Study Goals

- Improve travel conditions and enhance the quality of life of the people who live, work and shop in the study area.

- Facilitate public and community participation in the planning process.

- Bring stakeholders together and build consensus on problem definition and potential remedies.
Study Objectives

- Identify the travel and traffic characteristics, assess the existing and future transportation demand and needs of the study area.
- Reduce vehicular congestion and improve safety for all users (vehicle, pedestrian and bicycle).
- Effective management of curb usage for parking and loading/unloading.
- Identify problems and make recommendations.
- Develop improvement measures to address existing and future needs.
Study Process

1. Project Scope/Initiation
2. Data Collection and Analysis
3. Community Input via Meetings and Charrette
4. Issues Identification and Problem Definition
5. Development of Alternatives
6. Evaluate Improvement Options
7. Recommendations
8. Final Report
9. Implementation

Existing Conditions Analysis
Existing Conditions Report
Future Conditions Analysis
Technical Memorandum 1 (Existing Conditions) – Completed 2010

Draft Final Report (Future Conditions & Recommendations) Completed – September 2011

TAC Meeting – January 2012

Project Development – 90% completed

Public Meeting – April 25, 2012

Final Report

Project Implementation (subject to CB review/approval)
Community Participation

**Formats:**
- Two public meetings
- Two Technical Advisory Committee meetings
- One business survey
- Letters/Emails

**Community Issues:**
- Pedestrian Safety
- Double Parking
- Congestion
- Enforcement
- Truck Traffic
Traffic Data Collection

- Pedestrian Counts (26 locations)
- Manual Turning Movement Counts (42 locations)
- ATRs (18 locations)
- Travel Speeds (12 corridors)
- Accidents Data (2006-2010)
- Parking Survey
Traffic Analysis Results (PM) - LOS

Intersection LOS

- A (0 location)
- B (9 locations)
- C (16 locations)
- D (10 locations)
- E (4 locations)
- F (3 locations)
Accident Analysis - (2006-2010)
Issues

Legend
- Double parking
- Traffic congestion
- Pedestrians safety issues
- Heavy truck vol.
- High pedestrian vol./subway stations
- High accidents locations
- Low travel speed (range between 3 and 15 mph)
Implemented Improvements

- Redesign Broadway/ West 71st St/Amsterdam Ave intersection
- Pedestrian refuge - West 66 St/West End Ave and West 61st St/West End Ave
- Neckdowns – West 75 St/West End Ave, West 66 St/Amsterdam Ave,
- Leading Pedestrian Interval
- Increase Pedestrian Crossing Time (3.5 ft/sec)
- Columbus Avenue bike lane
- Countdown signals on Broadway & Route 9A
- Riverside Blvd/Riverside Drive Connection Opened
- Muni-meter along Columbus and Amsterdam Aves
Major Improvements

Traffic Operation
Traffic calming
Post Sign: “Lincoln Tunnel-bound Trucks Use 11th Avenue”
West 58 Street & West End Avenue - Existing

Location 2

Issue:
- Pedestrian safety
West 58 Street & West End Avenue - Proposed

Location 2

Pedestrian refuge and planted median
West 59 Street & West End Avenue - Existing

Location 3

Issue:
- Pedestrian safety
West 59 Street & West End Avenue - Proposed

Location 3

Pedestrian refuge and planted median
West 66 Street - West End Ave to Amsterdam Ave

Existing

Location 4

Issues:
- Observed speeding
- Heavy westbound left turns
West 66 Street - West End Ave to Amsterdam Ave
Proposed (Cross-section)

Midblock - West of Amsterdam Avenue (Cross-section C-C)

Approaching West End Avenue (Cross-section B-B)
West 70 Street - West End Ave to Amsterdam Ave

Existing

Location 5

Issues:
- Observed speeding
- Pedestrian safety

Legend:
- Existing pavement markings
- Man hole cover
- Lamp post/utility pole
- Catch Basin
- Fire Hydrant
- Pedestrian ramp w/ ADA texture
- Traffic direction

Scale: Not to scale

City of New York
Department of Transportation
Bureau of Traffic Operations
55 Water Street
NY, NY 10041

W 70th Street between West End Avenue and Amsterdam Avenue

PS 199

Existing speed bump
Location 5

- Curb extension
- Existing speed bump
- 8.5' wide buffer between travel lane and parking lane

Legend:
- Existing pavement markings
- Man hole cover
- Lamp post/utility pole
- Catch Basin
- Fire Hydrant
- Pedestrian ramp w/ ADA texture
- Traffic direction
- Proposed pavement markings

Scale: Not to scale

Location:
- PS 199

Proposed

West 70 Street - West End Ave to Amsterdam Ave
Location 6

Issues:

- Heavy delays on the southbound approach during PM peak hour
- Pedestrian safety
West 70 Street & West End Avenue - Proposed

Location 6

Remove 4 parking spaces (80 ft) during PM peak and post "No Standing 4PM - 7PM"

Remove 3 parking spaces (60 ft) during PM peak and post "No Standing 4PM - 7PM"
West 72 Street & Riverside Drive - Existing

Location 7

**Issues:**
- Long crosswalks
West 72 St & Riverside Drive - Proposed

Location 7

Curb extension

Relocate existing stop bar 7' to the west

Crosswalk alignment
West 79 Street & Broadway - Existing

**Issues:**
- Heavy westbound right turn volumes
- Pedestrian safety
West 79 Street & Broadway - Proposed

- Restripe to provide a right turn pocket lane
- Relocate bus layover area 50’ to the east
- Remove two (2) parking spaces - 50’
West 79 Street & Riverside Drive - Existing

Location 9

Issues:
- Merging conflicts on the eastbound approach
- Limited sight distance due to bus layover
- Long crosswalk
West 79 St & Riverside Drive - Proposed

Location 9

Install crosswalk

Curb extension
West 81 Street & Central Park West - Existing

Issues:
- Heavy delay on southbound and eastbound/westbound approaches
West 81 Street & Central Park West - Proposed

- Restripe the southbound approach to provide one left turn bay, two thru lanes, and one right turn lane.
- Remove five (5) parking spaces – 100’; regulate with "No Standing Anytime".
- Restripe the eastbound approach to provide one left turn bay, one thru lane, and one shared thru-right lane.
- Designate the right lane as right turn only.
- Restripe NB approach to provide left turn only lane for 100’.
- Remove five (5) parking spaces – 100’; regulate with "No Standing Anytime".
- Change bike lane on approach to a shared travel lane.

Location 10

Existing bus stop

LEGEND
- Existing pavement markings
- Man hole cover
- Lamp post/ utility pole
- Catch Basin
- Fire Hydrant
- Pedestrian ramp w/ ADA texture
- Traffic direction
- Proposed pavement markings

Scale: Not to scale
Issues:
- Heavy southbound left turns and northbound volumes create delays
- Heavy eastbound thru/right volumes
West 86 Street & Central Park West - Proposed

**EB Approach**
- Restripe eastbound approach to provide one left turn bay, one thru lane and one shared thru-right lane

**NB Approach**
- Restripe NB approach to provide left turn only lane for 100' away from the stop bar
- Remove five (5) parking spaces - 100'; regulate with “No Standing Anytime”
- Change bike lane to a shared travel lane

Restripe SB approach to provide left turn bay for 60’ away from the stop bar
Issues:
- Insufficient bus stop storage for westbound buses
- Heavy delay in the westbound approach
West 86 Street & Columbus Avenue - Proposed

Remove two (2) parking spaces to extend the existing bus stop 40’ to the west.

Remove one (1) parking space to daylight the westbound approach.
Widen selected mall pedestrian openings (22) from 5’ to 9’
Broadway Mall Tips - Proposed

Widen pedestrian opening by 2’

Widen pedestrian opening by 4’ (2’ on each side)

Widen pedestrian opening by 2’

Widen pedestrian opening by 4’ (2’ on each side)
Parking

Truck Loading/Unloading

Amsterdam & Columbus Aves
Truck Loading/ Unloading Zones

- Columbus & Amsterdam Avenues between West 55th and West 86th Streets (Subject to community board approval)
Next Steps

- Incorporate comments into Final Report
- Detail Implementation Plan
- Refer plans for implementation to CB Transportation Committee for concurrence
- Schedule Implementation
- Monitor operation
Thank you!