



# Steering Committee Meeting



April 25, 2023



# Lower Winchester Street Reconstruction Project



1. Call to Order / Chairman's Remarks
2. Roll Call
3. Approval of Minutes from February 28, 2023
4. Traffic Projections
  - Background Growth
  - Resultant Demand
5. Alternatives Development
  - Corridor Alternatives
  - Intersection Alternatives
  - Pedestrian Alternatives
6. Project Schedule
7. Questions & Answers
8. Adjourn

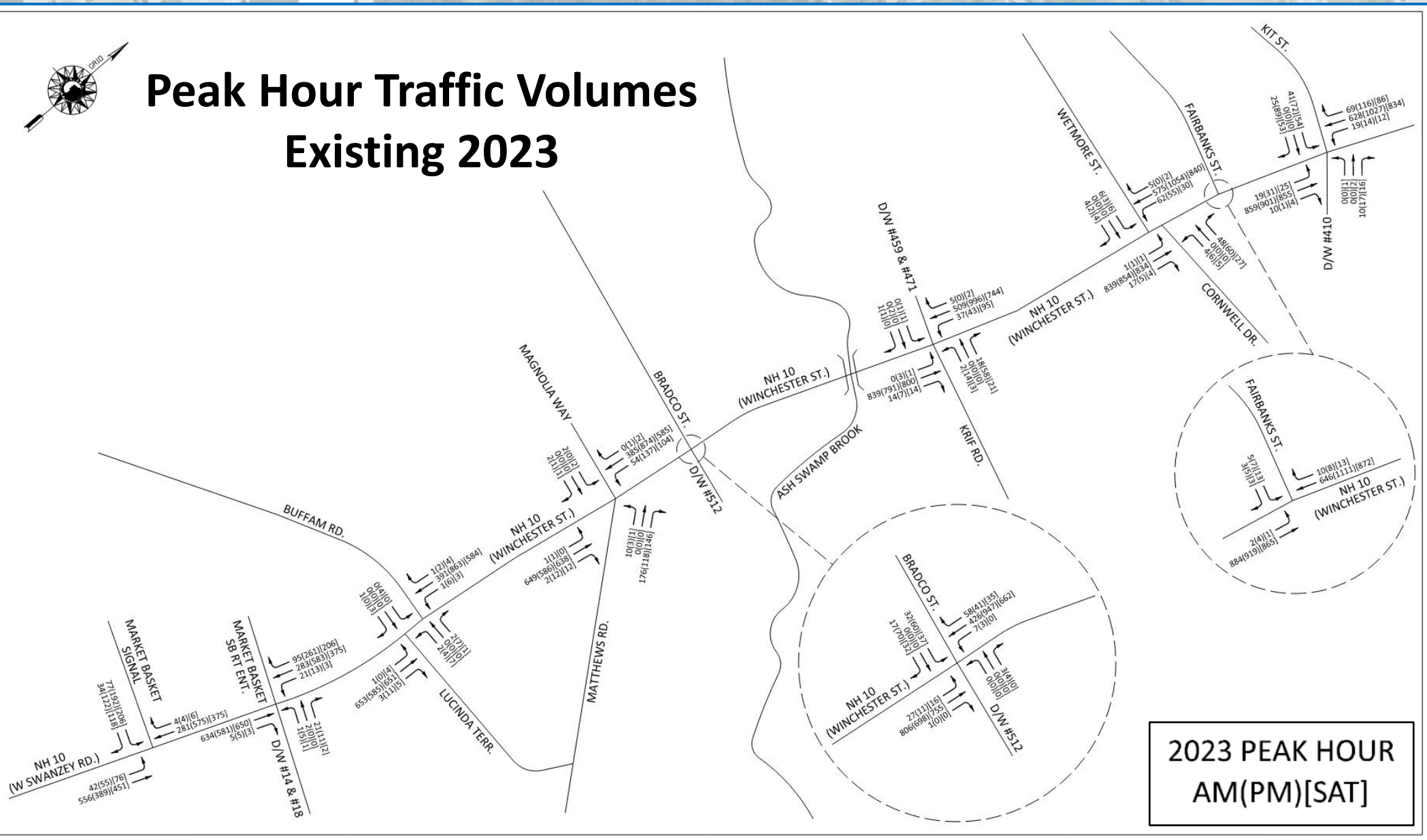
**AGENDA**



# Lower Winchester Street Reconstruction Project



## Peak Hour Traffic Volumes Existing 2023

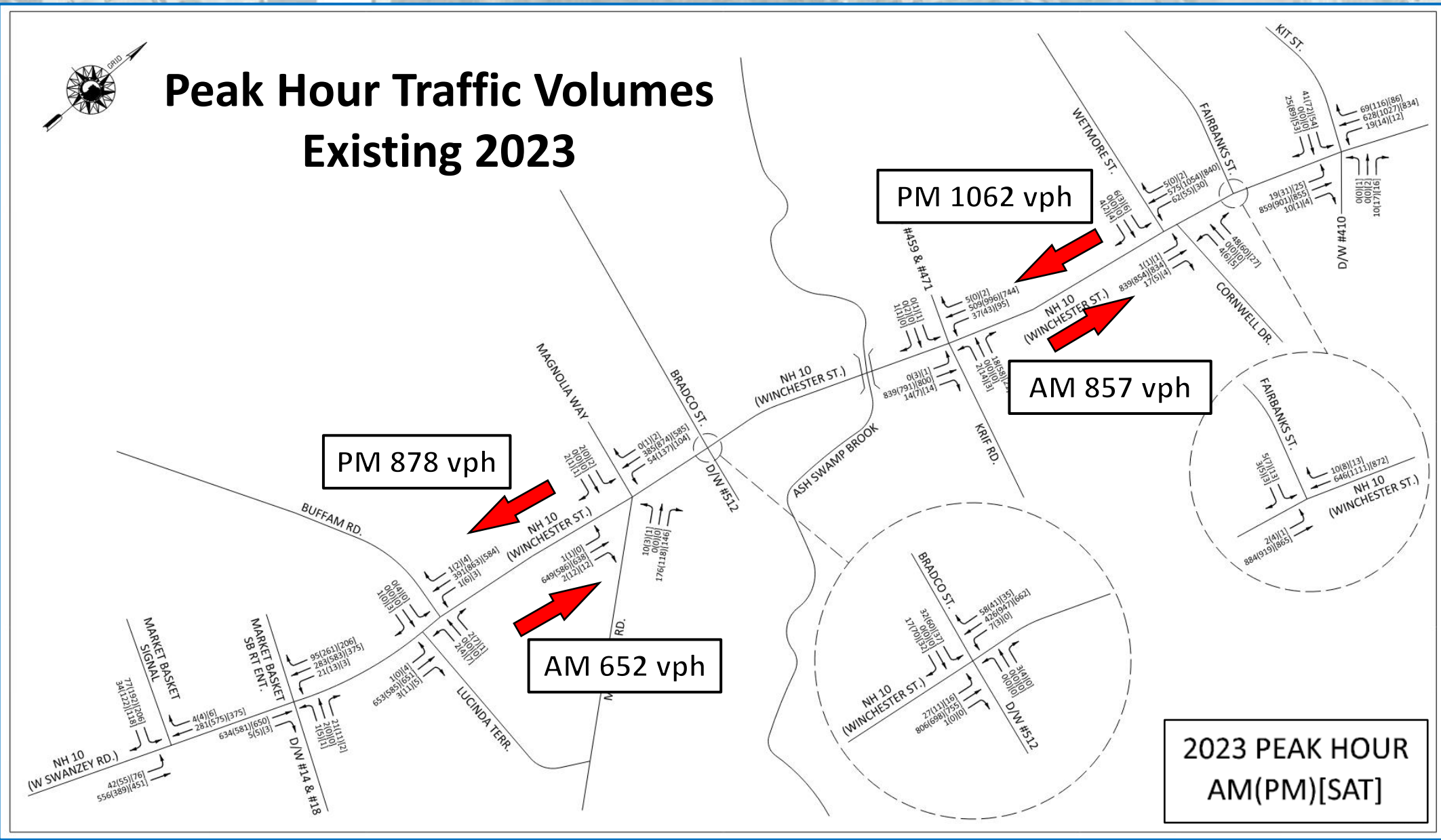




# Lower Winchester Street Reconstruction Project



## Peak Hour Traffic Volumes Existing 2023



PM 878 vph

PM 1062 vph

AM 857 vph

AM 652 vph

2023 PEAK HOUR  
AM(PM)[SAT]



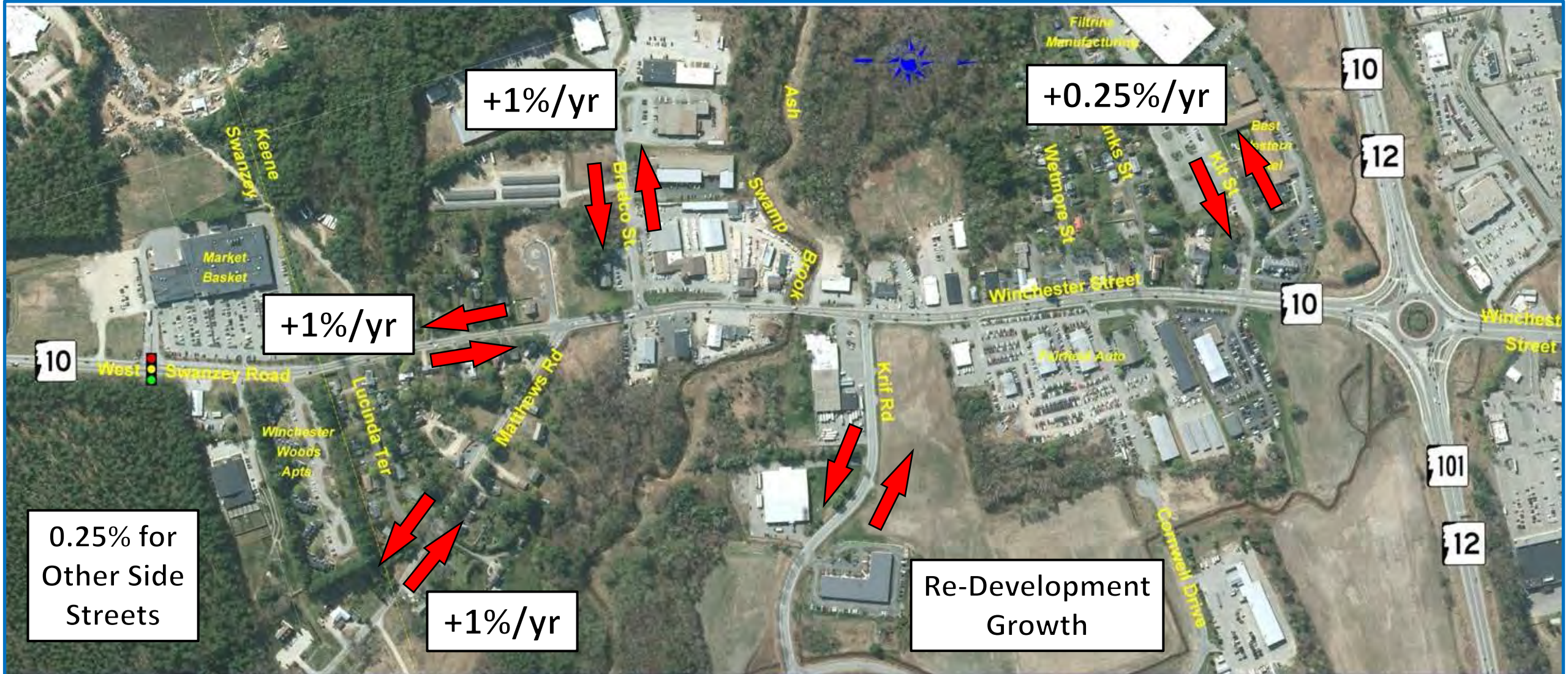
# Traffic Projections

### Design Year 2045

- Assumed 1% Background Growth (Winchester Street, Matthews Road & Bradco Street)
- Assumed 0.25% Growth on Minor Side Roads (Kit St, Fairbanks St, Wetmore St, Lucinda Ter. & Buffam Rd)
- Assumed Redevelopment of Open Space on Krif Road ( $\approx 300$  additional peak hour trips)



# Traffic Projections

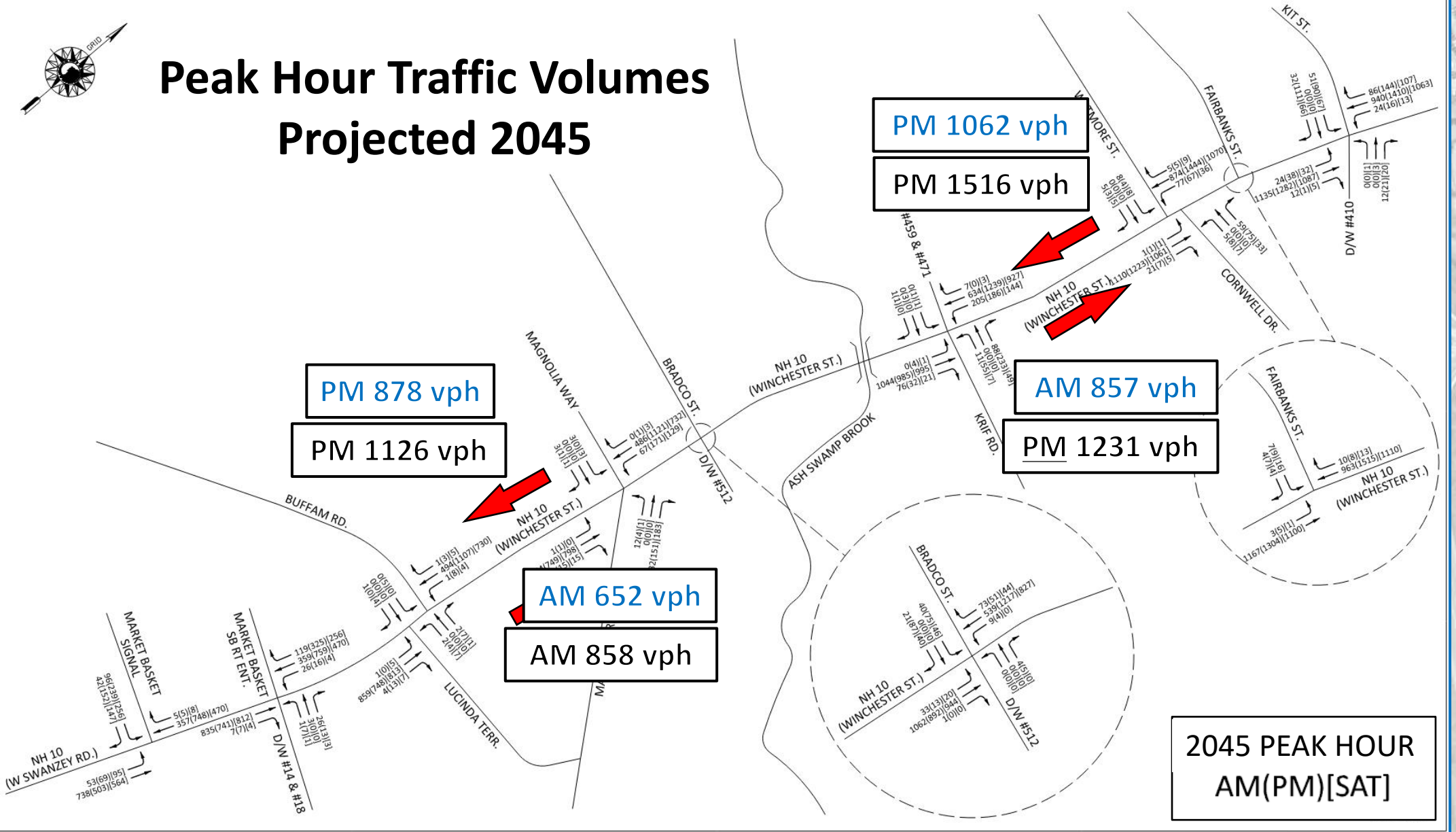




# Lower Winchester Street Reconstruction Project

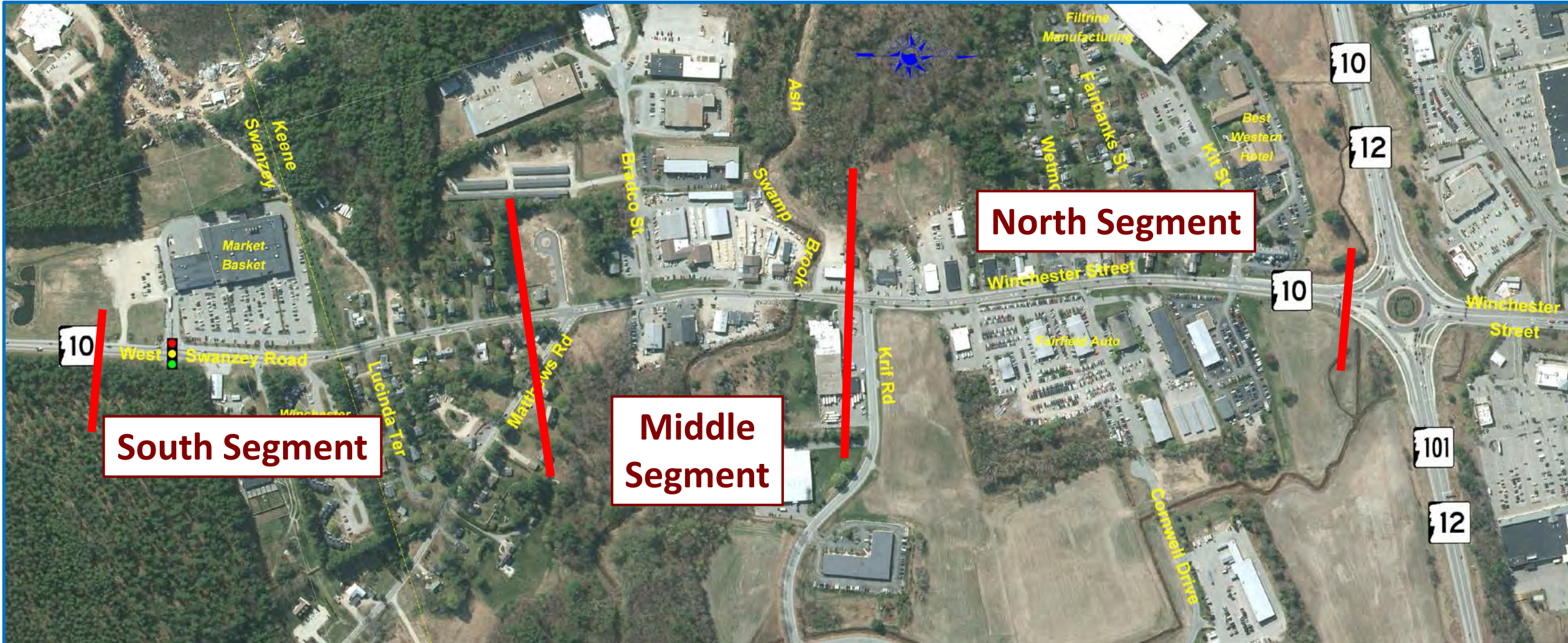


## Peak Hour Traffic Volumes Projected 2045





# Alternatives Development

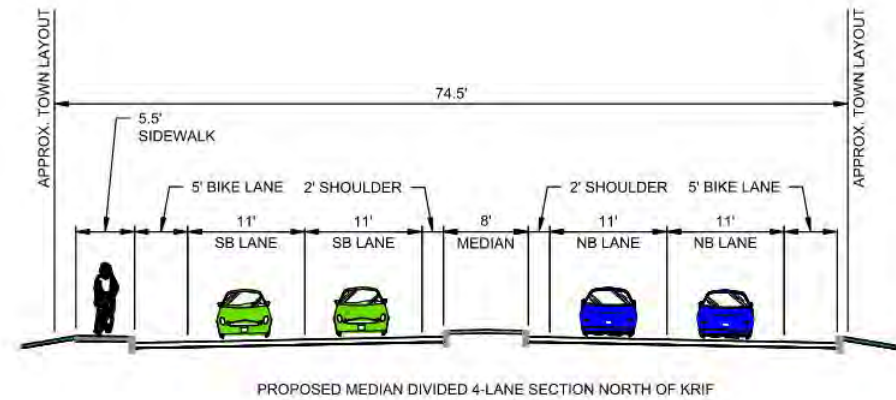
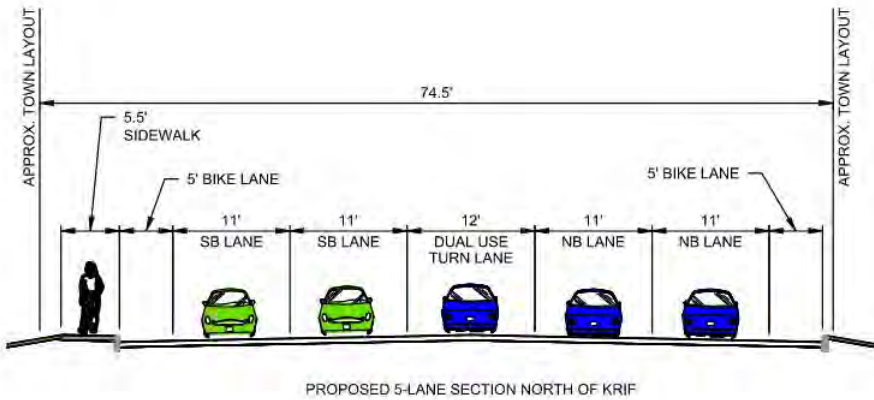
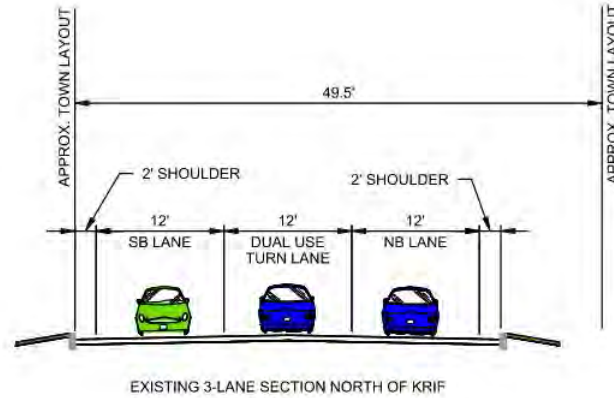






# Alternatives Development

## North Segment Corridor Alternatives

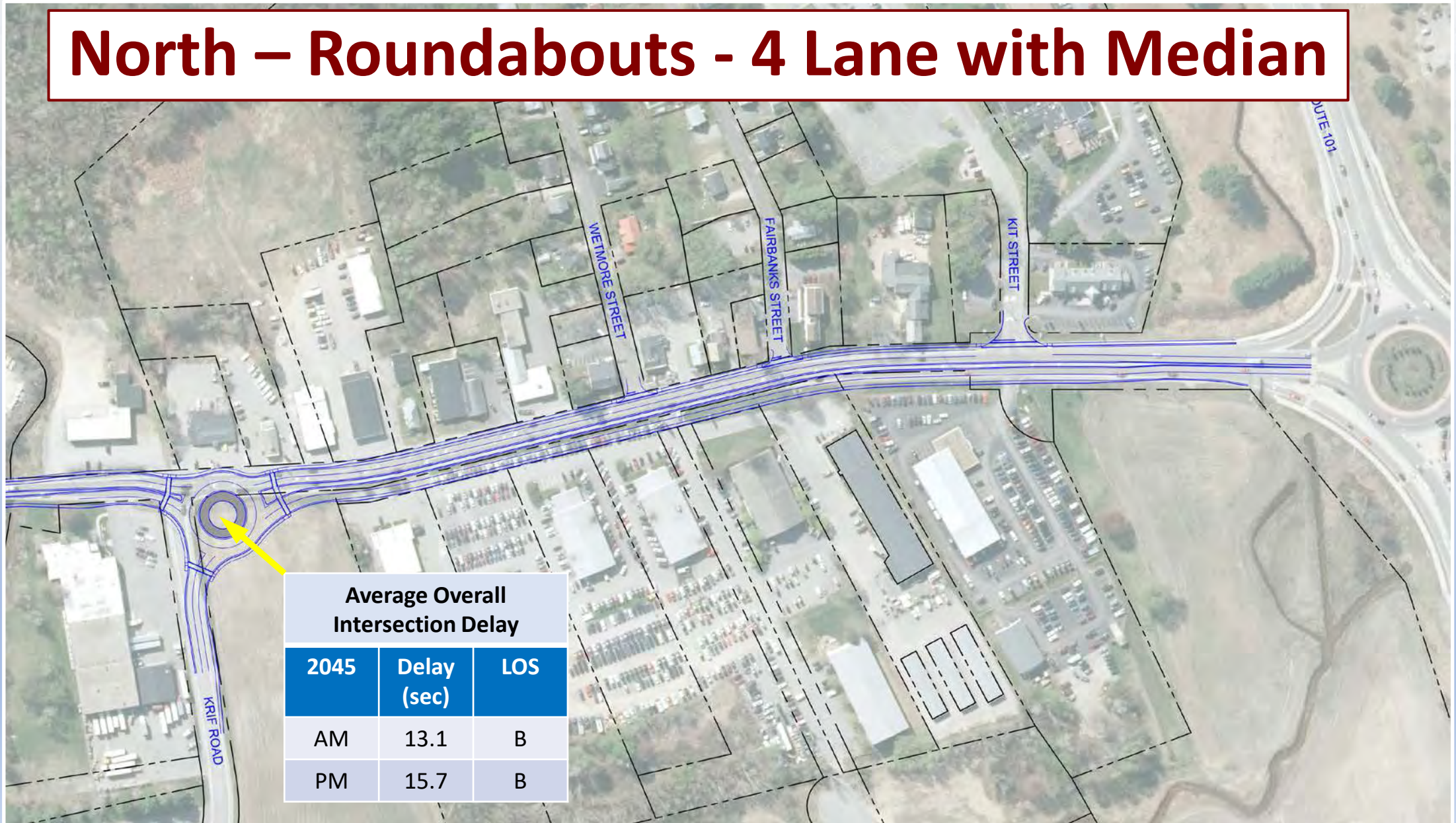




# Lower Winchester Street Reconstruction Project



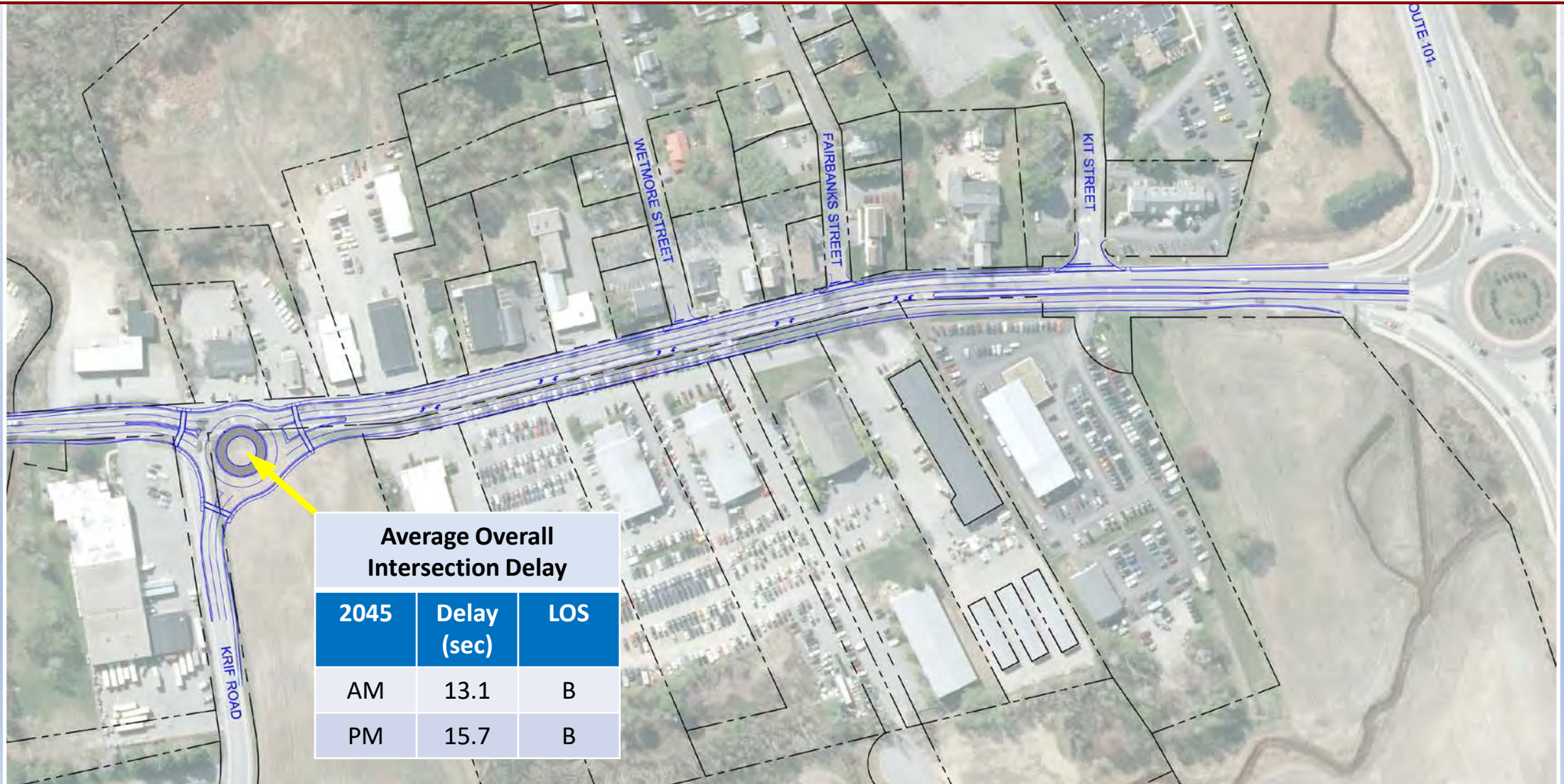
## North – Roundabouts - 4 Lane with Median



Average Overall Intersection Delay		
2045	Delay (sec)	LOS
AM	13.1	B
PM	15.7	B



## North – Roundabouts - 5 Lane with Center Turn Lane

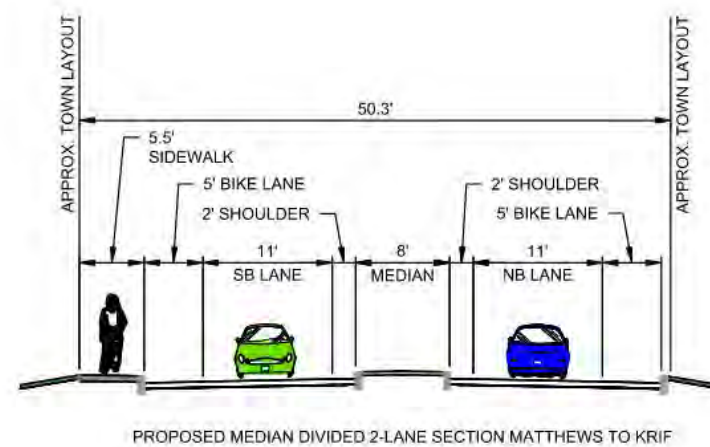
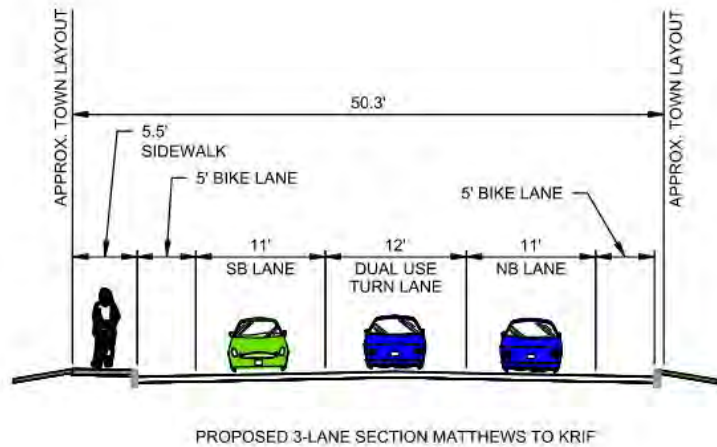
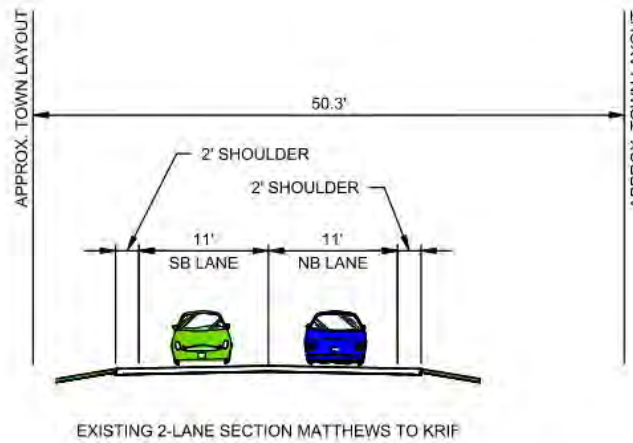


Average Overall Intersection Delay		
2045	Delay (sec)	LOS
AM	13.1	B
PM	15.7	B



# Alternatives Development

## Middle Segment Corridor Alternatives

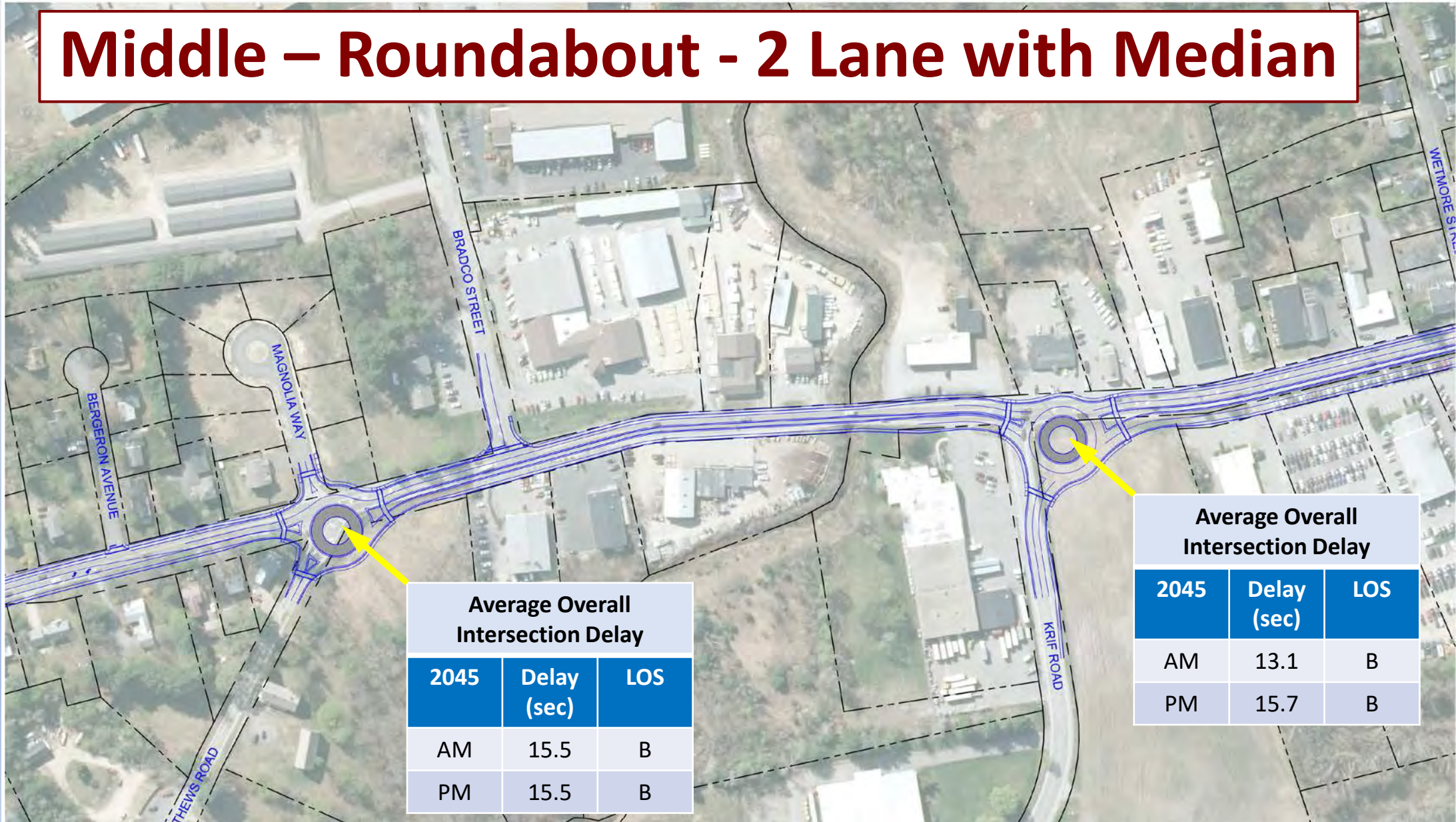




# Lower Winchester Street Reconstruction Project



## Middle – Roundabout - 2 Lane with Median



Average Overall Intersection Delay		
2045	Delay (sec)	LOS
AM	15.5	B
PM	15.5	B

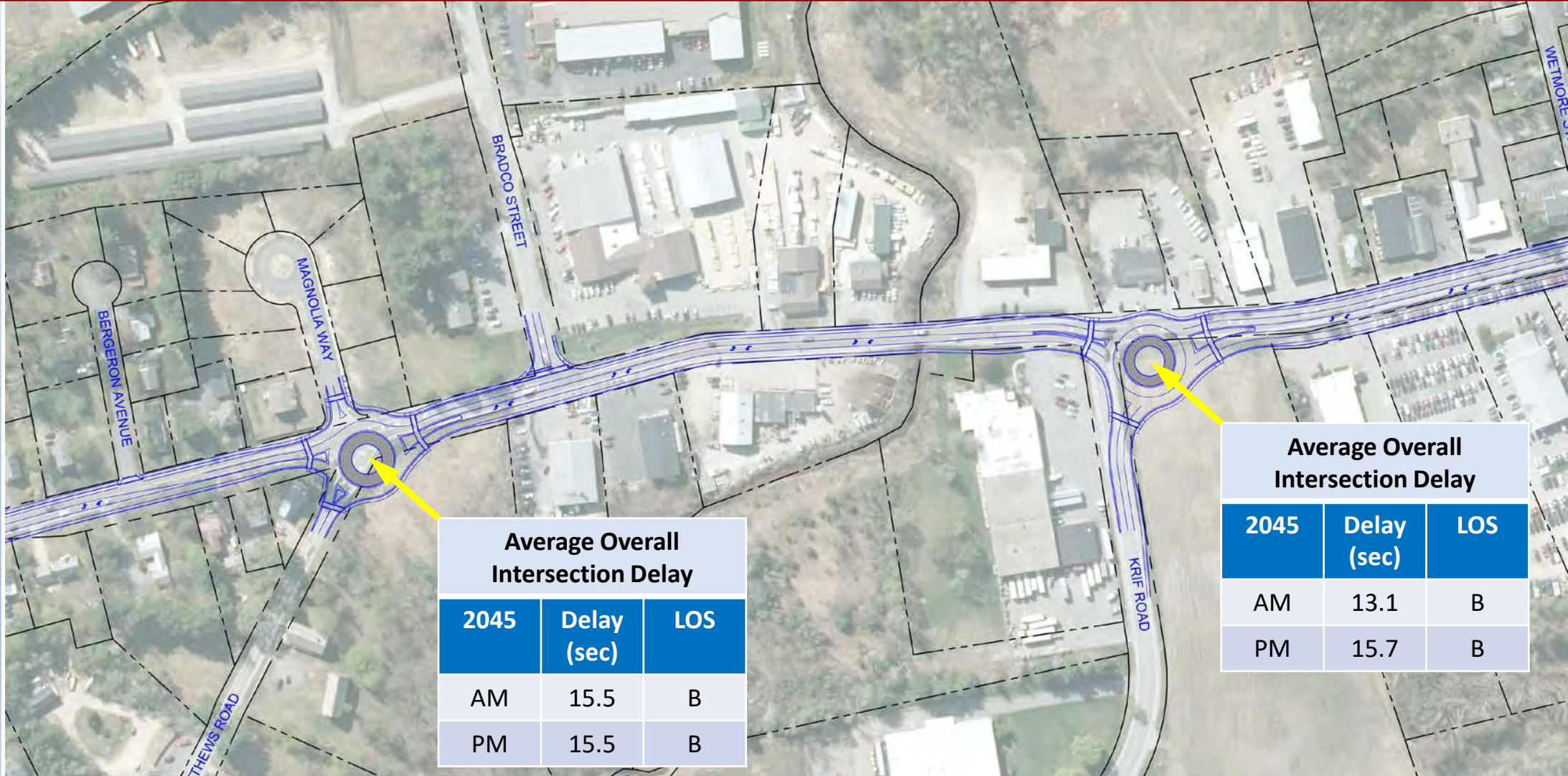
Average Overall Intersection Delay		
2045	Delay (sec)	LOS
AM	13.1	B
PM	15.7	B



# Lower Winchester Street Reconstruction Project



## Middle – Roundabouts - 3 Lane with Center Turn Lane



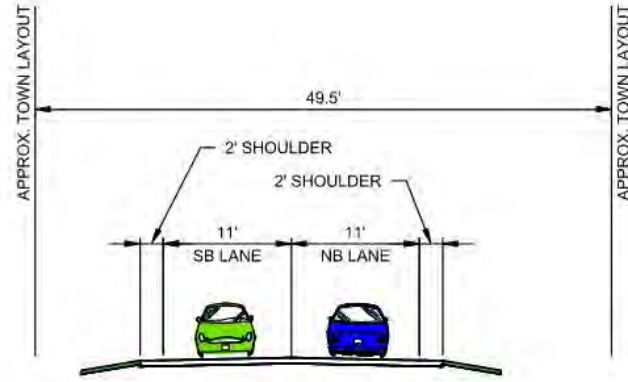
Average Overall Intersection Delay		
2045	Delay (sec)	LOS
AM	15.5	B
PM	15.5	B

Average Overall Intersection Delay		
2045	Delay (sec)	LOS
AM	13.1	B
PM	15.7	B

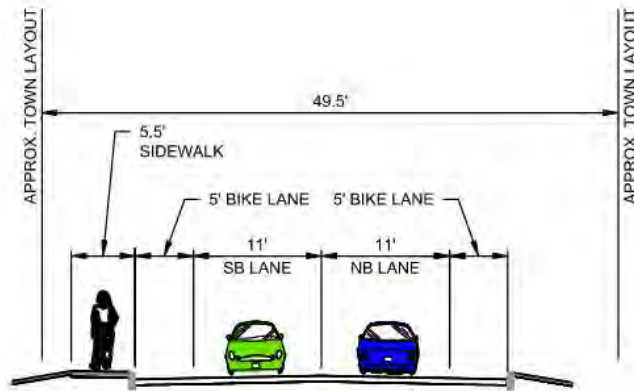


# Alternatives Development

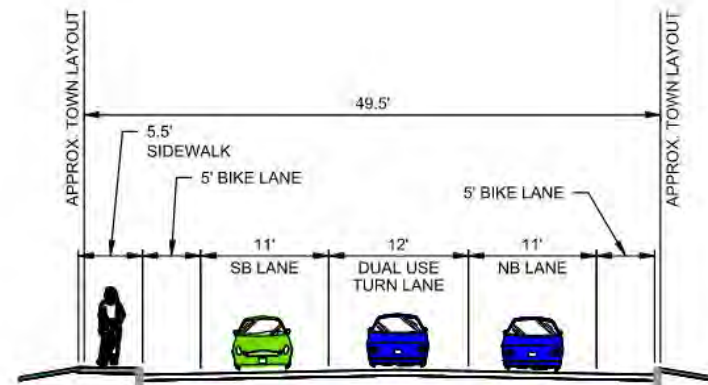
## South Segment Corridor Alternatives



EXISTING 2-LANE SECTION SOUTH OF MATTHEWS



PROPOSED 2-LANE SECTION SOUTH OF MATTHEWS



PROPOSED 3-LANE SECTION SOUTH OF MATTHEWS



# Lower Winchester Street Reconstruction Project



## South – Roundabouts - 3 lane with Center Turn Lane



Average Overall Intersection Delay		
2045	Delay (sec)	LOS
AM	15.5	B
PM	15.5	B

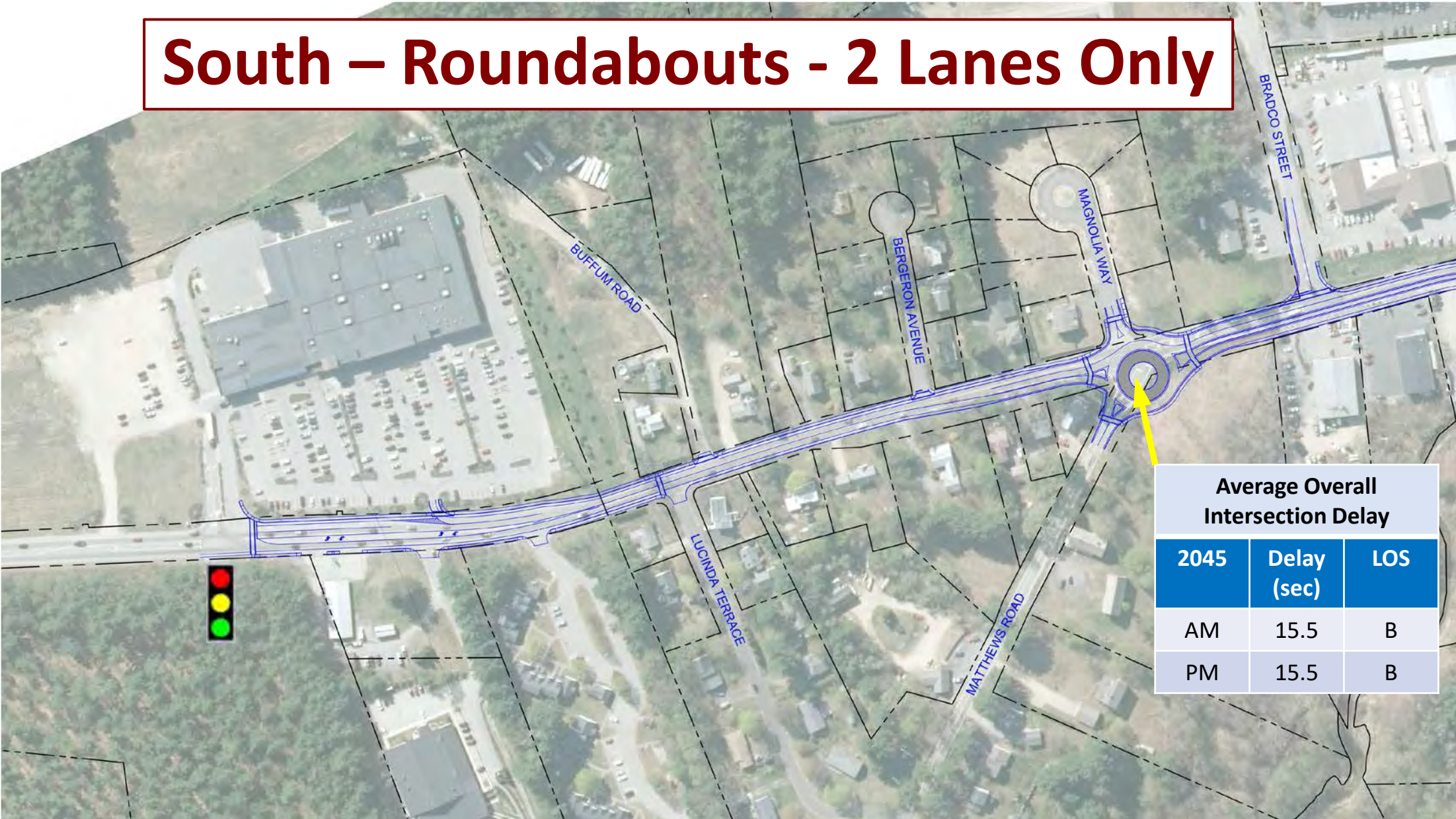




# Lower Winchester Street Reconstruction Project



## South – Roundabouts - 2 Lanes Only



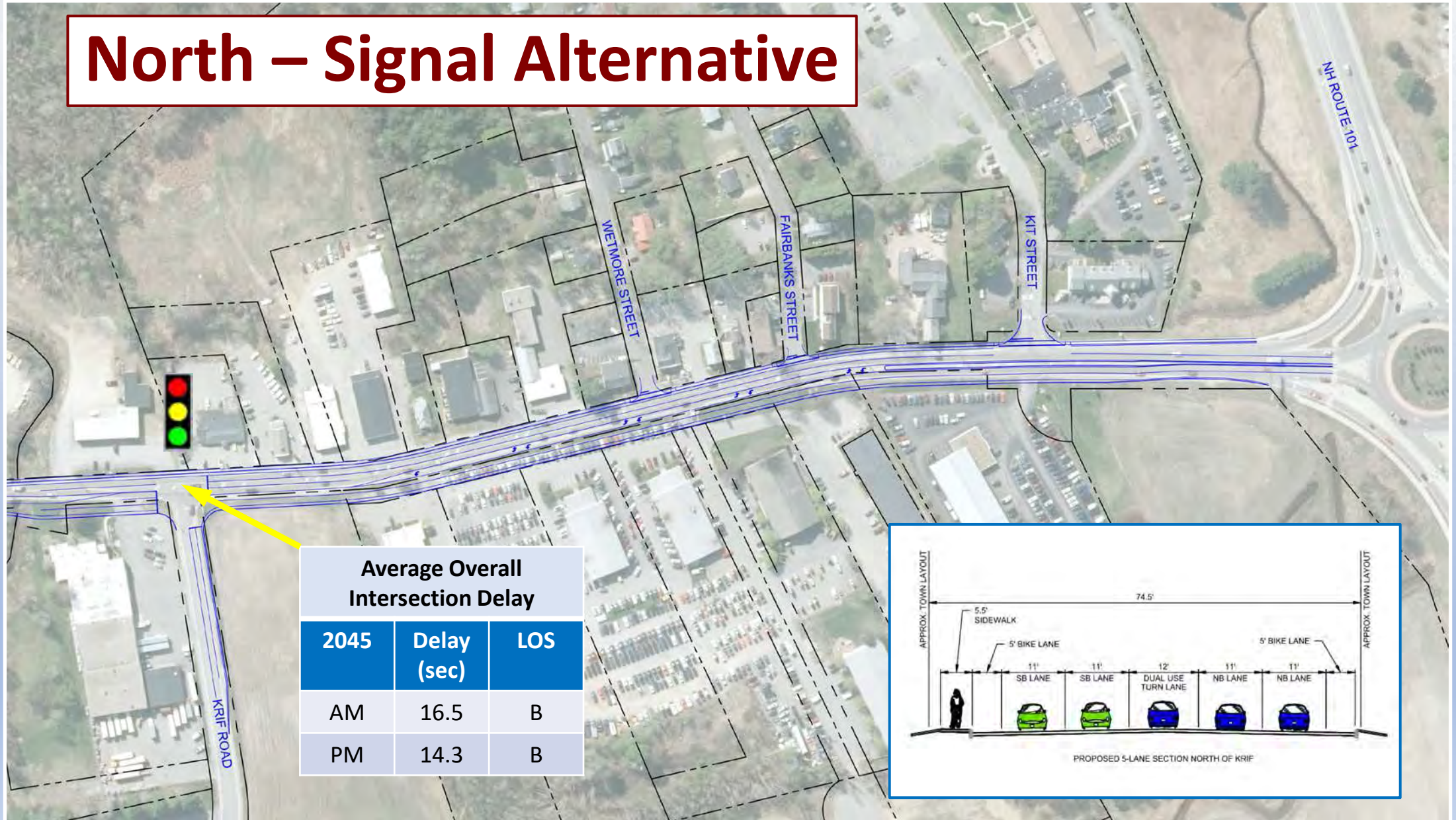
Average Overall Intersection Delay		
2045	Delay (sec)	LOS
AM	15.5	B
PM	15.5	B



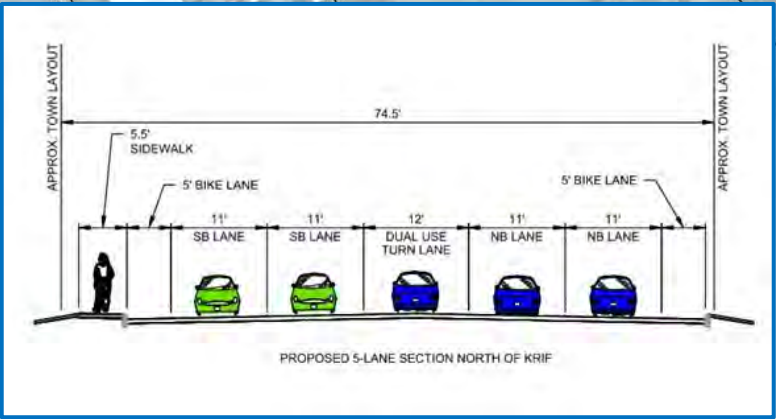
# Lower Winchester Street Reconstruction Project



## North – Signal Alternative



Average Overall Intersection Delay		
2045	Delay (sec)	LOS
AM	16.5	B
PM	14.3	B



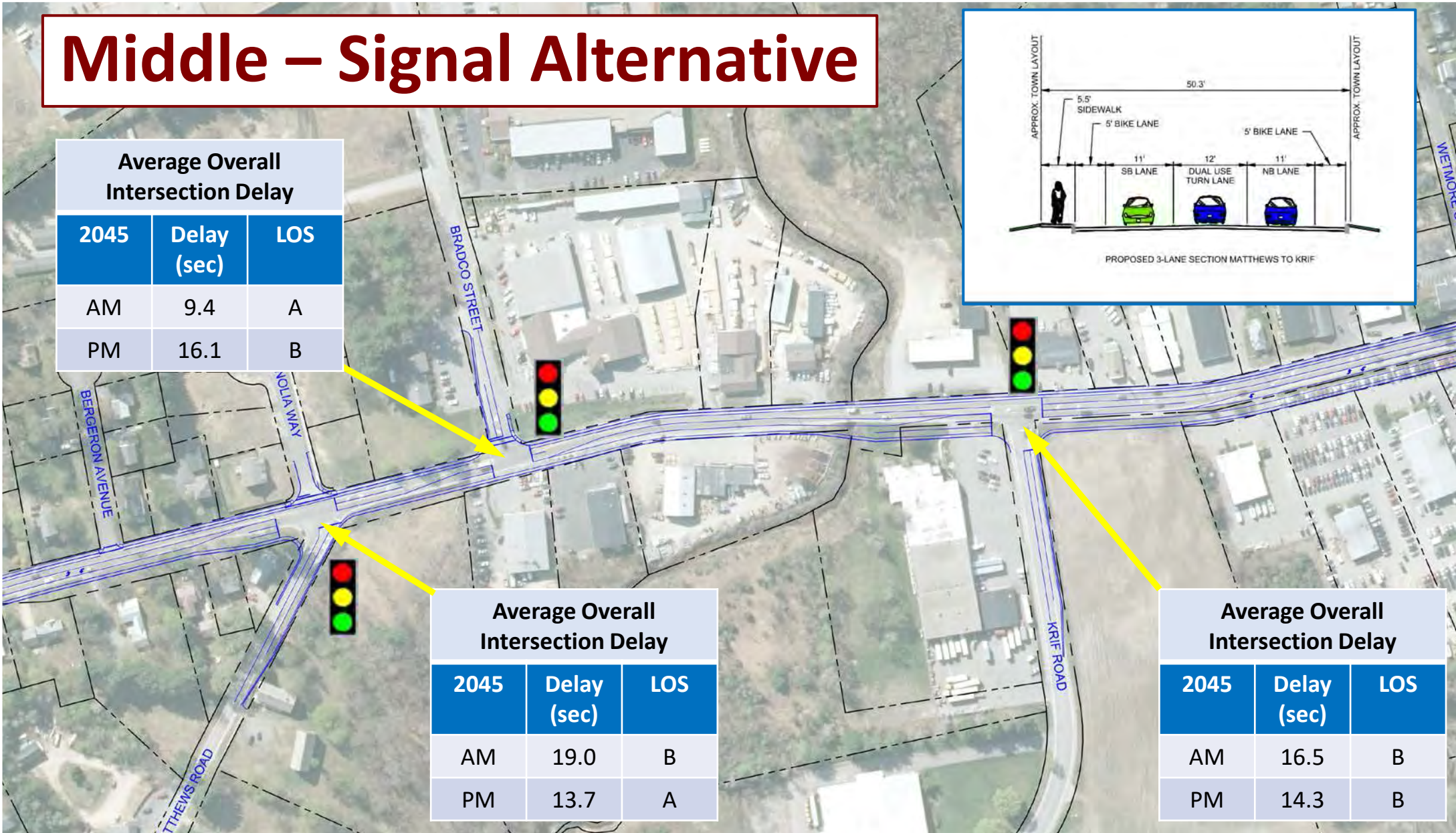
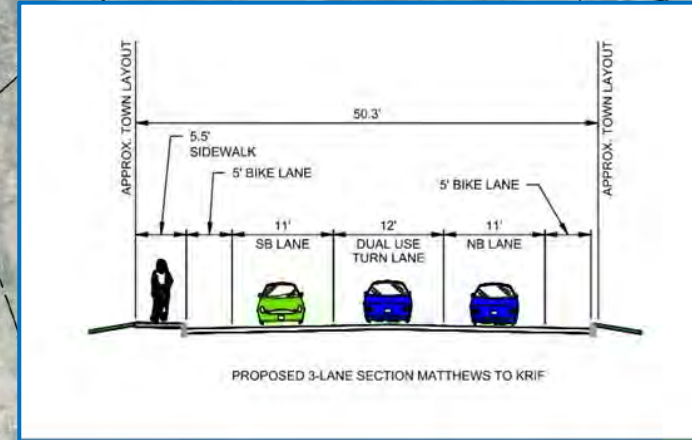


# Lower Winchester Street Reconstruction Project



## Middle – Signal Alternative

Average Overall Intersection Delay		
2045	Delay (sec)	LOS
AM	9.4	A
PM	16.1	B

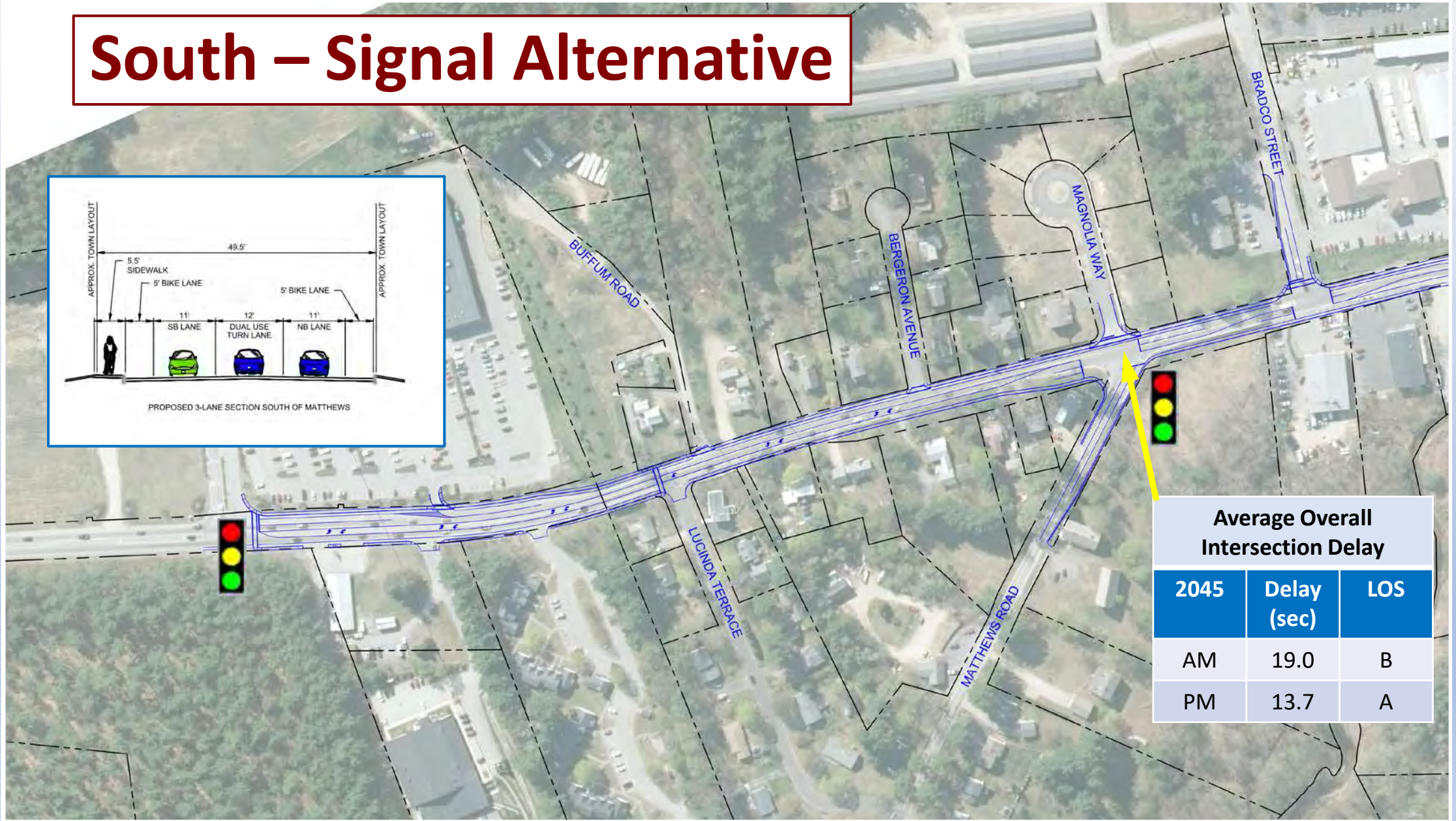
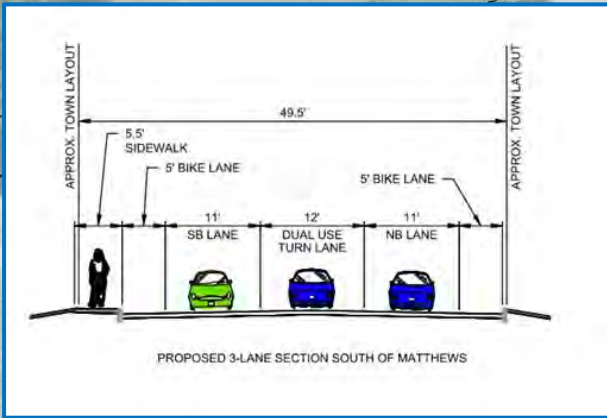


Average Overall Intersection Delay		
2045	Delay (sec)	LOS
AM	19.0	B
PM	13.7	A

Average Overall Intersection Delay		
2045	Delay (sec)	LOS
AM	16.5	B
PM	14.3	B



## South – Signal Alternative



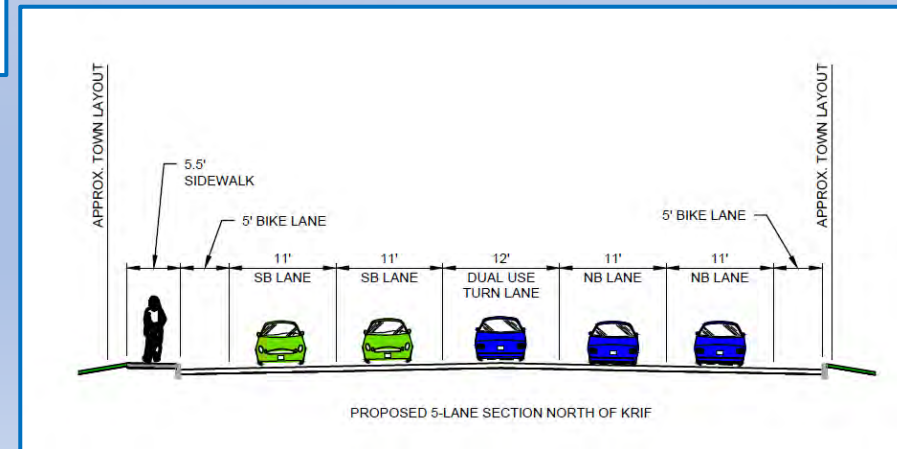
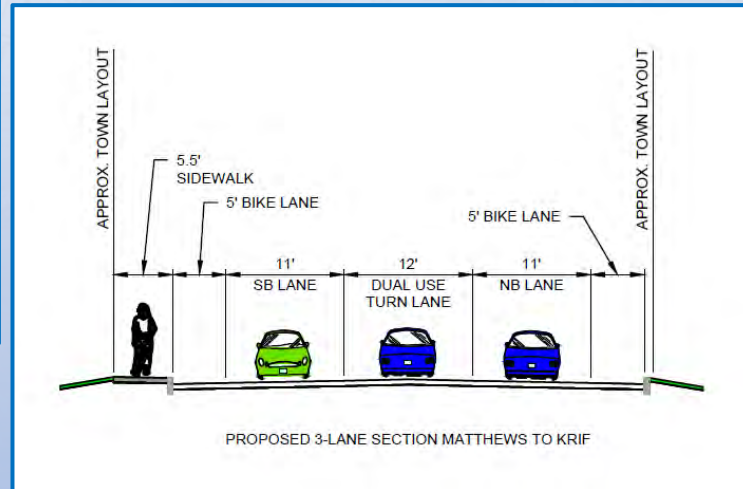
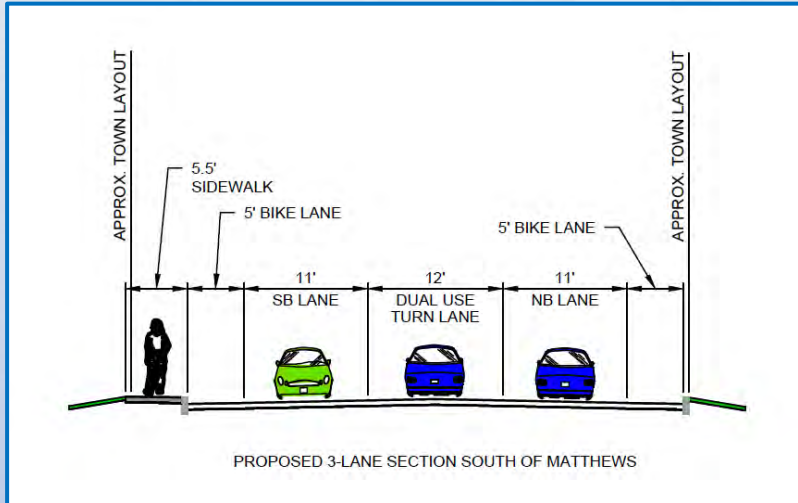
Average Overall Intersection Delay		
2045	Delay (sec)	LOS
AM	19.0	B
PM	13.7	A



# Lower Winchester Street Reconstruction Project



## North – Middle – South Pedestrian Accommodation





## South – Pedestrian Accommodation

Market  
Basket





# Lower Winchester Street Reconstruction Project



## Phase 1 Schedule

October 2022	Public Listening Sessions
Winter 2022/2023	Alternatives Development
February 2023	Steering Committee Working Meeting
April 2023	Steering Committee Alternatives Review
May 2023	Steering Committee Selection of Preferred Alternative
July 2023	City Council Presentation
August 2023	MSFI Committee/Public Informational Meeting
September 2023	City Council Meeting
October 2023	Prepare Engineering Study Report



# *Lower Winchester Street Reconstruction Project*



**QUESTIONS?**





# Lower Winchester Street Reconstruction Project



## North – Roundabouts with additional Roundabout

