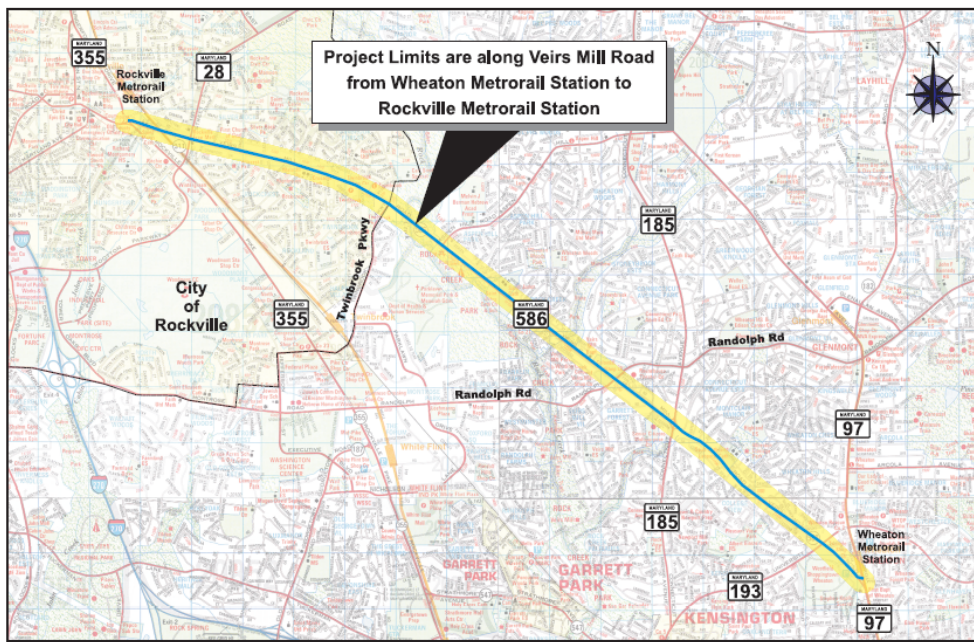


Veirs Mill Road Bus Rapid Transit Study



**Conceptual Alternatives
Project Briefing
April 22, 2014**



Veirs Mill Road Bus Rapid Transit

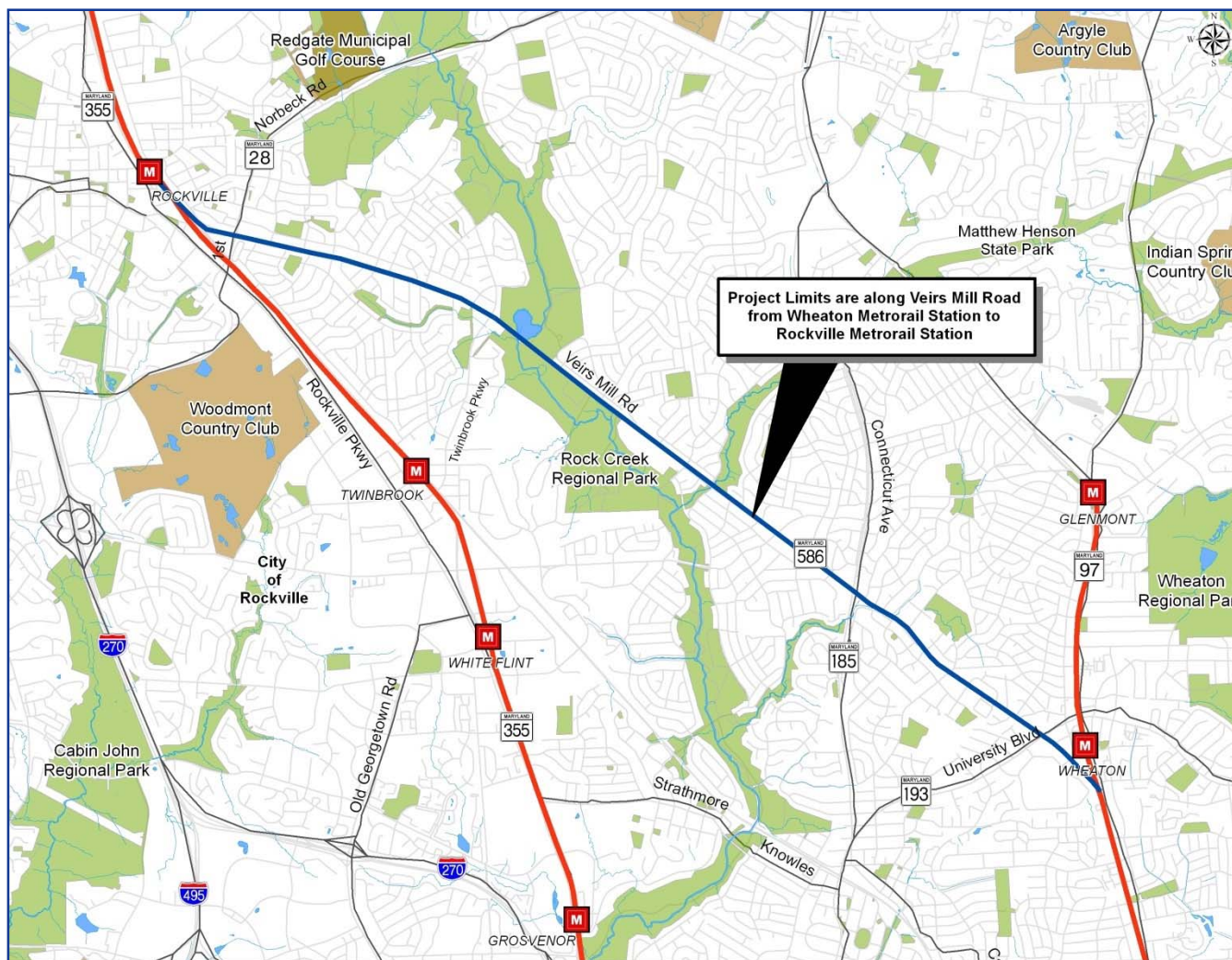
Study Overview

- **Evaluate potential for BRT line along Veirs Mill Road**
- **Study Limits: From the Wheaton Metrorail Station to the Rockville Metrorail Station in Montgomery County**
- **Veirs Mill Road is the most heavily used Metrobus route in Montgomery County**
- **Study led by SHA and MTA with funding from Montgomery County DOT**



Veirs Mill Road Bus Rapid Transit

Project Location



Veirs Mill Road Bus Rapid Transit

Purpose and Need

The purpose of the study is to provide a new high-speed, high-efficiency bus line along Veirs Mill Road between the Rockville Metrorail Station and the Wheaton Metrorail Station.

Four specific needs for the project were identified:

- System Connectivity
- Mobility
- Transit demand/Attractiveness
- Livability



Veirs Mill Road Bus Rapid Transit

Existing Roadway Conditions

- **6.7-mile corridor**
- **Functional classification: Other principal arterial**
- **Number of lanes: varies from 4 to 6**
- **Intersections:**
 - 20 signalized
 - 26 unsignalized intersections and numerous driveways
- **Average daily traffic: 24,050 to 47,525**
- **Sidewalks typically present with some gaps**
- **No designated bicycle facilities**
- **Metrobus and Ride On bus service**
- **Service roads along much of the corridor**



Veirs Mill Road Bus Rapid Transit

Travel Forecasting

Ridership Summaries Within the Study Area

	Alt 1 (No-Build)	Alt 2 (TSM)	Alt 4C (BRT on ◇)	Alt 4D (All Bus on ◇)
BRT Boardings	0	5,577	9,122	6,902
Other Bus Boardings	29,379	27,213	24,823	27,219
Metrorail Boardings	83,752	84,114	84,421	84,075
TOTAL DAILY BOARDINGS	113,131	116,904	118,366	118,196

● Summary of Findings:

- Regional changes in total transit boardings somewhat stable across alternatives.
- Significant percentage of BRT ridership diverts from existing service.



Veirs Mill Road Bus Rapid Transit

Average Daily Traffic (ADT)

MD 586 Segment	ADT		
	2011 Existing	2040 No-Build	Increase
MD 355 to MD 28	28,800	36,675	27%
MD 28 to Twinbrook Pkwy	33,925	42,300	25%
Twinbrook Pkwy to Aspen Hill Road	47,525	57,775	22%
Aspen Hill Road to Randolph Road	35,100	53,250	52%
Randolph Road to MD 185	37,400	53,900	44%
MD 185 to MD 193	36,350	47,625	31%
MD 193 to MD 97	24,050	32,625	36%



Conceptual Alternatives Overview

- **Alternative 1: No-Build**
- **Alternative 2: TSM/Queue Jumps**
- **Alternative 3: Enhanced bus service in dedicated lanes (where feasible)**
- **Alternative 4: New BRT in all dedicated lanes**
- **Alternative 5A: Reversible BRT in dedicated lane**
- **Alternative 5B: Bi-directional BRT in dedicated lane (with 2 median lanes where feasible)**
- **Alternative 6: New BRT in dedicated lanes and mixed traffic**



Veirs Mill Road Bus Rapid Transit

Alternatives 1, 2, and 3

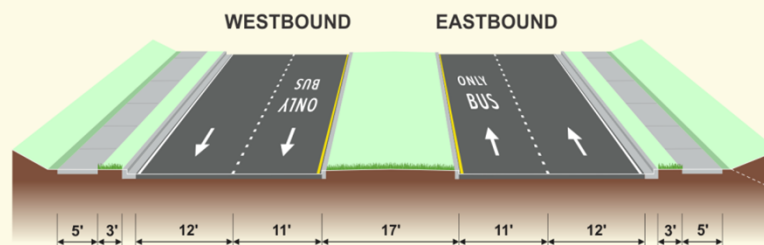
<p>ALTERNATIVE 1</p> <ul style="list-style-type: none"> No-Build 	<p>WESTBOUND EASTBOUND</p>
<p>ALTERNATIVE 2</p> <ul style="list-style-type: none"> Transportation System Management (TSM) alternative Queue jumps at some intersections Enhanced bus service (WMATA Q9) Existing bus stops 	<p>WESTBOUND EASTBOUND</p>
<p>ALTERNATIVE 3</p> <ul style="list-style-type: none"> Dedicated bus lanes in curb lane, where feasible Bicycle-compatible curb lane Enhanced bus service (WMATA Q9) Existing bus stops 	<p>WESTBOUND EASTBOUND</p>



Alternatives 4A and 4B

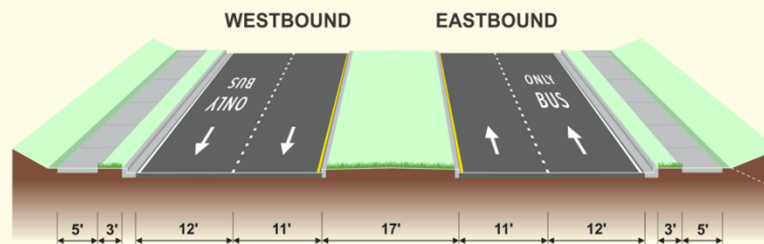
ALTERNATIVE 4A

- Dedicated bus lanes in median lane, entire length
- Dedicated lane developed by repurposing
- New BRT service
- New bus stations



ALTERNATIVE 4B

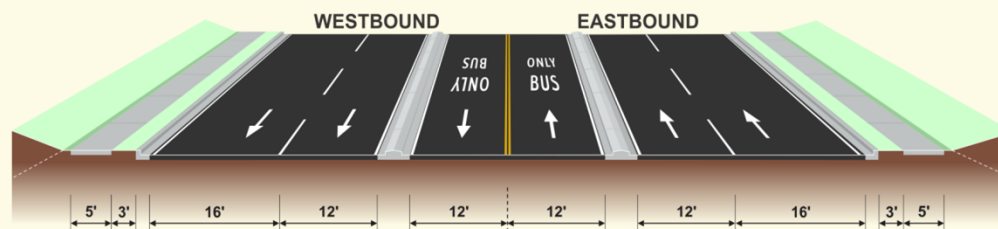
- Dedicated bus lanes in curb lane, entire length
- Dedicated lane developed by repurposing
- New BRT service
- New bus stations



Alternatives 4C and 4D

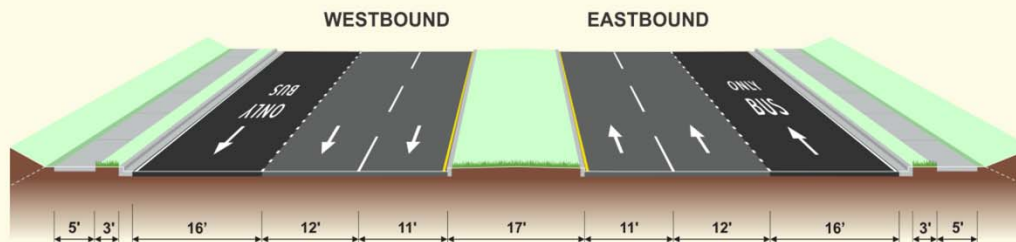
ALTERNATIVE 4C

- Dedicated bus lanes in median, entire length
- Bicycle-compatible curb lane
- New BRT service
- New bus stations



ALTERNATIVE 4D

- Dedicated bus lanes in curb lane, entire length
- Bicycle-compatible curb lane
- New BRT service
- New bus stations



Alternatives 5A, 5B, and 6

<p>ALTERNATIVE 5A</p> <ul style="list-style-type: none"> • BRT in reversible dedicated bus lane in median • Bicycle-compatible curb lane • New BRT service • New bus stations 	<p style="text-align: center;">WESTBOUND EASTBOUND</p> <p style="text-align: center;">ONLY BUS</p> <p style="text-align: center;">5' 3' 16' 12' 12' 12' 16' 3' 5'</p>
<p>ALTERNATIVE 5B</p> <ul style="list-style-type: none"> • BRT in bi-directional lane (A) and dedicated bus lanes (B) in median • Bicycle-compatible curb lane • New BRT service • New bus stations 	<p style="text-align: center;">A. East and West Ends of Study Limits B. Center of Study Limits</p> <p style="text-align: center;">WESTBOUND EASTBOUND WESTBOUND EASTBOUND</p> <p style="text-align: center;">ONLY BUS ONLY BUS</p> <p style="text-align: center;">5' 3' 16' 12' 12' 12' 16' 3' 5' 5' 3' 16' 12' 12' 12' 12' 16' 3' 5'</p>
<p>ALTERNATIVE 6</p> <ul style="list-style-type: none"> • Dedicated bus lanes in curb lane, where feasible • Bicycle-compatible curb lane • New BRT service • New bus stations 	<p style="text-align: center;">WESTBOUND EASTBOUND</p> <p style="text-align: center;">ONLY BUS ONLY BUS</p> <p style="text-align: center;">5' 3' 16' 12' 11' 17' 11' 12' 16' 3' 5'</p>



Alternatives Retained for Detailed Study

- **Alternative 1: No-Build**
- **Alternative 2: TSM/Queue Jumps**
- **Alternative 3: Enhanced bus service in dedicated lanes (where feasible)**
- **Alternative 5B: Bi-directional BRT in dedicated lane (with 2 median lanes where feasible)**
 - Includes a modification to run BRT in curb lanes at eastern and western ends of project limits



Public Involvement

- **January 2012: Project Initiation advertisement in local newspapers**
- **May 23, 2012: Purpose and Need Informational Open House**
 - Approximately 80 attendees
 - Generally attendees expressed support for the project
- **November 21, 2013: Alternatives Public Workshop**
 - Approximately 100 attendees
 - Generally attendees expressed support for the project



Questions

