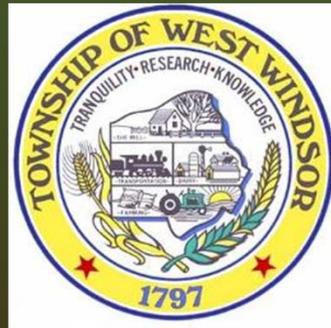


# CANAL POINTE BOULEVARD ROAD DIET STUDY

West Windsor Township  
271 Clarksville Road  
West Windsor, NJ 08550



April 21, 2015

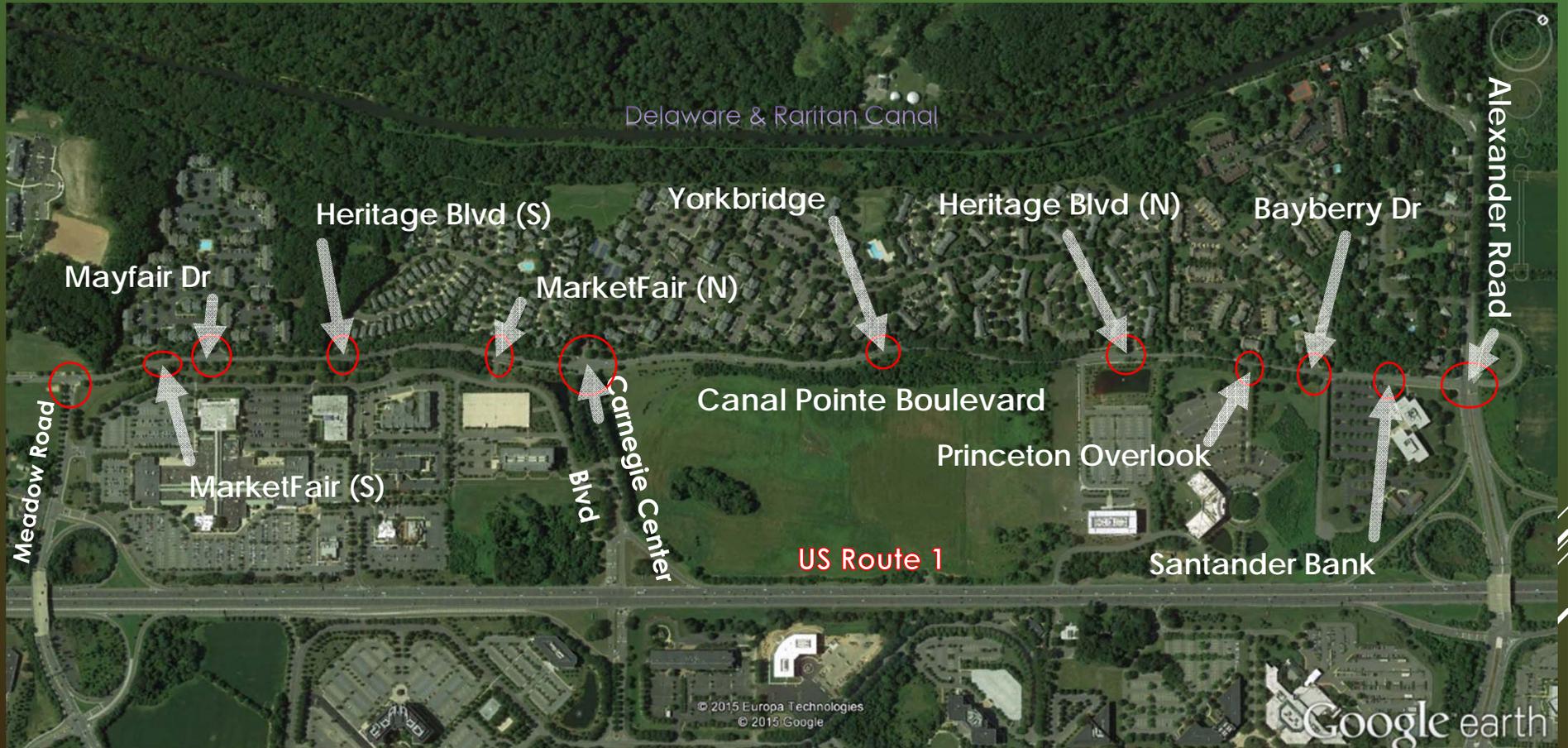


222 Valley Creek Blvd  
Suite 140  
Exton, PA 10341  
(610) 407-9700

# CORRIDOR

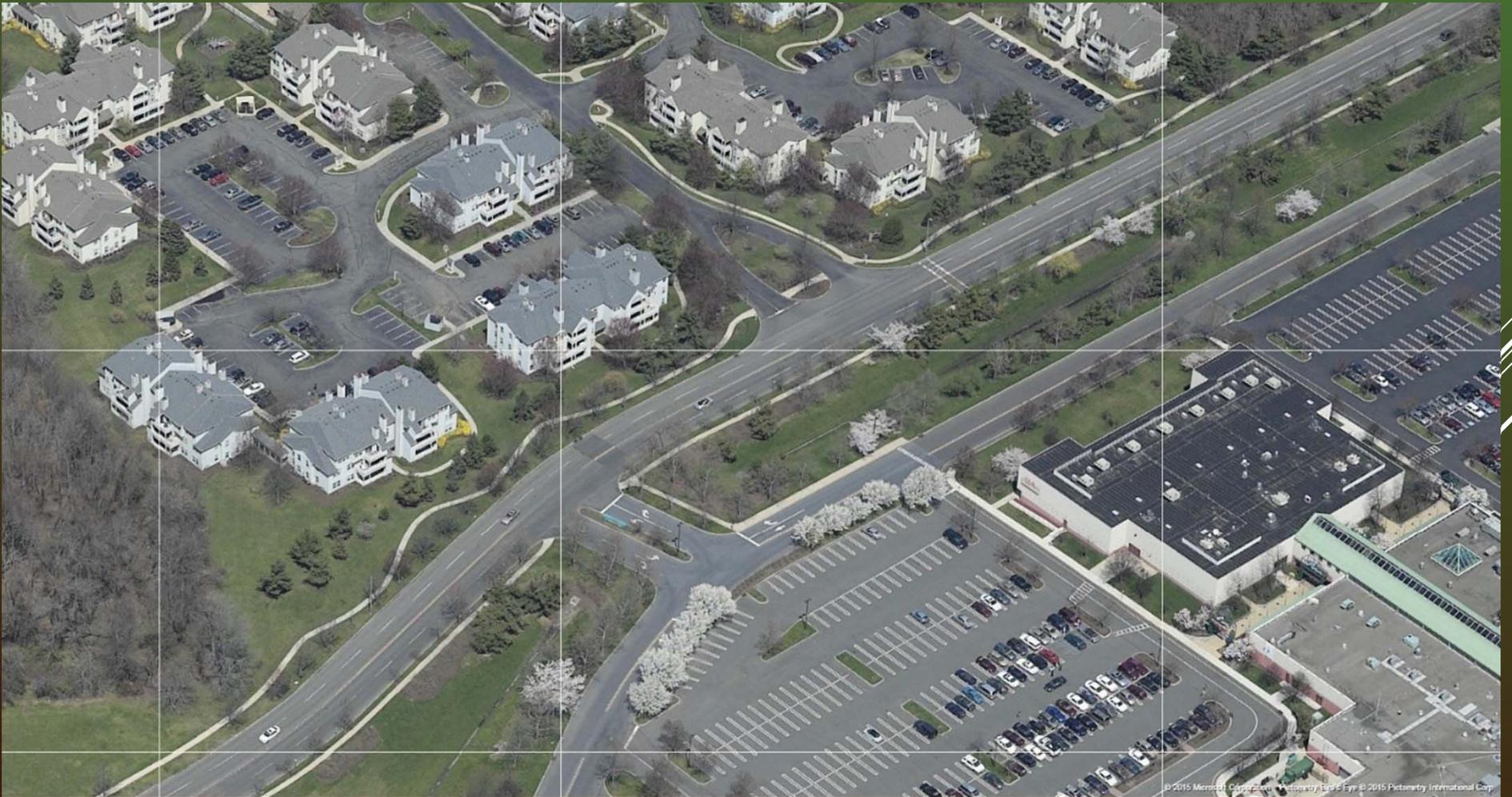


# CORRIDOR



# CONDITIONS

- Existing 4-Lane Boulevard
- Serves Mixed Use Development along length of the corridor
- Traffic Signals at Alexander Road and Meadow Road
- 9 existing Stop controlled intersections

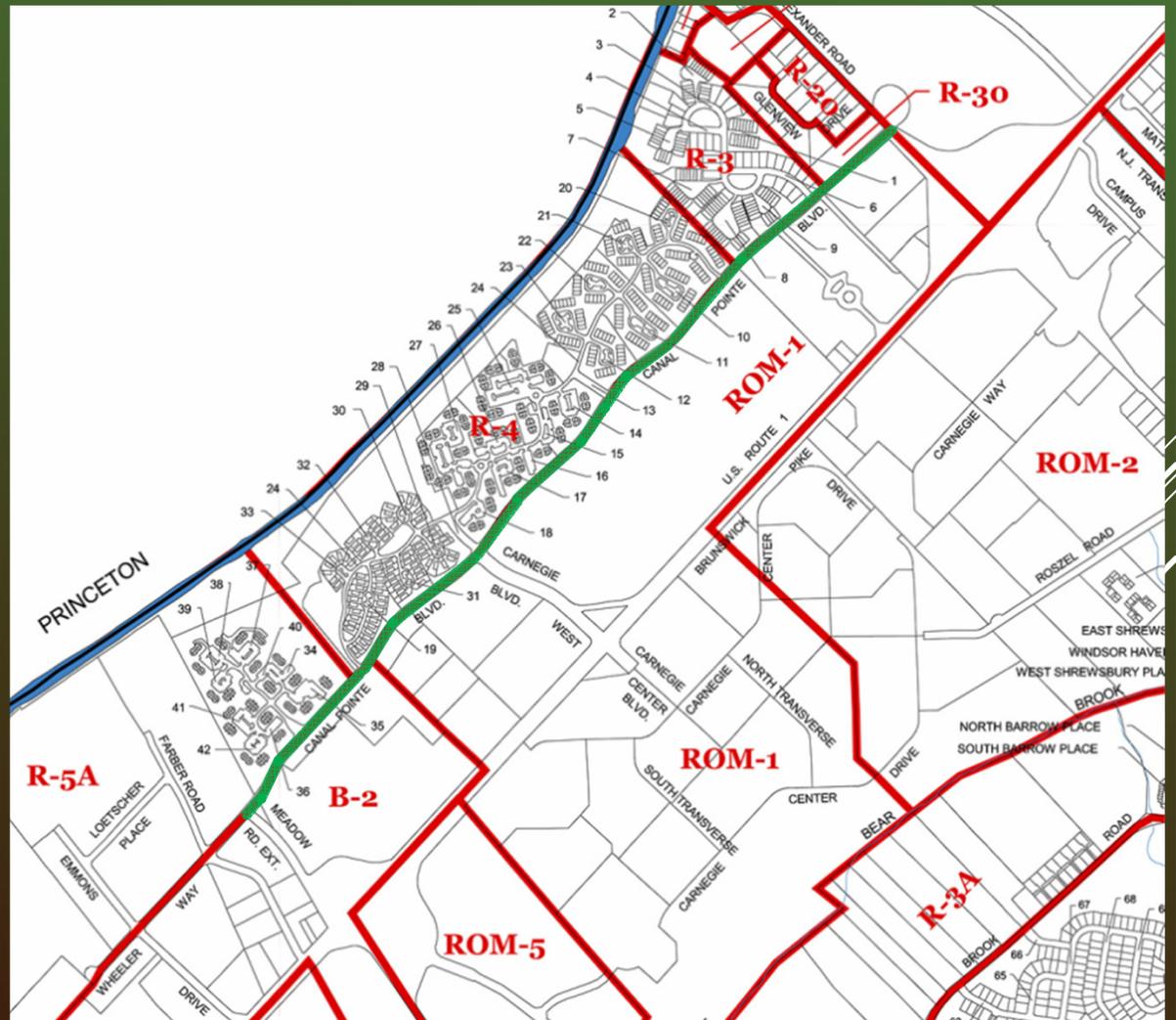


# CONDITIONS

- B-2 - Business
- R-3 – Residential
- R-4 – Residential
- R-5A – Residential
- R-30 – Residential
- ROM-1 - Research/  
Office/Manufacturing

Existing Average Daily Traffic (vpd):  
North of Carnegie – 9,500-17,000  
South of Carnegie – 7,000-12,000

High Volume Intersections  
(peak hours):  
Alexander Rd – 2,726 AM, 3,276 PM  
Carnegie Center Blvd –  
987 AM, 1,601 PM  
Meadow Rd – 951 AM, 1,513 PM



# CONDITIONS

## *Current Roadway Operations:*

### Delays

- Signals running at 'C' or better (average overall delay of 29 sec or less) in AM
- Unsignalized approaches operating at 'D' or better (average delay of 26 sec or less) in AM
  
- Signals running at 'D' or better (average overall delay of 40 sec or less) in PM
- Carillon & Carnegie left turn unsignalized approach movements operating at 'F' (81 sec delay and 57 sec delay, respectively) in PM

### Speeds

- 85th percentile – 42 mph just south of Santander Bank
- 85th percentile – 39 mph between Heritage Boulevard and Mayfair Drive

### Accident History (2005-2008 vs 2010-2013)

- Alexander – 10-2 = 8 less crashes
- Carnegie/Carillon – 3 less crashes (10-7)
- Heritage (N) – 0 to 3 = 3 more crashes
- Meadow – 4 to 6 = 2 more crashes (prior to signal installation)

### Ped/Bike Activity

- Upwards of 27 pedestrians during AM peak, 31 during PM peak (nearly all on west side)
- Upwards of 7 bicyclists during AM peak, 9 during PM peak (mostly west side and on sidewalk)

# FUTURE CONDITIONS

Land Use	Description	Size
Carnegie Center Bldg 702, 703 or 704	Office	135,600 s.f.
Carnegie Center Bldg 803 & 804	Office	798,400 s.f.
Carnegie Center Bldg 901	Office	130,000 s.f.
Princeton Overlook	Office	150,000 s.f.
Princeton Theological Seminary	Apartments	400 units
Hilton Garden Inn	Office, hotel, restaurant	150,000 s.f. office 164 room hotel

New Trips	
AM	PM
145	161
298	330
140	155
259	247
200	238
<u>636</u>	<u>590</u>
1,678	1,721

Increased user demand on existing roadway that heavily favors business/commuter traffic that can inhibit local traffic as development increases.

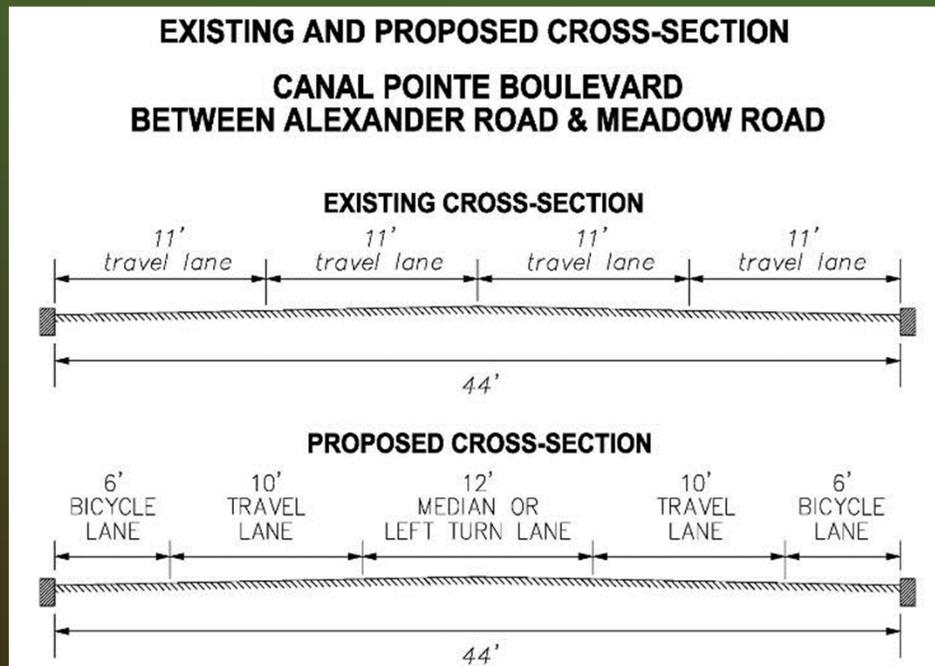
Recommendation to introduce 'Road Diet' on Canal Pointe Boulevard to help maintain users sense of appropriateness of the roadway.

Features include the following...

# FUTURE CONDITIONS

## RECOMMENDATIONS...

- Single through lanes each direction



## **'ROAD DIET'**

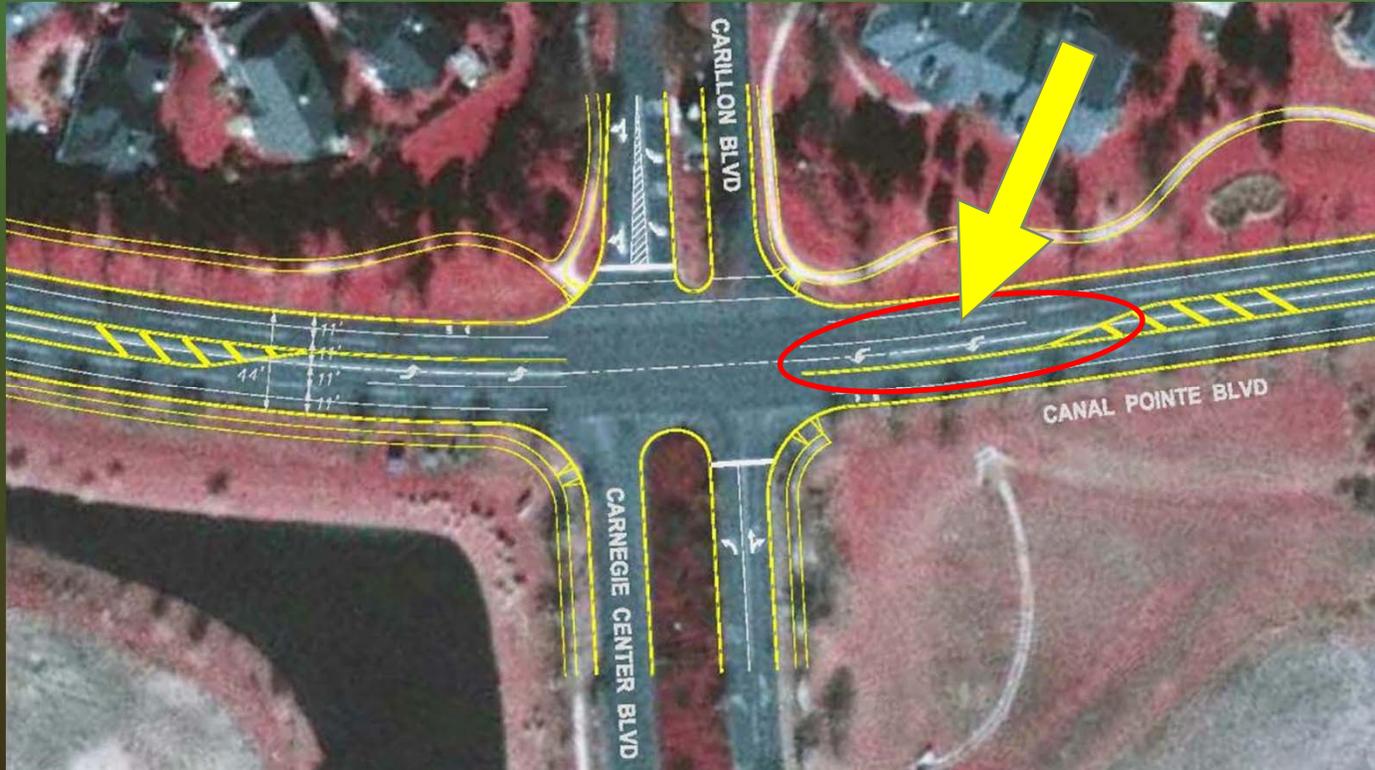
*Traffic Calming Technique to reduce speeds, reduce crashes and provide bicyclists and pedestrians increased mobility within the same corridor*

Reduces speeds, reduces crashes, reduces pedestrian exposure to moving vehicles (both parallel to lanes and crossing Canal Pointe), introduces bike lanes

# FUTURE CONDITIONS

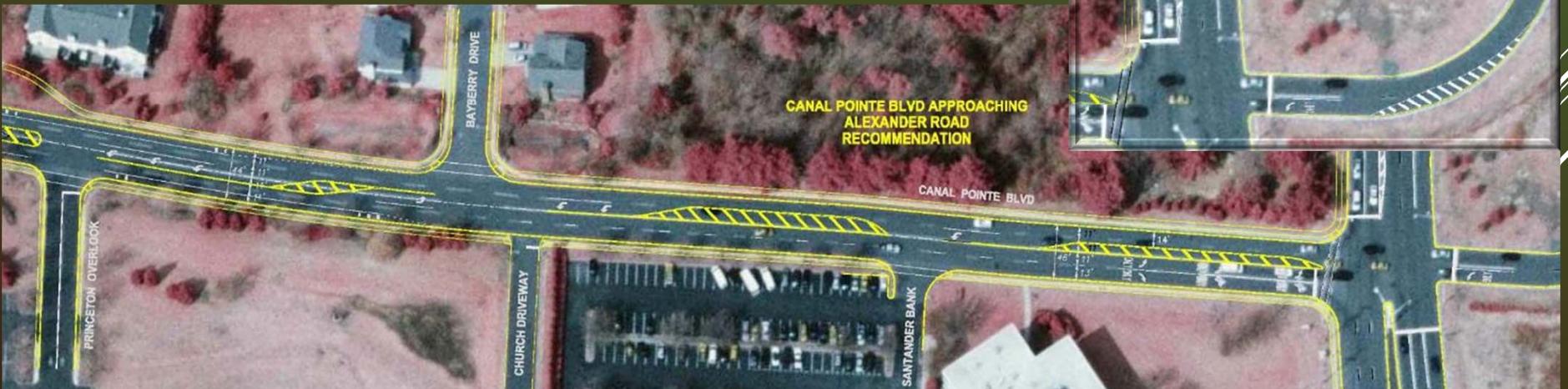
## RECOMMENDATIONS...

Left turn lanes introduced to reduce conflicts



Reduces rear-end crashes,  
Aligns left turns head-to-head,  
Improves sight distance

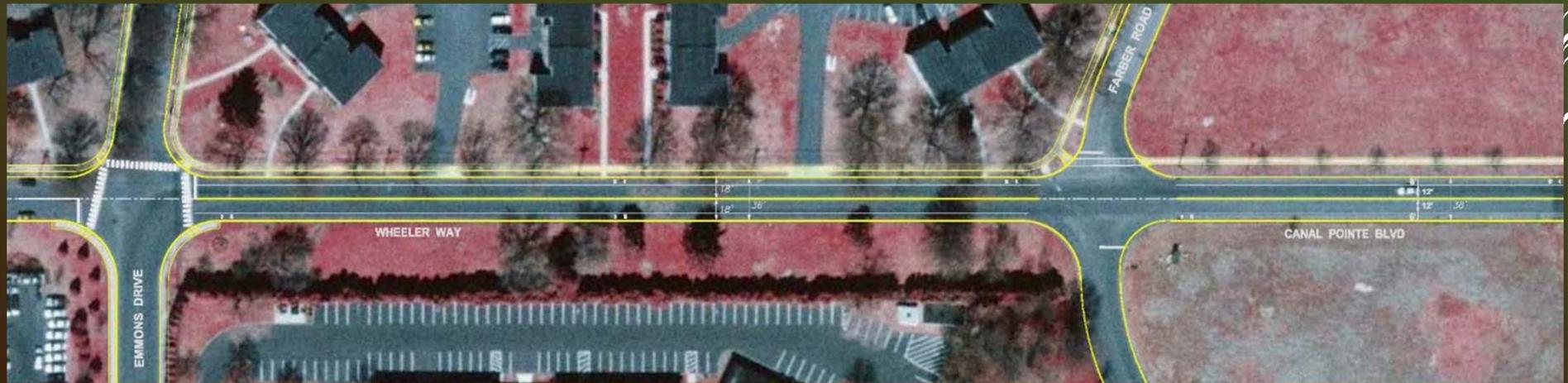
# FUTURE CONDITIONS



# FUTURE CONDITIONS



# FUTURE CONDITIONS



# Canal Pointe Boulevard Road Diet Study

Study is on Township Website

<http://www.westwindsornj.org/canalpointe.html>

Township is collecting public comments on the study until Friday, May 8<sup>th</sup>

Comment Forms at presentation and on the website, or submit comments by email to

[ptownsen@westwindsortwp.com](mailto:ptownsen@westwindsortwp.com)

using the subject line *"Canal Pointe Boulevard Comments"*