West Broadway & Church Street
Bicycle Facilities

Commissioner Janette Sadik-Khan, New York City Department of Transportation
Background

• Lack of inland bicycle routes between Greenwich Village and lower Manhattan
• Lack of continuous north/south bicycle routes to Union Square
• W. Broadway, Church St and Varick St are already used by cyclists even without a bicycle facility
Project Map
Existing: Church St at Duane St

Weekday Peak Period Bike Volumes

- 8:00AM to 10:00AM: 137 bicyclists
- 12:00PM to 2:00PM: 206 bicyclists
- 5:00PM to 7:00PM: 201 bicyclists

Counts conducted Tuesday 7/16/2013, between Leonard St and Worth St

Bike Share Statistics

- 1,087 weekly bike share trips

Total number of trips beginning or ending at Church St/Leonard St Citibike station, 8/25/2013 to 8/31/2013
Proposed: Church St, Warren St to Franklin St
Example of Buffered Bike Lane

Warren St, Manhattan
Existing: Church St at 6th Ave

Island sidewalk ends midblock
Existing: Church St at 6th Ave
Proposed: Church St at 6th Ave

- Improves pedestrian safety and circulation
- Shortens crossing distances
- Improves vehicular lane alignment
- Simplifies NYPD Holland Tunnel operation
Example of Painted Curb Extension

Broadway at Amsterdam Avenue, Manhattan
Existing: 6th Ave at White St
Proposed: 6th Ave, Franklin St to Walker St
Existing: 6th Ave at W. Broadway
Proposed: 6th Ave, Walker St to W. Broadway

**EXISTING**
- East Sidewalk: 12’ Parking Lane, 12’ Moving Lane, 12’ Moving Lane, 12’ Moving Lane/Part Time Bus Lane
- West Sidewalk

**PROPOSED**
- East Sidewalk: 7’ Parking Lane, 10’ Enhanced Shared Lane, 10’ Moving Lane, 11’ Moving Lane, 10’ Moving Lane/Part Time Bus Lane
- West Sidewalk
Example of Enhanced Shared Lane
Existing: W. Broadway at Broome St
Proposed: W. Broadway and LaGuardia Pl

**Existing**

- Combined Moving/Parking Lanes: 19’

**Proposed**

- Parking Lane: 8’
- Shared Lane: 11’
- Shared Lane: 11’
- Parking Lane: 8’

**Total Width:** 38’
Existing: Washington Square South
Proposed: Washington Square South

**EXISTING**

- South Sidewalk
- Combined Moving/Parking Lane (32')
- North Sidewalk

**PROPOSED**

- South Sidewalk
- 11' Parking Lane
- 12' Moving Lane
- 3'
- 6' Parking Space
- North Sidewalk
Example of Curbside Buffered Bicycle Lane

Washington Sq N
Existing: Washington Square East
Proposed: Washington Square East

**EXISTING**

- Combined Loading/Moving Lane
- 25'

**PROPOSED**

- Combined Loading/Moving Lane
- 19'
- 6'
Example of Curbside Bicycle Lane

Washington Square West, Manhattan
Existing: Washington Square North
Proposed: Washington Square North

**EXISTING**

30'

- North Sidewalk
- 19' Combined Parking/Moving Lane
- 11' Moving Lane

**PROPOSED**

8'

- North Sidewalk
- 11' Shared Lane
- 11' Parking Lane
- 11' Moving Lane

South Sidewalk
Existing: Broome St, W. Broadway to Thompson St
Proposed: Broome St, W. Broadway to Thompson St

**EXISTING**

- North Sidewalk
- Parking/Moving Lane
- Moving Lane
- South Sidewalk

**PROPOSED**

- North Sidewalk
  - 10' Parking/Moving Lane
- 11' Moving Lane
- South Sidewalk
  - 6'
Existing: Broome St, Thompson St to 6th Ave
Proposed: Broome St, Thompson St to 6th Ave
Existing: Broome St, 6th Ave to Varick St
Proposed: Broome St, 6th Ave to Varick St

**EXISTING**

31’
Moving/
Parking Lanes

**PROPOSED**

18’
Combined Moving/
Parking Lane

5’

8’
Parking Lane
Example of Bicycle Lane

Reade St, Manhattan
Existing: Varick St, Broome St to Watts St

Existing Conditions

- East side parking regulations:
  - Muni-meter parking
  - Rush hour travel lane
Example of Signed Route
Existing: Varick St, Watts St to Canal St
Proposed: Varick St, Watts St to Canal St
Existing: Varick St at Canal St

Existing Conditions
- Cobblestone roadway

Weekday Peak Period Bike Volumes
- 8:00AM to 10:00AM: 49 bicyclists
- 12:00PM to 2:00PM: 114 bicyclists
- 5:00PM to 7:00PM: 66 bicyclists
- 45% of bicyclists were observed using the sidewalk

Counts conducted Tuesday day 9/3/2013, between Canal St and Laight St

Bike Share Statistics
- 1,207 weekly bike share trips

Total number of trips beginning or ending at 6th Ave/Canal St Citibike station, 8/25/2013 to 8/31/2013
Proposed Granite Bikeway

- 30” wide granite pavers
- Preserves historic character
Existing Conditions

- 39’ wide street
- Three travel lanes
- One loading lane
- East side parking regulations:
  - No parking anytime
  - No standing
Proposed: Varick St, Laight St to Beach St

EXISTING

39’
Moving/Parking Lanes

PROPOSED

West Sidewalk
11’ Moving Lane

10’ Moving Lane
10’ Enhanced Shared Lane

8’ Parking Lane

East Sidewalk
Existing Conditions (varies)

- 60' wide street
- Three travel lanes
- Two loading lanes
- Periodic turn lanes and bus stops
- Parking regulations:
  - No parking 8am-6pm
Proposed: Varick St, Beach St to W. Broadway

Configuration varies slightly as a result of turn lanes, bus stops and Finn Square.
Signal Improvements: Varick St and W. Broadway

- Varick St and W. Broadway have been recently modified to operate under separate phases at the approach to Leonard St.
- Increases safety.
- Eliminates merging through intersection.
- Facilitates right turn from W. Broadway onto Leonard St.
Existing: W. Broadway at Duane St

Weekday Peak Period Bike Volumes

- 8:00AM to 10:00AM: 77 bicyclists
- 12:00PM to 2:00PM: 134 bicyclists
- 5:00PM to 7:00PM: 115 bicyclists

Counts conducted Tuesday 7/16/2013, between Leonard St and Worth St

Bike Share Statistics

- 1,074 weekly bike share trips

Total number of trips beginning or ending at Franklin St/W. Broadway Citibike station, 8/25/2013 to 8/31/2013
Proposed: W. Broadway, Beach St to Warren St

EXISTING

West Sidewalk
13’ Parking Lane
12’ Moving Lane
12’ Moving Lane
13’ Parking Lane
East Sidewalk

PROPOSED

West Sidewalk
10’ Parking Lane
11’ Moving Lane
11’ Moving Lane
3’ 5’
10’ Parking Lane
East Sidewalk
Proposed Bicycle Facilities

- Church St from Warren St to Franklin St: buffered bicycle lane
- 6th Ave from Franklin St to Walker St: bicycle lane
- 6th Ave from Walker St to W. Broadway: enhanced shared lane
- Varick St from Canal St to Laight St: granite bikeway
- Varick St from Laight St to Beach St: enhanced shared lane
- Varick St from Beach St to W. Broadway: bicycle lane
- W. Broadway from Beach St to Warren St: buffered bicycle lane
Summary of Benefits

• Organizes traffic

• Provides a bicycle route between Greenwich Village and lower Manhattan

• Supports short local trips by bike

• Improves pedestrian circulation and safety at Church St/6th Ave/Franklin St

• No planned parking removal

• Planned implementation in October 2013
  • Granite bikeway Spring 2014
Questions?

Thank You