Pedestrian Safety and Congestion Improvement to Downtown Brooklyn Gateway

Adams Street and Tillary Street

Prepared by: NYC DOT – Traffic Planning May 25, 2008



Issues

Long Wait Times for Pedestrians, Cyclists, and Motorists

Vehicle and Pedestrian Conflicts

Congestion

Noise and Air Quality

Illegal Southbound Left Turns from the Center Lane



Goals

Improve Safety of Pedestrians, Cyclists, and Motorists

Reduce Air Pollution, Noise and Congestion

Improve Quality of Life for Surrounding Community



Objectives

Improve Pedestrian and Bicycle access to Brooklyn Bridge Promenade

Accommodate Southbound Left Turn Demand

Reduce Vehicle and Pedestrian Conflicts

Provide Single Phase Pedestrian Crossing on All Approaches

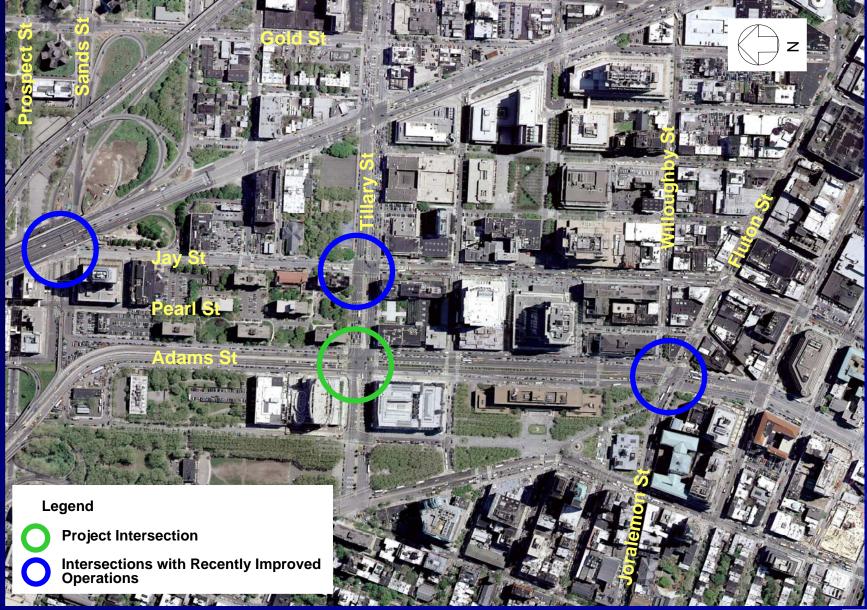
Provide Additional Walk Time and Simplify Intersection Operations



Existing Conditions

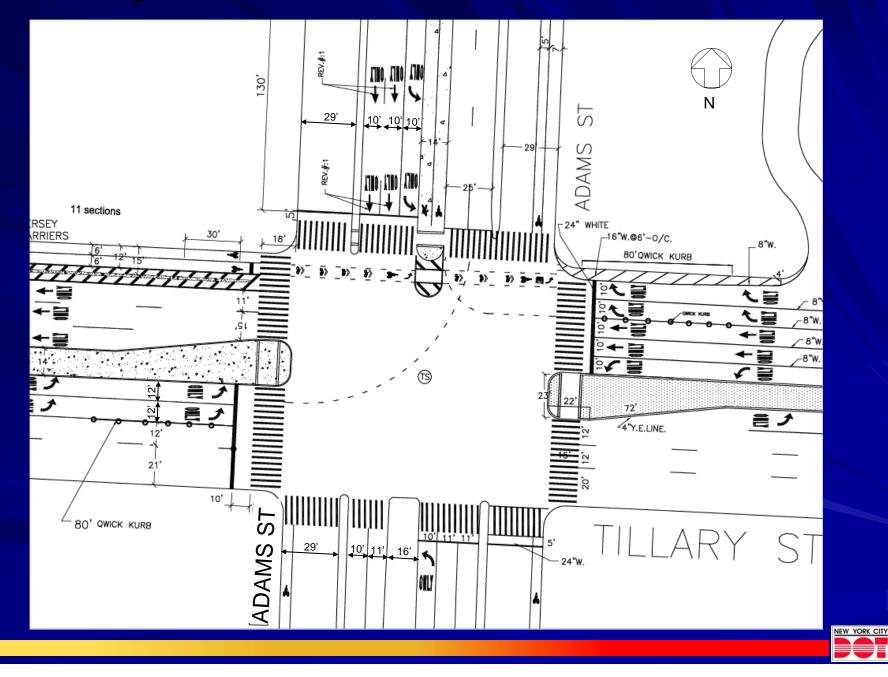


Study Area

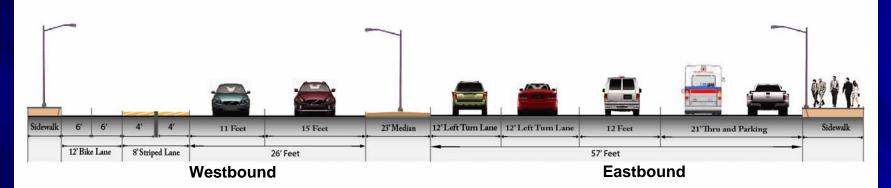




Existing Conditions – Tillary Street at Adams Street



Existing Conditions: Tillary Street at Adams Street cross-section on Eastbound approach



Existing EB Tillary Street



EB approach at Adams St /Tillary St





Looking NB approach at Adams St /Tillary St





Looking WB approach at Adams St /Tillary St





Looking SB approach at Adams St /Tillary St





Looking SB Left Turns at Adams St /Tillary St

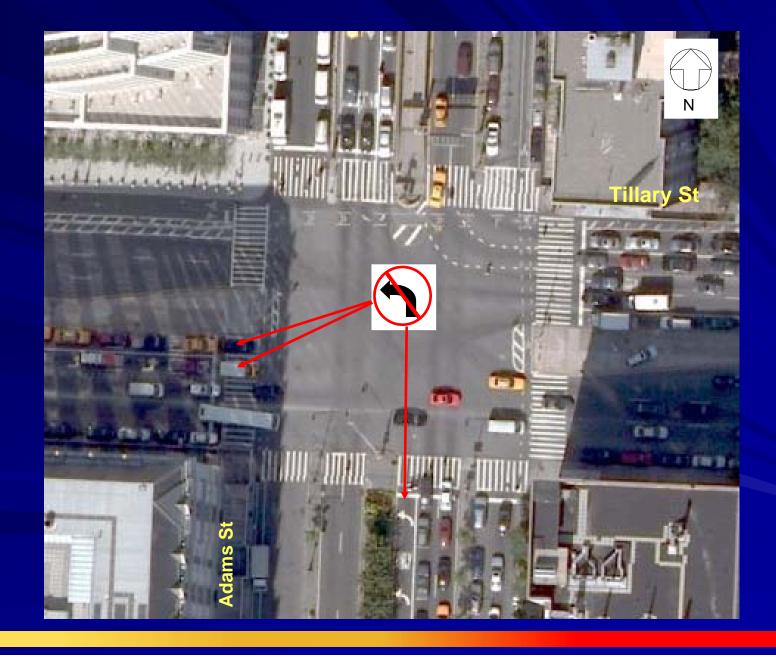




Proposed Conditions



Tillary Street at Adams Street





Reassignment of NB Left Turns Weekday PM Peak Hour







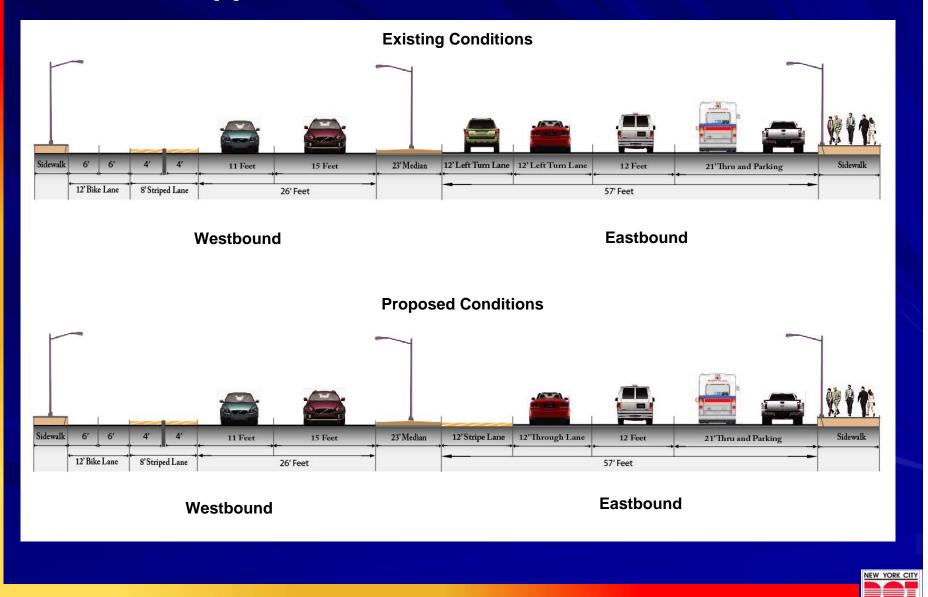
Reassignment of EB Left Turns

Weekday PM Peak Hour

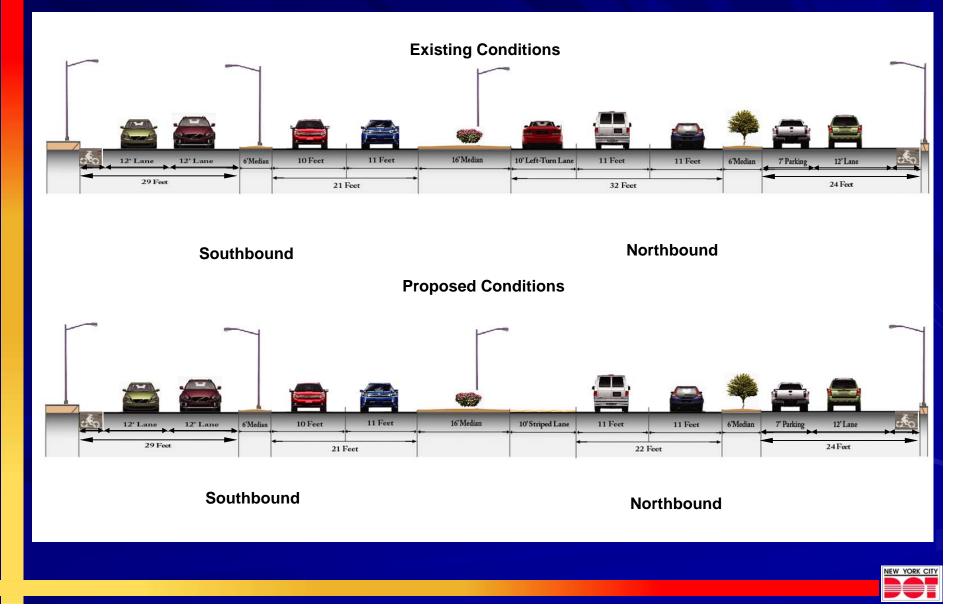




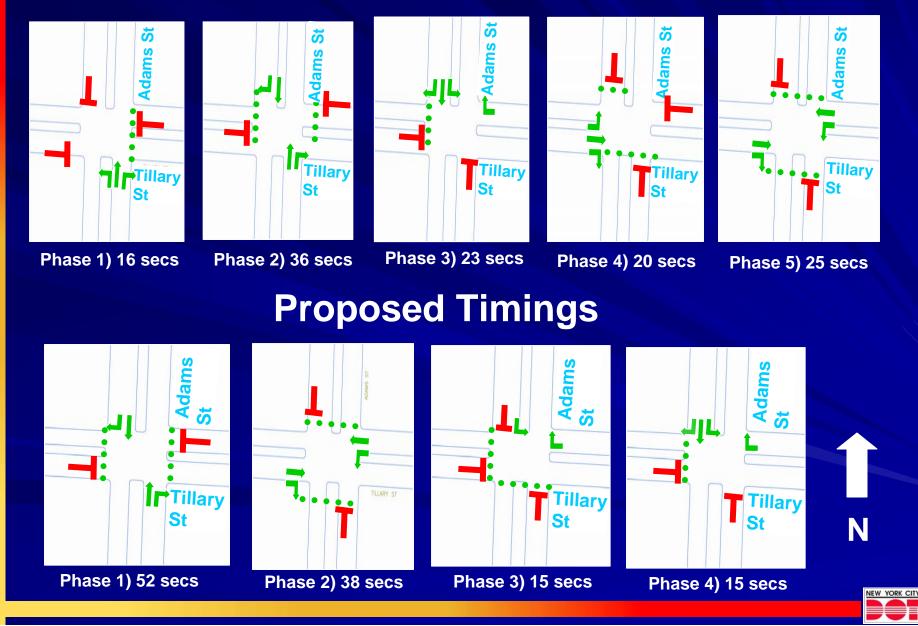
Existing and Proposed Conditions Comparison: Tillary Street at Adams Street cross-section on Eastbound approach



Existing and Proposed Conditions Comparison: Adams Street at Tillary Street cross-section on Northbound approach



Adams St/Tillary St Intersection Signal Phasing: Existing Timings



Crosswalks





Pedestrian Crossing Time at Adams S/Tillary St:

Conditions	Crosswalks				
	North Crosswalk	West Crosswalk	South Crosswalk	East Crosswalk	
Distance	126	134	126	134	
Minimum Time for Ped Crossing	36	38	36	38	
Existing Ped Crossing Time	25*	59	45	52	
Proposed Ped Crossing Time	38	82	53	52	
Difference of Crossing Time	+13	+23	+8	0	

1. Assume 4 feet/second as the pedestrian walk speed.

2. Units: distance (feet) and Crossing Time (seconds)

* Movement from East to West

