The Residences at Bel Mont

September 21, 2021



Study Area







Existing Condition

EXISTING ROADWAY TRAFFIC-VOLUME SUMMARY

			ay Morning I (7:30– 8:30 A		Weekday Evening Peak Hour (4:30 – 5:30 PM)			
	Daily		Percent of			Percent of		
	Volume	Volume	Daily	Predominant	Volume	Daily	Predominant	
Location	(vpd) ^a	(vph) ^b	Traffic ^c	Flow	(vph)	Traffic	Flow	
Pleasant Street east of Olmsted Drive	12,175	949	7.8	52% WB	1,148	9.4	52% WB	

MOTOR VEHICLE CRASH DATA SUMMARY^a

Scenario	Pleasant Street (Signalized)	Olmsted Drive (Unsignalized)
Total	49	1

All intersections below MassDOT average crash rates

^aSource: MassDOT, 2013 through 2017.

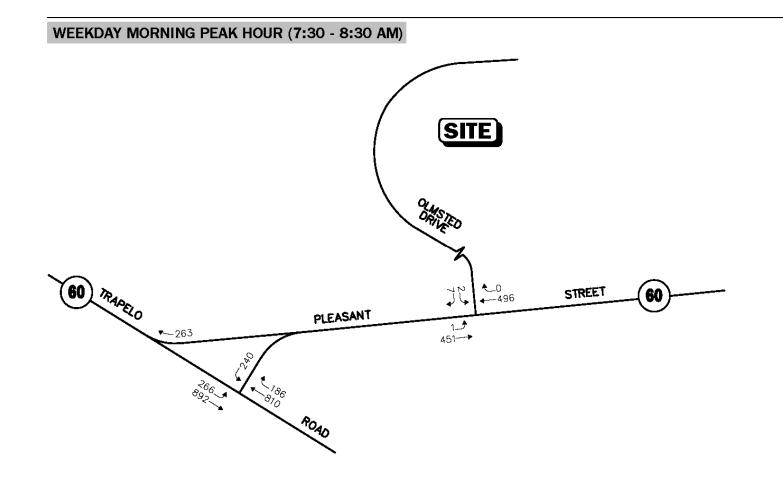
PUBLIC TRANSPORTATION

- Commuter rail service
- Local bus service

VEHICLE TRAVEL SPEED MEASUREMENTS

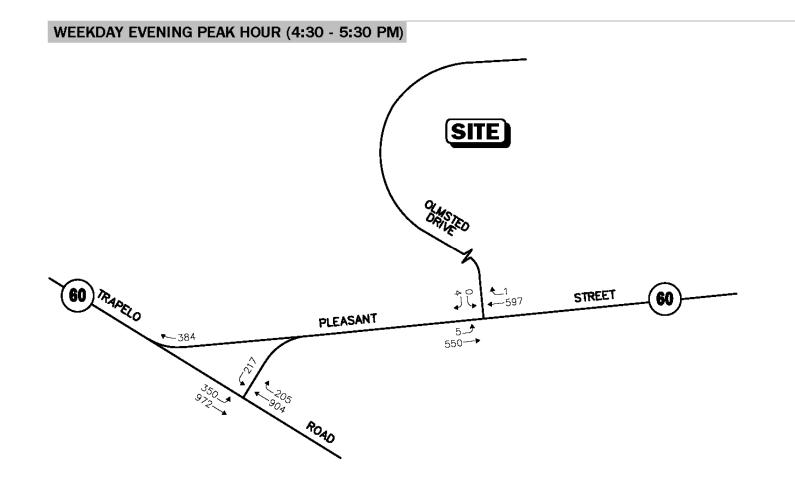
	Pleasant Street Eastbound	Pleasant Street Westbound
Mean Travel Speed (mph)	31	31
85th Percentile Speed (mph)	34	34
Speed Limit (mph)		















	ITE	Senior Hous	ing	ITE M	ultifamily Hous	ing		
		Transit						
		Reduction			Transit			
		Trips			Reduction			Total New trips
Time Period/Direction	(93 Units) ^a	(5%)	Total	(57 Units) ^b	Trips (10%)	Total	TOTAL	(150 units)
Average Weekday	348.49	17.42	331.07	308.90	30.89	278.01	609.08	610
Weekday Morning Peak Hour:								
Entering	6.45	0.32	6.13	5.34	0.53	4.81	10.94	11
Exiting	<u>11.97</u>	0.60	<u>11.37</u>	<u>15.18</u>	<u>1.52</u>	<u>13.66</u>	<u>25.03</u>	<u>25</u>
Total	18.42	0.92	17.50	20.52	2.05	18.47	35.97	36
Weekday Evening Peak Hour:								
Entering	13.27	0.66	12.61	15.30	1.53	13.77	26.38	26
Exiting	<u>11.31</u>	0.57	<u>10.74</u>	<u>9.78</u>	<u>0.98</u>	8.80	<u>19.54</u>	<u>20</u>
Total	24.58	1.23	23.35	25.08	2.51	22.57	45.92	46

^aBased on ITE LUC 252, *Senior Adult Housing*.

^bBased on ITE LUC 221, *Multifamily Housing (Mid-rise)*.



Traffic Mitigation and Monitoring Agreement (TMMA) dated November of 1999.

Time Period/ Direction	TMMA Limits (Vehicle Trips)	Proposed 150 Housing Units (Vehicle Trips)
Average Weekday	1,148	610
Weekday Morning Peak Hour	36	36
Weekday Evening Peak Hour	92	46



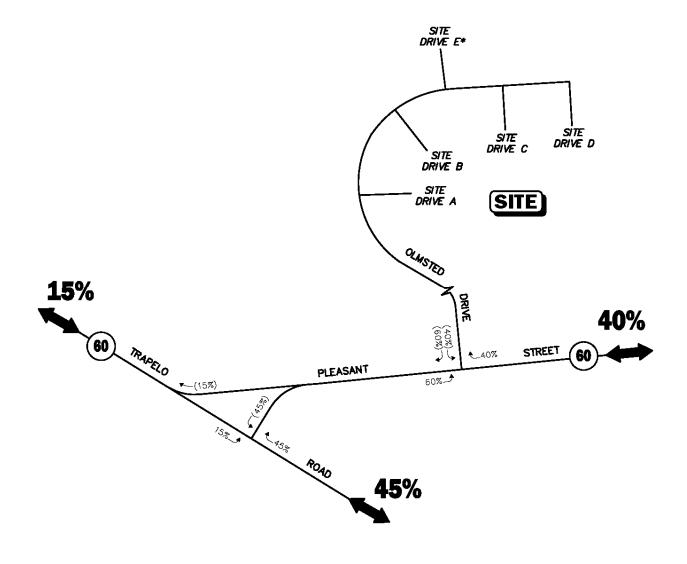
Added two units at the Chapel Building (152 total units)

	ITE Senior Housing ITE Multifamily Housing							
		Transit Reduction			Transit Reduction		Total New trips	
Time Period/Direction	(93 Units) ^a	Trips (5%)	Total	(59 Units) ^b	Trips (10%)	Total	(152 units)	TMMA ^c
Average Weekday	348.49	17.42	331.07	319.80	31.98	287.82	618.89	1,148
Weekday Morning Peak Hour:								
Entering	6.45	0.32	6.13	5.52	0.55	4.97	11.1	
Exiting	<u>11.97</u>	0.60	<u>11.37</u>	<u>15.72</u>	<u>1.57</u>	<u>14.15</u>	<u>25.52</u>	
Total	18.42	0.92	17.50	21.24	2.12	19.12	36.62	36
Weekday Evening Peak Hour:								
Entering	13.27	0.66	12.61	15.84	1.58	14.26	26.87	
Exiting	11.31	0.57	10.74	10.12	1.01	9.11	19.85	
Total	24.58	1.23	23.35	25.96	2.59	23.37	46.72	92

^aBased on ITE LUC 252, Senior Adult Housing.

^bBased on ITE LUC 221, *Multifamily Housing (MidRise)*.





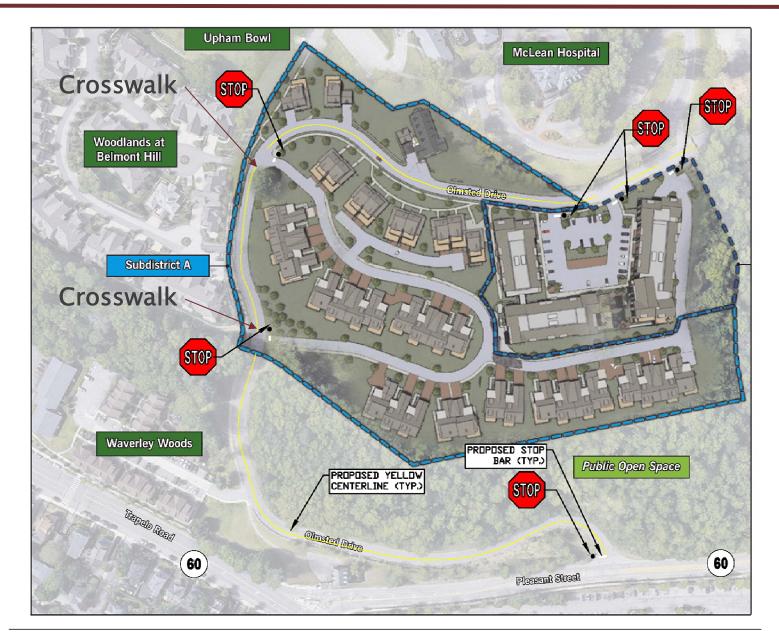




Warrant No.	Description	Satisfied for 2021 Existing Conditions	Satisfied for 2028 No-Build Conditions	Satisfied for 2028 Build Conditions w/Zone 3
1	Eight-Hour Vehicular Volume			
	Condition A – Min. Vehicular Volume	No	No	No
	Condition B – Interruption of Continuous Traffic	No	No	No
2	Four-Hour Vehicular Volume	No	No	No
3	Peak Hour	No	No	No
4	Pedestrian Volume	No	No	No
5	School Crossing	No	No	No
6	Coordinated Signal System	No	No	No
7	Crash Experience	No	No	No
8	Roadway Network	No	No	No
9	Grade Crossing	No	No	No

Conceptual Improvement Plan







Site Access:

- Improved Olmsted Drive through striping of travel lanes, centerline, and crosswalks
- Stop control at driveways

Off-Site Improvements

• Olmsted Drive at Pleasant Streets/STOP control

Transportation Demand Management:

- On-Site Transportation Coordinator
- Provide secure weather-protected Resident and outdoor Visitor bike racks
- "Welcome" transportation options packet provided to new residents
- Access to real-time public transportation and rideshare schedules for residents
- Car/vanpool resources identification for residents



TMMA-Traffic Monitoring Agreement

- A "Weekly Sampling Report"
- TDM plan shall be submitted within six months after the issuance of a building permit

Conclusions



- Project meets TMMA limits
- No Traffic Signal Warrant met
- Safe access and egress provided
- Minimal impact as required by TMMA