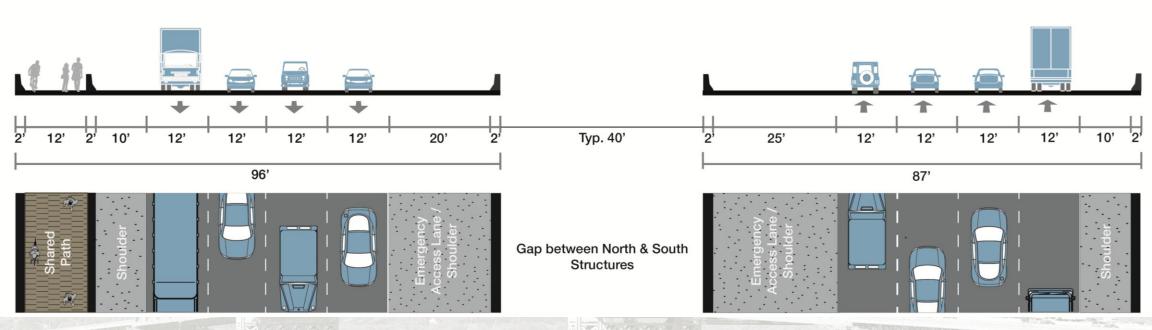


TZB Cross Section



- North bridge incorporating 12ft shared use path and space for future bus lane
- South bridge with space for a future bus lane
- Gap between the two decks for "potential future loading"



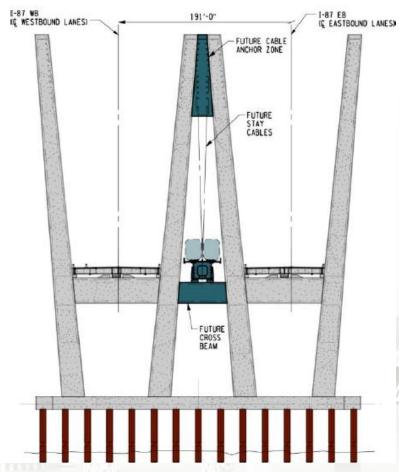






Design-Builder's Strategy for Potential Future Loading





Main Span Strategy











Area of Transit Consideration





Previous Studies

Tappan Zee Bridge/I-287 Corridor Transit Mode Selection Report (2009) : http://www.newnybridge.com/documents/brt/tmsr.pdf

■ Tappan Zee Bridge/I-287 Transit Alignment Options Report (2011): http://www.newnybridge.com/documents/brt/taor.pdf

Tappan Zee Bridge/I-287 Corridor BRT Studies:

http://www.newnybridge.com/documents/brt/index.html

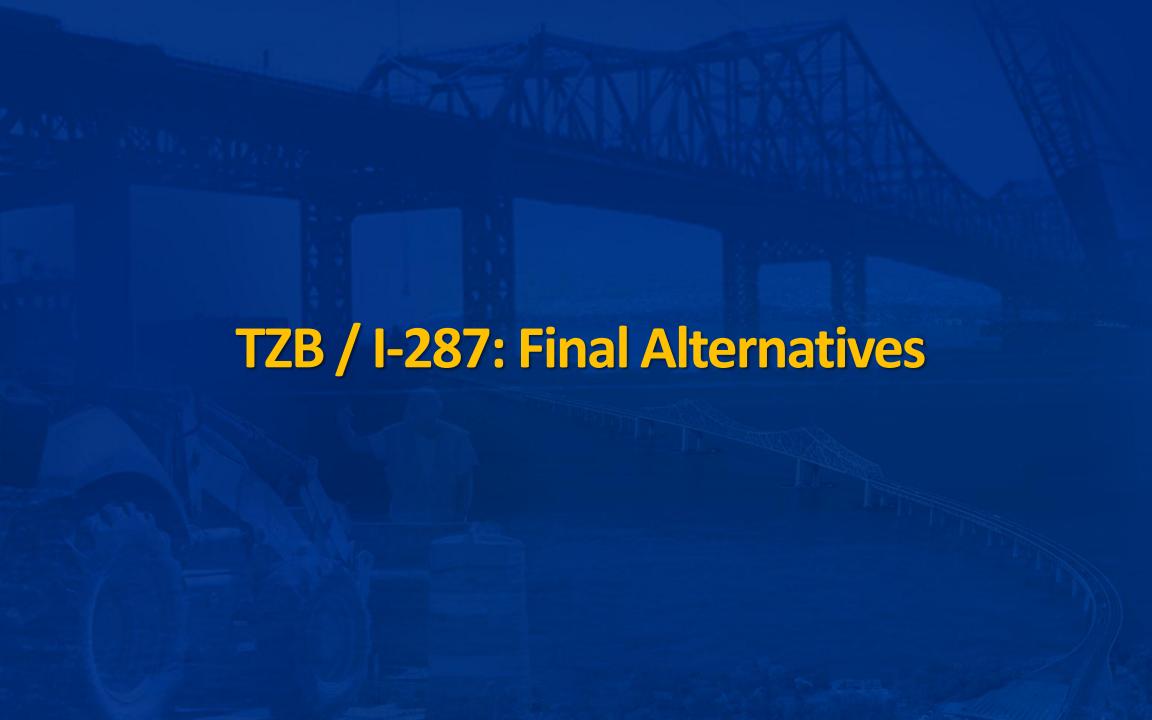
Other Reports?



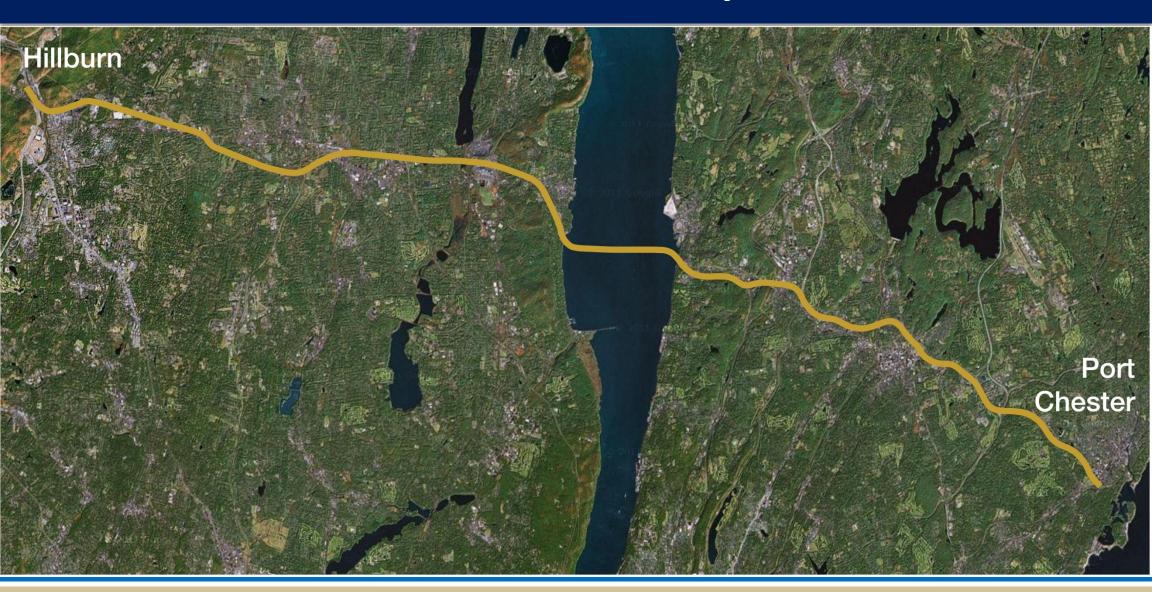








TZB / I-287 Corridor Study Extents











Mode Alternatives Explored

- Bus Rapid Transit (BRT)
- Light-Rail Transit (LRT)

Commuter Rail Transit (CRT)











BRT – Typical System Elements

- Exclusive transit lanes
- Simple route layout
- Signal prioritization
- Amenities at stops / Less frequent stops
- Multiple-door boarding and alighting
- Level boarding and alighting
- Fare prepayment / Frequent service
- Feeder network
- Coordinated land use planning
- Higher capacity vehicles
- Branded vehicles and stations
- Operating Speed: 8-12 MPH
- Distance between Stations: 0.25-2 Miles















LRT- Typical System Elements

- Overhead power supply
- Can operate in mixed traffic
- Typically low top speeds than heavy / commuter rail: 20-60 MPH
- Distance between Stations: 1 Mile
- Close station spacing.
- Broad choice of guideway types.
- Short trains (one to four cars in length).
- (Coordination with local bus services.
- On-board fare collection.
- Moderate passenger capacity.















CRT – Typical System Elements

- Electric or Diesel railway
- High top speeds (90 mph or more)
- Long station spacing (2-5 Miles)
- Guideways largely limited to exclusive ROWs
- Long trains (four to 10 cars)
- Coordination with local bus services
- On-board fare collection
- High passenger capacity
- Convenient transfers
- Station locations coordinated with land use plans
- Signal system















Options / Alternatives Explored

Mode	Alte	ernative / Options	Rockland Suffern 4	Hudson Line Connection	Westchester → Port Chester	
BRT	3A	Full Corridor Bus Rapid Transit Westchester Local	In New BRT/HOT Lanes	Transfer	Exclusive Lanes/Busway	
	3B	Full Corridor Bus Rapid Transit Westchester Express	In New BRT/HOT Lanes	Transfer	Exclusive Busway	
CRT	4A	Full Corridor Commuter Rail Transit		Direct	_	
	4A-X	Full Corridor Commuter Rail Transit	(4)	Transfer		
LRT & CRT	4B	Rockland Commuter Rail Transit Westchester Light Rail Transit		Direct TZS	ě	
BRT & CRT	4C	Rockland Commuter Rail Transit Westchester Bus Rapid Transit		Direct Tzs	Exclusive Lanes	
	4D	Rockland Commuter Rail Transit Full Corridor Bus Rapid Transit	+ In New BRT/HOT Lanes	Direct	Exclusive Lanes/Busway	
LRT	LRT	Full Corridor Light Rail Transit	ě	Transfer	ě	

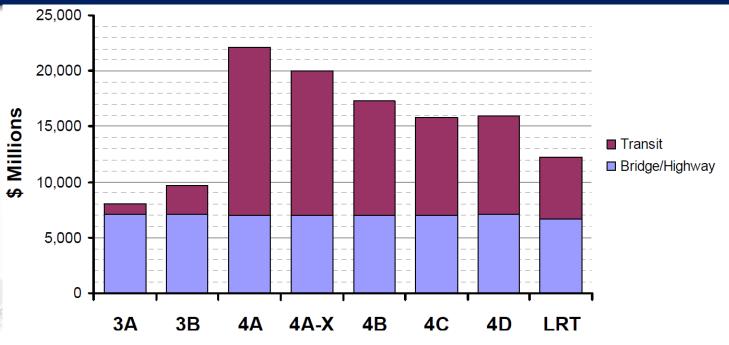








Options / Alternatives Explored: Estimated Capital Cost



	Capital Cost Estimate (millions) 2012 dollars									
	3A	3B	4A	4A-X	4B	4C	4D	LRT		
Bridge/Highway	\$7,130	\$7,130	\$6,980	\$6,980	\$6,980	\$6,980	\$7,130	\$6,690		
Transit	\$897	\$2,548	\$15,111	\$13,022	\$10,372	\$8,775	\$8,869	\$5,561		
	\$8,027	\$9,678	\$22,091	\$20,002	\$17,352	\$15,755	\$15,999	\$12,251		

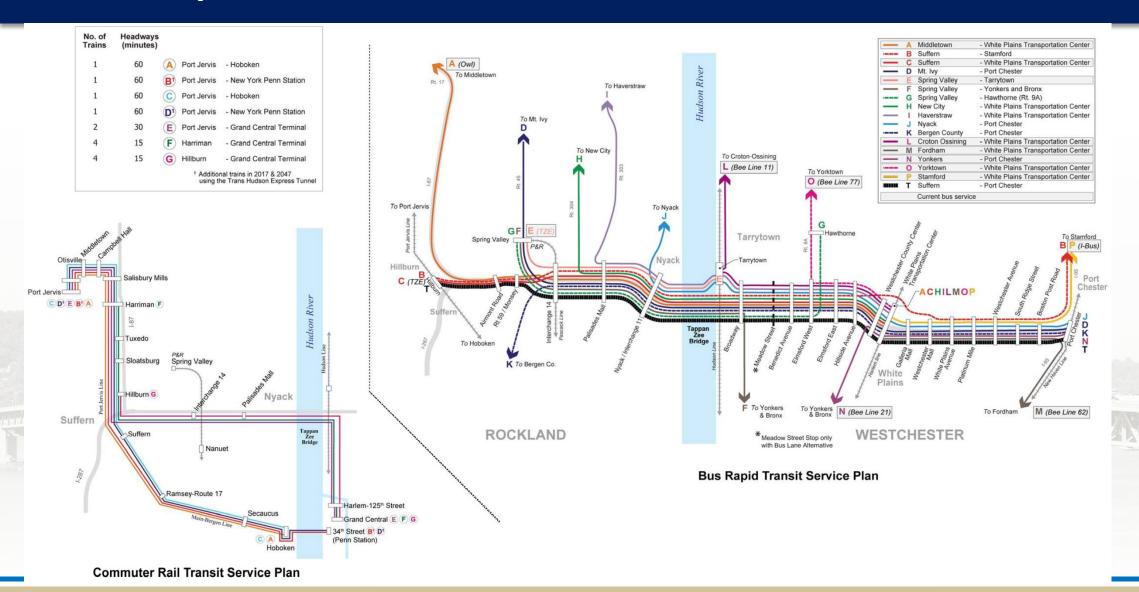








DEIS Option: CRT in Rockland to GCT / BRT Full Corridor



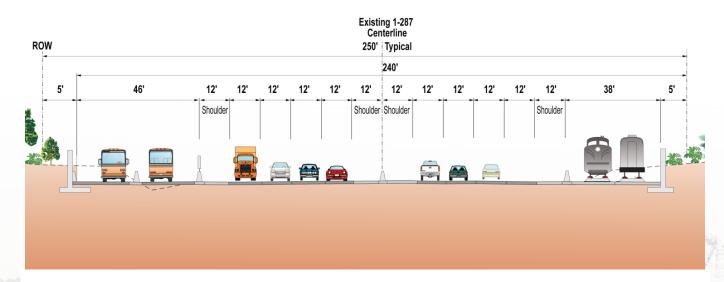




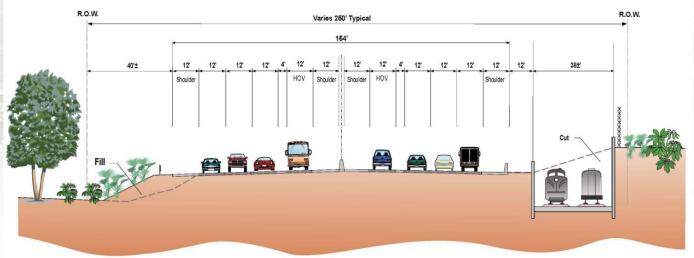




Cross-Rockland Route Options



Dedicated Busway to the north of the I-287



BRT in HOV lanes in the center of the I-287

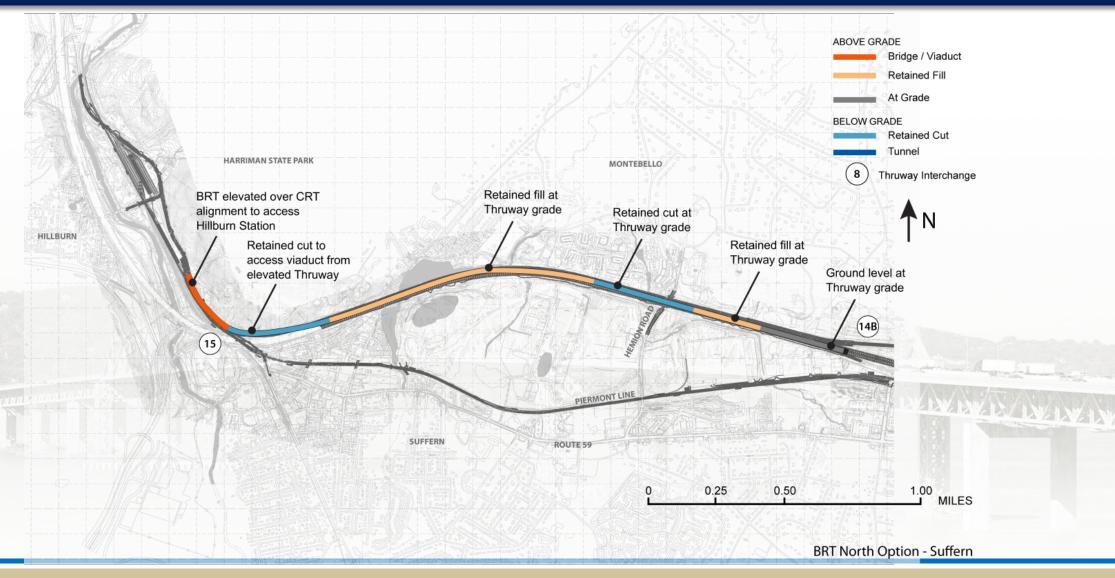








Busway North: Int 15 to Int 12











BRT in HOV Lanes: Int 15 to Int 12



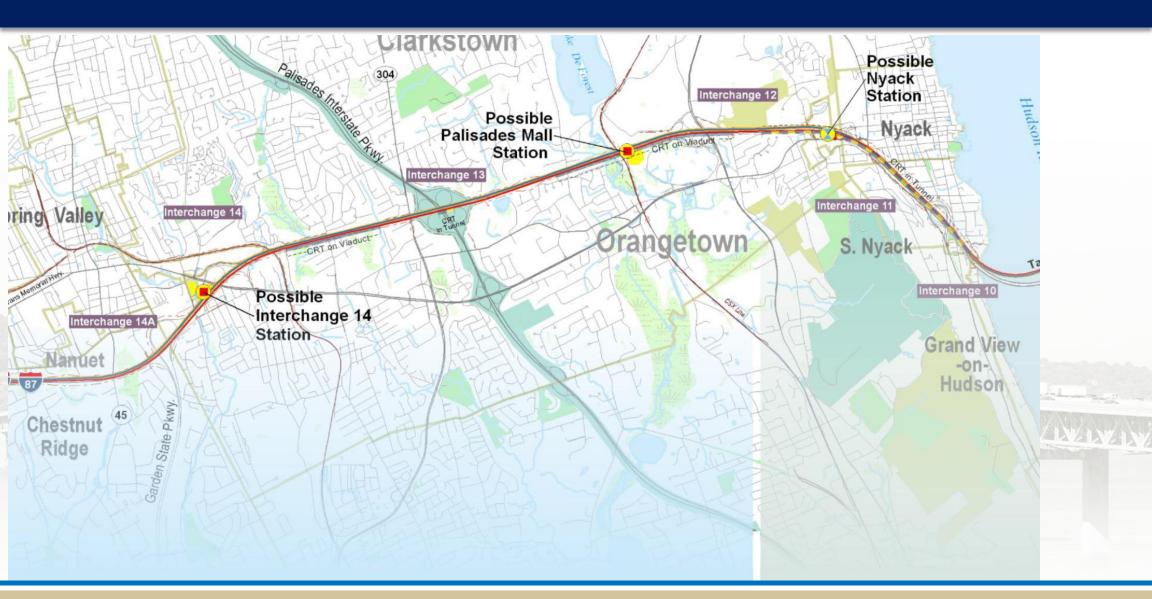








BRT in HOV Lanes: Int 12 to TZB



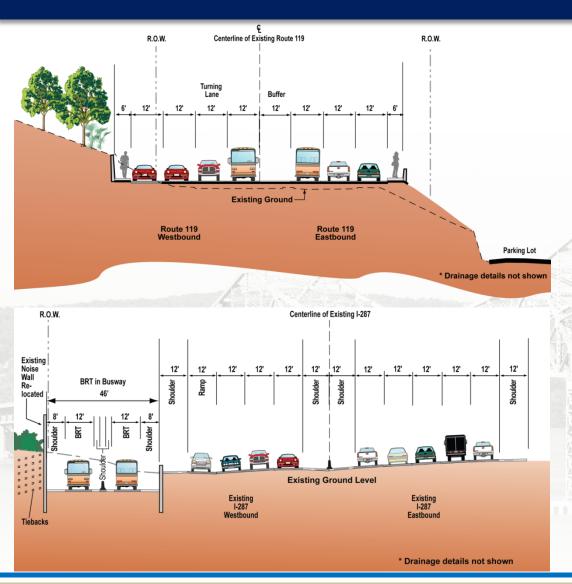








Cross-Westchester Route Options



Bus Lanes

Lane conversion

Busway

Dedicated busway next to highway

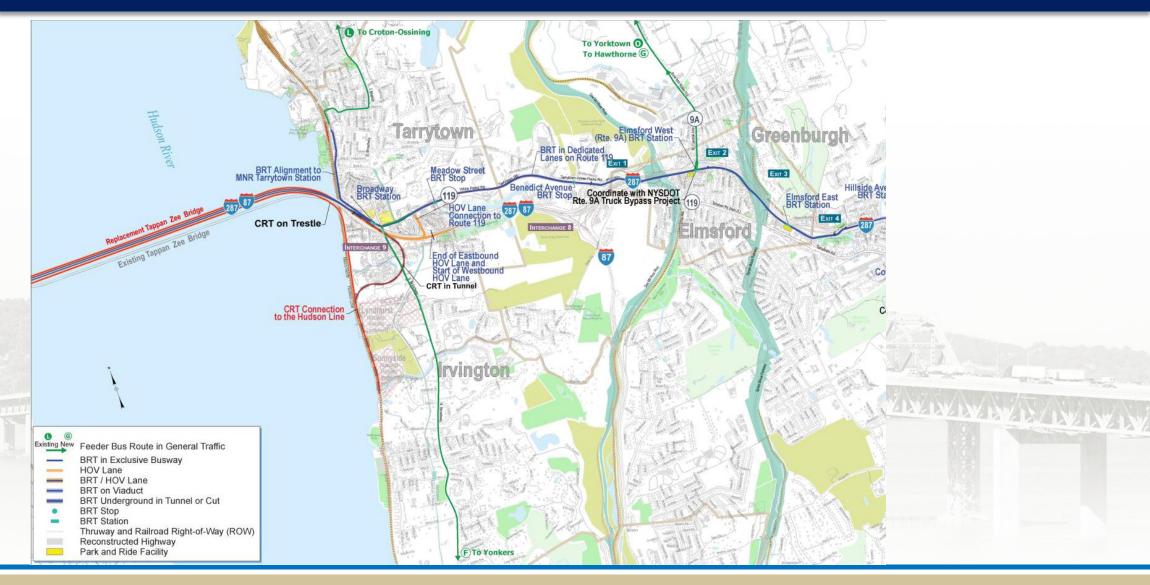


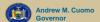






Bus Lane - Lane Conversion in Westchester



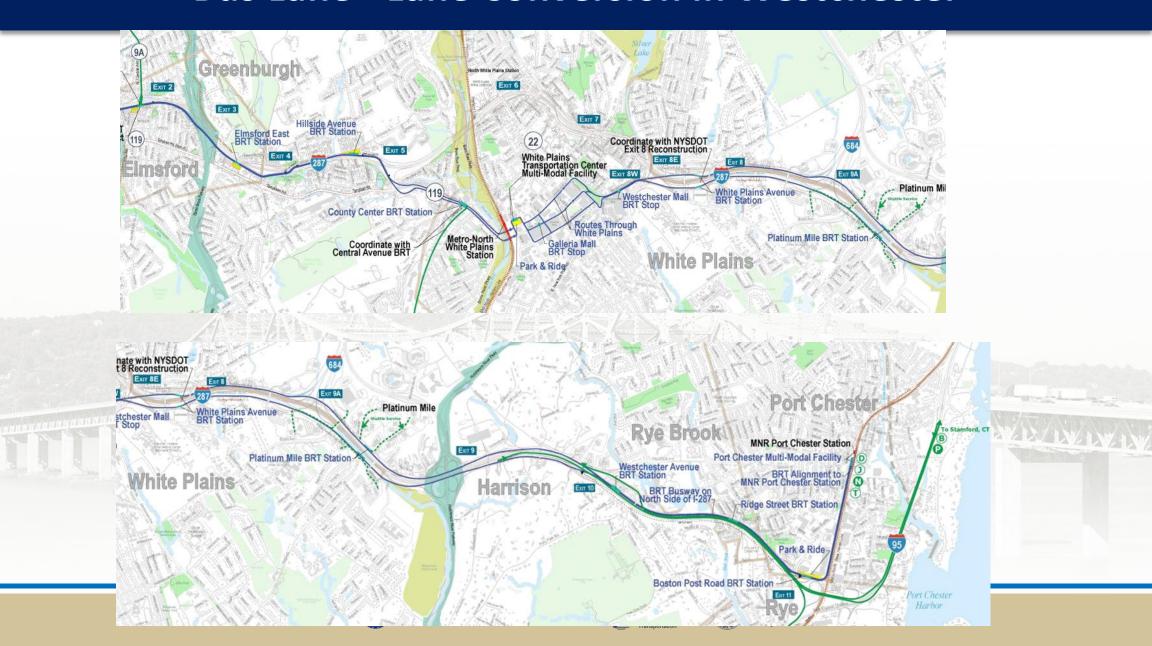








Bus Lane - Lane Conversion in Westchester

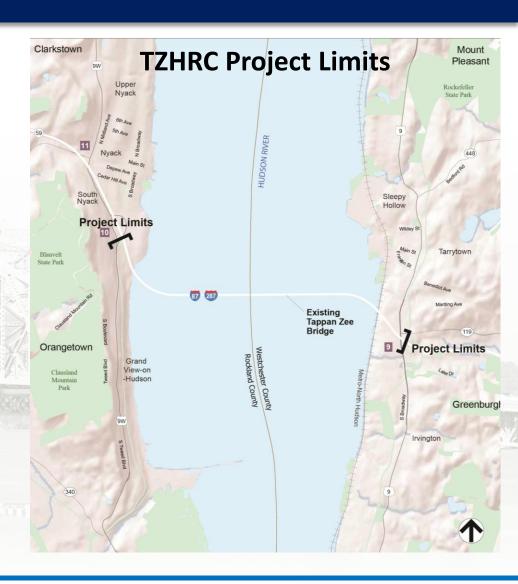


Busway in Westchester



Project Status

- August 2011 Governor calls a halt to the TZB / I 287 30 Mile Corridor project
- Tappan Zee Hudson River Crossing (TZHRC)
 Project commenced in 2011, with smaller corridor and scope:
 - New Project Scope and NOI October 2011
 - DEIS issued January 2012, received 3400+ comments
 - FEIS issued July 2012
 - Record of Decision signed by FHWA 25th September 2012













Questions Moving Forward

- How to define the study area?
- What is the transit vision?
- Adopt TZB / I-287 study and provide phasing and funding plan? Or pursue alternative vision and study?









