Sidewalk & Water Infrastructure Study Updates Selectboard Meeting

Town of Holliston, MA Monday, December 6, 2021

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Pedestrian Accessibility Water Supply Water Distribution

Pedestrian Accessibility Recap





Pedestrian Accessibility Study Methodology

- 1. Stantec conducted town-wide pedestrian ramp, sidewalk, and crosswalk inventory (located via iPad w/web-based GIS data form)
- 2. General condition assessment was performed on all ramps, sidewalks, and crosswalks.
 - a) Photograph each asset (Ramp & Sidewalk)
 - b) Ramp and sidewalk material identification
 - c) Surface material condition
 - d) Obvious ramp/sidewalk deficiency categories, based on 2020 ADA/MAAB standards
 - e) Crosswalk existence and condition
 - f) Measured running slope on ramp and landing area (2' Smart Level)
 - g) Measured cross slope on sidewalk (2' Smart Level)
- 3. Integrated asset assessment into Geographic Information System (GIS) to aid long-term repair strategy
- 4. Calculated Network Priority Ranking (NPR) for each asset



Network Priority Ranking Formula



Results of Pedestrian Accessibility Study

97%

Stantec determined 97% of total ramps do not comply with ADA/MAAB regulations. 61%

Stantec determined that 61% of all sidewalks must be repaired or replaced due to existing surface condition. **58%**

Stantec determined that approximately **58%** of total sidewalks do not comply with ADA/MAAB regulations.



Town-wide Ramp and Sidewalk Backlog and Projected Funding Levels



\$100K

per year to reconstruct noncomplying ramps **\$5.60M** Sidewalk Repair Backlog

\$630K

per year to maintain today's SCI **6 Miles** New Sidewalk Gap Analysis

\$270K

per year to add new sidewalks for improved network

10 Year Pedestrian Improvement Plan



Water Supply and Distribution



Population Projections



Future Water Projections

Year	<u>2025</u>	<u>2030</u>	<u>2035</u>	<u>2040</u>
Average Day	0.989	0.999	1.004	1.008
Maximum Day	1.657	1.674	1.682	1.689
(1.68*×Average Day)				

1.41 MGD

Water Management Act Approved Withdraw



Water Supply Recommendations

- Complete proper maintenance of existing sources
- Consider optimization of existing sources with increased staffing
- No new sources required at this time, review water demand data every 5 years

Water Distribution

Current Miles Distribution by Install Decade



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Water Distribution

Total Pipe - 88 miles

- Existing backlog
 - \$17.7M
 - 14.3 miles
- 25-year plan
 - \$32.3M
 - 26 miles

- Remaining after 25-year plan
 - \$90M (*future dollars)
 - 35.6 miles

Dashboard Demonstration

QUESTIONS?

COMMENTS?

