

Orange Line BRT Improvements

Planning and Programming Committee

October 18, 2017



Metro

Measure M Project

PROJECT SCHEDULE

- Groundbreaking Date: FY2019
- Opening Date: FY2025

PROJECT DESCRIPTION:

- “Orange Line BRT Improvements”
- “Critical grade separation(s) will be implemented early through Operation Shovel Ready”

PROJECT GOAL:

- Move Orange Line customers efficiently and safely



Comparisons

North Hollywood to Canoga

Improvement / Benefit	Fiscally Constrained with 3 Grade Separations	Fiscally Unconstrained with 5 Grade Separations	Grade Separation from Van Nuys to Sepulveda + Gates
BUS TRAVEL TIME REDUCTION 	-4 min	-5.3 min	-12.6 min
RIDERSHIP 	+1,000	+3,400	+10,100
CAPITAL COST 	\$261 M	\$455 M	\$273 M

Study Findings

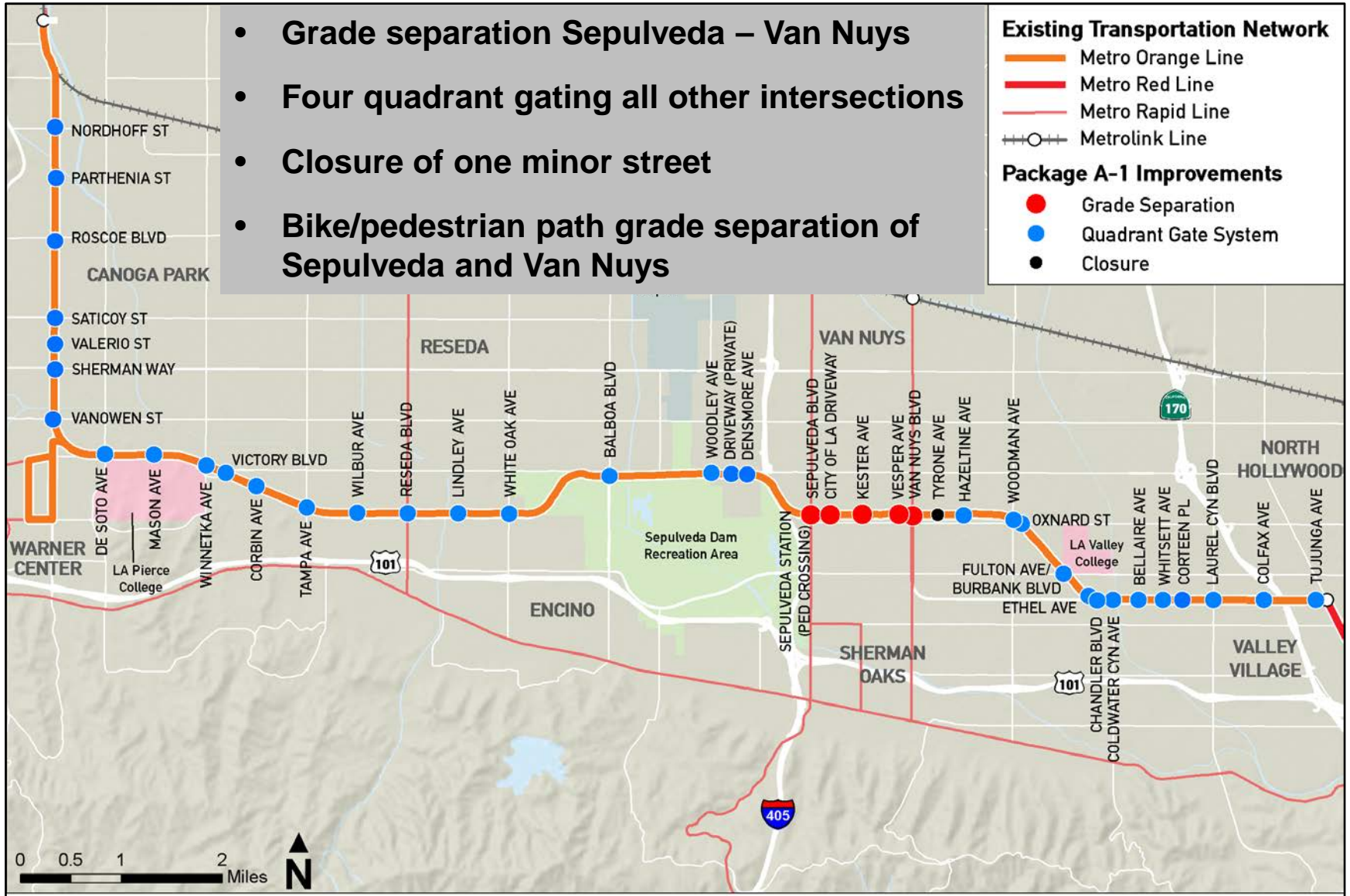
- Gating
 - Provides the highest benefit for the least cost
 - Provides an equitable distribution of safety improvements along the busway
- Grade separations of major arterial roadways
 - Good safety improvement but financially infeasible to spread safety benefits across the entire corridor
 - Did not achieve the hoped-for benefit in time savings
- Effect on roadway cross traffic travel times
 - Ranges from minimal to improved
 - Further study and coordination with LADOT ongoing

About Gating

- Gates approved as a traffic control device
- Same as LRT gates
- Regulatory approval may be required for BRT
- Discussion with regulatory agencies to occur
- Each gated intersection is about 100th the cost of a grade separation structure



Recommended Alternative



- **Grade separation Sepulveda – Van Nuys**
- **Four quadrant gating all other intersections**
- **Closure of one minor street**
- **Bike/pedestrian path grade separation of Sepulveda and Van Nuys**



Existing Transportation Network

- Metro Orange Line
- Metro Red Line
- Metro Rapid Line
- Metrolink Line

Package A-1 Improvements

- Grade Separation
- Quadrant Gate System
- Closure

Recommended Alternative

Segment	Performance Metrics	
		
East-West Segment (North Hollywood to Canoga)	-12 min	\$273 M
North-South Segment (Canoga to Chatsworth)	-3 min	\$10 M
Entire Corridor (North Hollywood to Chatsworth)	-16 min	\$283 M

Recommendation

Board **action** to consider:

- APPROVING the findings and recommendation resulting from the Orange Line Bus Rapid Transit Improvements Technical Study; and
- APPROVING advancing Orange Line Bus Rapid Transit Improvements into the public engagement, environmental review and engineering design concurrent processes.