

# Mass Ave/Appleton Design Review Committee

03-23-21

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Department of Planning & Community
Development

## Agenda

- Welcome and Opening of Remote Meeting, including Ground Rules
- 2. Committee Members and Brief Introductions
- Review of Existing Conditions at Mass Ave and Appleton Street
- 4. Discussion of Key Design Principles for Reviewing Safety Improvement Concepts
- 5. Review of Initial Concepts and Prioritize Design Considerations for Next Meeting
- Discuss Next Steps and Set Next Committee Meeting Dates – Frequency and Timing
- 7. Adjourn



## Remote Meeting and Ground Rules

- Remote meeting script
- Confirm committee members are here
- Please use "Raise Hand" function to comment
- Start with committee members before public comments
- Recorded Meeting



### Purpose of Design Review Committee

- Established by Select Board on June 8 after fatal crash killing Charlie Proctor in May
- "to study and make recommendations for both short term and long term improvements to the intersection of Massachusetts Avenue and Appleton Street"
- Nearby intersections are relevant (Lowell/Mass Ave, Forest/Mass Ave



# Committee Members and Brief Introductions

- Committee membership:
  - Representative of the Transportation Advisory Committee
  - Representative of the Arlington Bicycle Advisory Committee
  - Representative of the Arlington Police Department
  - Representative of the Engineering Division (DPW)
  - Senior Transportation Planner (DPCD)
  - Representative of Local Business
  - Representative of St. Athanasius Parish
  - 3 Resident Representatives
- Committee members:
  - Name
  - Affiliation on the committee
  - Interest and goals for the committee



#### Goals of the Committee

 To improve safety and accessibility for all users of the Mass Ave/Appleton intersection and the adjacent corridor





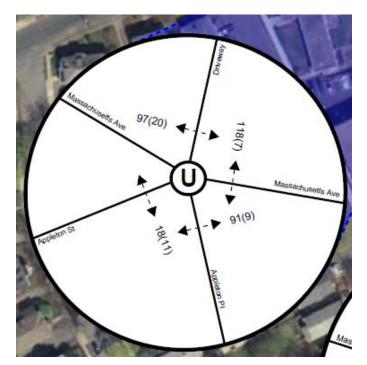
Existing Conditions: Mass Ave & Appleton



### Traffic counts

Table 2 – Automatic Traffic Recorder (ATR) Summary

					Peak Hour Traffic				
Location	Period	Volumes (vpd) <sup>b</sup>	Directional Distribution		Period	Volumes (vph) <sup>c</sup>			K Factor <sup>d</sup>
Massachusetts Avenue, between Burton Road	Weekday	13,127	51%	EB	Morning	1,052	53%	WB	0.08
and Pine Court	vveekuay	13,127	J 170		Afternoon	1,051	57%	EB	0.08



**Left: Pedestrian Counts** 

Source: 1165R Mass Ave Apartments – Traffic Impact

Report, Nitsch Engineering, July 6, 2020

# Reported and Identified Safety Issues (not exhaustive)

- Solar glare
- Red-light running
- Ottoson School students crossing in the mornings
- No separated bicycle facilities
- No crosswalk on west side of intersection
- Multiple conflict points with no protected turns
- Speed? (No data at this time)
- Other issues?



### Crash data

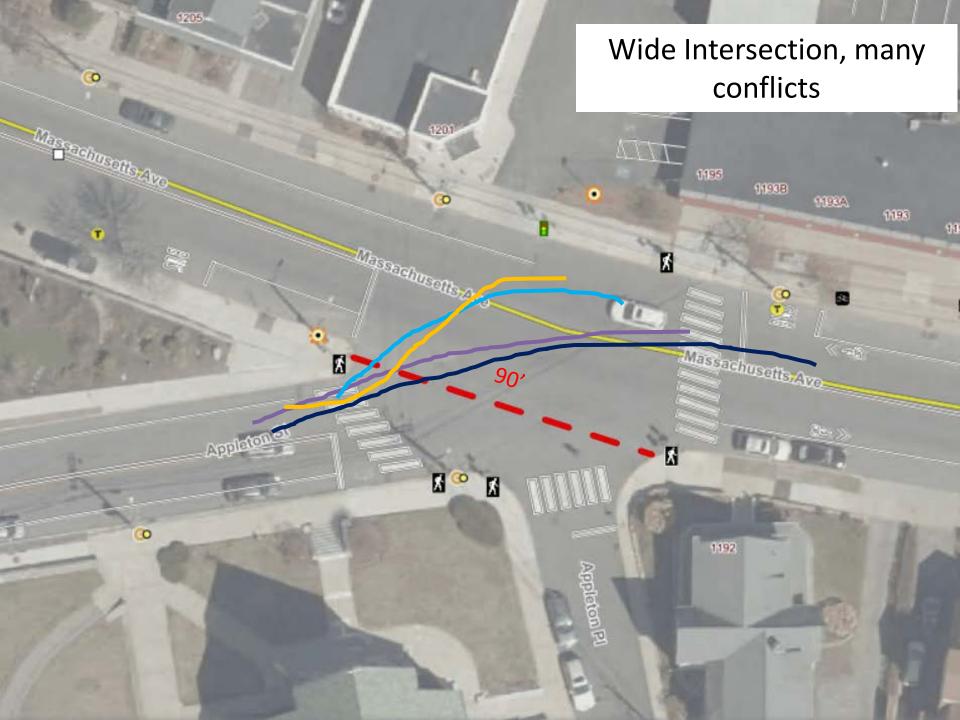
Table 5 - Crash Statistics

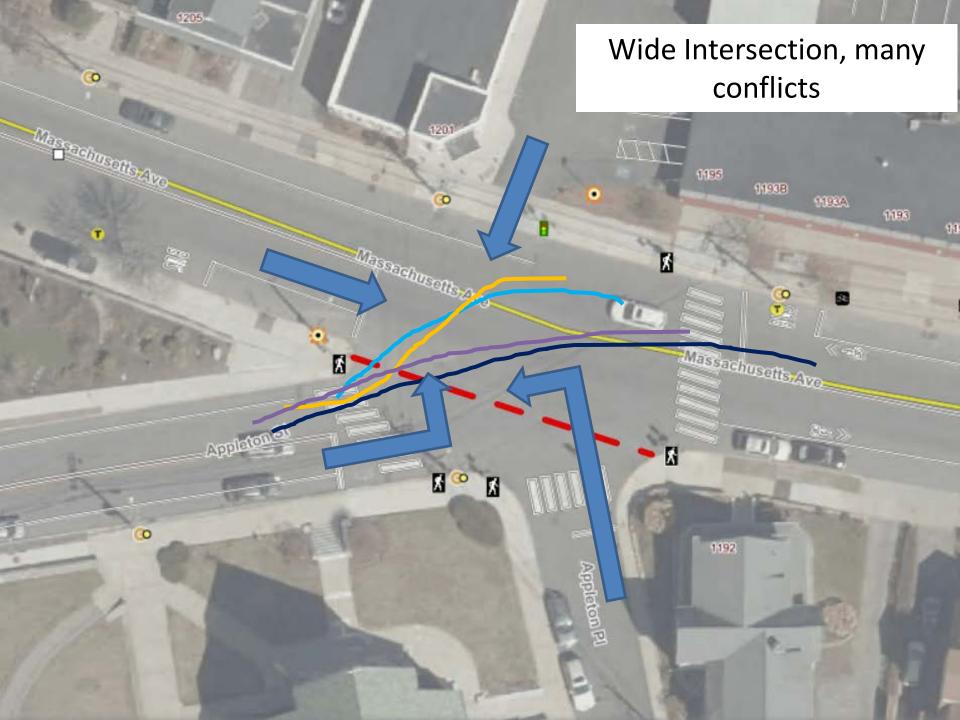
	Number of Crashes			Severity			Manner of Collision				Incl.	Percent During		
Location	Year	Total Crashes	Annual Average	PDª	Plb	NR°	F <sup>d</sup>	Ae	REf	HOg	Other <sup>h</sup>	Ped/ Bike <sup>j</sup>	Peak Hours <sup>k</sup>	Wet/Icy Conditions
Massachusetts Avenue and Appleton Street/ Appleton Place/ Commercial Driveway	2017	4	3.3	4				2	2				0%	50%
	2018	0												
	2019	6		5		1		3	3				33%	50%
	Total	10		9	0	1	0	5	5	0	0	0	20%	50%

**Table 6 – Crash Rate Summary** 

		Number of	Crash	Average Rates <sup>b,c</sup>		Comparison to Average Rates		
Location	Facility Type	Crashes	Rateb	District 4	Statewide	District 4	Statewide	
Massachusetts Avenue and Appleton Street/Appleton Place/ Commercial Driveway	Unsignalized Intersection	10	0.60	0.57	0.57	Slightly Above	Slightly Above	

Source: 1165R Mass Ave Apartments – Traffic Impact Report, Nitsch Engineering, July 6, 2020





## Key Design Principles

- How can the design address goals of the committee? How should different users be accommodated in the design?
- Should certain movements be protected or prohibited?
- Examples:
  - Conflicting movements (Left turns from Mass Ave to Appleton currently being prohibited in the evening by APD)
  - Pedestrian crossings
  - Bus stops/transit users
  - Bicyclists
  - Short term vs. long term
  - Parking
- Discussion



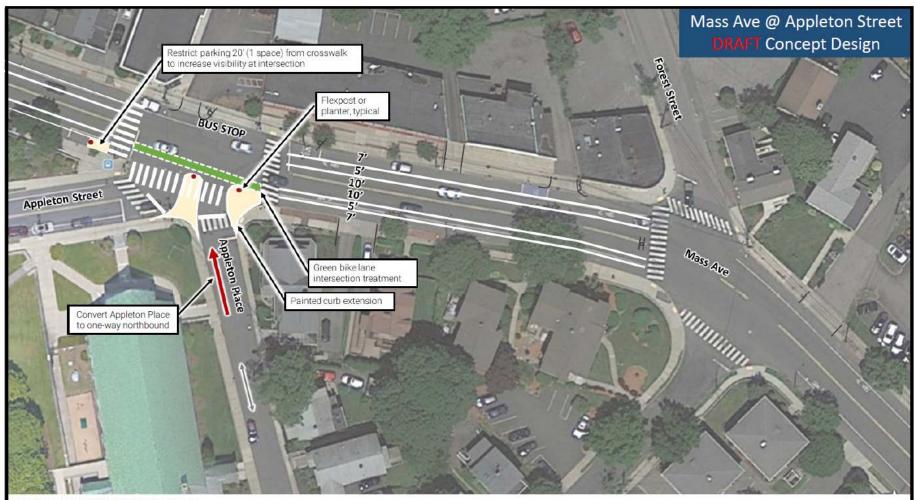
## Review of Initial Concepts

- Five concepts posted
  - Short Term Improvements developed by Phil Goff
  - Short Term Improvements developed Neighborways Design
  - Redesign concept developed by Petru Sofio
  - Short Term Improvements Alternate 1 (Developed by Green International for the Town)
  - Short Term Improvements Alternate 2 (Developed by Green International for the Town)
- Based on key design principles, what design considerations should be prioritized?



# SHORT-TERM Bicycle Safety Proposal at the Mass Ave/Appleton Intersection Arlington , MA by Phil Goff May 21, 2020





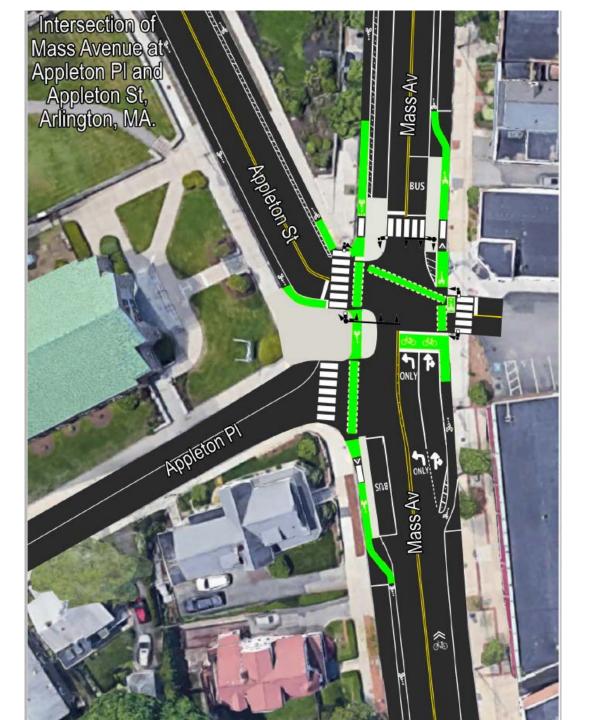
#### DRAFT / NOT FOR CONSTRUCTION

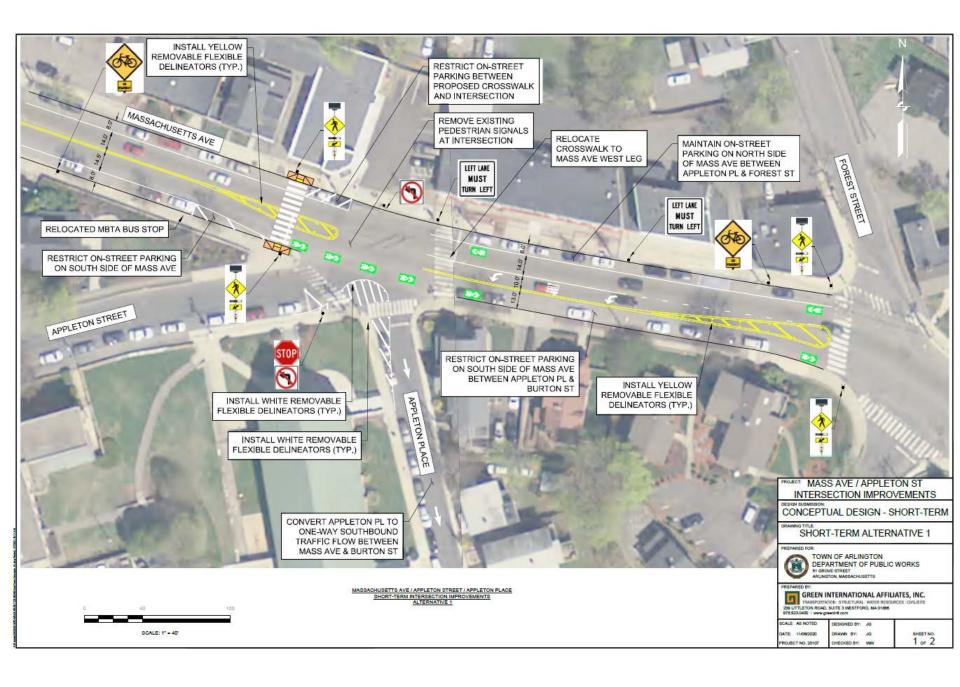
#### Not to scale

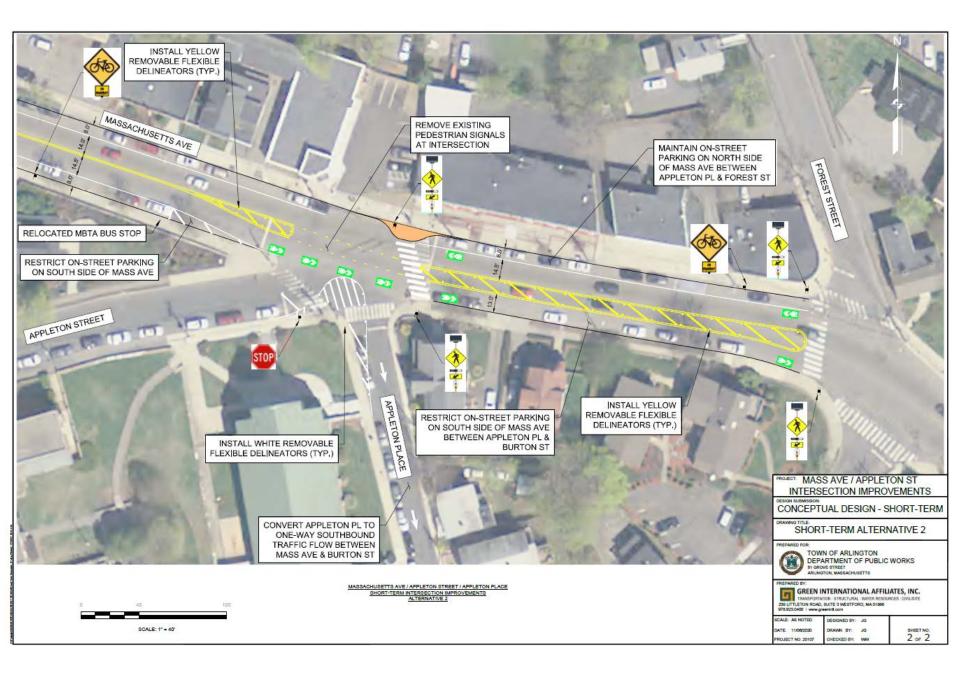
#### Notes

- Measurements from google earth need to field verify. Assumed 44' width curb to curb
- Consider / check truck restrictions on Appleton need to verify turning radii in Autoturn with SU-30. recommend restricting WB-50s
- Consider painted curb extensions or mountable concrete (similar to Paul Revere Rd @ Mass Ave)
- Consider consolidating parking to one side of the street see street mix cross sections.

neighborwaysdesign







# Next Steps & Committee Meeting Dates/Frequency

#### Next Steps:

- Identify elements that can be completed in the short term/on a trial basis as soon as possible
- Provide guidance to Green International/DPW on design concept development
- Recommendation to Select Board on short term improvements
- Begin determining longer-term improvements and process
- Committee meeting dates and frequency
  - Also: length of meetings
- Adjourn

