Broadway: Union Square

Summer 2010

Commissioner Janette Sadik-Khan  New York City Department of Transportation
April 26, 2010
Focus Areas

1. Improve safety at E. 17th & Broadway, Union Sq. W. & 14th
2. Create new plaza space
3. Upgrade safety on Broadway, 23rd to 18th Streets
4. Rationalize traffic network
E. 17th Street + Broadway

- Long skewed crosswalks
- Unwelcoming gateway
- Confusing traffic-pedestrian patterns
E. 17th Street + Broadway

- Multi-leg confusing traffic-patterns
- Greenmarket blocks south sidewalk of E. 17th Street
- Skewed pedestrian walkway
- Trees narrow pedestrian desire lines

Tree Zone
Union Square Plan

- Simplifies intersection, improves safety
- Bway-17th – From 3 to 2 Phase Signal
- Shortens crosswalks
- Adds bicycle connection to 14th St.

2-way to 1-way westbound

Direct Pedestrian Walkway
Improved Safety

Right-turn only removes head-on

Fewer vehicle lanes reduces confusion

Total Injuries 2004-2008

<table>
<thead>
<tr>
<th></th>
<th>B’way &amp; 17th</th>
<th>USW &amp; 14th</th>
<th>Park &amp; 17th</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pedestrian</td>
<td>9</td>
<td>8</td>
<td>13</td>
</tr>
<tr>
<td>Bicyclist</td>
<td>1</td>
<td>7</td>
<td>6</td>
</tr>
<tr>
<td>Motor Vehicle Occupant</td>
<td>6</td>
<td>14</td>
<td>35</td>
</tr>
<tr>
<td>Total Injuries</td>
<td>16</td>
<td>29</td>
<td>54</td>
</tr>
</tbody>
</table>
Ribbon Plazas

Temporary Plaza Furniture Examples

Flex Space

Plaza Plans
23rd to 18th St. Improvements

Example: Broadway & W. 29th St.

- Pedestrian refuge islands added
- Vehicle lanes reduced to meet demand
- Class I protected bicycle lane installed
- MTA express buses diverted off Broadway

Existing

Proposed
23rd to 18th St. Improvements

Existing

- West Sidewalk
- 19' Combined Parking/Moving Lane
- 11' Moving Lane
- 5' Floating Parking Lane
- 9' Parking Lane
- 44' Total

Proposed

- West Sidewalk
- 23' Combined Parking/Moving Lane
- 10' Floating Parking Lane
- 5' Buffer
- 6' Total

Existing

- 19' Combined Parking/Moving Lane
- 11' Moving Lane
- 5' Floating Parking Lane
- 9' Parking Lane
- 44' Total

Proposed

- 23' Combined Parking/Moving Lane
- 10' Floating Parking Lane
- 5' Buffer
- 6' Total

Existing

- 19' Combined Parking/Moving Lane
- 11' Moving Lane
- 5' Floating Parking Lane
- 9' Parking Lane
- 44' Total

Proposed

- 23' Combined Parking/Moving Lane
- 10' Floating Parking Lane
- 5' Buffer
- 6' Total

Existing

- 19' Combined Parking/Moving Lane
- 11' Moving Lane
- 5' Floating Parking Lane
- 9' Parking Lane
- 44' Total

Proposed

- 23' Combined Parking/Moving Lane
- 10' Floating Parking Lane
- 5' Buffer
- 6' Total

Existing

- 19' Combined Parking/Moving Lane
- 11' Moving Lane
- 5' Floating Parking Lane
- 9' Parking Lane
- 44' Total

Proposed

- 23' Combined Parking/Moving Lane
- 10' Floating Parking Lane
- 5' Buffer
- 6' Total
Projected Traffic Diversions

- Turn lanes added on 18th and 20th to improve mobility
- Signal timing changed
- Signage added to divert motorists
- No left turn from S/B Park Avenue to 18th Street
Circulation

Union Sq. West
Partners