

MassWorks Grant Application Park Avenue/Marsh Street/Prospect Street Improvement Project

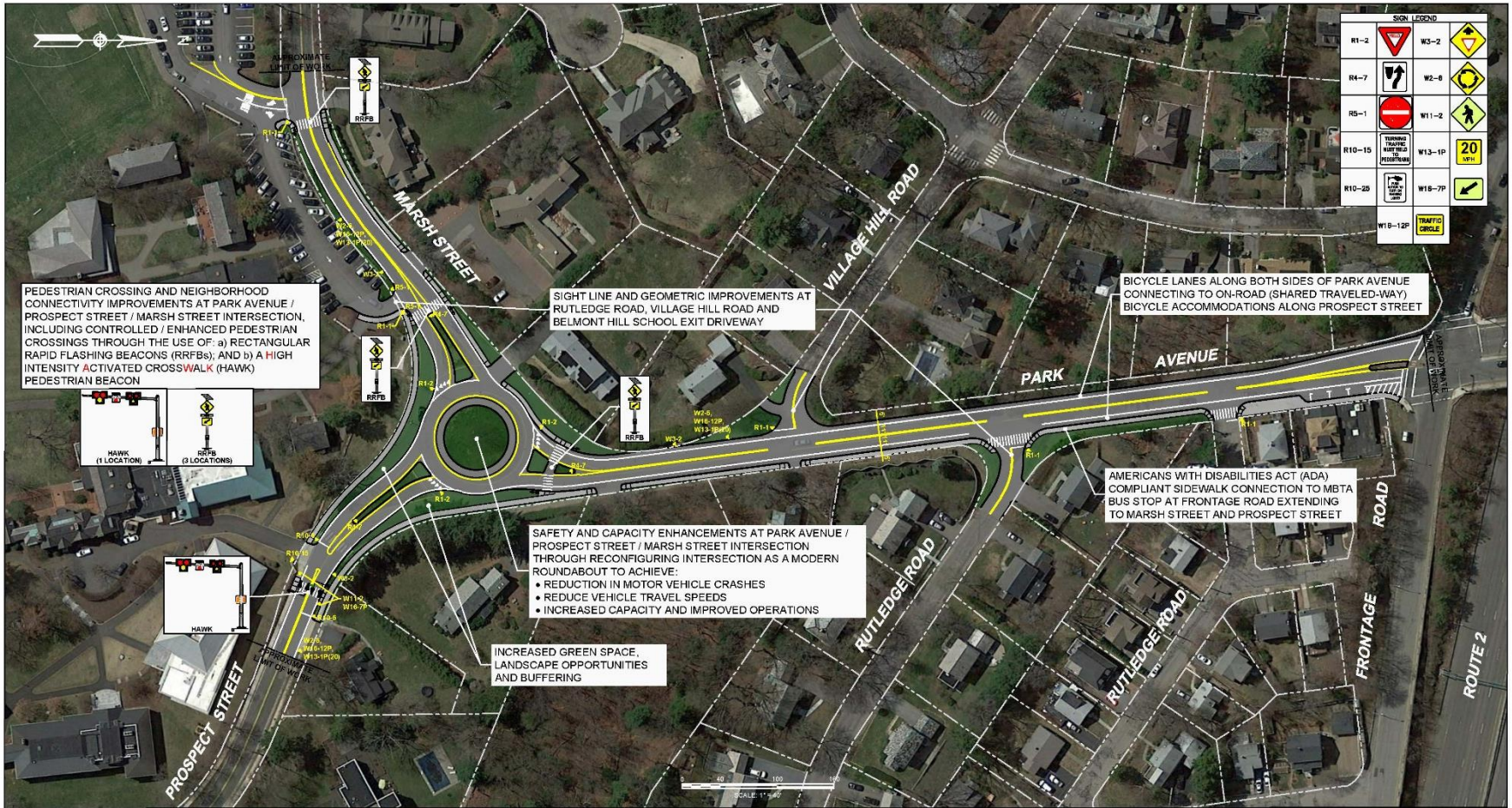


June 27, 2019

Existing Conditions Context



Original Conceptual Improvement Plan



SUMMARY OF ROUNDABOUTS BENEFITS VS. TRAFFIC SIGNAL CONTROL

Lives saved

- Up to a 90% reduction in fatalities
- 76% reduction in injury crashes
- 30-40% reduction in pedestrian crashes
- 75% fewer conflict points than a four way intersection

Slower vehicle speeds (under 30 mph)

- Drivers have more time to judge and react to other cars and pedestrians
- Advantageous to older and novice drivers
- Reduces the severity of crashes
- Keeps pedestrians safer

Efficient traffic flow

- 30-50% increase in traffic capacity

Reduction in pollution and fuel use

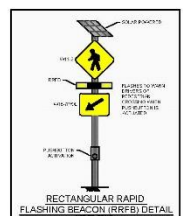
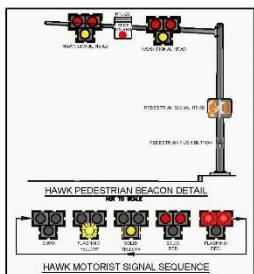
- Improved traffic flow for intersections that handle a high number of left turns
- Reduced need for storage lanes

Increased service life

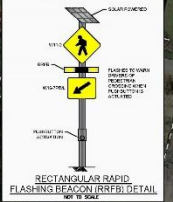
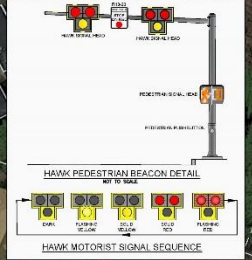
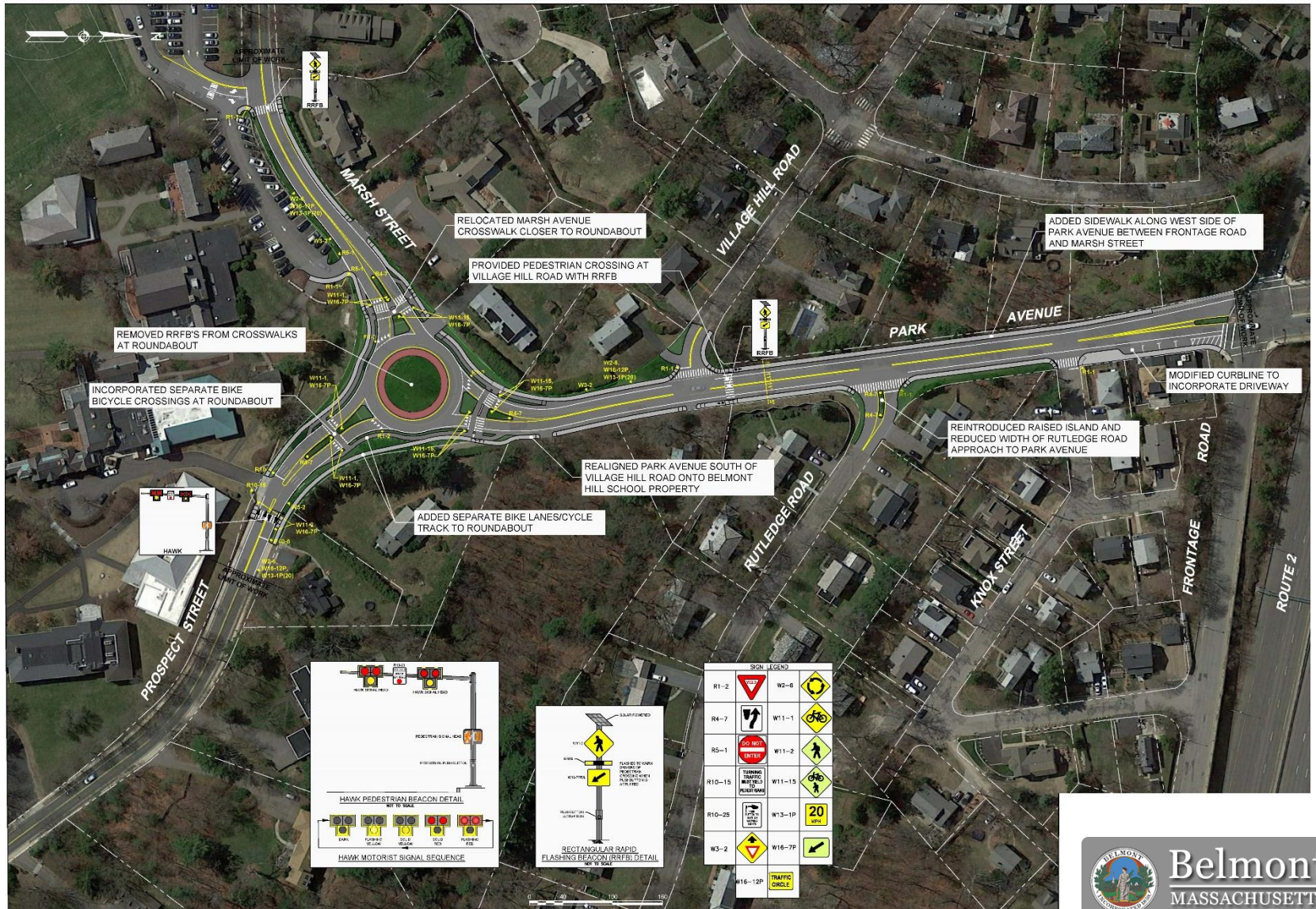
- Service life of a roundabout is 25 years (vs. the 10-year service life of signal equipment)

Community benefits

- Traffic calming
- Aesthetic landscaping



Revised Conceptual Improvement Plan



SIGN LEGEND

R1-2		W2-B	
R4-7		W11-1	
RS-1		W11-2	
R10-15		W11-15	
R10-25		W13-1P	
W3-2		W16-7P	
W16-12P			

Preliminary Cost and Next Steps

➤ Preliminary Cost Estimate:

- Design and Survey: \$260,000
- Construction: \$1,780,000*
- **Total: \$2,040,000**

* includes a 25% contingency

➤ Next Steps:

- Prepare MassWorks Grant Application
- Develop Preliminary Improvement Plan and Cost Estimate
- Present Completed MassWorks Grant Application to the Board of Selectmen for Endorsement
- Submit MassWorks Grant Application to EHOED