Traffic Impact and Access Study Summary

Proposed Residential Development Freetown Street Lakeville, MA

July 8, 2024



Civil • Structural • Transportation • Surveying

Site Location Map



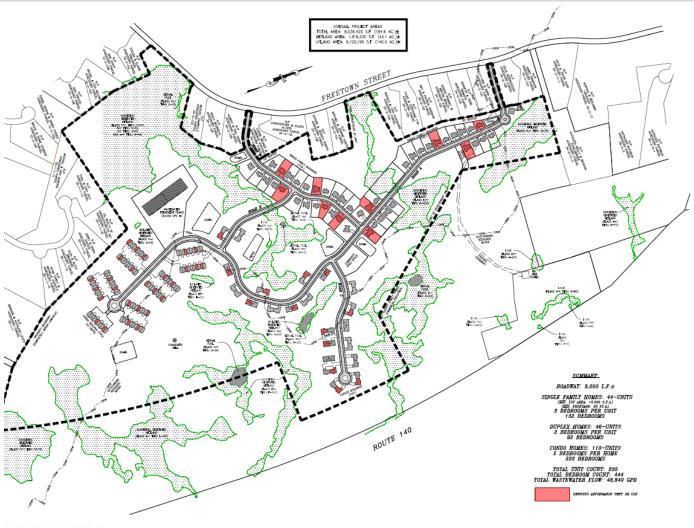


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Proposed Project

- Development of 200 units of residential housing:
 - 44 single-family homes
 - 46 duplex units
 - 110 condominium units
- Access to the project is proposed via two separate driveways (northern driveway) and southern driveway) onto the eastern side of Freetown Street
- In conjunction with the project, significant roadway improvements are proposed at the intersection of County Street with Freetown Street

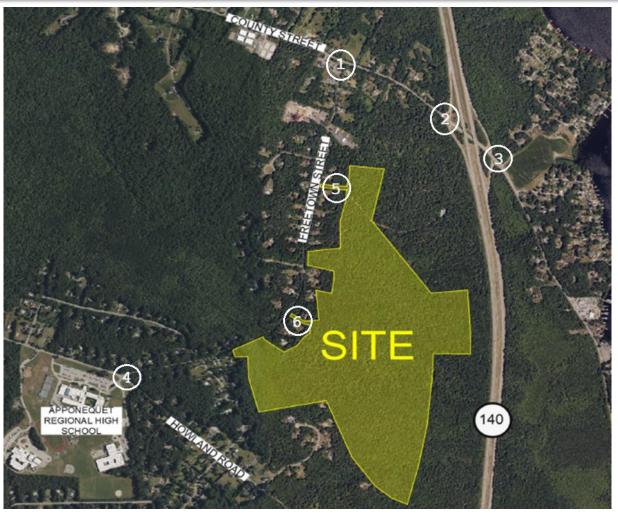
Site Plan





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Study Area





Study Methodology

- Evaluation of Existing Conditions
 - Traffic Volumes
 - Roadway and Intersection Geometrics
 - Motor Vehicle Crash History
 - Vehicle Speeds
 - Sight Distance Analysis
- Forecast to Future Conditions
 - Seven Year Planning Horizon (2031)
 - Account for growth in traffic independent of the project
 - Trip Generation based on ITE trip generation data for residential developments

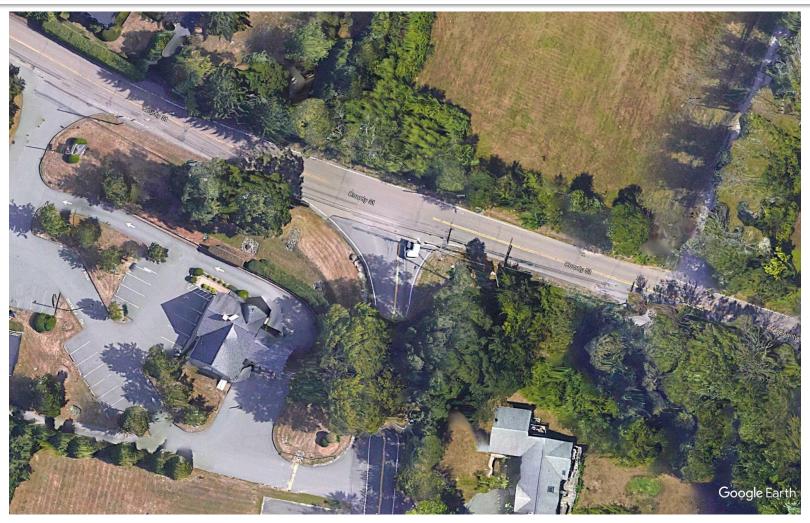
Trip Generation Summary

Time Period	44 Detached Units ^a	156 Attached Units ^b	Total Trips
Weekday Daily	470	1,140	1,610
Weekday AM Peak Hour			
Enter	9	19	28
Exit	<u>26</u>	<u>56</u>	82
Total	35	75	110
Weekday PM Peak Hour			
Enter	29	53	82
Exit	<u>17</u>	<u>37</u>	54
Total	46	90	136

a ITE Land Use Code 210 (Single Family Housing – Detached Housing) applied to 44 units.

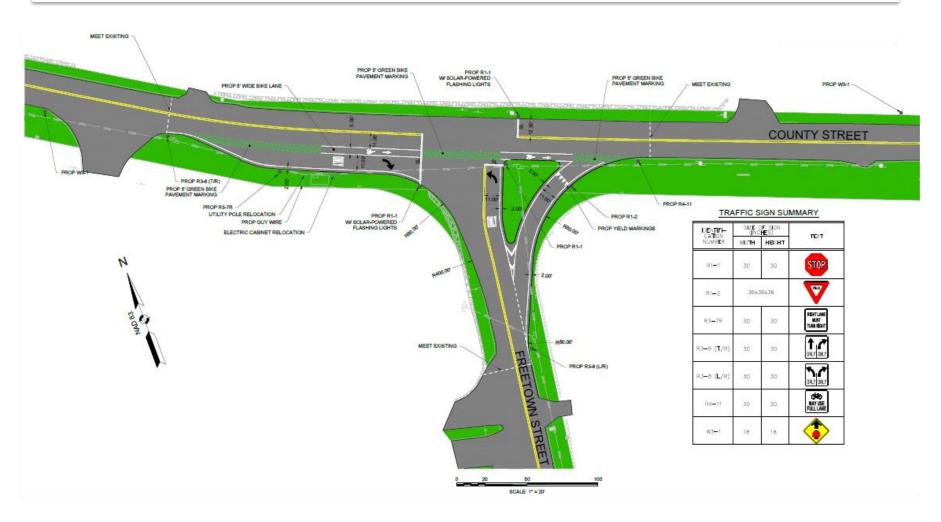
b ITE Land Use Code 215 (Single Family Housing – Attached Housing) applied to 156 units.

County Street at Freetown Street – Existing Conditions





Proposed Mitigation Plan





Conclusions and Recommendations

- Project is expected to generate approximately 2 trips per minute during peak hours of commuter traffic
- Majority of traffic expected to arrive and depart via Freetown Street to the north
- The proposed site access driveways provide adequate sight distance to ensure safe operation
- The proposed site driveways should be designed to applicable MUTCD design criteria, including STOP-signs and painted stop lines, with all landscaping located and maintained to ensure adequate sight lines are maintained at both locations
- With implementation of proposed roadway improvements, operating conditions will be improved as compared to existing conditions at the intersection of County Street with Freetown Street