



Maple Avenue

Follow up Meeting 04/16/22

Cambridge Street to Broadway

*Reconstruction
Project*

City Staff Contact Information

- **Community Relations**
 - Kate Riley
 - kriley@cambridgema.gov
- **Construction Related Questions/Concerns**
 - Melissa Miguel, P.E.
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- **Traffic Calming Related Questions/Concerns**
 - Juan Avendano
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Construction Project Scope

- Reconstruct/repave street
- Reconstruct sidewalks and curb ramps
- New crosswalks, pavement markings
- Evaluation and updating utilities (water, drainage, etc.)

Project Objectives

- Meet access codes
- Improve safety for all users
- Enhance appearance of the neighborhood
- Enhance green areas/new trees



 **Raised Crosswalks**
[at side streets]



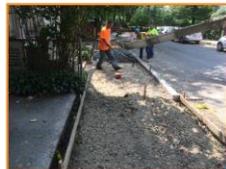
 **Flexi Pav**
[at trees]



 **Curb Extensions & Ramps**
[for accessibility]



 **New Sidewalks**
[brick & concrete]



 **Sidewalk Construction**



 **New Tree Plantings**



TOOLBOX DESIGN ELEMENTS
STREET & SIDEWALK RECONSTRUCTION



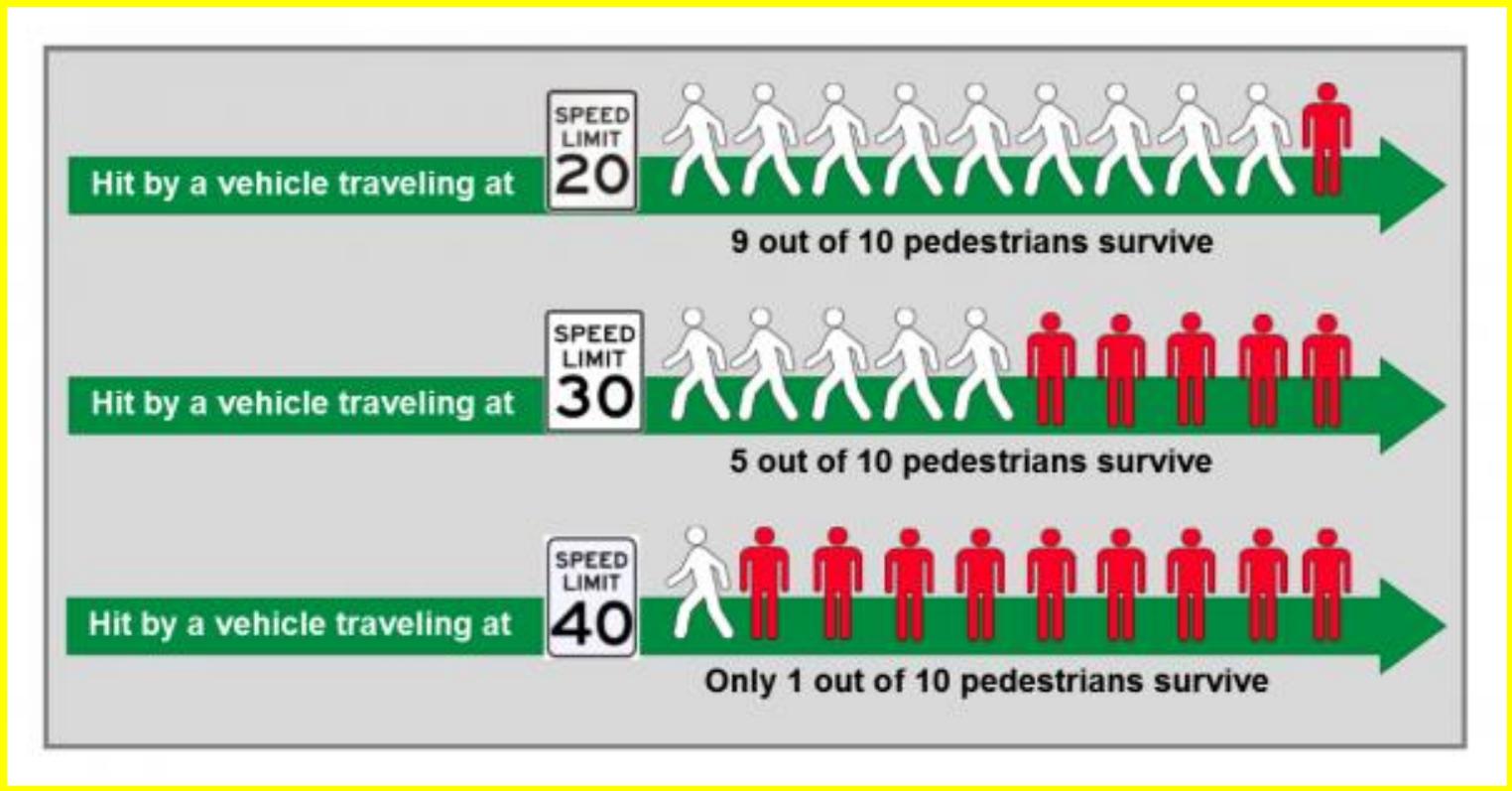
Maple Avenue First Community Meeting October 20, 2021

Cambridge Street to Broadway Reconstruction Project

Resident Concerns:

- Speed of Vehicles
- Pedestrians crossing by playground
- Trees condition
- Power lines - Underground
- Tree stumps
- Pedestrian crossing at Broadway and Cambridge
- Cut-through traffic

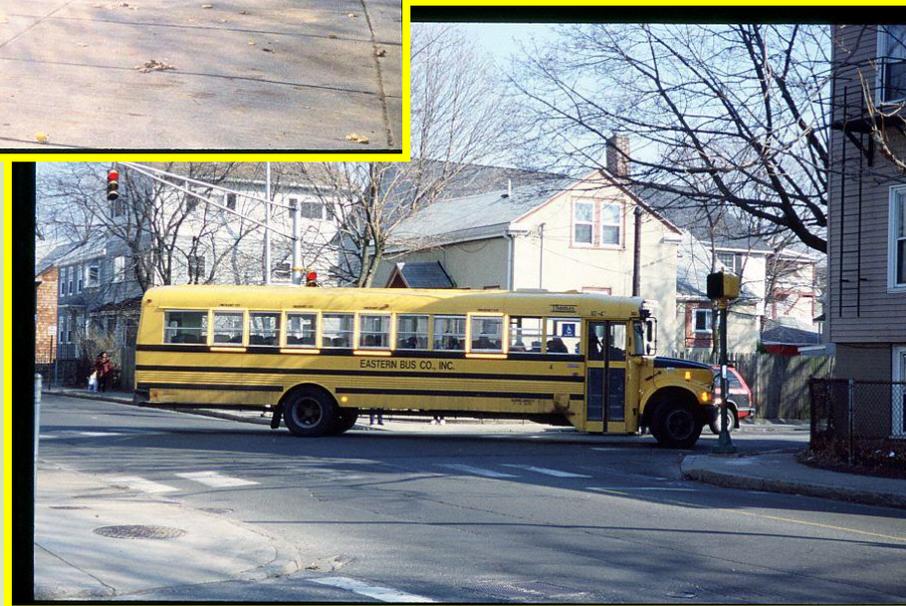
Pedestrian injuries/Fatalities in Crashes by Vehicle Speed



Traffic Calming

- Narrow the road
 - Add Parking
 - Pavement Markings (edge line for bikes)
 - Visual Narrowing by Adding Trees
- Horizontal Devices: make the road less straight
 - Chicanes
 - Crossing Islands
- Vertical devices: make vehicles go over something
 - Raised intersections & crosswalks

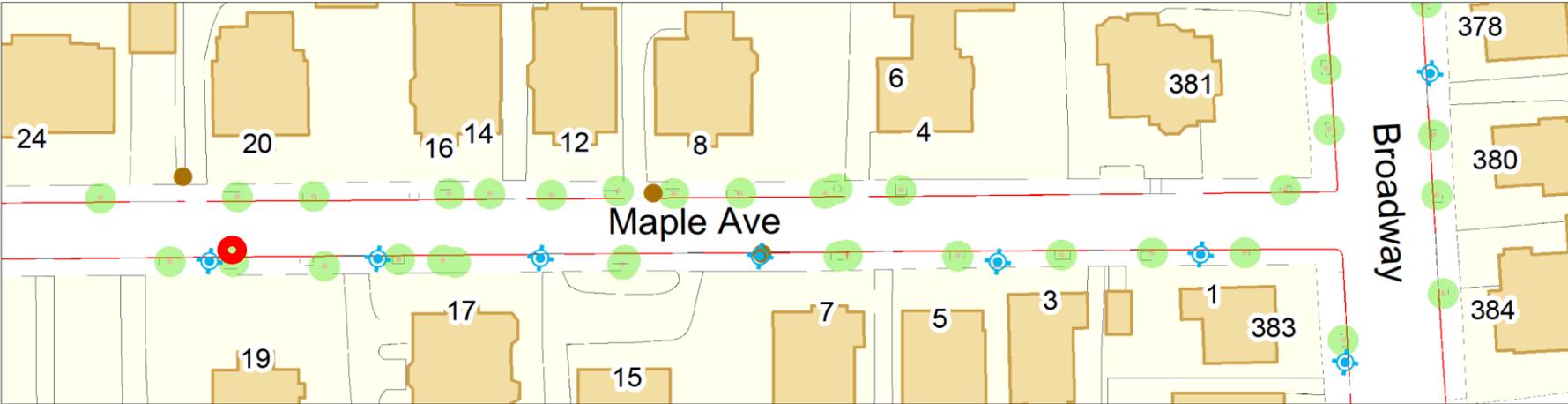
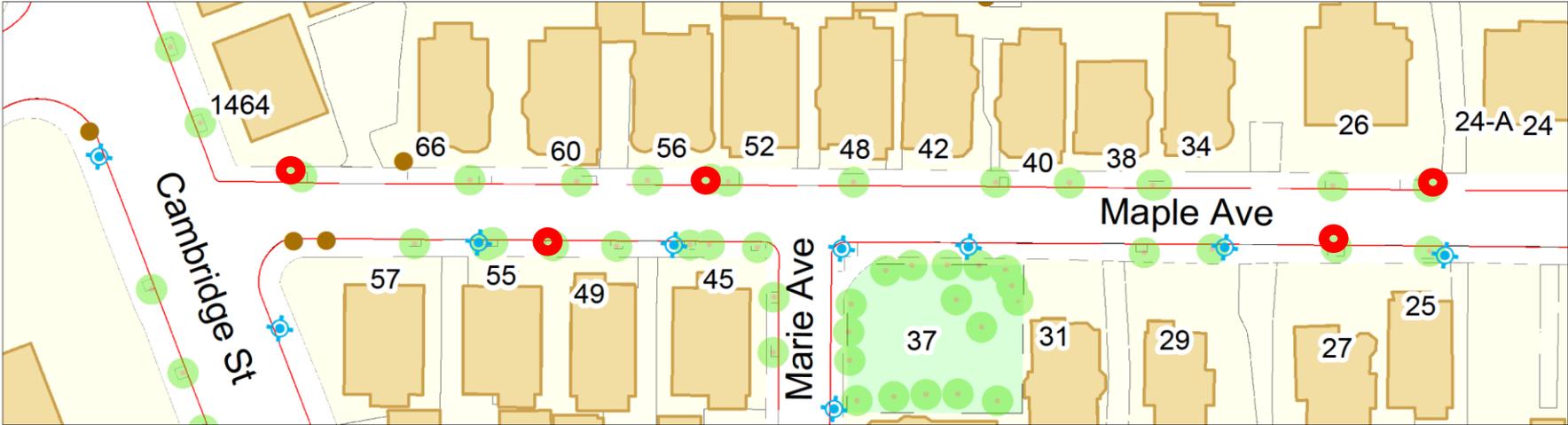
Service vehicles



What have we done since the community meeting 10/20/2021:

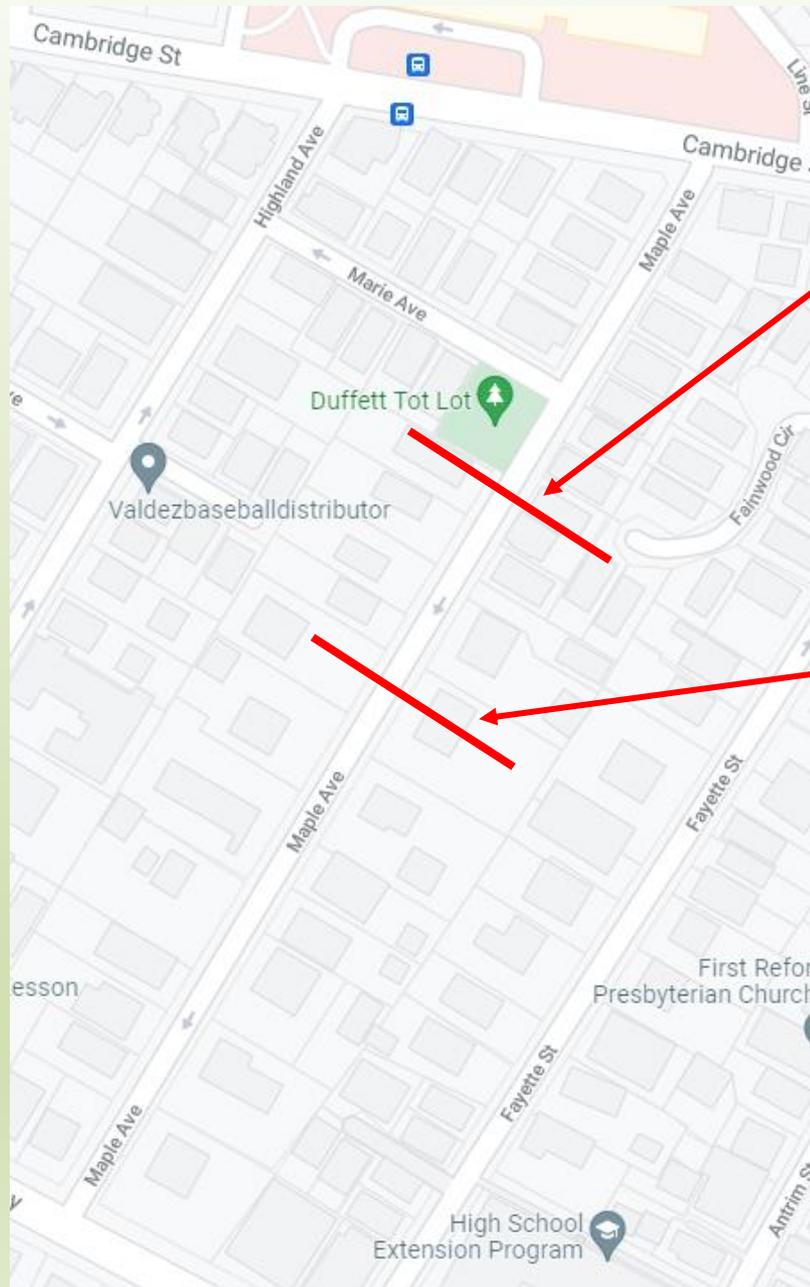
- Preliminary Walk
 - Access Route
- Met with Fire Department
 - Possible raised intersection (Fire Chief)
 - Location of hydrants
- Walk with City Arborist
 - Existing tree condition
 - Possible new trees
- Speed Data
 - 11/17/2021
 - 12/15/2021

Maple Avenue
Cambridge MA



● Less than 36" sidewalk width at tree

Speed data:



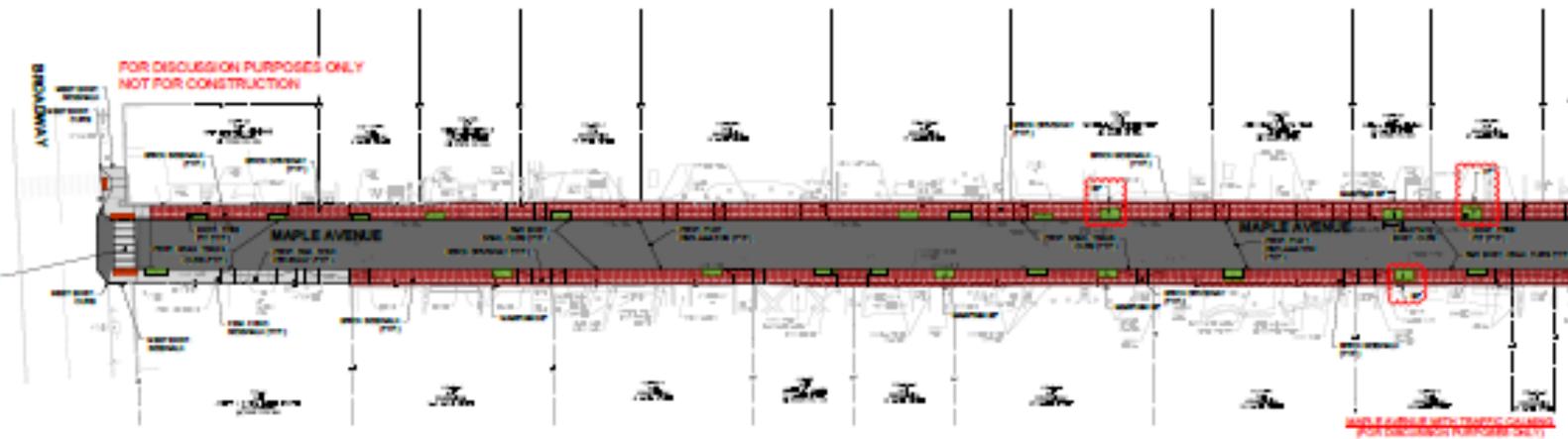
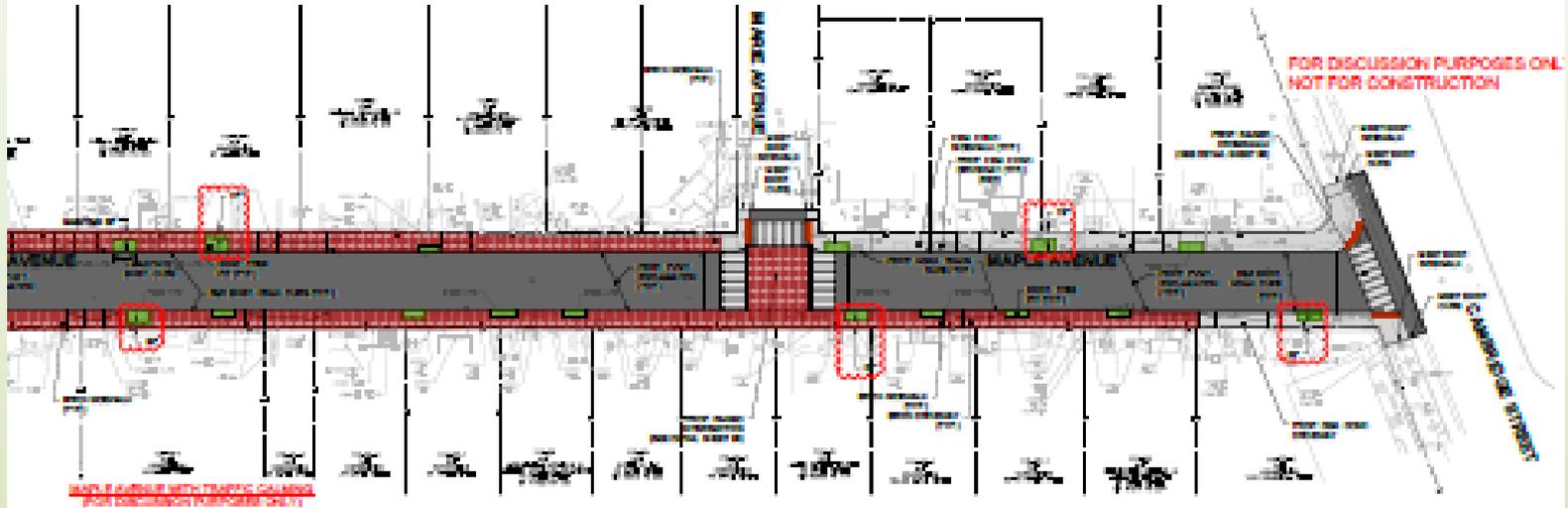
Counter location 2 (12/15/21-12/16/21)

Grand Total	2	32	51	63	130	270	194
Stats		Percentile	15th	50th	85th	95th	
		Speed	10.6	16.4	18.8	20.1	
		Mean Speed (Average)	15.3				
		10 MPH Pace Speed	11-20				
		Number In Pace	611				
		Percent In Pace	80.6%				
		Number > 15 MPH	480				
		Percent > 15 MPH	63.3%				

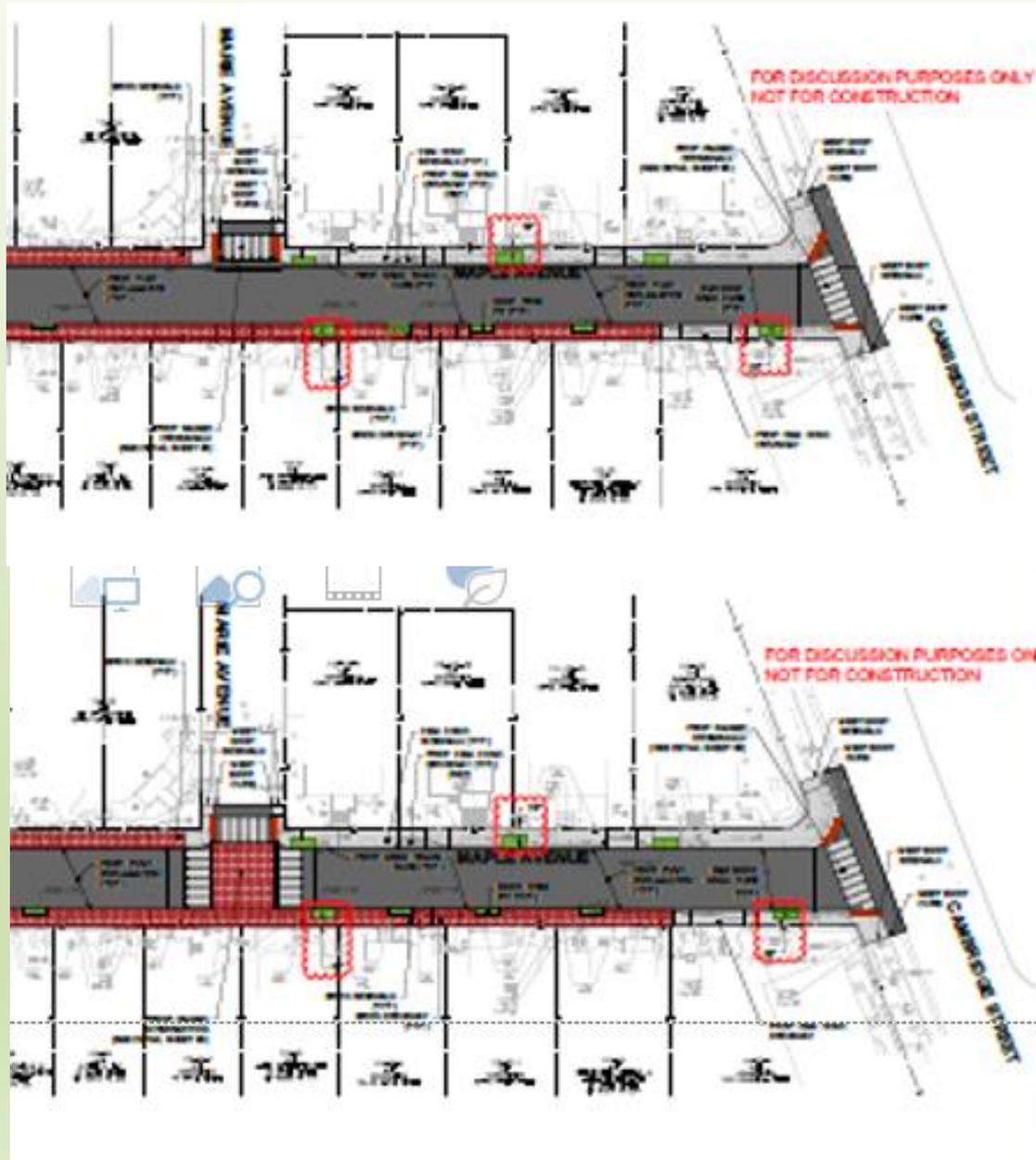
Counter location (11/17/21-11/18/21)

Grand Total	3	11	46	61	148	280	349
Stats		Percentile	15th	50th	85th	95th	
		Speed	13.6	18.8	23.7	26.4	
		Mean Speed (Average)	18.8				
		10 MPH Pace Speed	14-23				
		Number In Pace	919				
		Percent In Pace	69.0%				
		Number > 21 MPH	434				
		Percent > 21 MPH	32.6%				

Basic Reconstruction + TC



Basic vs Basic + TC



Next steps:

