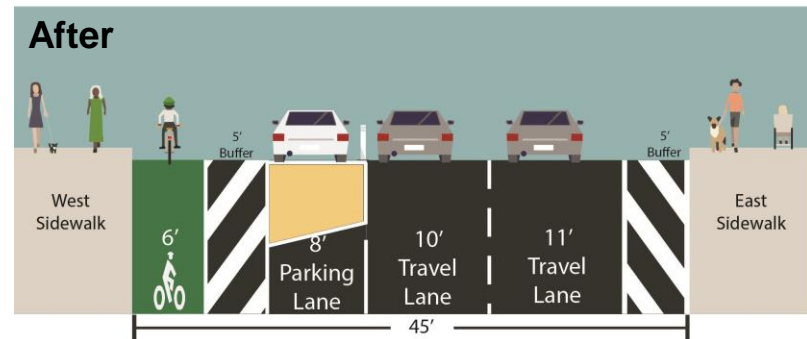
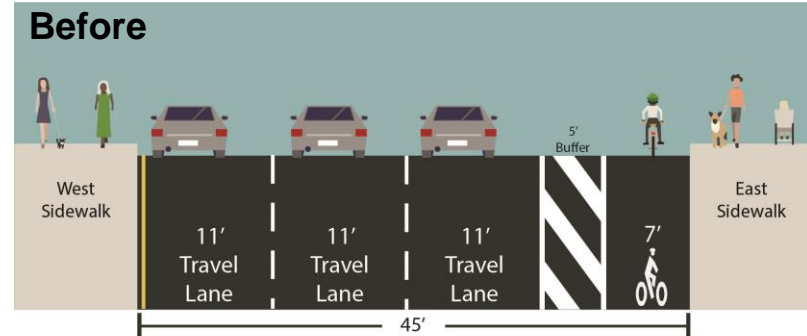


### Changes for Motorists:

- Travel lanes reduced from three lanes to two
- Add approximately seventeen parking spaces on the west side of the street

### Changes for Cyclists & Pedestrians:

- Remove existing unprotected bike lane on east side, replace with a parking protected bike lane on the west side
- Reduce crossing distances and add pedestrian islands at Pearl St and Worth St





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## Existing Conditions & Proposal

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### Centre St:

- Install a protected bicycle lane on Centre St from end the Brooklyn Bridge connection at Worth St to Canal St
- Add pedestrian refuge islands at intersections to reduce pedestrian crossing distances
- Reduce Centre St to one travel lane between Canal St and Worth St

### Lafayette St:

- Install a protected bicycle lane on Lafayette St from Kenmare St to Brooklyn Bridge connection at Worth St
- Add pedestrian refuge islands at intersections to reduce pedestrian crossing times



# Existing Conditions

## Centre St



**Long crossing distances**

**No northbound bicycle facility past Worth St**

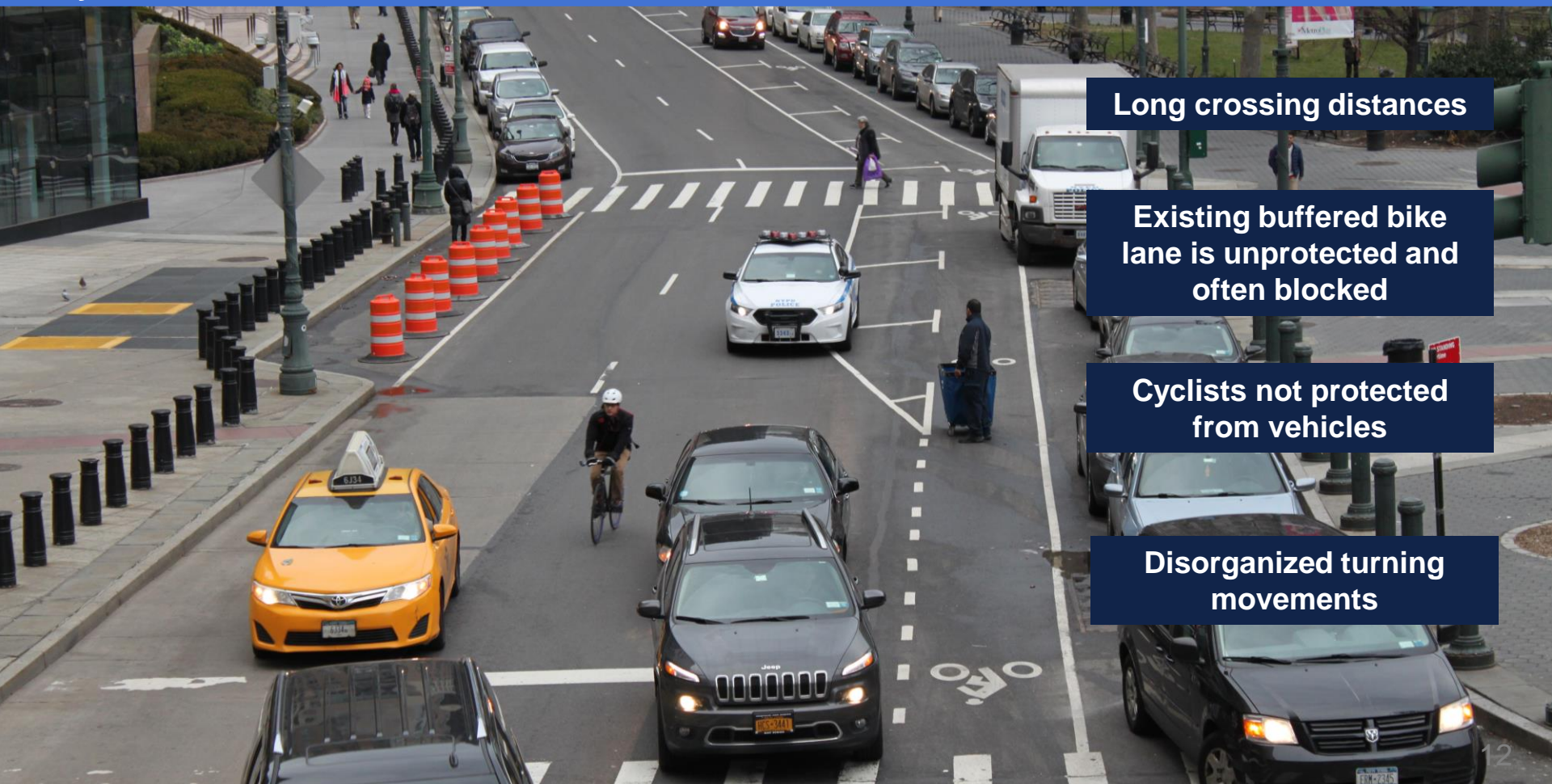
**Cyclists mix with vehicles**

**Heavy curb access results in motorists frequently double-parking**



# Existing Conditions

## Lafayette St



**Long crossing distances**

**Existing buffered bike lane is unprotected and often blocked**

**Cyclists not protected from vehicles**

**Disorganized turning movements**



### Changes for Motorists:

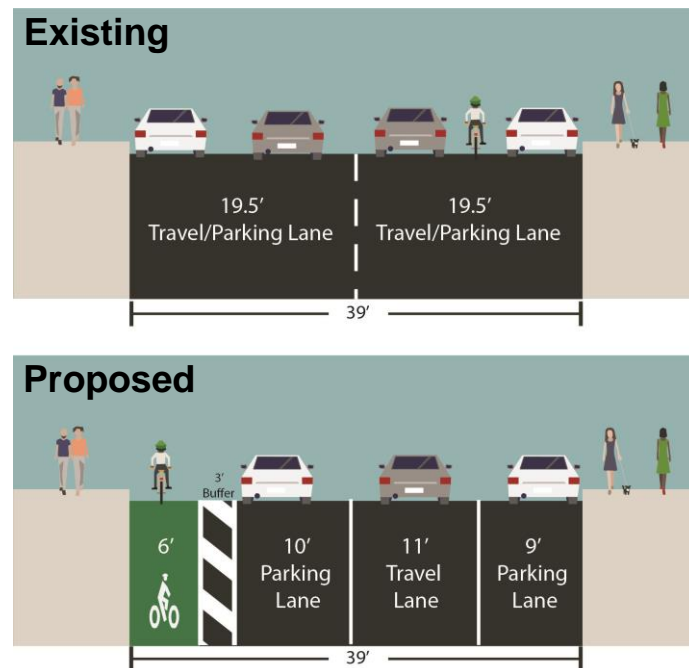
- Travel lanes reduced from two lanes to one
- Approximate reduction of three parking spaces per block
- Work with affected agencies in locations with curbside authorized parking

### Changes for Cyclists & Pedestrians:

- Continue the parking protected bike lane along the west curb
- Install pedestrian refuge islands to reduce crossing distances for pedestrians

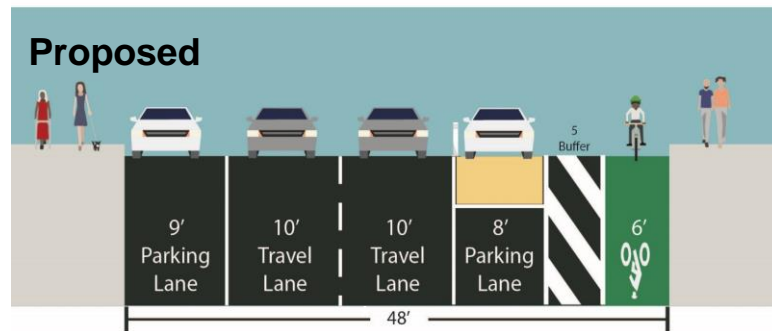
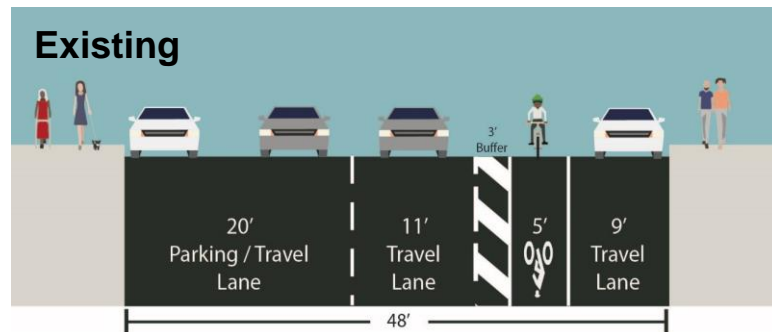
### Canal St to Spring St:

- Perform supplemental traffic analysis in Winter 2022, return to Community Board with a proposal for remainder of Centre St in Spring 2022



### Upgrade the existing buffered bike lane to a protected lane:

- Protected lane for cyclists along the east curb connects Spring St and Grand St bike lanes to the Brooklyn Bridge
- Installs pedestrian refuge islands and reduces crossing distances for pedestrians
- Maintains two travel lanes for vehicles
- Removes approximately three parking spaces per block for left turn treatments and pedestrian islands
- Work with affected agencies in locations with curbside authorized parking



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# Summary

## Project Summary:

- Create a protected northbound bicycle connection from the Brooklyn Bridge north to Canal St
- Upgrade Lafayette St to a protected lane to connect to the Brooklyn Bridge
- Shorten crossing distances for pedestrians and install pedestrian islands
- Expand pedestrian space in Foley Square adjacent to subway access
- Maintain capacity for motorists while expanding the protected bicycle lane network to the East River Bridges





# Thank You!

## Questions?



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