Citywide Congested Corridors Project

Amboy Road

Guyon Avenue to Arden Avenue
Staten Island

SHORT AND LONG TERM IMPROVEMENTS

May 11th, 2009
STUDY AREA
Amboy Road from Guyon Ave to Arden Ave
PROJECT STATUS

Start
November 2007

1st CB / Public Meeting
February 11, 2008

Community Walk / drive through
June 23, 2008

2nd CB / Public Meeting
May 11, 2009

3rd CB / Public Meeting
Sept, 2009

Data Collection Plan

Data Evaluation

Existing Condition Analysis

Future Without Improvement Condition Analysis

Draft Recommendations

Early Action Implementation

Final Recommendations
PROPOSED SHORT TERM IMPROVEMENTS
Signal Timing Adjustment Locations

- Amboy Rd & Guyon Ave
- Amboy Rd & Clark Ave
- Amboy Rd & Montreal Ave
- Amboy Rd & Riviera Plaza
- Amboy Rd & Justin Ave
- Amboy Rd & Timber Ridge Dr
- Amboy Rd & Evergreen Plaza
- Amboy Rd & Keegans Lane
- Amboy Rd & Great Kills Rd
- Amboy Rd & Giffords Lane
- Amboy Rd & Nelson Ave
- Amboy Rd & Lindenwood Rd
- Amboy Rd & Richmond Ave
- Amboy Rd & Arden Ave
SITE SPECIFIC IMPROVEMENTS
Richmond Ave and Amboy Rd
EXISTING CONDITION

Richmond Ave from Barlow Ave to Serrell Ave:
- 1 SB LANE
- 2 NB LANES
- 5' PAINTED MEDIAN
- PARKING AND BUS STOPS ON BOTH SIDES

Richmond Ave from Serrell Ave to Sylvia St:
- 2 SB LANES
- 1 NB LANE
- 5' WIDE PAINTED MEDIAN
- PARKING AND BUS STOPS ON BOTH SIDES

Richmond Ave from Sylvia St to Amboy Rd . . .
Richmond Ave from Silvia St to Amboy Rd
Amboy Rd
EXISTING CONDITION

- Reduced width under SIR overpass
- Bus stops and metered parking on both sides of street
- Left turn bay at Amboy Road
- One through lane in each direction
Richmond Ave and Amboy Road
EXISTING SIGNAL TIMING

PHASE 1
AM 36 sec
Midday 33 sec
PM 38 sec
Sat 33 sec

PHASE 2
AM 14 sec
Midday 14 sec
PM 15 sec
Sat 14 sec

PHASE 3
AM 40 sec
Midday 43 sec
PM 37 sec
Sat 43 sec
Richmond Ave and Amboy Rd
PROPOSED SHORT TERM IMPROVEMENTS

Richmond Ave from Barlow Ave to Serrell Ave:

Richmond Ave from Serrell Ave to Sylvia St:

REVERSE LANE ARRANGEMENT TO MATCH WITH NORTHERN SECTION
Richmond Ave from Silvia St to Amboy Rd
Amboy Rd
PROPOSED SHORT TERM IMPROVEMENTS
PROVIDE 2 NORTHBOUND THROUGH LANES

- Remove 5 metered parking spaces on northbound side
- Combine 2 northbound bus stops and relocate near SIR entrance
- Prohibit northbound left-turn from Richmond Ave onto Amboy Rd
- Convert Silvia St to one-way eastbound
Richmond Ave and Amboy Road
PROPOSED SIGNAL TIMING

PHASE 1
AM 12 sec
Midday 12 sec
PM 12 sec
Sat 12 sec

PHASE 2
AM 39 sec
Midday 37 sec
PM 34 sec
Sat 35 sec

PHASE 3
AM 13 sec
Midday 13 sec
PM 13 sec
Sat 13 sec

PHASE 4
AM 26 sec
Midday 28 sec
PM 31 sec
Sat 30 sec
Richmond Ave at Oakdale Street
PROPOSED IMPROVEMENTS

DIVERSION ROUTE DUE TO NB LEFT-TURN BAN AT AMBOY RD

LEFT TURN BAYS AT OAKDALE STREET
Amboy Road from Clarke Ave to Guyon Ave
EXISTING CONDITIONS

Heavy delays for SB left movement

Dangerous SB left turn permitted

Heavy delays for EB through movement
Amboy Road from Clarke Ave to Guyon Ave
PROPOSED SHORT TERM IMPROVEMENTS

- Convert right lane to shared left/through/right to provide 2 lanes for left turns
- Restripe to provide 2 through lanes
- Prohibit left turn out
- Build out curb to reduce crossing distance
- Change lane arrangement to provide 2 through lanes
- Stripe for left and through/right lanes
Arden Ave and Amboy Rd
EXISTING CONDITION

- Skewed, offset intersection
- Painted islands flush with roadway
Arden Ave and Amboy Rd
PROPOSED IMPROVEMENTS

SHORT TERM
- Provide WB left-turn bay

LONG TERM
- Extend curb at NE corner to normalize intersection
  - Relocate signal pole and mast arm
- Extend curb at SW corner to normalize intersection
Amboy Road and Nelson Ave/ Giffords Lane
PROPOSED SHORT TERM IMPROVEMENTS

EXISTING S54 BUS ROUTE
- Existing route
- Existing bus stop

PROPOSED S54 BUS ROUTE
- Proposed route
- Previous route
- Proposed bus stop
- Bus stop removed
Amboy Rd from Ainsworth Ave to Fawn Lane
EXISTING CONDITION

- No crosswalk across Amboy Rd
- No crosswalk across S. Railroad Ave.
- No sidewalk in this area
Amboy Rd from Ainsworth Ave to Fawn Lane
PROPOSED LONG TERM IMPROVEMENTS

Provide crosswalk
Extend Sidewalk
Provide crosswalk
Provide signal
Amboy Rd from Lindenwood Rd to Nelson Ave
PROPOSED SHORT TERM IMPROVEMENTS

- Provide left turn bays at east and west legs of Lindenwood Ave and west leg of Nolan Ave
- Construct channelization for eastbound right turn at Nelson Ave
Amboy Road and Waimer Pl / Preston Ave
PROPOSED SHORT TERM IMPROVEMENT

- Install left-turn bay for eastbound Amboy Rd