

# Proposed Residential Development 1021 & 1025 Massachusetts Ave. Arlington, Massachusetts

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## Transportation Impact Assessment Summary

Prepared by:



January 26, 2023

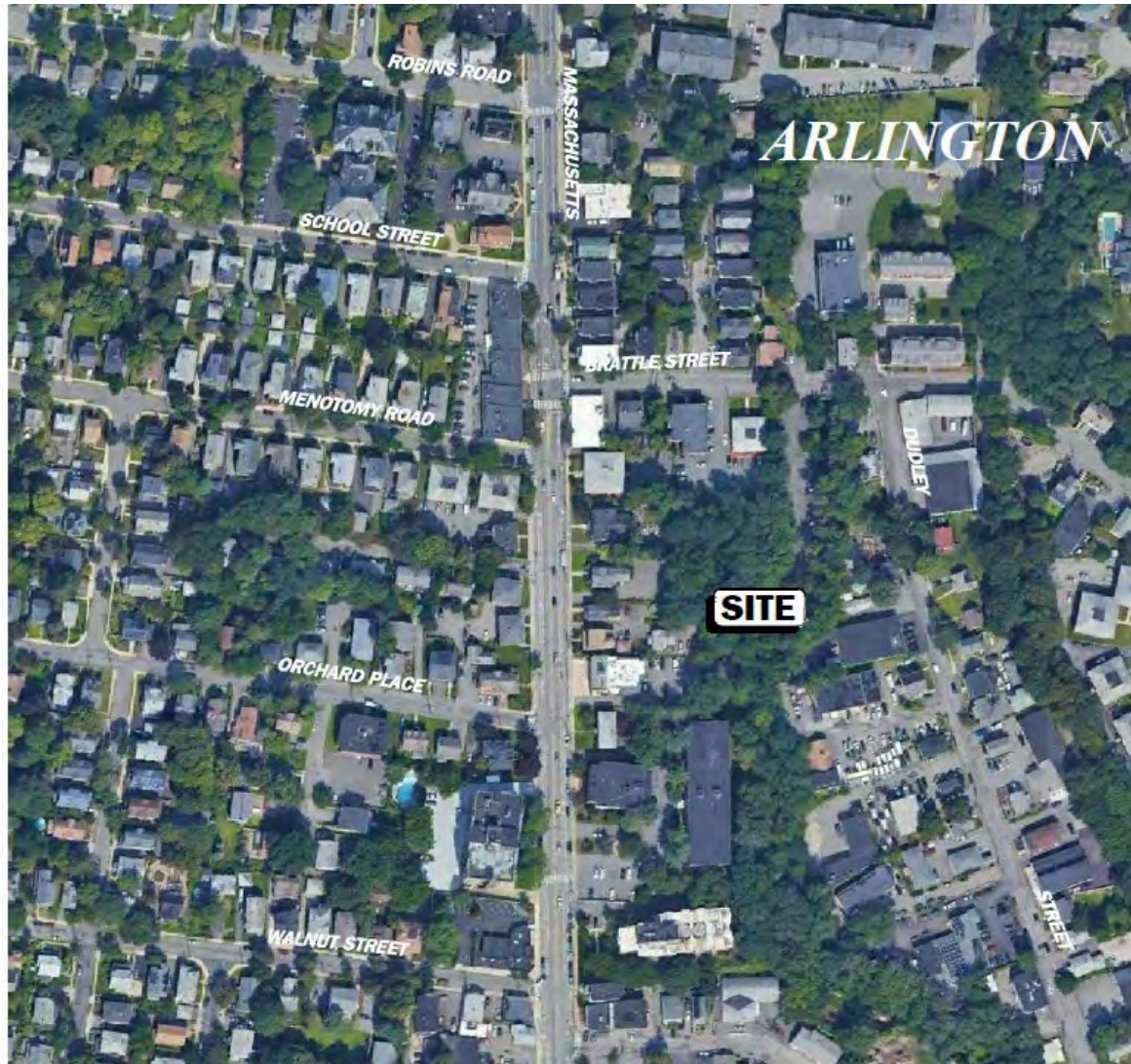
# Transportation Impact Assessment Summary

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- ▶ Prepared in accordance with with MassDOT's Transportation Impact Assessment (TIA) Guidelines and includes a detailed assessment of traffic volumes, pedestrian and bicycle accommodations and public transportation services;
- ▶ Town's review consultant (Tetra Tech) has confirmed the methodology and affirmed the findings of the TIA;
- ▶ The Project is predicted to generate less than 30 trips during the peak traffic volume hours, or less than 1 additional vehicle every 2 minutes, a level of impact that was not identified to result in material increase in motorist delays or vehicle queuing over Existing conditions;
- ▶ No specific safety deficiencies were identified with respect to the motor vehicle crash history at the study area intersections; and
- ▶ Lines of sight at the Project site driveway intersection with Massachusetts Avenue meet or exceed the recommended minimum requirements for safe operation.



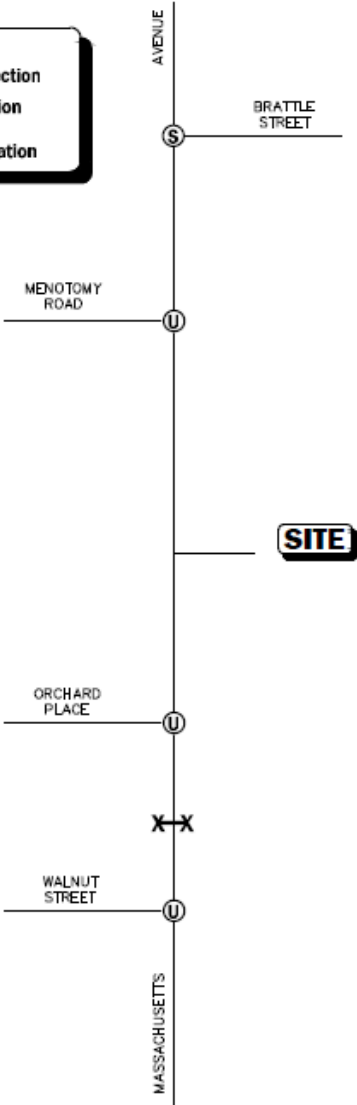
# Site Location Map



# Study Area Intersections

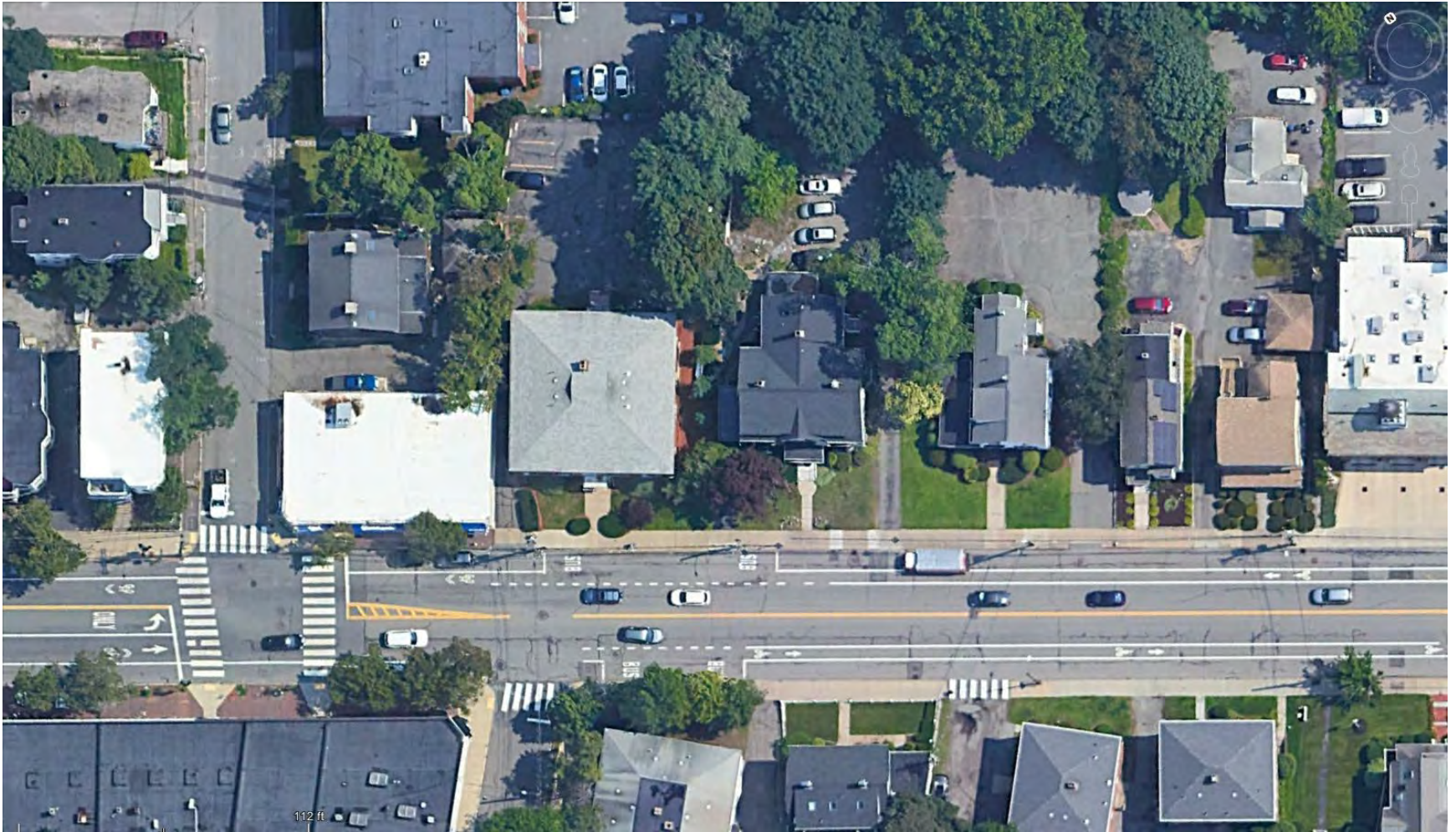
**Legend:**

- ⓪ Unsignalized Intersection
- Ⓢ Signalized Intersection
- X-X Automatic Traffic Recorder Count Location





# Existing Conditions







# Trip Generation Summary

Time Period/ Directional Distribution	Residential Trips	Commercial Trips	Non-Auto Trips	New Trips
Weekday Daily	338	50	-68	<b>320</b>
<i>Weekday Morning</i>				
<i>Peak Hour:</i>				
Entering	5	1	-1	<b>5</b>
<u>Exiting</u>	<u>15</u>	<u>1</u>	<u>-3</u>	<b><u>13</u></b>
Total	20	2	-4	<b>18</b>
<i>Weekday Evening</i>				
<i>Peak Hour:</i>				
Entering	16	3	-3	<b>16</b>
<u>Exiting</u>	<u>10</u>	<u>3</u>	<u>-2</u>	<b><u>11</u></b>
Total	26	6	-5	<b>27</b>

<sup>a</sup>Based on ITE LUC 221 – Multifamily Housing (Mid-Rise) Not Close to Rail Transit, 50 units.

<sup>b</sup>Based on ITE LUC 822 – Strip Retail Plaza, 935 sf.

<sup>b</sup>Non-auto trip reduction of 20% applied to residential trips.

# Recommendations

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- ▶ Provide MUTCD compliant signs and pavement markings at the proposed site access drive, including a STOP-sign and STOP-line at the driveway approach to Massachusetts Avenue.
- ▶ Ensure all signs and landscaping are designed and located so as not to impede sight lines to and from the project site driveway and work with the Town to stripe a “buffer” or similar accommodation on either side of the driveway.
- ▶ Work with the Town to develop a pavement marking plan for the bus lane that incorporates the project site driveway.
- ▶ Provide both interior and exterior bicycle racks for use by residents and guests.
- ▶ Provide orientation packets to residents with information on public transportation options, car sharing locations, and bicycle facilities.
- ▶ Restripe the existing midblock crosswalk located south of the Project on Massachusetts Avenue and reconstruct the southern wheelchair ramp to meet ADA design criteria.





