

# Overall Executive Summary

## **WHAT IS PAVEMENT MANAGEMENT?**

An effective pavement management plan evaluates existing road conditions and formulates a plan to address and improve deteriorating infrastructure. Pavement management recognizes that a municipality is never “done” maintaining its roads and therefore must implement a long term strategy to anticipate road improvements and budget accordingly. By planning improvements and maintenance activities comprehensively, the Village of Shorewood can maximize the useful life of existing pavements and ultimately reduce the concentration on reconstruction and focus on maintenance.

The 2009 Village of Shorewood Pavement Management Program incorporates three capital management plans: the Village’s existing Street Replacement Program; a companion Pavement Maintenance Program; and a new alley maintenance program which includes both reconstruction and maintenance components (illustrations follow).

## **BACKGROUND**

The Village of Shorewood owns and maintains approximately 28 miles of roadway. Based upon 2007 pavement conditions, over one third of these streets are currently in need of reconstruction.

In 2005, the Department of Public Works and Bonestroo developed a biennial Street Replacement Program with the goal of reconstructing each of the residential streets within the corporate limits over a 30-year period. While the program provides an excellent basis for the planning of pavement reconstruction and accompanying utility infrastructure management, it does not account for the continuous deterioration of roadways. Without an effective pavement maintenance program to accompany the Street Replacement Program, the Village will constantly be reconstructing its roads with no relief from reconstruction projects or the expenditures which accompany them.

The 2007 WISLR pavement ratings were used to produce the report as they were the most current ratings available when the Pavement Management Plan was developed. The information provides a baseline for evaluating the Village’s roads.

## **PAVEMENT MAINTENANCE PROGRAM**

The Street Replacement Program is the foundation of the Village’s management program. The previously adopted program is proposed to continue through 2030 with reconstruction projects implemented in even-numbered years.

The Pavement Maintenance Program will supplement the existing reconstruction program. The proposed program outlines activities in the years 2011-2021. For budgetary purposes, the Village will complete maintenance projects on a biennial bases, opposite reconstruction projects.

The Alley Maintenance Program proposes a similar strategy for the public alleys in the Village and incorporates both reconstruction and maintenance activities. The alley program is designed to run concurrently with the Pavement Maintenance Program. It is scheduled for the odd year and structured on a biennial basis for ten years.

	<b>EVEN YEAR</b>	<b>ODD YEAR</b>
Street Replacement Program	\$2,000,000.00	--
Pavement Maintenance Program	--	\$220,000.00
Alley Maintenance Program	--	\$127,500.00
<b>TOTAL</b>	<b>\$2,000,000.00</b>	<b>\$347,500.00</b>

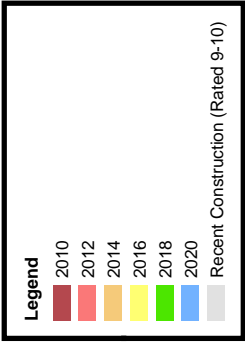
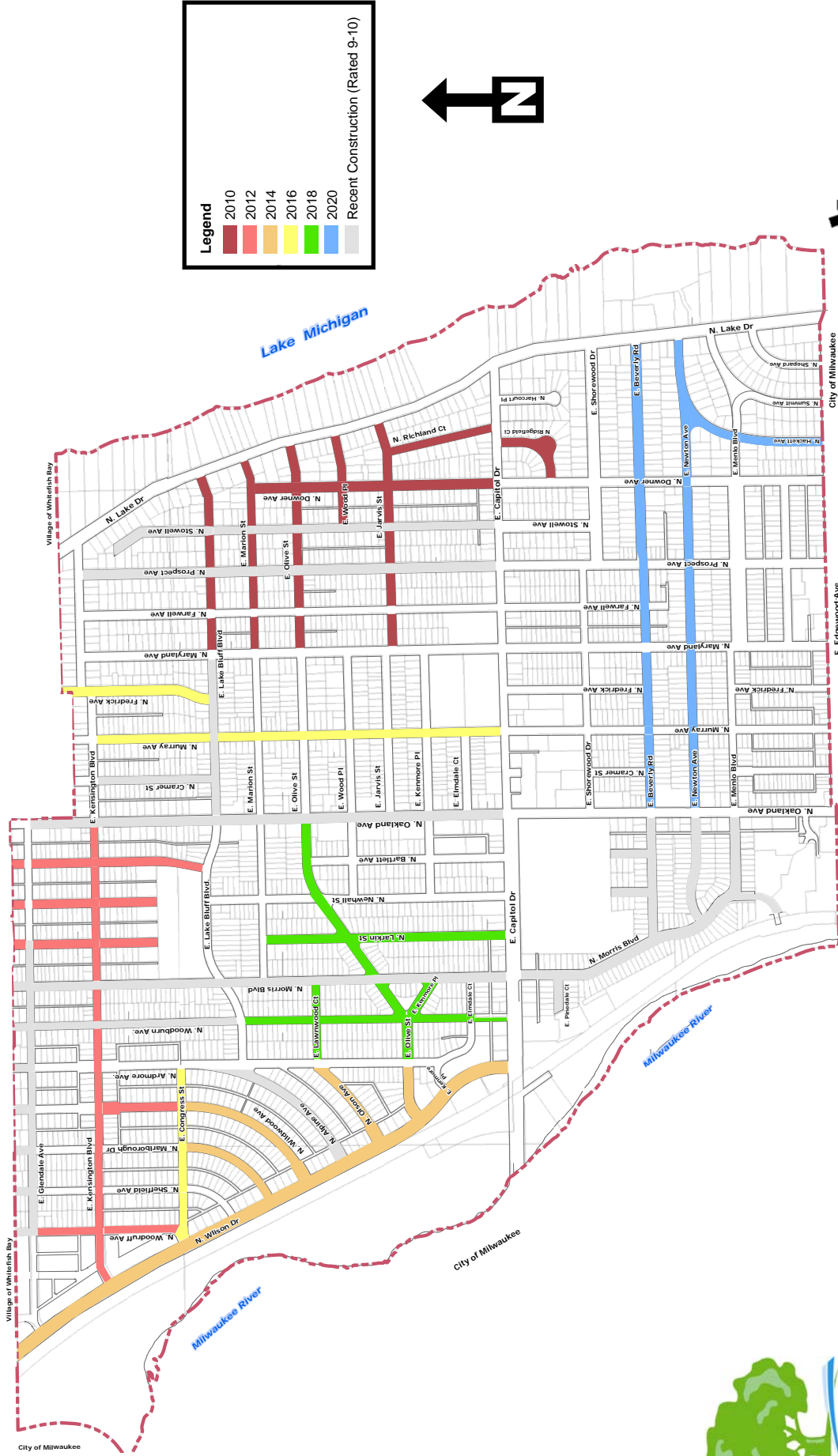
## **PLAN IMPLEMENTATION AND EVALUATION**

While the Pavement Management Plan provides yearly dates associated with the projects outlined in the Street Replacement Program and Pavement Maintenance Program, the Plan is intended to be a long-term strategy. Specific projects may be moved from one year to the next, but either reconstruction or maintenance activities should be completed on an annual basis.

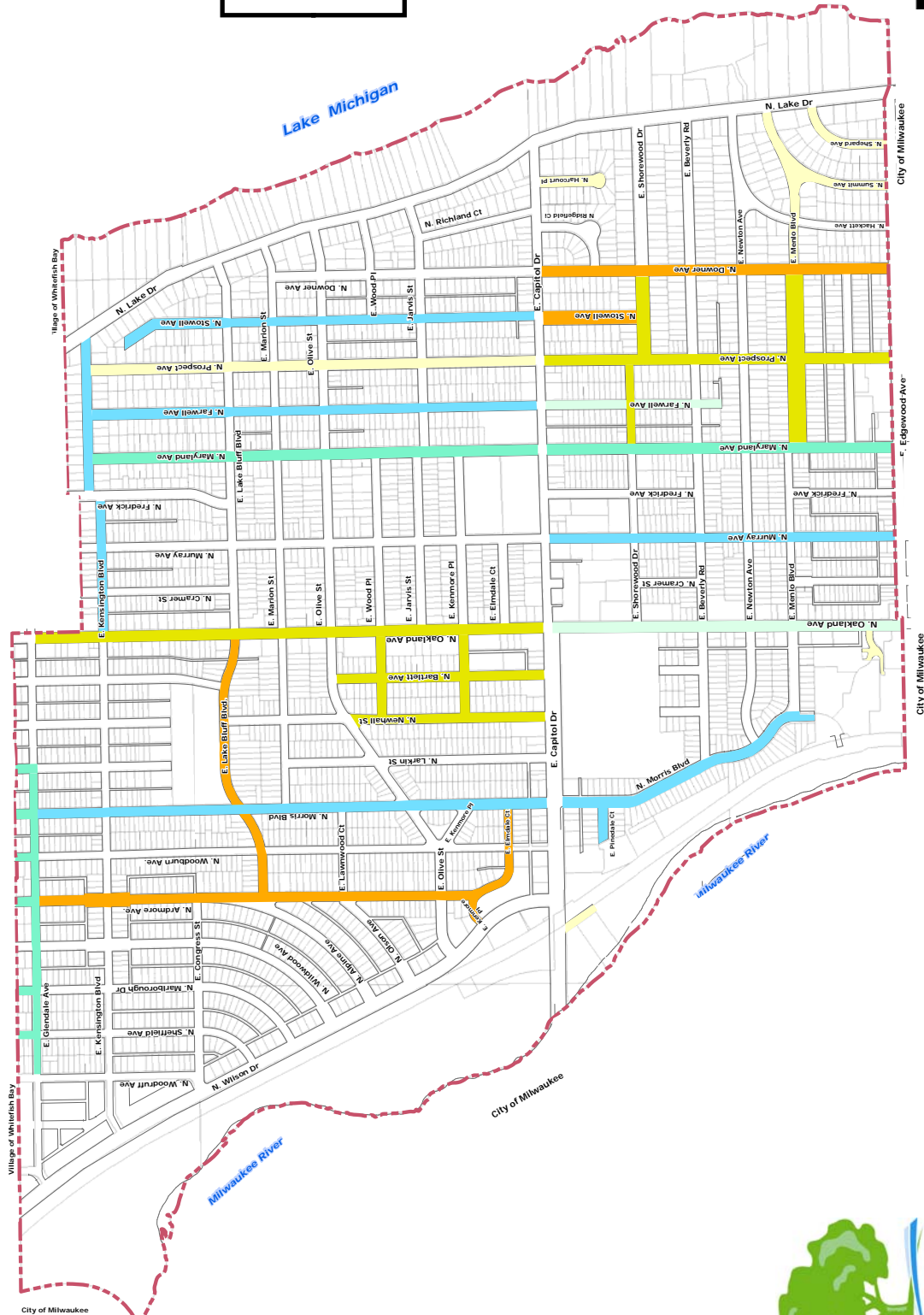
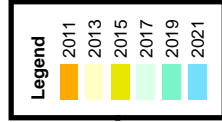
The Pavement Management Plan should be reviewed on a regular and periodic basis to ensure the goals, objectives and long term project plans are current and applicable. The plan should be evaluated in terms of pavement condition ratings, financial implications and comparison to the ideal rate of deterioration.

The ultimate goal of cyclical maintenance – whether on streets or alleys – is to extend the time between reconstruction projects. As maintenance activities are generally less expensive than reconstruction, over time the annual road budget will decrease. A comprehensive program such as this is a cost-effective way for the Village to address its pavement infrastructure.

# Street Replacement Program (2010 - 2020)



# Pavement Maintenance Program (2011 - 2021) By Year



# Alley Maintenance Program 2011-2021 By Year

**Legend**  
Alley Maintenance Program - BY YEAR

2011
2013
2015
2017
2019
2021



Village of Whitefish Bay  
City of Milwaukee  
City of Milwaukee  
City of Milwaukee  
City of Milwaukee

