

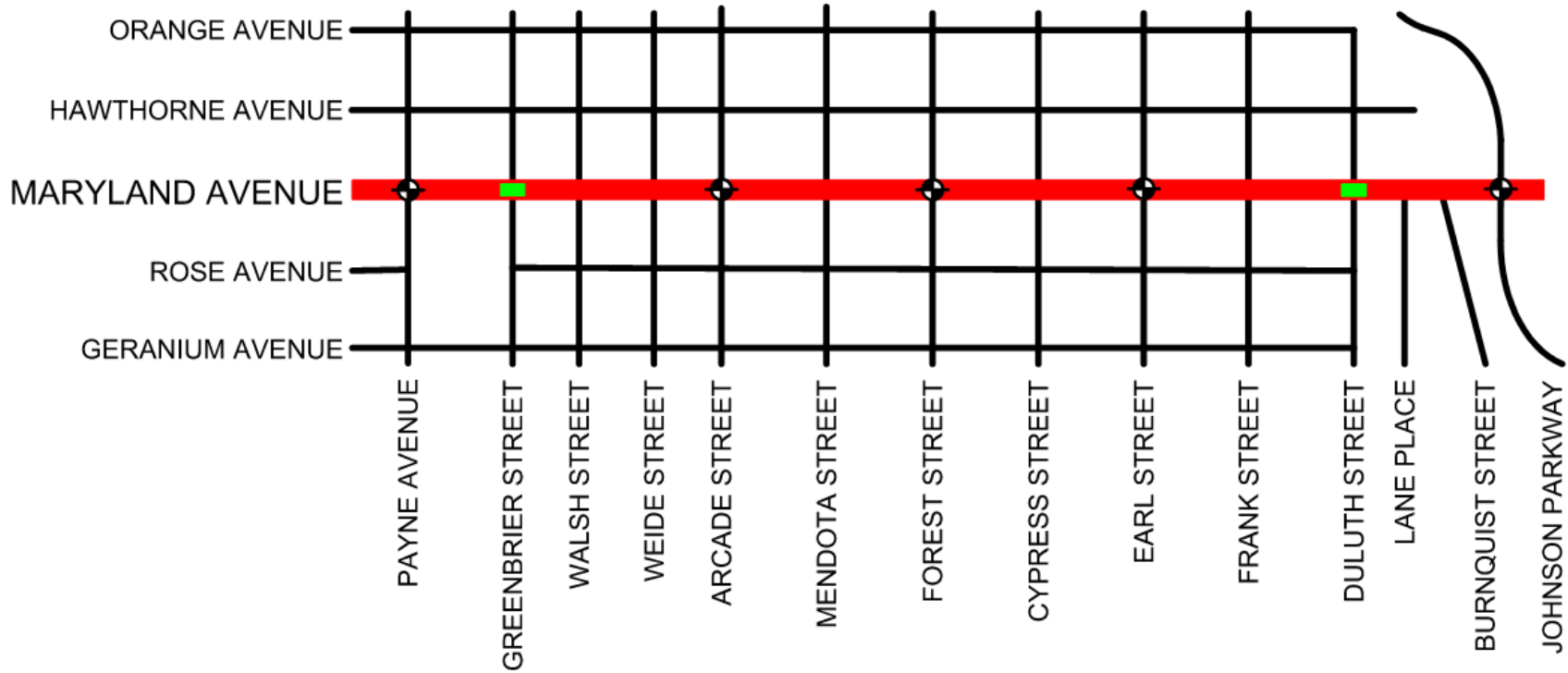
**RAMSEY COUNTY
MARYLAND AVE. TEST
PUBLIC MEETING
THURSDAY, SEPTEMBER 12, 2017
6:00 TO 7:30 PM**

MARYLAND AVENUE TEST 4 TO 3 LANE CONVERSION

TONIGHT'S PRESENTATION:

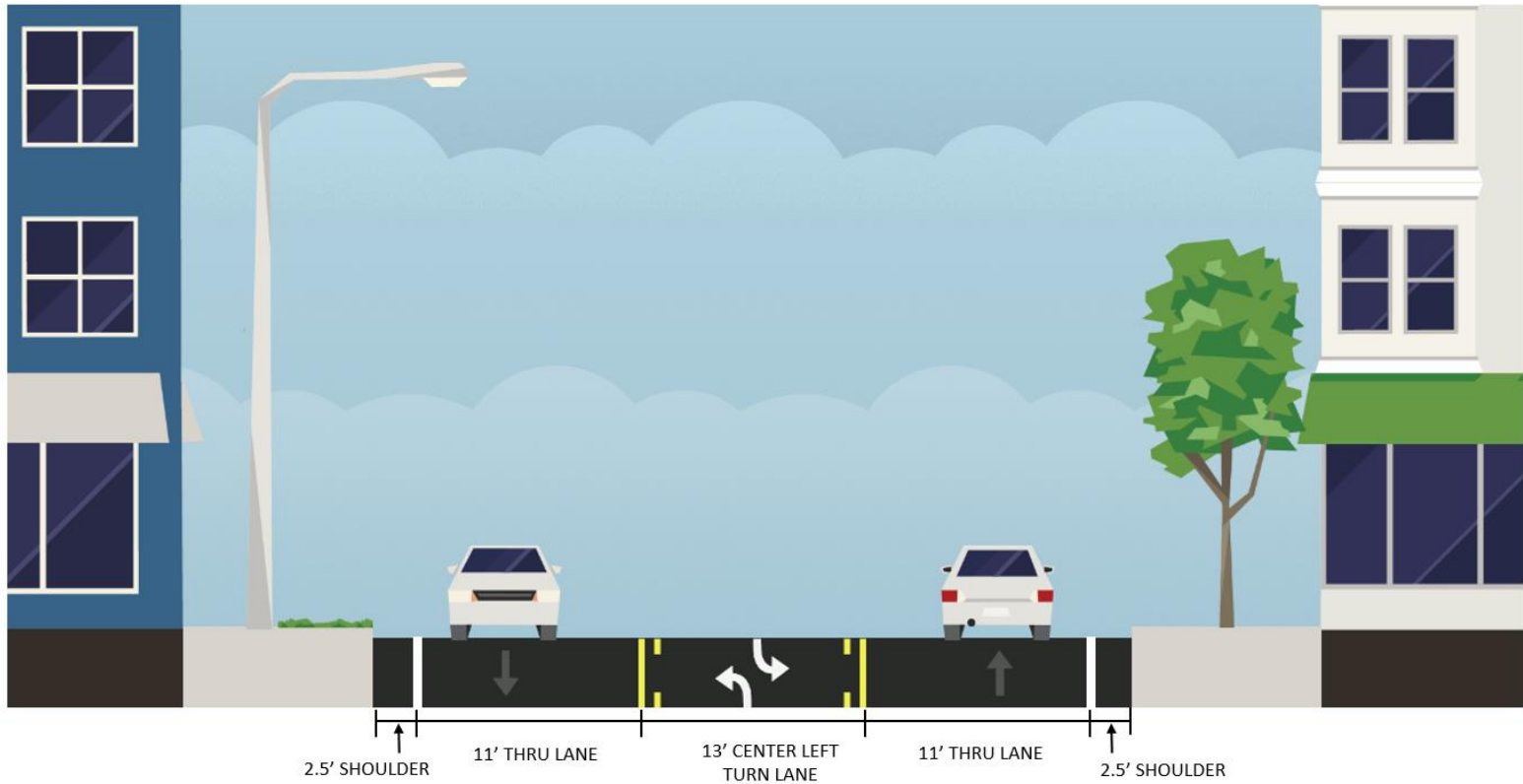
- ❖ BRIEF PROJECT REVIEW
 - ❖ PLAN MOVING FORWARD
 - ❖ WHAT WE LEARNED
 - ❖ WHAT WE NEED TO UNDERSTAND
 - ❖ QUESTIONS
-

PROJECT LIMITS



3 Lane Cross Section

MARYLAND AVENUE
PROPOSED 3 LANE WITH CENTER LEFT TURN LANE



PLAN MOVING FORWARD:

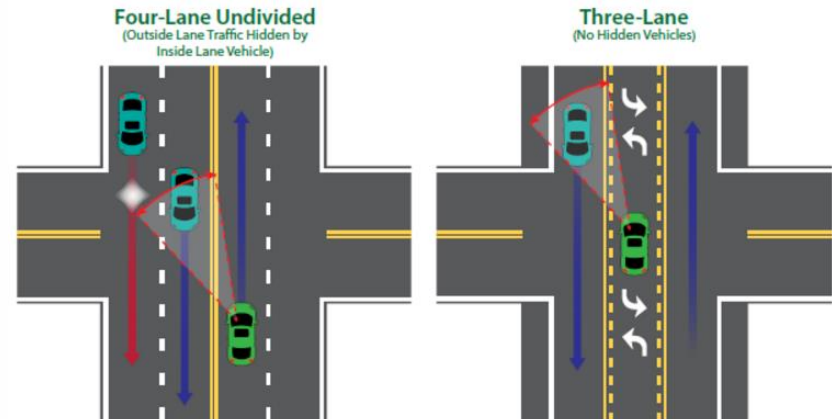


- ❖ 3 lane test section will be in place over the winter
 - ❖ No “catastrophic” problems with 3 lane
 - ❖ Need to study Maryland west of Payne
 - ❖ Expecting a reduction in traffic on Maryland due to Wheelock opening
- ❖ Mill and overlay will be completed in 2018
- ❖ Maryland will be studied more over the fall and winter

4 TO 3 LANE CONVERSION

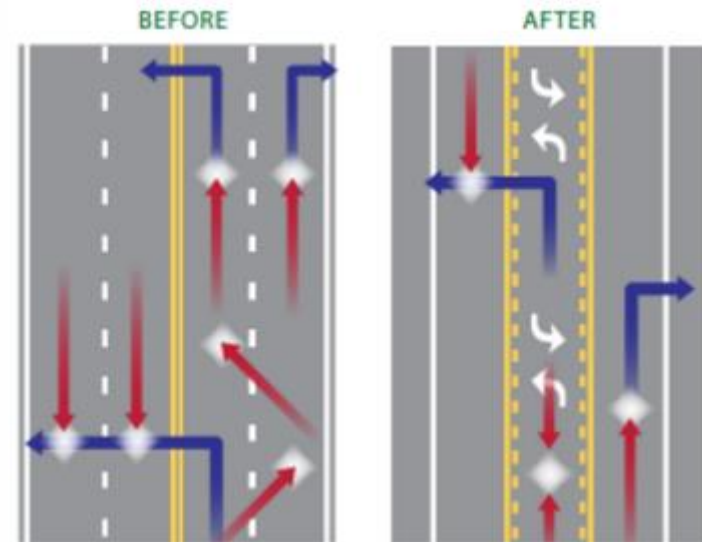
ADVANTAGES

- Crash severity reduced
- Reduced speed
- Improved ped crossing



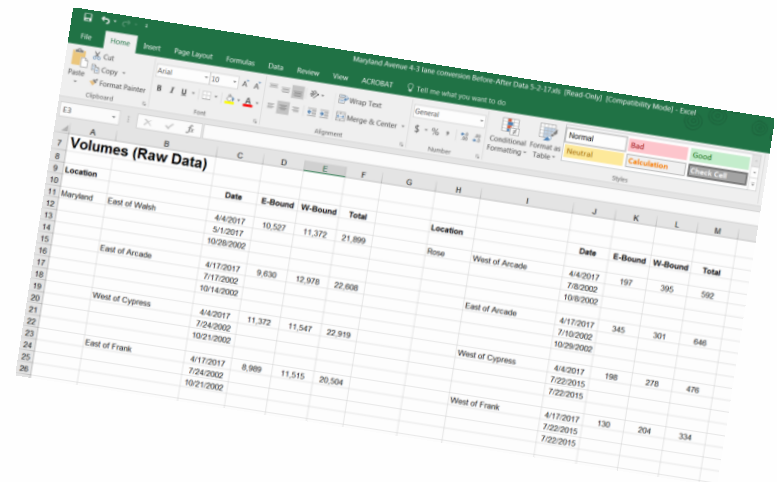
DISADVANTAGES

- Reduced capacity
- Less gaps in traffic
- Busses stop in through lane
- Traffic on side streets



Data Collection (before/after)

1. Survey/feedback from Community
2. Traffic Volumes – Maryland/other streets
3. Vehicle Speeds
4. Turning movements
5. Congestion
6. Crashes



Location	Date	E-Bound	W-Bound	Total	Location	Date	E-Bound	W-Bound	Total
East of Walsh	4/4/2017	10,527	11,372	21,899	West of Arcade	4/4/2017	197	395	592
	5/1/2017					7/8/2002			
	10/28/2002					10/8/2002			
East of Arcade	8/17/2017	9,630	12,978	22,608	East of Arcade	4/17/2017	345	301	646
	7/11/2002					7/10/2002			
	10/14/2002					10/29/2002			
West of Cypress	4/4/2017	11,372	11,547	22,919	West of Cypress	4/4/2017	198	278	476
	7/24/2002					7/22/2015			
	10/21/2002					7/22/2015			
East of Frank	4/17/2017	8,989	11,515	20,504	West of Frank	4/17/2017	130	204	334
	7/24/2002					7/22/2015			
	10/21/2002					7/22/2015			

COMMUNITY FEEDBACK:



- ❖ Online comment section on project page at ramseycounty.us (585 comments)
- ❖ Online survey after project implemented (813 users)
- ❖ Popup truck at Arlington Library and Golden Harvest (230 comments)
- ❖ TOTAL = 1628 comments
- ❖ Approximate even split of comments supporting and opposing test.



FEEDBACK THEMES IDENTIFIED:



SUPPORTING THEMES:

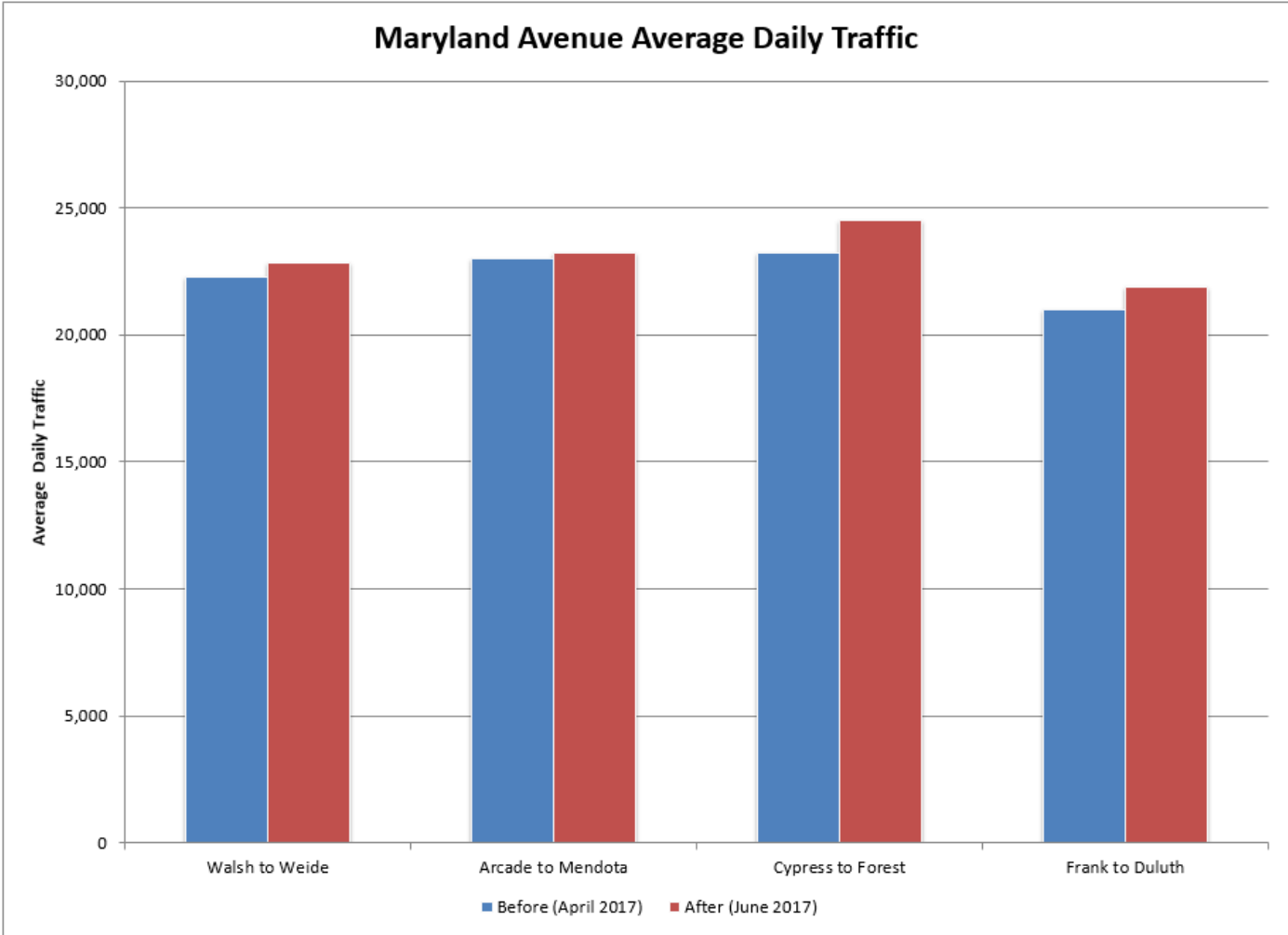
- ❖ SAFER PEDESTRIAN CROSSINGS
- ❖ SAFER FOR BICYCLISTS
- ❖ SLOWER SPEEDS
- ❖ MORE COMFORTABLE DRIVING ENVIRONMENT
- ❖ SAFER ROAD FOR DRIVERS



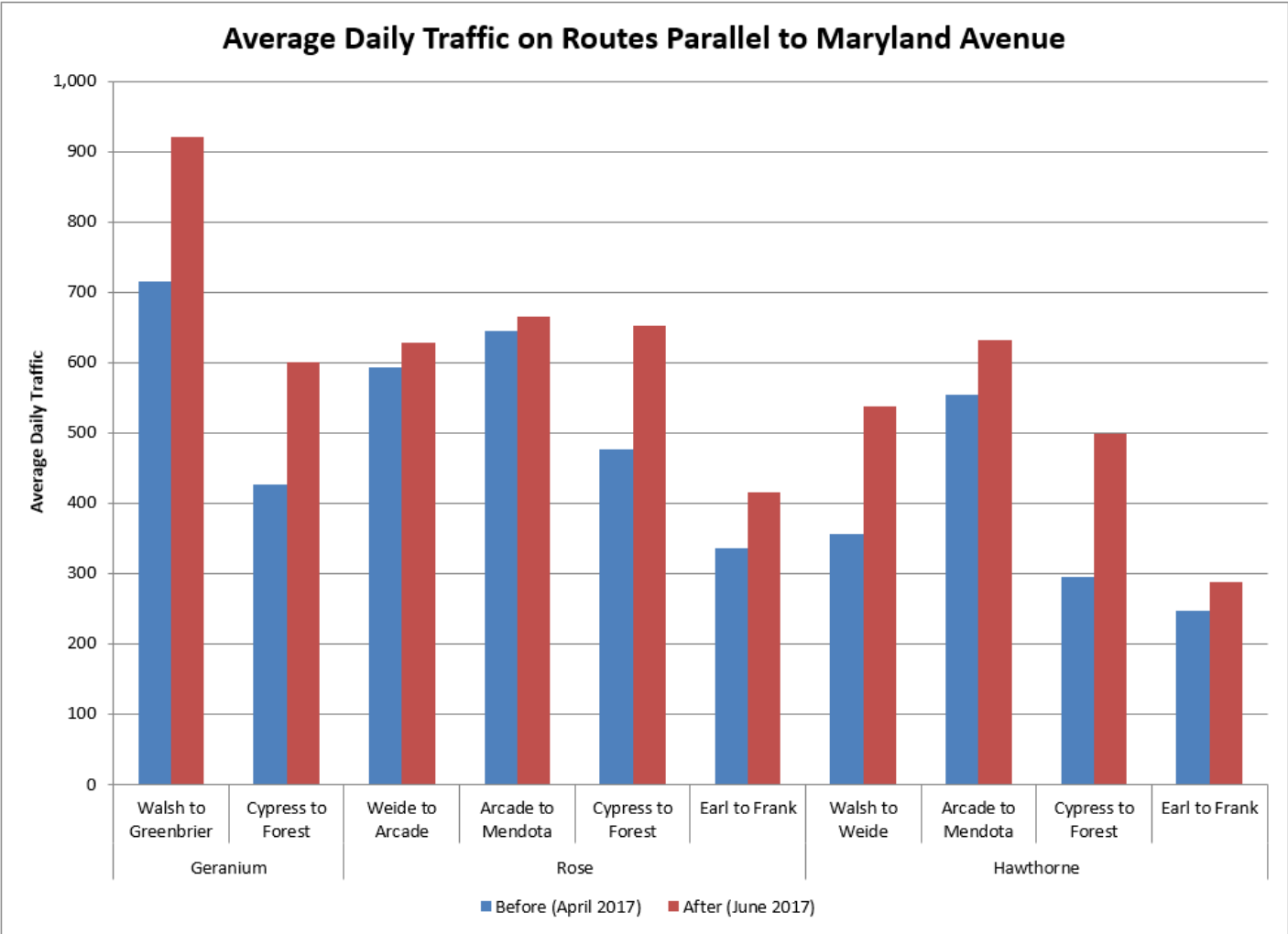
OPPOSING THEMES:

- ❖ INCREASED CONGESTION
- ❖ LESS GAPS IN TRAFFIC
- ❖ DIFFICULT TO TURN LEFT
- ❖ TRAFFIC DIVERTED TO SIDE STREETS

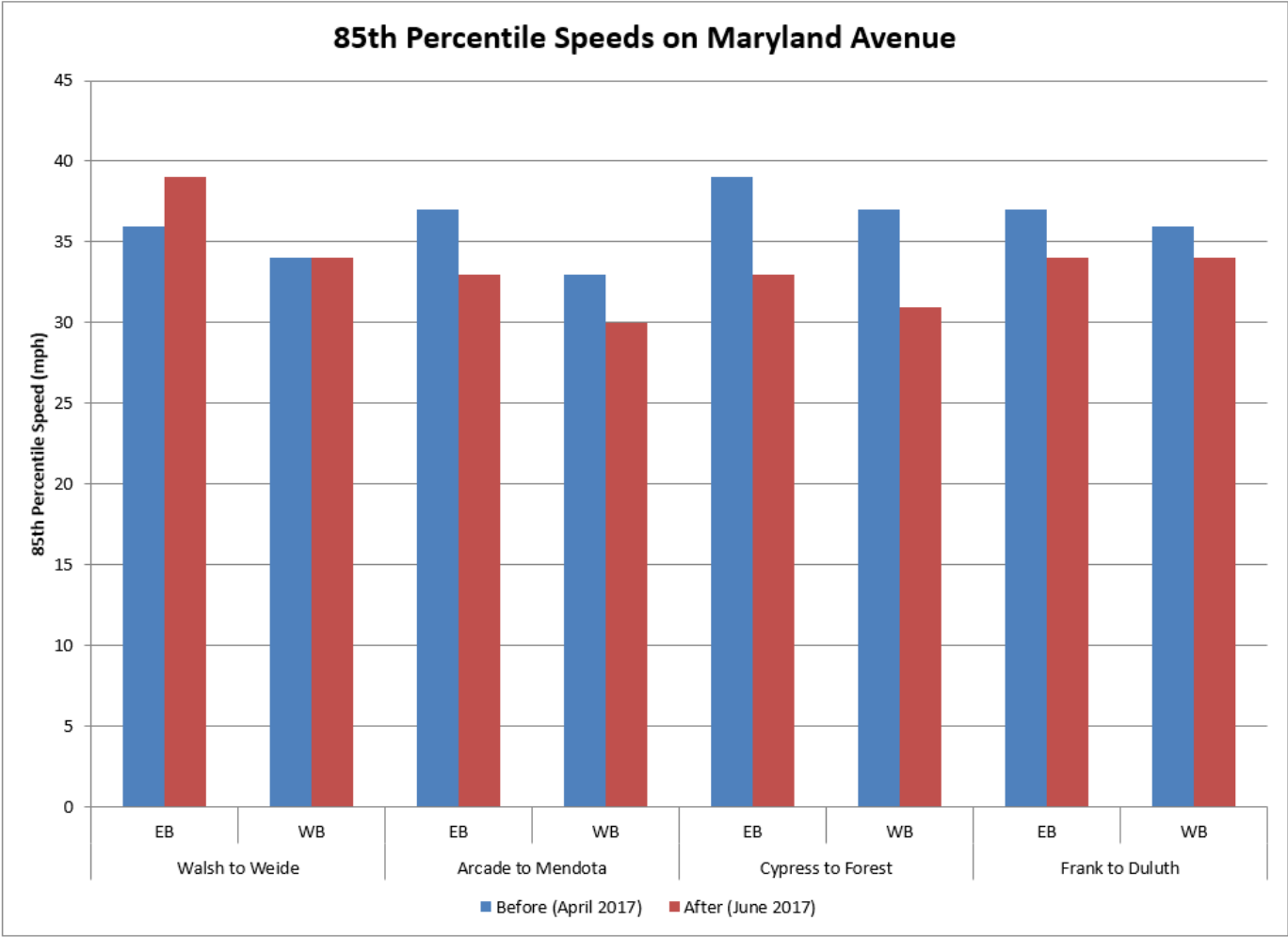
TRAFFIC VOLUMES ON MARYLAND



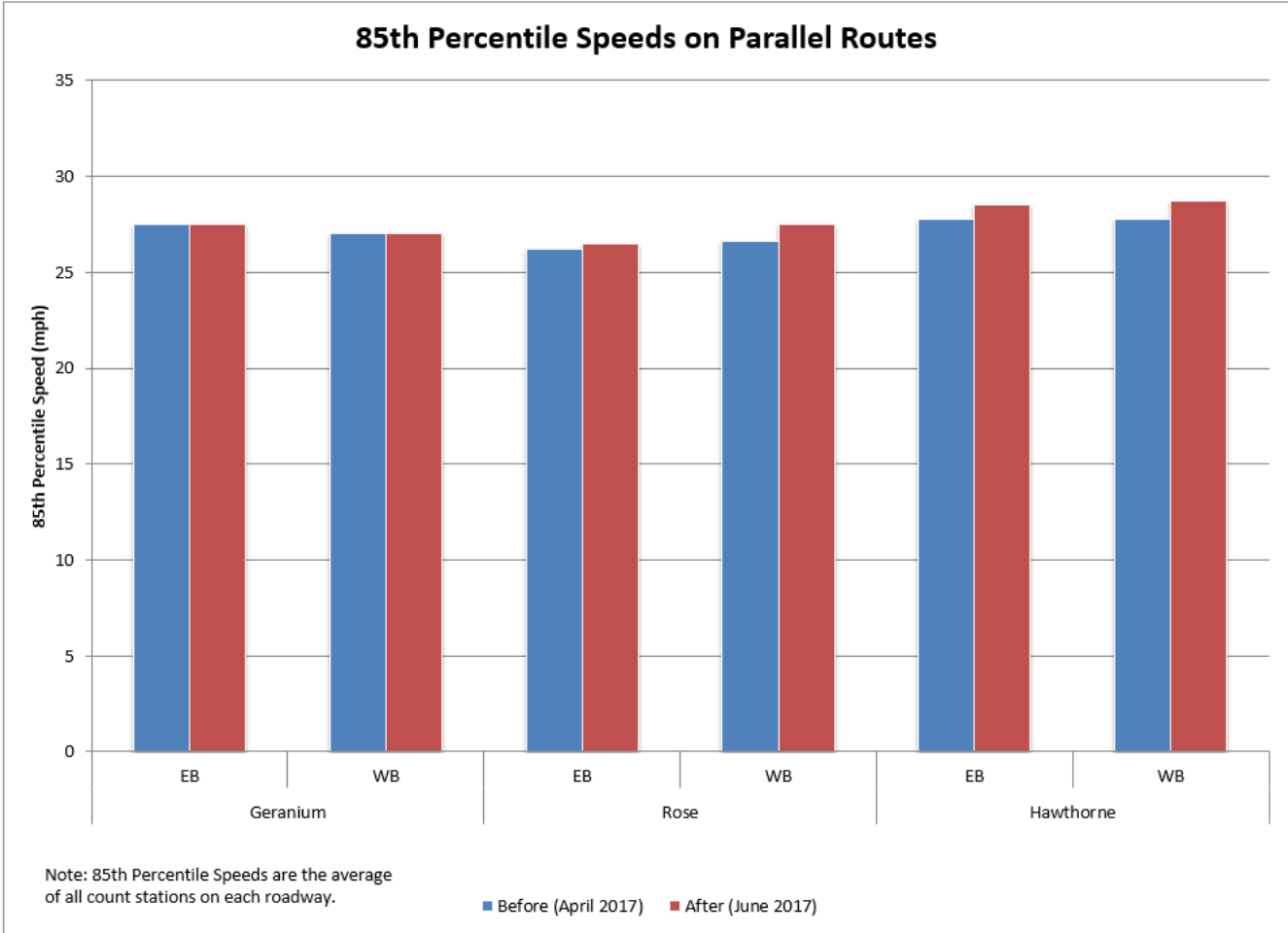
TRAFFIC VOLUMES ON PARALLEL STREETS



TRAFFIC SPEEDS ON MARYLAND



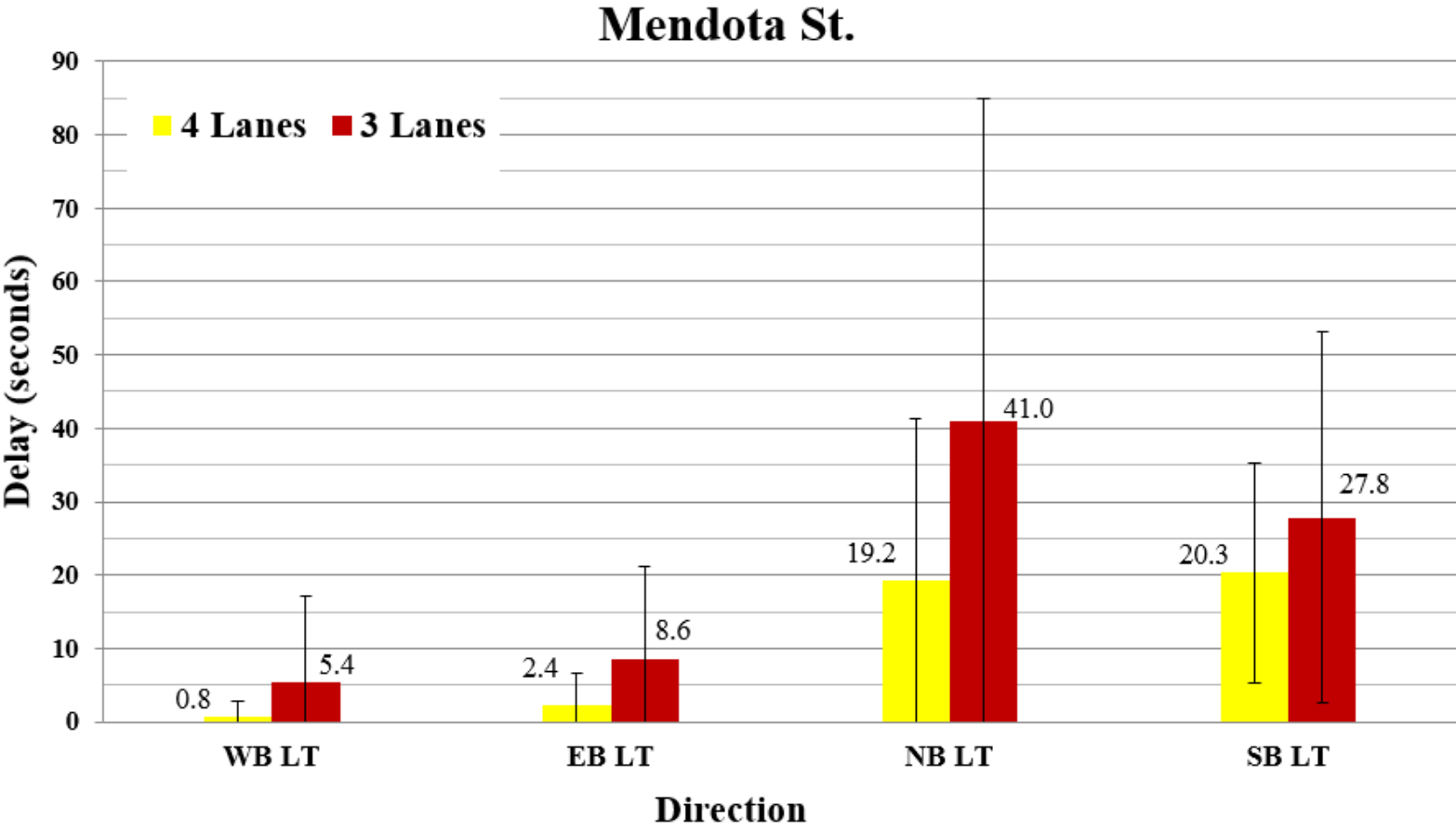
TRAFFIC SPEEDS ON PARALLEL ROADS



TURNING MOVEMENTS

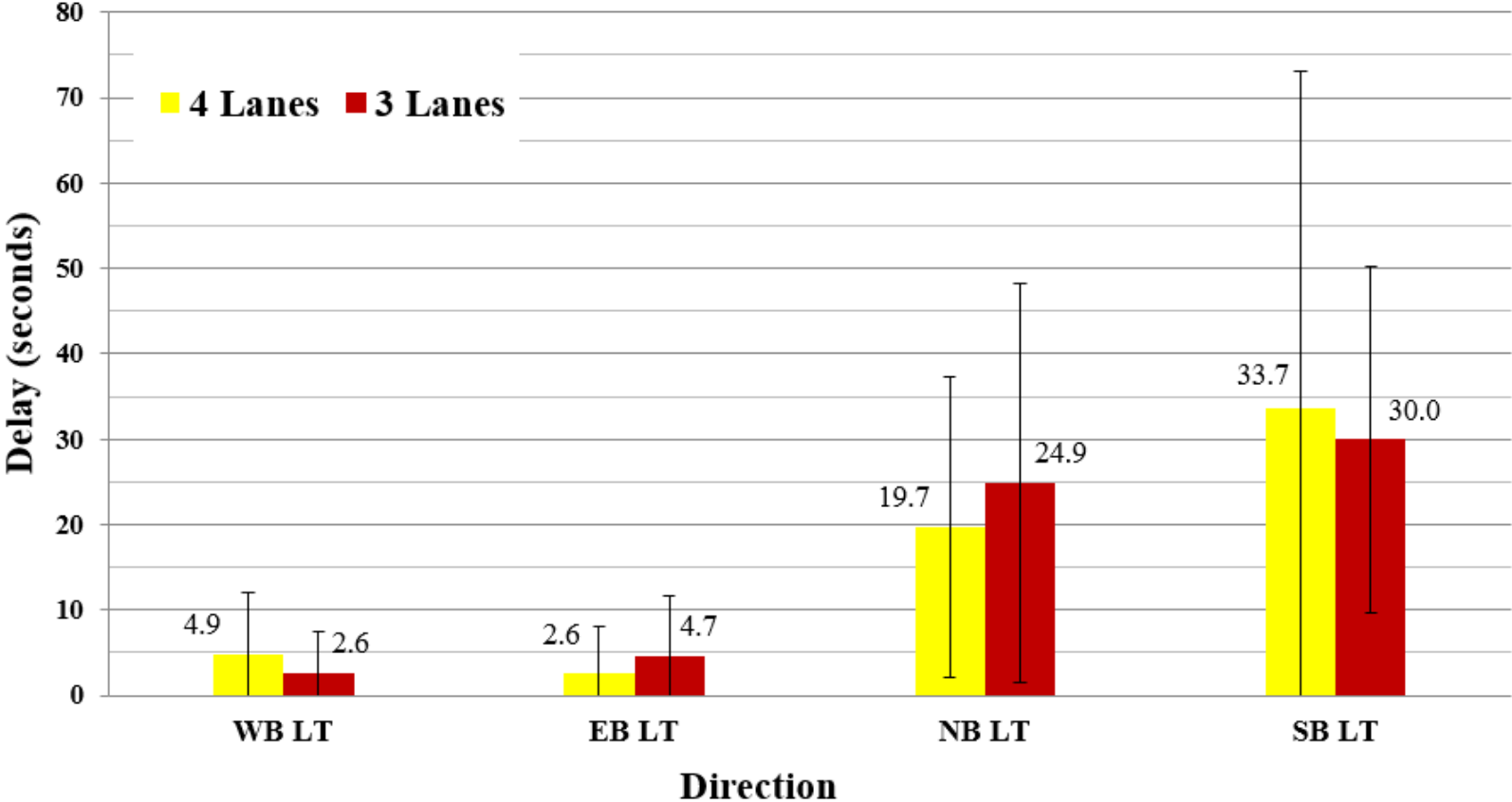
- ❖ Weide Street AM counts – southbound rights increased from **12 to 42** in peak hour
- ❖ Greenbrier Street PM counts – southbound rights increased from **10 to 27** in peak hour
- ❖ Frank Street PM counts – westbound lefts increased from **9 to 41** in peak hour

DELAY TURNING LEFT



DELAY TURNING LEFT

Walsh St.



ACCIDENTS

1. Summary of crashes on Maryland Ave (June 1st – September 5th)

Year	2016	2017
Number of crashes	27	22
Crash Type	Left turn: 9 (33.3 %)	Left turn: 2 (9.1 %)
	Rear Ends: 5 (18.5 %)	Rear Ends: 12 (54.5 %)
	Pedestrian: 1 (3.7 %)	Pedestrian: 0 (0.0 %)
Severity	Property Damage: 20 (74.1 %)	Property Damage: 18 (81.8 %)
	Personal Injury: 7 (25.9 %)	Personal Injury: 4 (18.2 %)

TRAVEL TIMES

1. Comparison between 4 lanes (Before) and 3 lanes (After)

Direction	Time	Travel time ¹⁾ (Seconds)		
		4 lanes	3 Lanes	Change
EB	AM Peak ³⁾	204.0	218.8	+ 7.3 %
	Mid-Day ⁴⁾	213.1	236.9	+ 11.1 %
	PM Peak ⁵⁾	225.0	291.0	+ 29.3 %
WB	AM Peak ³⁾	211.7	263.8	+ 24.6 %
	Mid-Day ⁴⁾	213.8	243.7	+ 14.0 %
	PM Peak ⁵⁾	255.4	288.5	+ 13.0 %

1) Travel time between Edgerton St and Johnson Pkwy

PEDSTRIANS



- ❖ Greenbrier and Duluth have highest pedestrian counts (PM 20 to 30 peds crossing in 1 hour)
- ❖ Medians do provide a safety feature
- ❖ 3 lane eliminates double threat present with a 4 lane road



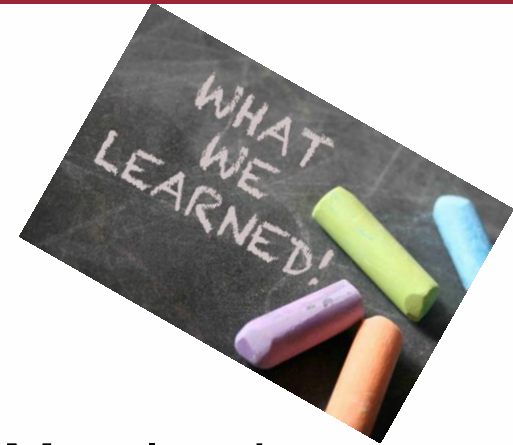
BUS STOPS

- ❖ Bus stops create back ups.
- ❖ Metro Transit's schedule has not been impacted



WHAT WE LEARNED :

- ❖ Congestion on Maryland occurs Arcade
 - ❖ 3 lane operates effectively east of Arcade
- ❖ Wheelock closures have increased traffic on Maryland
 - ❖ Will traffic decrease significantly once Wheelock open?
- ❖ Difficult making left turn onto and off of Maryland
- ❖ Metro Transit's schedule has not been impacted
- ❖ 3 lane road safer for pedestrians
- ❖ 3 lane is more comfortable to drive
- ❖ Accidents tend to be less severe in 3 lane section



WHAT WE NEED TO UNDERSTAND:



- ❖ How will Maryland function at Arcade when Wheelock is open?
- ❖ How far west is a 3 lane appropriate?
 - ❖ Maryland & Edgerton reconstruction scheduled for 2019
 - ❖ Traffic increases toward 35E
 - ❖ Ramsey County will collect additional data and study Payne to Arkwright this winter

PLANS TO PROCEED:



- ❖ Mill & Overlay from Greenbrier to Johnson Parkway delayed until 2018
- ❖ Maryland will be studied over winter to determine extents west of Arcade for a 3 lane
- ❖ Additional information to be provided in Spring of 2018 at a public meeting

QUESTIONS?



Additional information at: www.ramseycounty.us/marylandave

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