
Staten Island Expressway FUTURE BUS/HOV LANE OPERATIONS

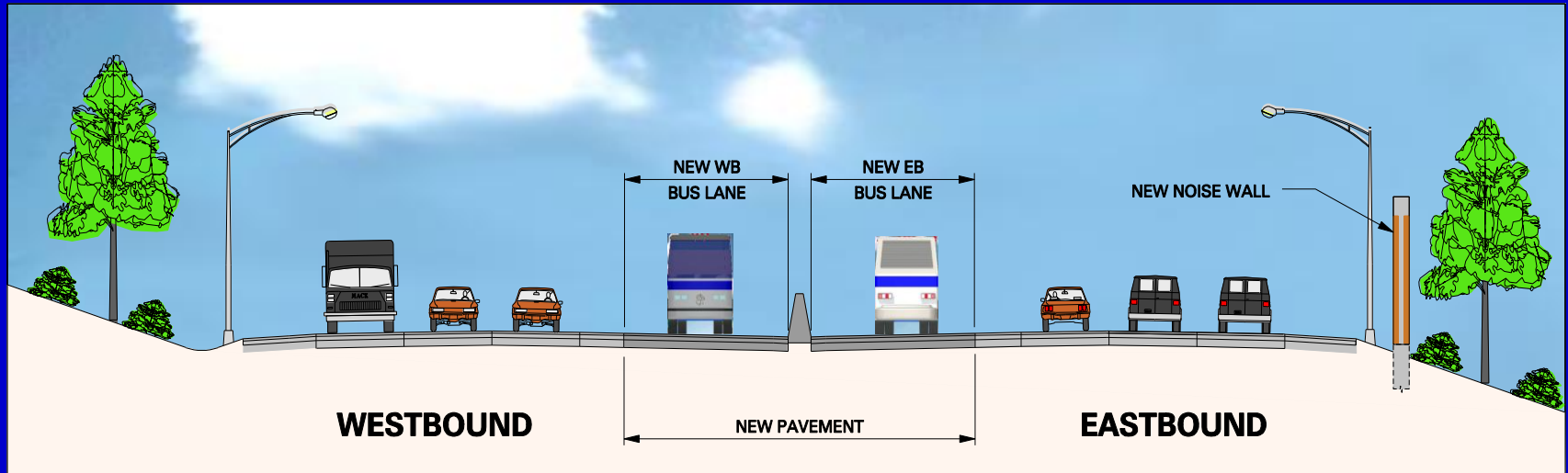


SIE Existing Bus Lane

- Opened Nov. 2005
- VNB to Slosson Ave.
- 2.6 miles in length
- Operates daily 24 hours per day
- Operates as a Pilot Program with 2+ HOV in peak direction – AM eastbound/PM westbound



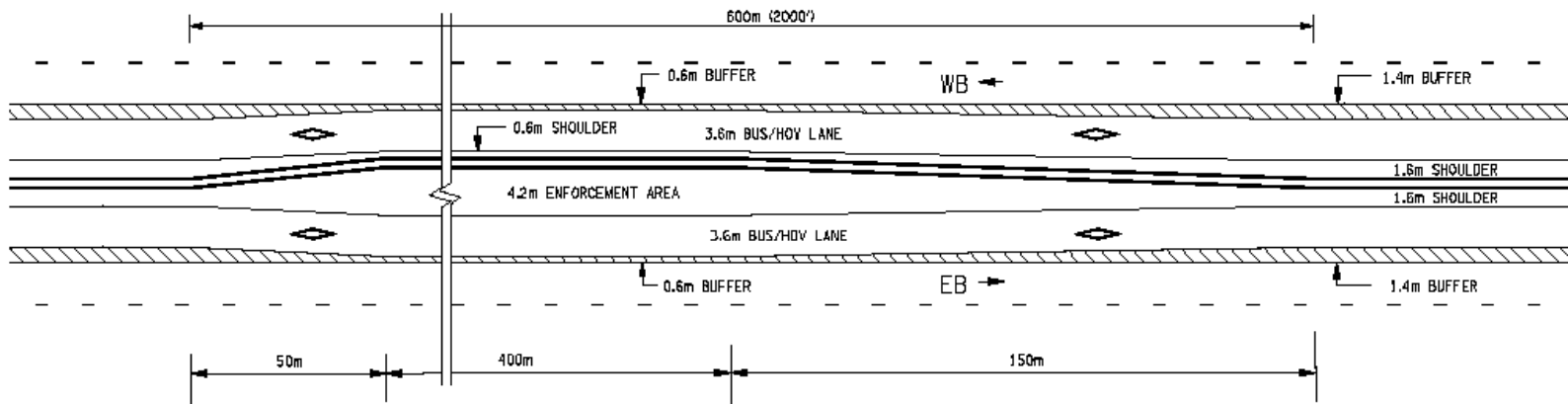
Bus Lane Extension West of Slosson Avenue



- Will extend existing configuration to Victory Blvd. area
- Will continue striped buffer separation



Enforcement Area



Bus/HOV Lane Extension Objectives

- Improve mobility on the SIE
- Reduce travel time for transit first and then for carpool/vanpool riders
- Increase attraction for transit use and then for carpooling
- Reduce person-hours of delay
- Increase flexibility that allows for future operating changes



Options Considered

- Bus Only
- Bus/HOV3+
- Bus/HOV2+
- Time of Day Operation
 - Peak period usage in both directions
 - 24/7 use
 - Weekend use
 - No Weekend use
 - Off-peak and weekend by all traffic



Issues

- Traffic Service (Level of Service) and Vehicle Occupancy
- Regional System Connectivity
- Safety, Operation and Enforcement



2009 Traffic Counts

Staten Island Expressway Occupancy

<u>Location</u>	<u>Buses</u>	<u>HOV2+</u>	<u>HOV3+</u>
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Eastbound AM

Richmond Ave. to Victory Blvd.	36	408	42
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Slosson Ave. to Hylan Blvd.	76	470	31
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Westbound PM

Victory to Richmond	44	939	81
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Hylan to Slosson	54	530	45
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Existing Bus/HOV Lane Usage

<u>Location</u>	<u>Buses</u>	<u>HOV2+</u>	<u>Other</u>
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Eastbound AM Peak Hour

Fingerboard Area	72	547	319
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34% are violators

Westbound PM Peak Hour

Fingerboard Area	46	560	724
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54% are violators



Future Lane Use Forecasts

SIE Eastbound Morning – Slosson Avenue to the Verrazano Bridge

<u>Year</u>	<u>Buses/HOV3+</u>	<u>Buses/HOV2+</u>
2015	195	770
2035	240	1635*

*Would operate at speeds less than 35 mph



Future Lane Use Forecasts

SIE Westbound Evening – Verrazano Narrows Bridge to Slosson Avenue

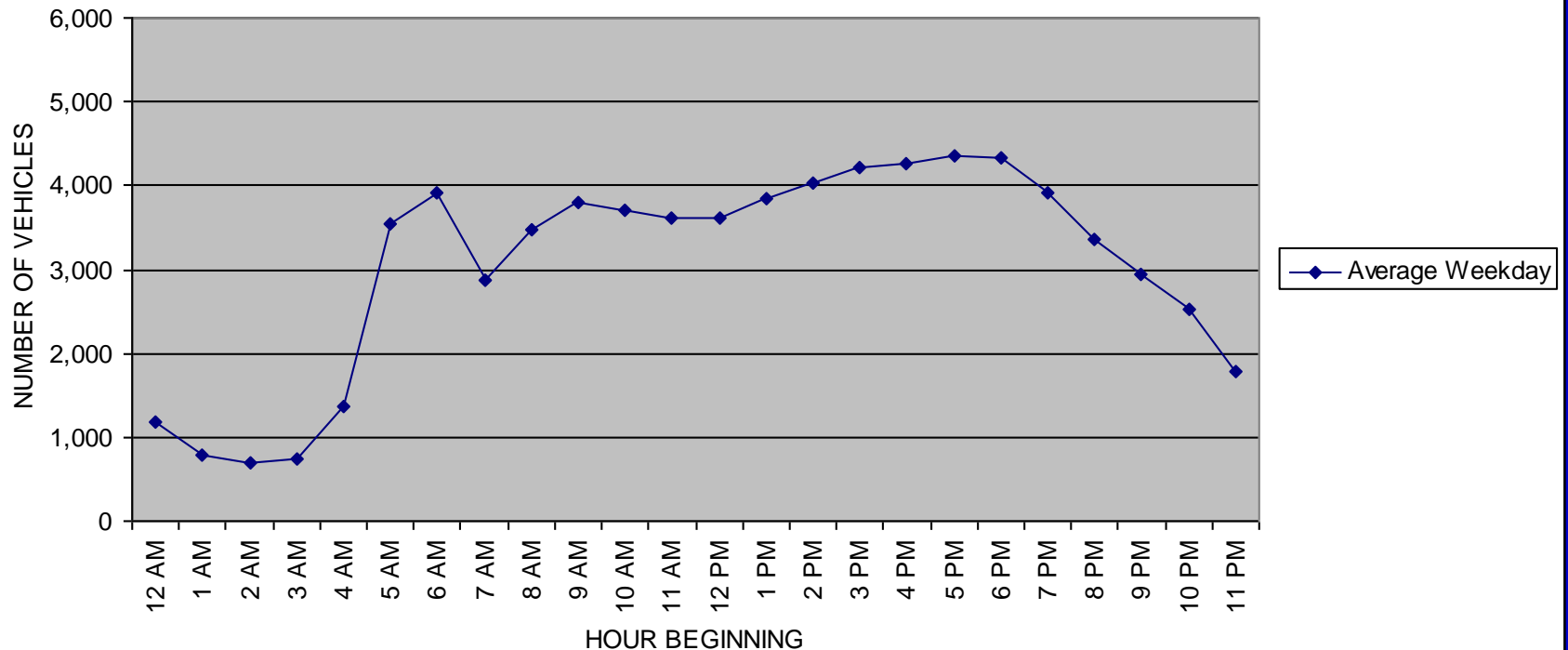
<u>Year</u>	<u>Buses/HOV3+</u>	<u>Buses/HOV2+</u>
2015	80	710
2035	160	1440*

*Would operate at speeds less than 40mph

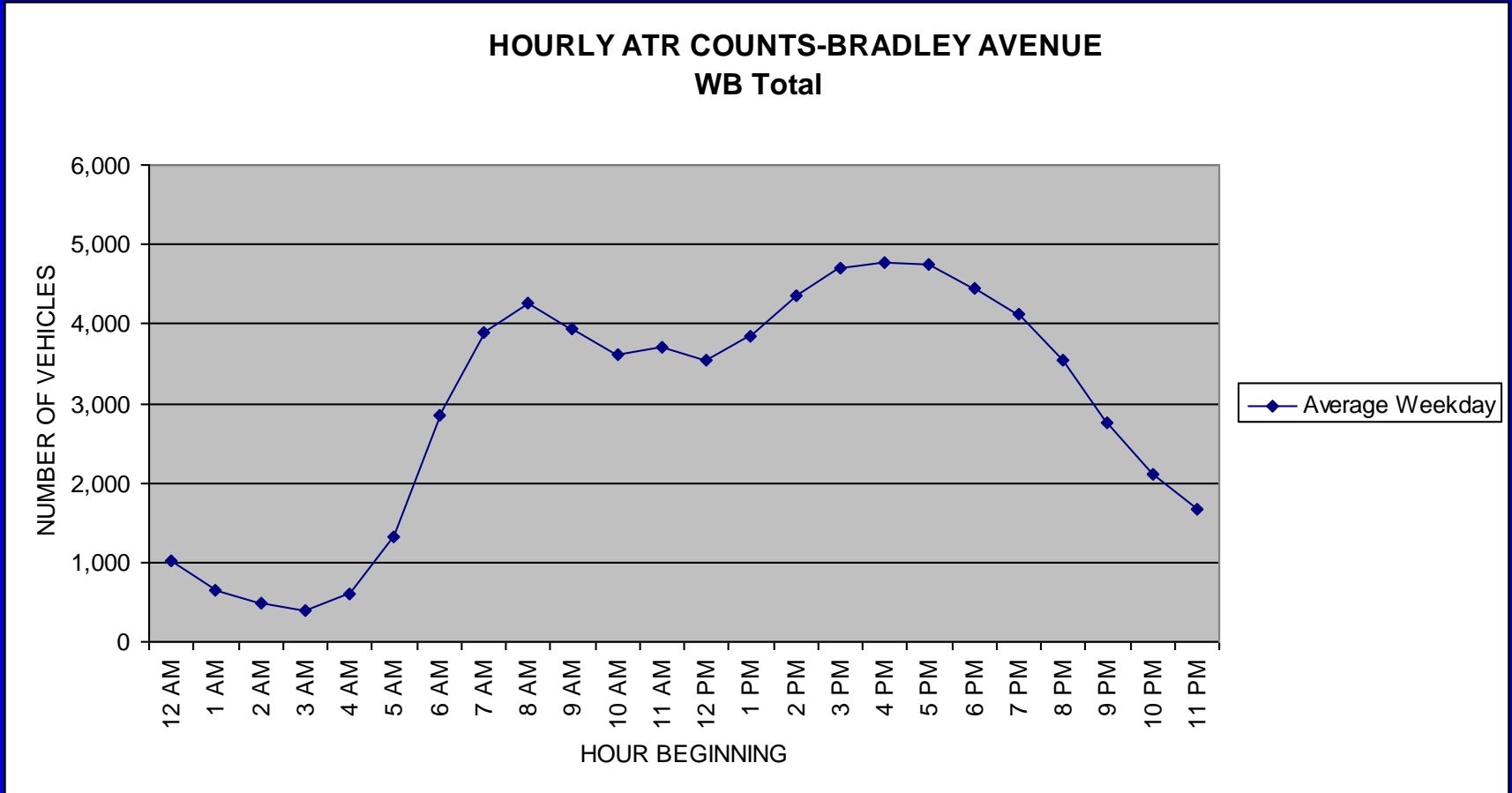


EB SIE Weekday Usage

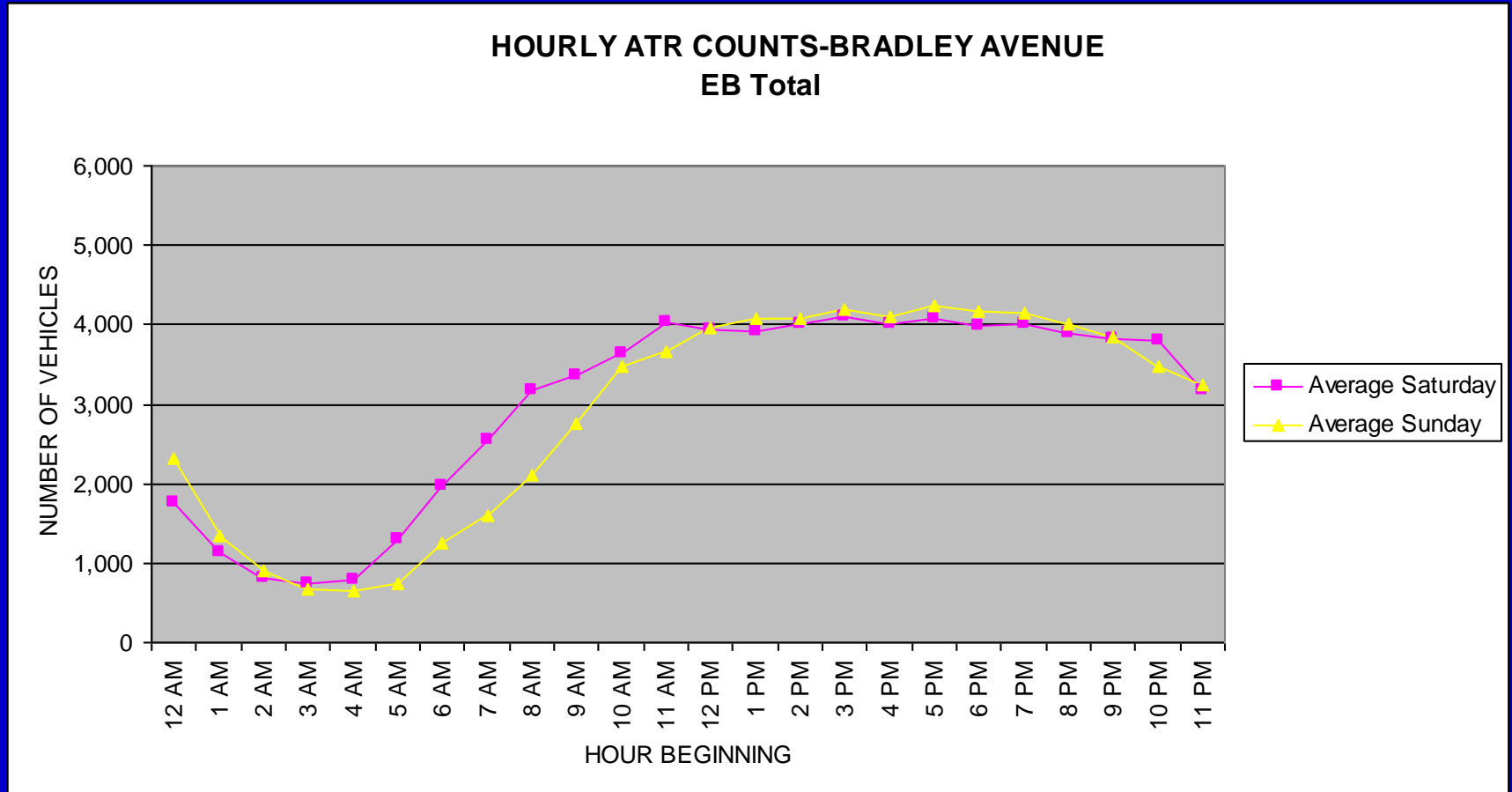
HOURLY ATR COUNTS-BRADLEY AVENUE
EB Total



WB SIE Weekday Usage

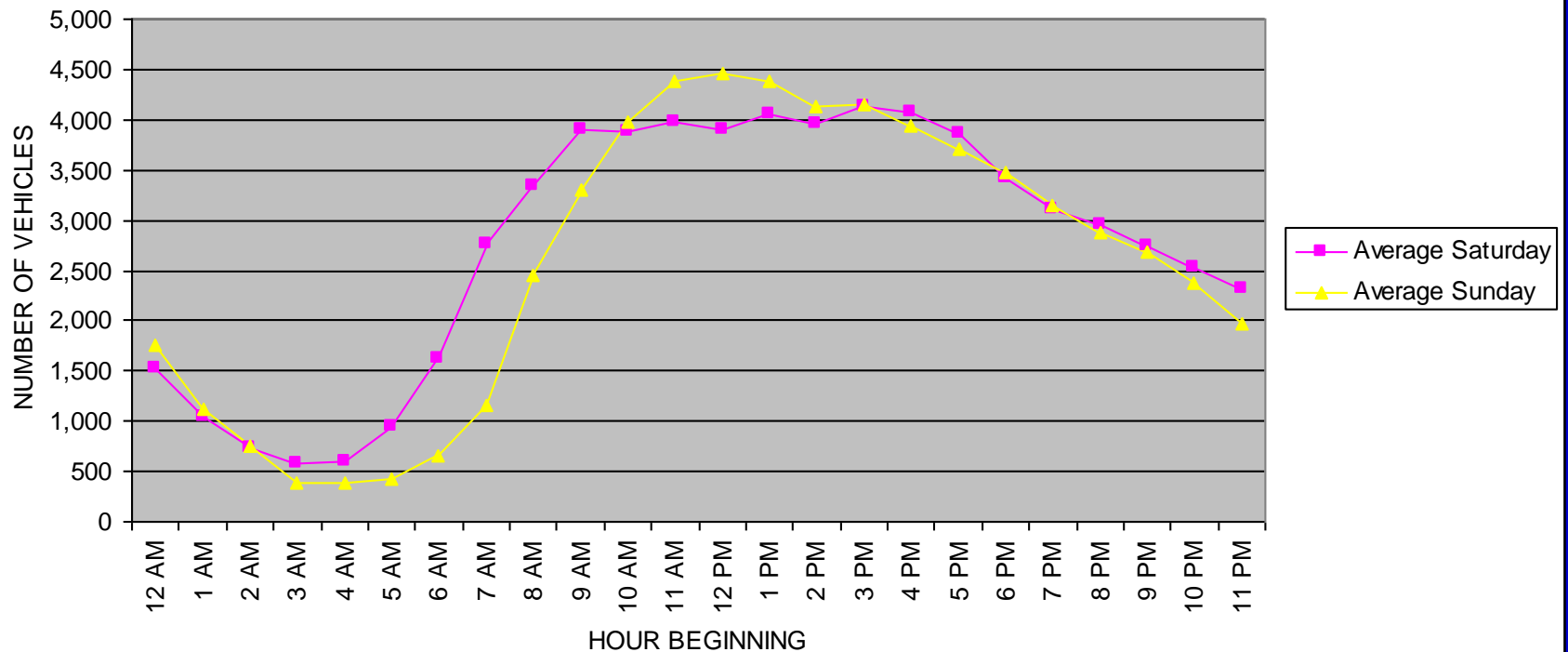


EB SIE Weekend Usage



WB SIE Weekend Usage

HOURLY ATR COUNTS-BRADLEY AVENUE
WB Total



Other Factors

- I-278 HOV Definition
 - Gowanus - already 3+ definition of HOV
 - Goethals – proposed 3+ definition for new bridge
- Access/Safety – access needs to be limited for safety with buffer separation
- Time of Day Operation – needs to be operated from at least 5:00 AM to 9:00 PM daily
- Increased enforcement



Proposed Recommendations

- Continue to operate the Pilot Program 2+ through construction to help move traffic during the construction on the SIE
- Once complete to Victory Blvd. – permanent definition will be Buses and 3+ HOV
- Operate the Lane in both directions 24 hours a day for 7 days a week



Proposed Schedule

- Final Design Complete – September 2010
- Contract Letting – Early 2011
- Construction Complete – Mid 2013
- 2013 – Final Operation in Place

