Route 206 Corridor Study *PFARS Site*

July 8, 2019







Purpose of Study

- -Improve peak hour traffic flow
- -Reduce traffic congestion
- -Short-term and long-term recommendations
- -Improve pedestrian mobility and safety





Problem Statement

- -Impact due to closure of Terhune Road
- -Change in traffic patterns
- -Impact of Cherry Valley Road closure for construction





Summary of Traffic Study

- -Traffic queues during the morning and afternoon peaks
- -Traffic counts
- -Intersection capacity analysis





Traffic Count Locations: Intersection Counts TMC Location 7 Jefferson Rd US 206 at Mountain Ave 1 US 206 at Valley Rd 2 US 206 at Cherry Hill Rd 3 Valley Rd at Witherspoon St 4 Terhune Rd at Witherspoon St 5 Cherry Hill Rd at Mount Lucas Rd 6 North Jefferson Rd at Laurel Rd 7 Princeton Jefferson Rd at Mount Lucas Rd 8 36 Princeton Community 1,500 Feet 750 AVE





7:30 a.m.

No Queue







7:45 a.m.

0.30 miles







8:00 a.m.

0.50 mi.







8:15 a.m.

0.56 mi.

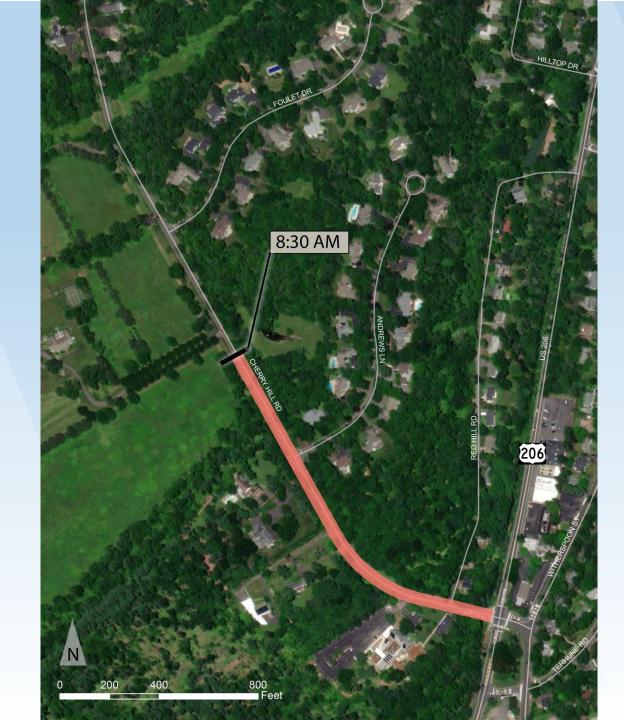






8:30 a.m.

0.30 mi.







8:45 a.m.

No Queue







7:30 a.m.

No Queue







7:45 a.m.

275 feet (0.05 mi.)







8:00 a.m.

300 feet (0.06 mi.)







8:15 a.m.

550 feet 0.10 mi.







8:30 a.m.

450 feet 0.09 mi.







8:45 a.m.

No Queue







4:30 p.m.

25'







4:45 p.m.

175'







5:00 p.m.

425' (0.08 mi.)







5:15 p.m.

175'







5:30 p.m.

No Queue

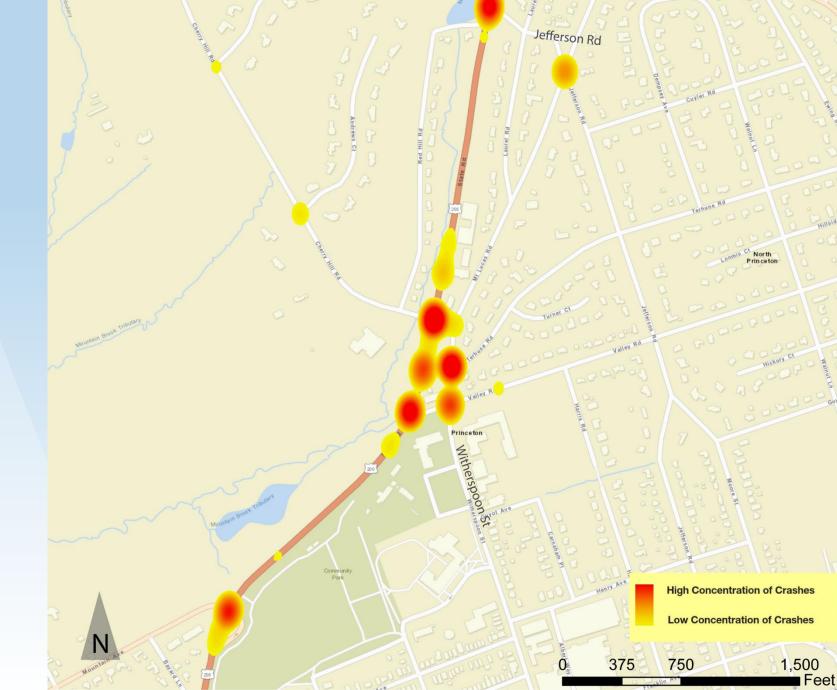






Crash Hotspots (2013-2018)

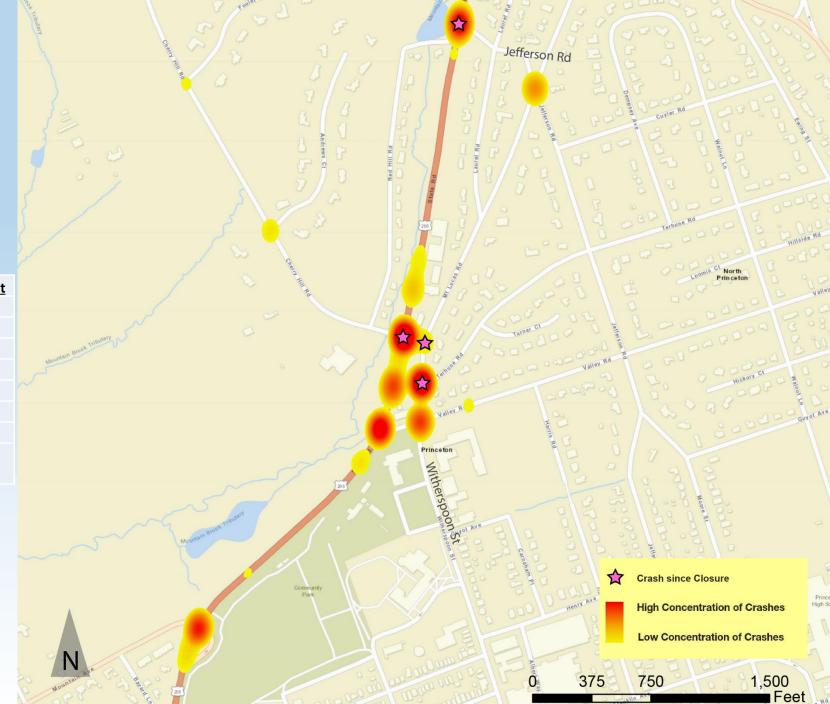
<u>Year</u>	Total Crashes
2013	23
2014	31
2015	21
2016	38
2017	33
2018	50





Crash Hotspots (2013-2019)

<u>Year</u>	Crashes in Study Area	Total Princeton Crashes	<u>Percent</u>
2013	23	741	3.1%
2014	31	881	3.5%
2015	21	691	3.0%
2016	38	770	4.9%
2017	33	795	4.2%
2018	50	748	6.7%
Average	33	771	4.2%
2019 (6 months)	4		





Intersection Analysis & Alternatives







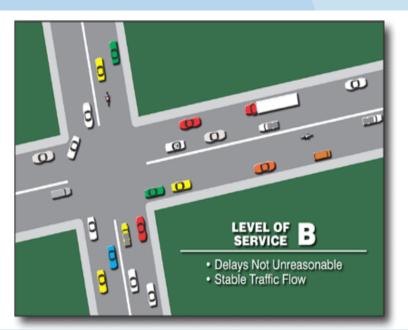


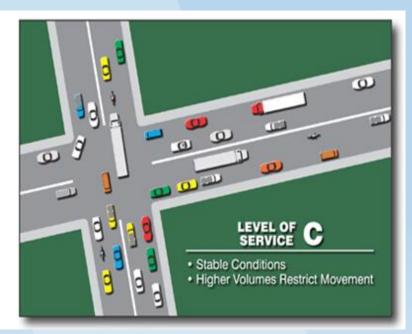


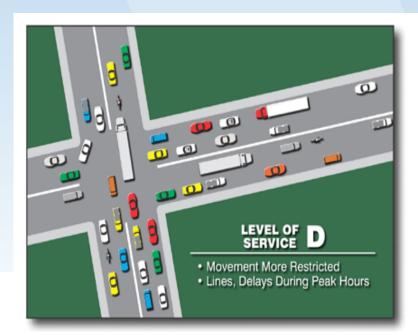


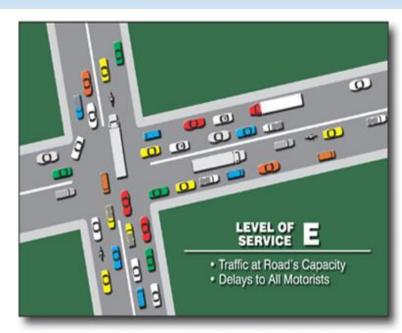


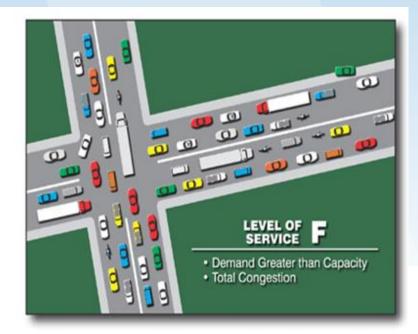


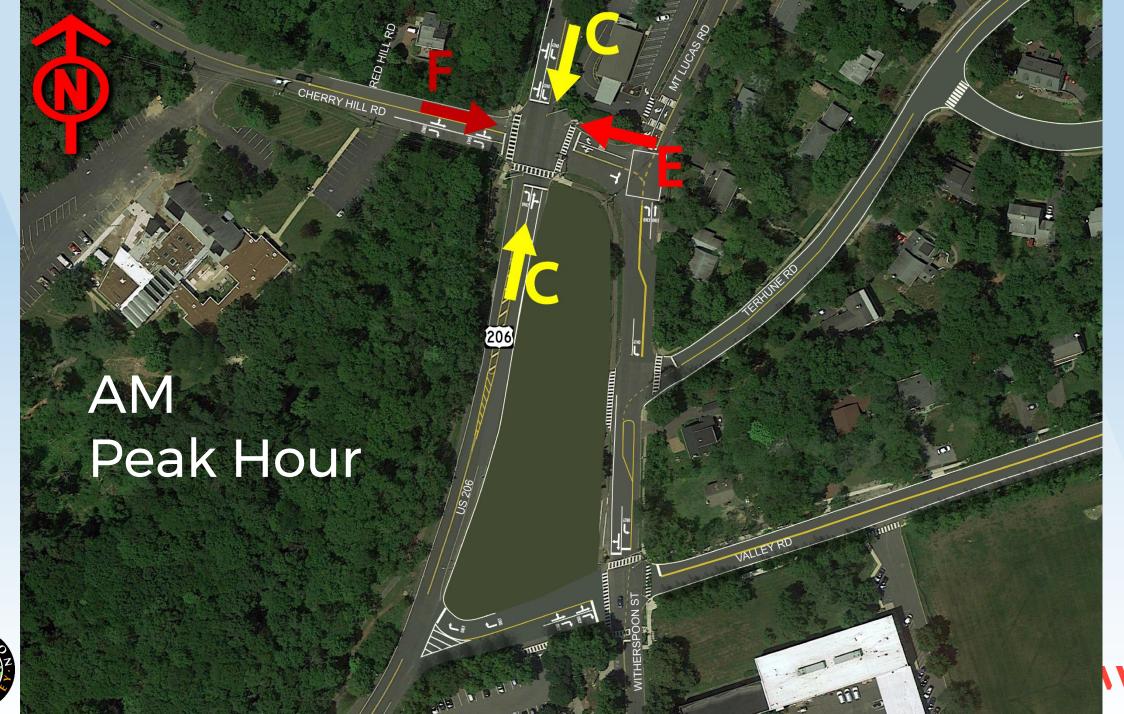




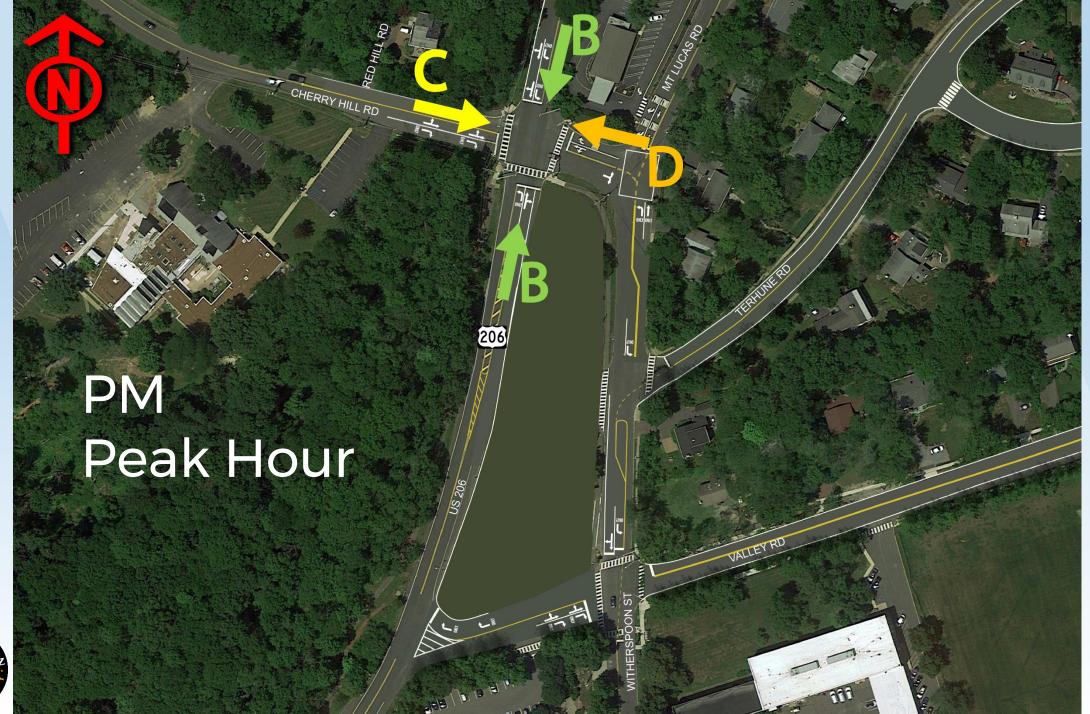






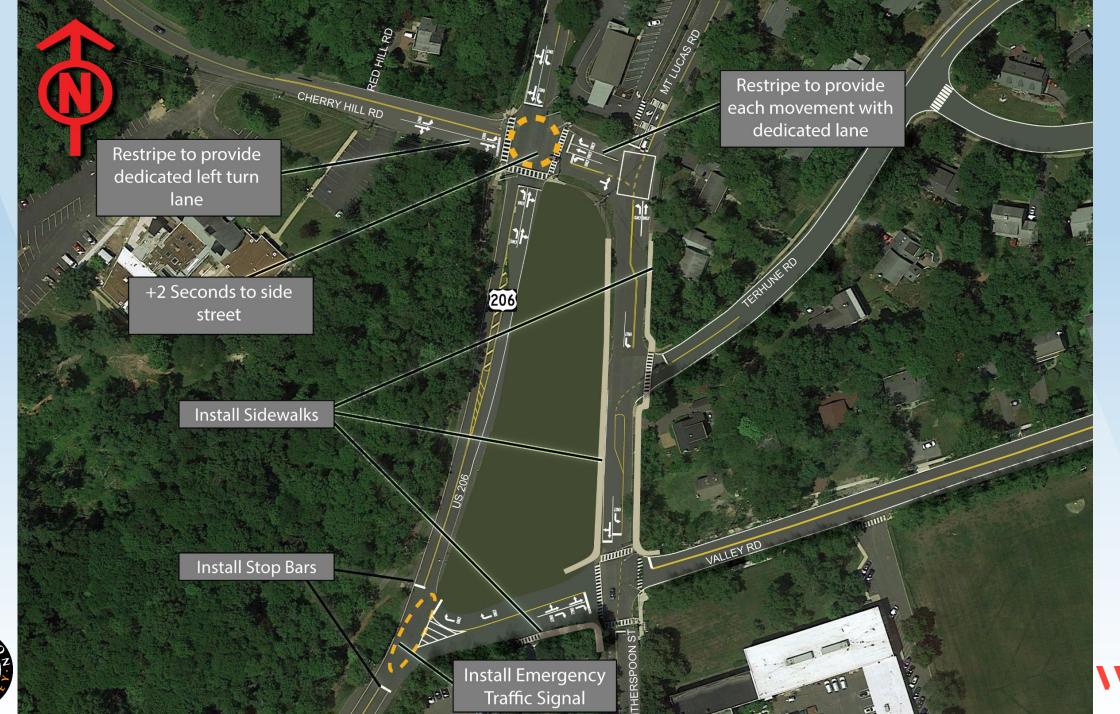




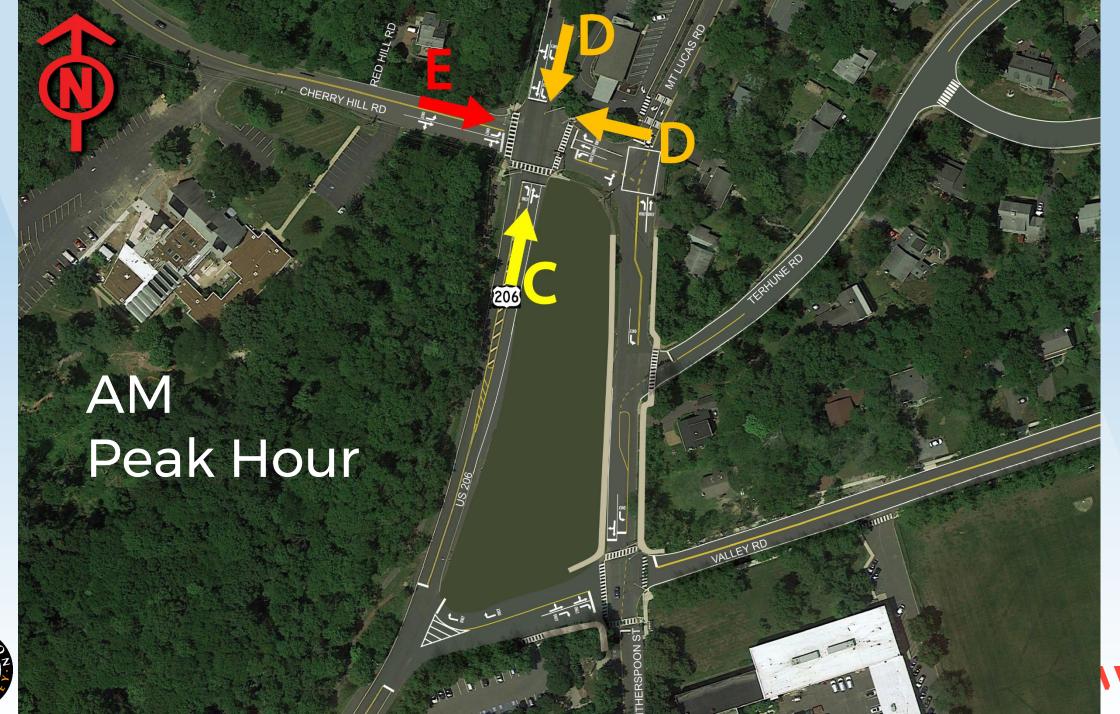




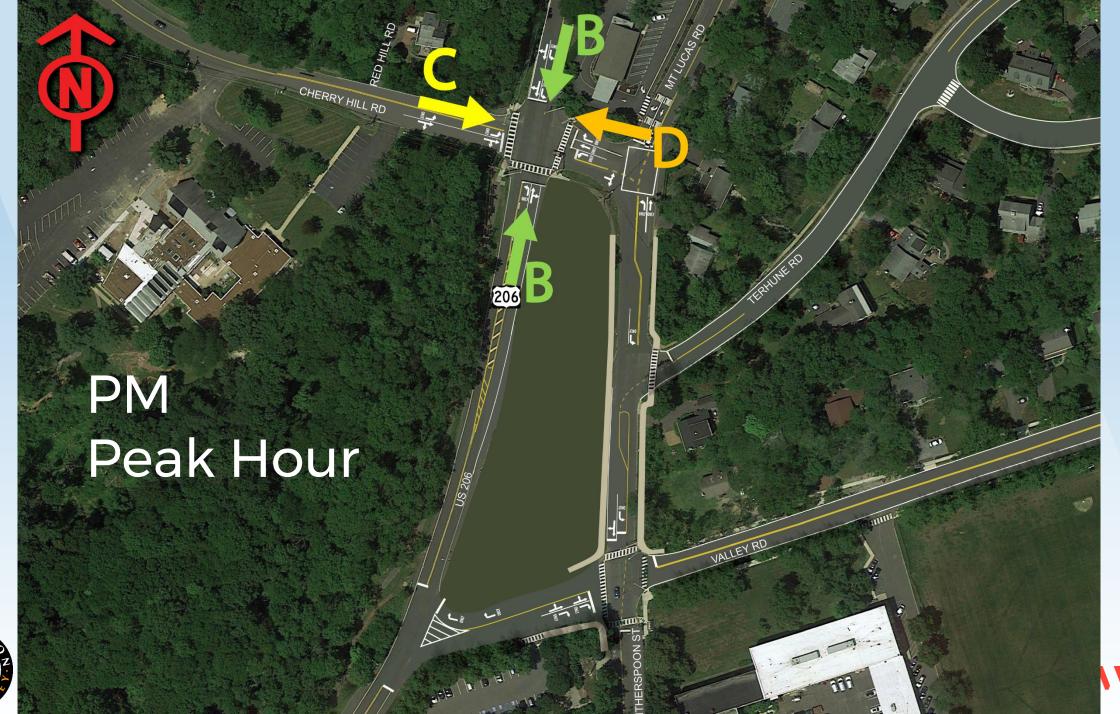










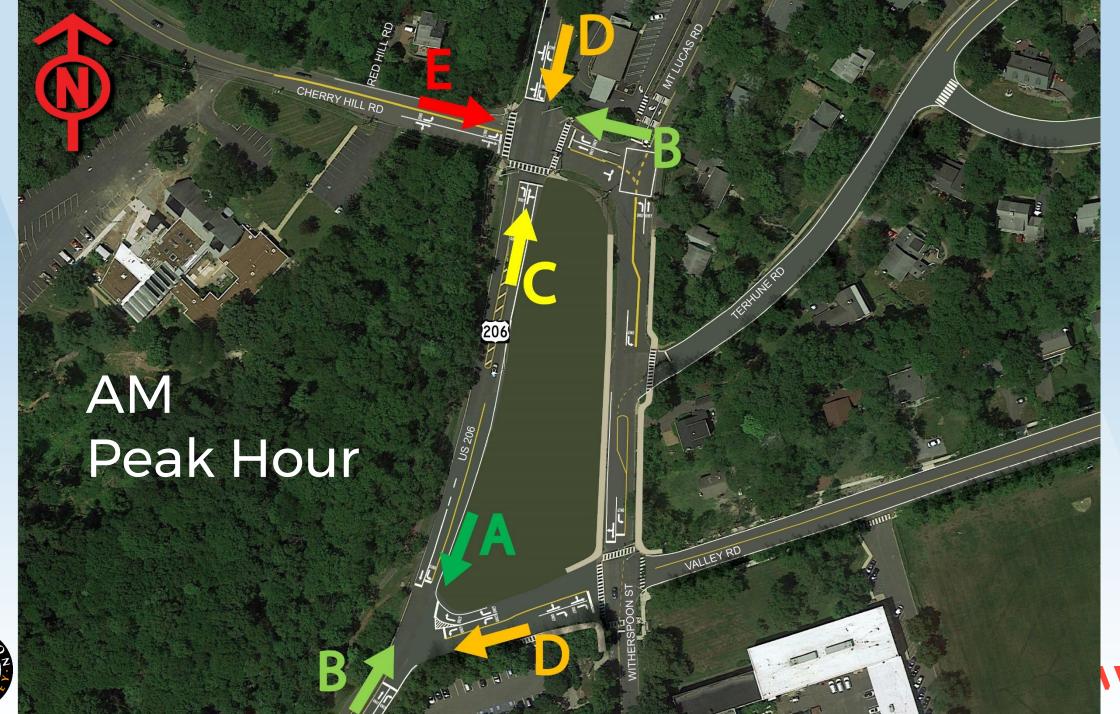




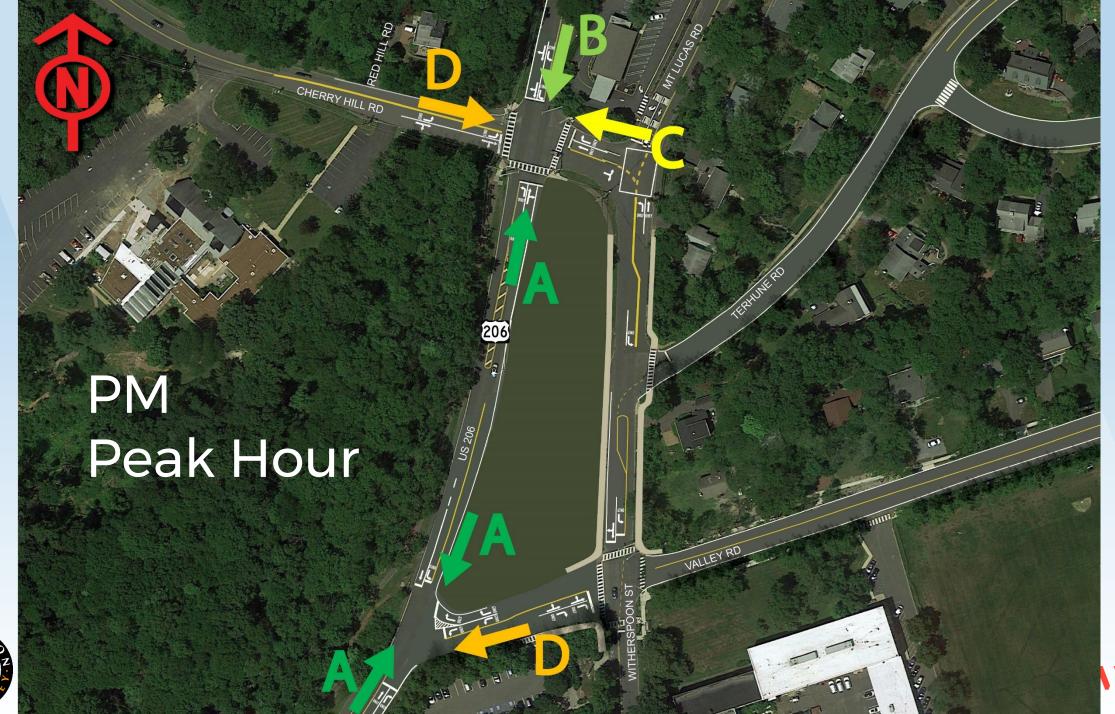










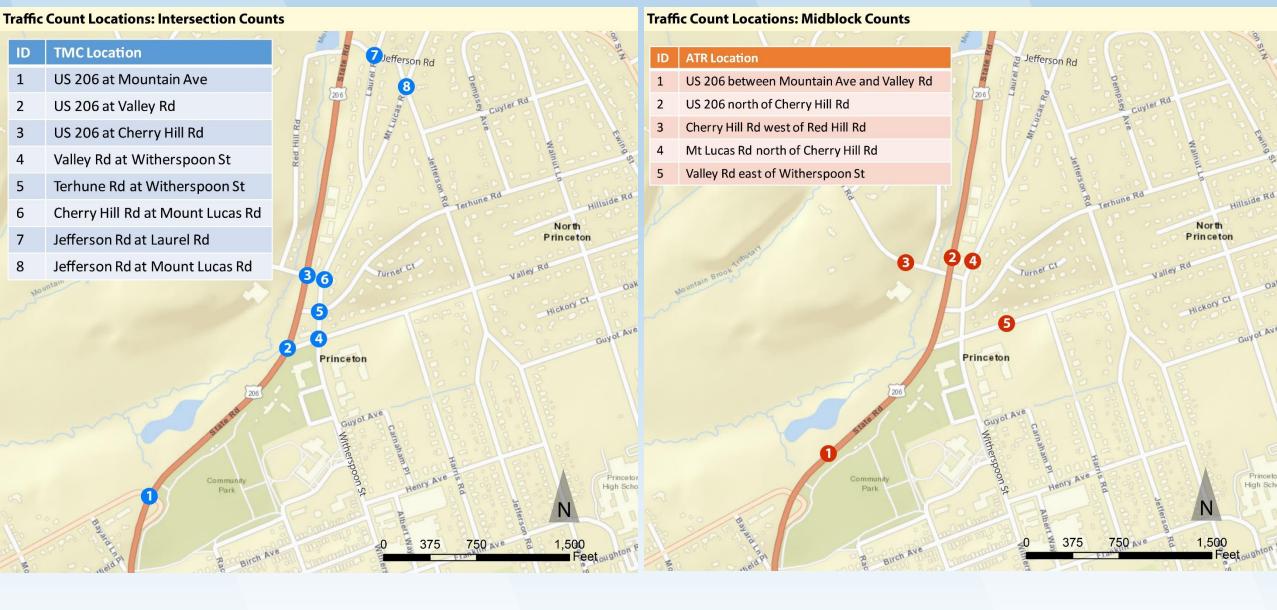




Questions?











EB Cherry Hill Rd Queueing

	Cherry Hill Rd Eastbound approaching US 206			
AM Peak	Vehicles Cleared	Additional Vehicles Queued	Estimated Queue Length (feet)	
6:45:00 AM	4	0	0	
7:00:00 AM	7	0	0	
7:15:00 AM	11	0	0	
7:30:00 AM	7	0	0	
7:45:00 AM	10	63*	1575	
8:00:00 AM	10	106*	2650	
8:15:00 AM	10	119*	2975	
8:30:00 AM	10	63*	1575	
8:45:00 AM	12	0	0	
9:00:00 AM	9	0	0	
9:15:00 AM	-	-	_	
PM Peak	Vehicles Cleared	Additional Vehicles Queued	Estimated Queue Length (feet)	
4:30:00 PM	6	0	0	
4:45:00 PM	8	0	0	
5:00:00 PM	5	0	0	
5:15:00 PM	5	0	0	
5:30:00 PM	5	0	0	
5:45:00 PM	9	0	0	
6:00:00 PM	7	0	0	
6:15:00 PM	6	0	0	
*Estimated	*Estimated queue derived from total queue length divided by 25ft			

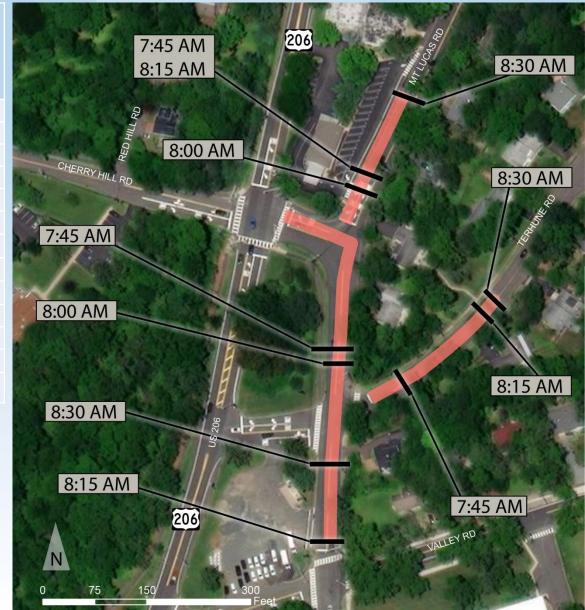


WB Cherry Hill Rd Queueing - AM Peak

Cherry Hill Rd Westbound approaching US 206 (Includes Queueing along NB Mt. Lucas Rd/Witherspoon St)

	•		
AM Peak	Vehicles Cleared	Additional Vehicles Queued	Estimated Queue Length (feet)
6:45:00 AM	-	-	-
7:00:00 AM	-	-	-
7:15:00 AM	-	+	-
7:30:00 AM	11	0	0
7:45:00 AM	16	11*	275
8:00:00 AM	13	12*	300
8:15:00 AM	25	22*	550
8:30:00 AM	21	18*	450
8:45:00 AM	4	0	0
9:00:00 AM	5	0	0
9:15:00 AM	7	0	0

^{*}Estimated queue derived from total queue length divided by 25ft





WB Cherry Hill Rd Queueing - PM Peak

Cherry Hill Rd Westbound approaching US 206 (Includes Queueing along NB Mt. Lucas Rd/Witherspoon St)

PM Peak	Vehicles Cleared	Additional Vehicles Queued	Estimated Queue Length (feet)
4:30:00 PM	12	1*	25
4:45:00 PM	16	7*	175
5:00:00 PM	23	17*	425
5:15:00 PM	18	7*	175
5:30:00 PM	12	0	0
5:45:00 PM	7	0	0
6:00:00 PM	-	+	-
6:15:00 PM	-	-	-

^{*}Estimated queue derived from total queue length divided by 25ft





