

**To:** Mayor and Board of Trustees  
**From:** Ad-Hoc Committee on LED Streetlights (“Committee”)  
**Re:** Update on LED Streetlight Pilot Program  
**Date:** July 11, 2017

### **Executive Summary**

In July 2016, the Committee launched an LED streetlight pilot program to install various LED streetlights at seven locations on High Traffic Roads<sup>1</sup> and Town and Country Locations<sup>2</sup>. As detailed in a memo to the board dated September 30, 2016, during the Pilot one of the manufacturers of the pilot LED Streetlights informed the Committee that an updated version of their fixture would be released in early 2017 with material improvements to the lighting. The Pilot was extended to allow for the Committee to include these updated fixtures in the Pilot. The Village has received these updated fixtures and will be installing them at the previous Pilot locations as well as adding one additional pilot location. The Committee recommends the Pilot continue for three months to allow ample time for the Committee and residents to review and provide feedback on the Pilot LED streetlights.

### **New Fixture Improvements**

Based on discussions with the manufacturer, following are the material improvements of the updated fixtures:

- Improved optics (the lens that sits over the LEDs and directs the light) that will improve the light distribution on the road
- Improved LEDs that will produce a more uniform light color
- Increased energy efficiency
- Additional color options including a softer color
- Improved installation brackets (to address potential damage to the fixture during installation)

### **Additional Updates**

The Committee has continued working with the industry to find appropriate fixtures for our various types of fixtures and streets. We have also continued our research and discussions of LED Streetlight upgrades with other municipalities (both locally and nationally). This research included attending a large lighting trade show which allowed for the viewing of a number of LED Streetlights and the opportunity to discuss and review upcoming technologies in the LED streetlight market.

Should residents have any questions regarding the LED Streetlight Pilot Program our Committee can be reached at [LED@Scarsdale.com](mailto:LED@Scarsdale.com). We welcome all questions and feedback from the community. A map of the Pilot locations is enclosed on the following page.

Once the LED streetlights are installed at the pilot locations, the Committee will publicize the continuation of the Pilot.

A copy of the original Pilot Launch Memo and September Update Memo are enclosed as appendices to this memo.

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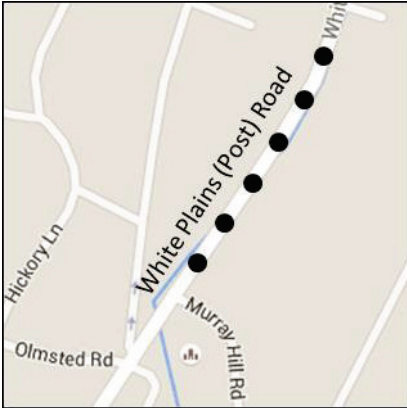
<sup>1</sup> Mamaroneck Road, Heathcote Road and three locations on White Plains (Post) Road

<sup>2</sup> Tisdale Road and Springdale Road

# LED Pilot Locations

(Each location has different LED lights)

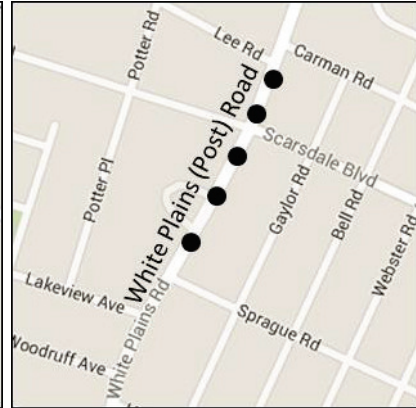
## White Plains (Post) Road: 3 locations



Six lights from Murray Hill towards Fenimore



Six lights between Crane and Wayside Lane



Five lights between Lee and Sprague

## Mamaroneck Road



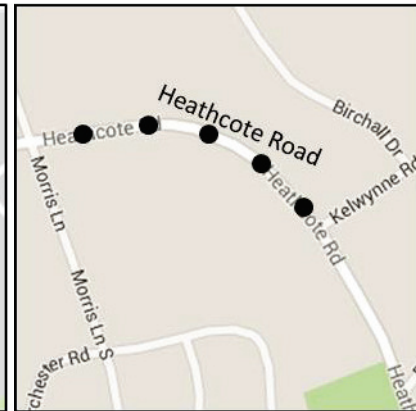
Six lights between Garden and Sheldrake

## Mamaroneck and Saxon Woods Roads



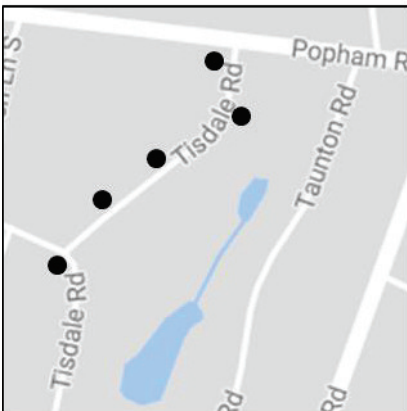
Six lights between Myrtledale and Saxon Woods

## Heathcote Road



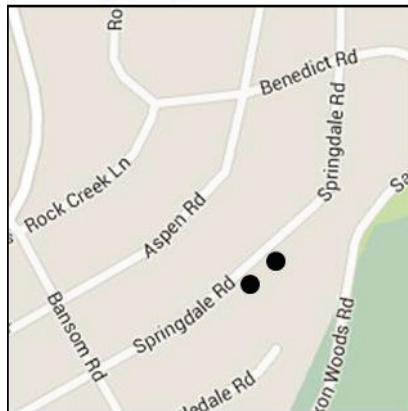
Five lights between Morris and Kelwynne

## Tisdale Road



Five lights between Popham and Lockwood

## Springdale Road



Two lights between Bansom and Benedict

## Streetlight Types

### Traditional Streetlight

Post,  
Mamaroneck,  
Heathcote  
locations



### Town & Country Light

Tisdale and  
Springdale  
locations



Appendix 1: Original Pilot Launch Memo (July 12, 2016)

## Village LED Streetlight Pilot Program Underway

The Village LED Streetlight Pilot Program is underway with pilot LED streetlights installed in a number of locations throughout the Village. Pilot lights are installed on sections of White Plains (Post) Road, Heathcote Road, Mamaroneck Road, Tisdale Road and Springdale Road. Specific locations can be found on the attached maps.

**We want to hear what residents think about the lights!** This phase of the Pilot will continue for the next three months. Subject to the results of this phase of the Pilot, the following streets are being considered for an upgrade to LED streetlights: White Plains (Post) Road, Heathcote Road (Post Road to Five Corners), Mamaroneck Road and Weaver Street (note: some lights on Weaver Street have already been converted to LEDs - these lights are owned and were converted to LEDs by the City of New Rochelle). In addition to these streets, locations with Town & Country Style post-top fixtures (see attached picture) are also being considered for an LED upgrade. These locations include parts of the Crane Berkeley and Secor Farms areas as well as a few other streets throughout the Village. Please send any comments or questions to [LED@Scarsdale.com](mailto:LED@Scarsdale.com) or drop off comments at Village Hall at the LED comment box located on the first floor counter.

**Background of the LED Committee and work completed to date:** On April 28, 2015, the Board of Trustees established an Ad Hoc Committee to research Light Emitting Diode (LED) street lights in order to improve lighting, reduce Village costs for electricity and maintenance, and conserve energy. To that end, the Committee was asked to develop a pilot program and make a recommendation on how best to move forward. The Committee conducted extensive research on LED street lighting, met with vendors, examined LED streetlights installed in neighboring communities and tested various fixtures to determine the proper lights and locations to pilot in Scarsdale.

Based on the Committee's research and given Scarsdale's largely residential setting, we believed it was important to test a variety of lights including some with warmer, less bright colors than have been installed elsewhere. In the fall of 2015 the Committee installed lights of varying color and brightness on three streets in Scarsdale: Fox Meadow Road, Madison Road and Heathcote Road. Based on the results of this sample and resident feedback, the Committee's proposal was to focus on two types of lights in Scarsdale as a first phase: lights on higher traffic streets and locations with Town & Country style post-top fixtures. The Committee's report to the Board, dated January 26, 2016, can be found on [Scarsdale.com](http://Scarsdale.com) under the "hot topics" section or by requesting a copy from [LED@Scarsdale.com](mailto:LED@Scarsdale.com). Hard copies are also available at Village Hall at the first floor desk window next to the comment box.

**Next Steps:** The Committee has devoted significant time into researching LED streetlights to find the appropriate fixtures for Scarsdale. Resident feedback is important to the Committee in helping determine how the project moves forward and we hope to hear from everyone in the Village. Prior to any rollout after the Pilot, the Committee will report back to the Board of Trustees at a meeting open to all.

## **Appendix 2: Update Pilot Memo (September 30, 2016)**

**To:** Mayor and Board of Trustees  
**From:** Ad-Hoc Committee on LED Streetlights (“Committee”)  
**Re:** Update on LED Streetlight Pilot Program  
**Date:** September 30, 2016

### **Executive Summary**

The Committee has been piloting LED Streetlight at seven locations on High Traffic Roads<sup>3</sup> and Town and Country Locations<sup>4</sup> since July 12, 2016. The initial timeframe for the pilot was planned at three months, to conclude on October 12, 2016. One of the manufacturers of the pilot LED Streetlights recently informed the Committee a new version of their fixture will be released in early 2017 with material improvements to the lighting. The new version will also address a potential defect in the housing that could cause damage to the fixture upon installation. These upgrades are expected to address some of the concerns expressed by residents and Committee members in regards to the current Pilot fixtures.

The Pilot lights impacted are those on Mamaroneck Road (Garden Road to Sheldrake Road) and White Plains (Post) Road (Crane Road to Wayside Lane). These lights will be removed and replaced with the non-LED streetlights that were previously installed at these locations. The other Pilot light (from other manufacturers) will remain installed.

In light of these developments, the Committee recommends that the Pilot be extended to allow for testing of these new fixtures. The new fixtures are expected to be available in early 2017.

### **New fixture updates**

Based on discussions with the manufacturer, we are expecting a number of material improvements to the fixture in the upcoming version:

- Improved optics (the lens that sits over the LEDs and directs the light) that will improve the distribution of the light on the road
- Improved LEDs that will produce the a more uniform light color
- Increased energy efficiency
- Additional color options including a softer color
- Updated installation bracket to address potential damage to the fixture during installation

While the extent of each of the improvements will not be known until the new version is released, and while the Committee realizes that there will always be technological improvements, the Committee feels these potential improvements are worth extending the Pilot period to include this new fixture.

### **What we'll be doing while we wait**

Over the next few months the Committee will continue working with the industry to find appropriate fixtures for our various types of fixtures and streets. We will also continue our research and discussions of LED Streetlight upgrades with other municipalities (both locally and nationally).

Should any residents have questions regarding the LED Streetlight Project our Committee can be reached at [LED@Scarsdale.com](mailto:LED@Scarsdale.com). We welcome all questions and feedback from the community. A copy of the original Pilot Launch Memo with map locations is enclosed on the following pages.

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<sup>3</sup> Mamaroneck Road, Heathcote Road and three locations on White Plains (Post) Road

<sup>4</sup> Tisdale Road and Springdale Road