34th Street SBS
Community Advisory Committee
Meeting #5

September 27, 2011
Agenda

I. Project Schedule Update
II. Design Update
III. Traffic Analysis Results
IV. Traffic Analysis Breakout Groups
V. Fare Pre-Payment Update
VI. Next steps
Project Schedule Update

**Spring 2011**
- CAC #4

**Summer 2011**
- Project Update: Design revisions
- CAC #5

**Fall 2011**
- Public Meetings (2)
- Fare Pre-Payment Begins

**Winter 2011/12**
- EA Release
- EA Determ.

- Design revision based on public input
- Traffic Analysis
- Environmental Review
- EA Public Review

New York City Transit
34th St SBS Design Update
34th Street SBS design

• 2011 planned improvements
  – Off-board fare collection
  – Bus lane camera enforcement

• 2012 proposed design
  – Offset bus lanes
  – Bus bulbs and sidewalk extensions
  – Expanded loading zones
2012 Proposed Plan: Overview

- 60 ft Roadway
- 52 ft Roadway
- 60 ft Roadway

Map showing the proposed plan with roadways of different widths.
2012 Proposed Plan: Overview

60 ft wide section: East of Third Ave
West of Ninth Ave
2012 Proposed Plan: Overview

52 ft wide section:
Third Ave to Ninth Ave
Project Benefits

- **Bus Service**: improves bus reliability and increase bus speeds for over 33,000 daily riders

- **Pedestrians**: adds 18,000 sq. ft. of new pedestrian space, reducing crowding and improving safety

- **Loading**: increases daytime loading from 32 to 258 spaces with a loading zone on every block

- **Design**: uses standard bus and pedestrian design elements; emergency vehicles could use the improved bus lanes

- **Traffic**: maintains 2-way traffic from river to river
**Design Changes**

- **Twelfth Avenue**: Relocated eastbound stop to Eleventh Avenue providing better connection to the Jacobs Javits Convention Center
- **Eleventh Avenue**: Relocated westbound stop located at Tenth Avenue to Dyer Avenue better serving this dense residential block
- **Ninth Avenue**: Banned westbound left turn to reduce vehicle delays on 34th Street
- **Eighth Avenue**: Banned westbound right turn to improve pedestrian safety across Eight Avenue and reduce vehicle delays on 34th Street
- **Seventh Avenue/Penn Station**: Under evaluation: Reopening 33rd Street at Broadway/Sixth Avenue to through traffic
- **Sixth Avenue/Broadway/Herald Square**: Right-turn bay reduced to expand length of loading zone serving 7 Park Avenue
- **Park Avenue**: Express bus stop combined with westbound Third Avenue SBS bus stop to provide improved curb access and reduce total length of bus stop in front of 155 E. 34th Street
- **Third Avenue**: Created commercial loading zone on Second Avenue to better improve access to 300 E. 34th Street
- **Second Avenue**: Created ambulette parking zone for Medical Arts Center
- **First Avenue**: Restored the eastbound left turn at First Avenue
Traffic Analysis
Traffic Analysis Process

• Analyzed project effects on the regional transportation network:
  – Modeled Midtown from 23rd Street to 60th Street with DOT’s Manhattan Traffic Model (MTM)

• Identified potential traffic effects of 34th St SBS on:
  – 34th Street
  – Parallel streets
  – North-south Avenues

• Conducted corridor analysis following guidelines of the City Environmental Quality Review (CEQR) handbook:
  – Intersection based approach
  – Analyzed all intersections which may be affected by diversions
  – Determined impact of the project on vehicle delay
The Broader Context: The Manhattan Traffic Model
Key Location of Congestion: Intersections

- Intersections determine the traffic capacity of the street
- Intersection Analysis – what goes in:
  - Traffic Volumes
  - Signal timing and progression
  - Number of lanes
  - Curb activity
- Intersection Analysis – what comes out:
  - Delay per vehicle
  - Level of Service (LOS): A to F
Key Measure of Congestion: Vehicle Delay

- Shorter delay: short queues, cars can clear intersection quickly (LOS A or B)
- Longer delay: long queues, cars may wait more than one green light to clear (LOS E or F)
Traffic Analysis Area

34th St SBS: Study Area

- Created Synchro traffic model
- Intersections connected into a network

Three scenarios:
- Existing Conditions
- 2012 without the project: “No Build”
- 2012 with the project: “Build”
Findings: AM Peak Hour without the Project (2012)

34th St SBS: AM No-Build Traffic Analysis

34th St SBS Level of Service
- A-B 20 seconds of delay
- C-D 20-45 seconds of delay
- D-E 46-80 seconds of delay
- F 80+ seconds of delay
- Improvement: delay reduced
- Decline: delay increased
Findings: PM Peak Hour without the Project (2012)

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34th St SBS Traffic Changes

- **Capacity reductions**
  - West bound: 2 general traffic lanes to 1 from Madison Ave to Ninth Ave
  - Both directions: 2 general traffic lanes to 1 from Eleventh Ave to Ninth Ave and from Third Ave to First Ave

- **Capacity improvements**
  - Right-turn bays: reduces blockages at busy intersections
  - Signal timing improvements: more green time for 34th Street
  - Offset bus lanes: blocked less often than curbside bus lanes, can carry more buses
Right Turn Bays
Findings: AM Peak Hour with the Project (2012)

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Design Changes in response to Traffic Analysis

- 34th St East Bound at Second Ave: added additional traffic lane at intersection
- 34th St East Bound at Madison Ave: added bus only left turn lane and pedestrian island
- Corridor wide: added green time to east-west traffic on 34th Street
- Expanded crosswalk widths
Conclusions

• Overall, traffic delays will remain roughly the same
• Some intersections will operate slightly better and a few slightly worse
• Some traffic diverted to 35\textsuperscript{th} Street, number of vehicles is small
• MTM shows no effect on traffic beyond the project area
Breakout Groups: Block-by-Block Designs

- Group 1 - Will
- Group 2 - Eric
- Group 3 - Steve
- Group 4 - Patrick
- Group 5 - Arnie
- Group 6 - Oliver
- Group 7 - Chris
Fare Pre-Payment Update
Fare Pre-Payment Overview

- Start date: Sunday November 13, 2011
- M34 to be renamed M34 SBS
- M16 to be renamed the M34A SBS for clearer passenger communication
- Pre-payment will be introduced at all M34 and M34A stops
- Service levels and route will remain the same on both M34 SBS and M34A SBS
Station Locations

[Map showing station locations along the M34 route]
How Pre-Payment Works: Overview

1. Pay before you board by dipping MetroCard at sidewalk MetroCard machine or inserting coins at sidewalk coin machine
2. Take your proof of payment receipt
3. Enter through front or rear door of bus – no need to show receipt to the driver
How Pre-Payment Works: MetroCard Machine

1. Push the Start button
2. Insert your Metrocard
3. Take your receipt
4. Hold onto receipt for inspection

- All MetroCards accepted
- Transfers accepted - *same transfer policies apply*
How Pre-Payment Works: Coin Machine

1. Press black button to start
2. Insert coins
3. Take your receipt
4. Hold onto receipt for inspection

• For reduced fare: press yellow button before inserting coins
How Pre-Payment Works: Enforcement

• Inspector teams conduct random checks of buses
• $100 fine for passengers with out a receipt
• Fare evasion on Bx12 SBS and M15 SBS declined after pre-payment introduced
How Pre-Payment Works: Passenger Communication

During Start-Up Period

• Customer Ambassadors at all stops to explain system and help riders
• All stops will be staffed by Customer Ambassadors
• NYCT will distribute pre-payment guides to all passengers
What are the Benefits of Fare Pre-Payment?

- **Faster Boarding**
  - 36% less time spent at stops (M15 SBS)

- **Fare Evasion Reduced**
  - 37% less fare evasion (M15 SBS)
Schedule for Implementation

• Machine installation: begins October 4
• Start of pre-payment: Sunday, November 13, 2011
• Passenger Ambassador teams in place during start-up period
Fare Pre-Payment Q&A
Next Steps

• Open houses – October 6 & 11
  – Traffic Analysis Results

• Launch of Pre-Payment: November 13

• Environmental Assessment (EA)
  – Published in early 2012

• Next project update
  – Spring 2012
Upcoming Open Houses

Please Spread The Word:

• Open House East
  – **Date:** Thursday, October 6
  – **Time:** 6:00 - 8:00 PM
  – **Location:** Norman Thomas HS, 6th floor Cafeteria
    111 East 33rd Street
    (at Park Avenue)

• Open House West
  – **Date:** Tuesday, October 11
  – **Time:** 6:00 - 8:00 PM
  – **Location:** New Yorker Hotel, Gramercy Suite, 3rd floor