First Avenue/Second Avenue SBS

Agenda

Introductions
Project Schedule
Station Locations Update
Design Goals
Design Update
Next steps
# 2009 Schedule

## Outreach

<table>
<thead>
<tr>
<th>Event</th>
<th>Month</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAC meeting #1</td>
<td>Jan</td>
</tr>
<tr>
<td>Fordham Rd SBS CAC tour</td>
<td>Jun</td>
</tr>
<tr>
<td>CAC meeting #2: Station locations</td>
<td>Oct</td>
</tr>
</tbody>
</table>

## Project Milestones

- CAC meeting #1
- Fordham Rd SBS CAC tour
- CAC meeting #2: Station locations
2010 Schedule

**Outreach**
- CAC meeting #3: bike facility design
- CB meetings, First open house
- CAC meeting #4: curb regulations
- CAC meeting #5
- Second open house

**Project Milestones**
- Finalize station locations
- Finalize Phase 1 design
- CEQR/SEQR Approval
- Complete installation of physical elements
- Phase 1 SBS Implementation
Station Locations Update
Grand Street/Allen Street

Northbound
SBS north of local between Grand and Broome Streets

Southbound
SBS between and Hester and Grand Streets
Local between Grand and Broome Streets
First Avenue/Second Avenue SBS

57th Street/First Avenue (Northbound)

SBS north of local between 56th and 57th Streets

M57 stops on the far side of 57th Street

Issues:

- street trees
- bike racks
First Avenue/Second Avenue SBS

67th Street/First Avenue (Northbound)

SBS between 67th and 68th Streets
Local between 66th and 67th Streets
First Avenue/Second Avenue SBS

79th Street/First Avenue (Northbound)

SBS south of local between 79th and 80th Streets

Issues:

street trees

phone booth
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86th Street/First Avenue (Northbound)

SBS north of local between 86th and 87th Streets

Issues:

street trees

phone booth
106th Street/First Avenue (Northbound)

SBS north of local between 106th and 107th Streets
SBS north of local between 78th and 79th Streets
Design Goals
First Avenue/Second Avenue SBS

Design Goals

Improve bus service

Sources of delay on M15 Limited

- Stopped at Bus Stops: 22%
- Stopped During Red Lights: 21%
- Bus in Motion: 54%
- Other Delays: 4%
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34th Street Enhanced Bus Priority

Features:
- Curbside bus lane
- Real-time arrival information
- Left-turn signal priority
- Taxi video enforcement

Results:
- 17% improvement in travel time
- 29% less time stopped at red lights
Fordham Road Select Bus Service

Features:
- Curbside Bus Lane
- Off-Board Fare Collection
- Transit Signal Priority

Results:
- Travel Time: 20% reduction in running time
- Ridership: 10% increase from October 2007 to October 2008
- Customer Satisfaction: 98% satisfied or very satisfied
First Avenue/Second Avenue SBS

Design Goals

Improve bus service

Improve pedestrian safety

Pedestrian safety data, 2006-2008

<table>
<thead>
<tr>
<th>Avenue</th>
<th>Pedestrian fatalities</th>
<th>Pedestrian crashes</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Avenue</td>
<td>7</td>
<td>538</td>
</tr>
<tr>
<td>Second Avenue</td>
<td>4</td>
<td>597</td>
</tr>
</tbody>
</table>
Protected Bicycle Paths and Pedestrian Improvements

Features:
- Physically separated right-of-way
- Pedestrian refuge islands
- Floating Parking
- Trees and plantings

Results:
- Pedestrian injuries on Broadway: ↓ 40%
- Ninth Avenue: ↓ 29%
- Grand Street: ↓ 28%
Design Goals

Improve bus service

Improve pedestrian safety

Improve bicycle access on the East Side
Protected Bicycle Paths and Pedestrian Improvements

Results:

Bike volumes on
Broadway ↑ 58%
Ninth Avenue ↑ 37%
Grand Street ↑ 24%
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**Design Goals**

- Improve bus service
- Improve pedestrian safety
- Improve bicycle access on the East Side
- Maintain traffic flow
- Allow curb access for deliveries, dropoffs
- Provide metered parking
Design Update
Street Design

Range of treatments throughout the corridor due to:

Traffic levels
Changes in street width
Curbside access needs
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Design A
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Design A
Design A with bus bulb
Design A with bus bulb
First Avenue/Second Avenue SBS

Typical Bus Bulb
First Avenue/Second Avenue SBS

Design B
First Avenue/Second Avenue SBS

Design C
Design C
Corridor Map

- SBS Station
- **A**: Offset Bus Lane, Protected Bike Path
- **B**: Curb Bus Lane, Protected Bike Path
- **C**: Curb Bus Lane, Shared Bike Lane
- A or B, subject to further analysis
- No change to street design
- Construction Zone
Questions and Comments?
Next Steps

Input on curb use

Next meetings
  Public Open House/Workshops – February 2010
  Fourth CAC meeting – March 2010