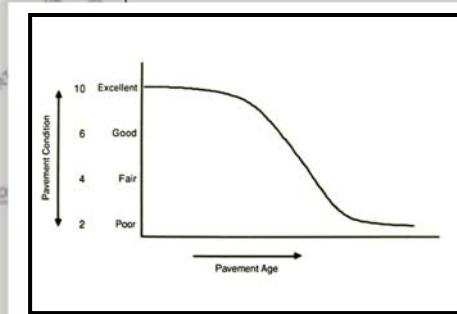
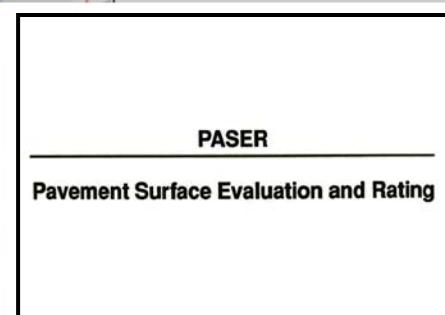
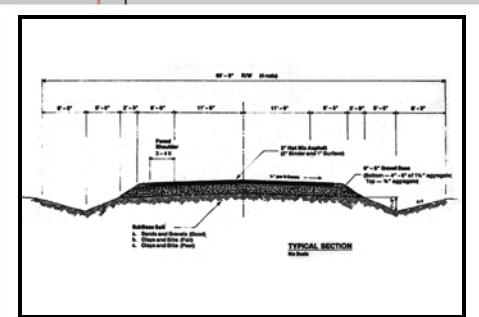


City of Tomahawk

Road Surface Management Plan

2014



Prepared by:

**North Central Wisconsin
Regional Planning Commission**
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**CITY OF TOMAHAWK, LINCOLN COUNTY, WISCONSIN
ROADWAY MANAGEMENT PLAN**

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CHAPTER 1

ROADWAY MANAGEMENT PLAN OVERVIEW

INTRODUCTION

A roadway management plan for a local street system provides a community with the ability to plan for future roadway improvements. With a roadway management plan in place, the limited resources allocated to local roads can be better spent. The overall goal of the Roadway Management Plan is to assist municipalities make better decisions on the improvements to the local road system. This document contains information vital to the review and rating of the City of Tomahawk's roadway system. Thus, the Roadway Management Plan will assist in preserving and rehabilitating the existing City street system in a timely and cost-effective manner.

A review of each City road was performed by a representative from the North Central Wisconsin Regional Planning Commission (NCWRPC). Information necessary to complete the roadway management plan was collected during the month of June 2013 using a pavement surface evaluation and rating system. The on-site roadway review was performed following the Wisconsin DOT Plat Record Map.

PURPOSE OF ROADWAY MANAGEMENT PLAN

A Roadway Management Plan helps local government officials respond to growing pressures from constituents to repair roads and upgrade the quality of roads by providing documented information on suggested priorities for improvement and reliable estimates of current and future costs of maintaining and improving the quality of the local road system.

Roadway Management Plans help local officials allocate scarce resources, which are caused by some of the following:

1. Negative public attitudes towards higher property taxes;
2. The historic limits on state and federal revenues to local governments to keep pace with increasing costs of providing local services;
3. An increase in street maintenance and construction costs which have outstripped the available public resources;
4. Historic local budget difficulties have resulted in deferred maintenance on local street systems, thus compounding needs for additional local resources; and/or
5. Some local units of government have not used their scarce dollars in a wise manner. Local politics and poor decision making have, in some cases, resulted in funds being spent in the wrong places or in an inefficient manner.

The objectives for using a pavement management system include:

1. A better understanding of pavement conditions by completing an overall field inventory;
2. An evaluation of causes of pavement conditions by the roadway segments' corresponding rating and analysis of distress;
3. Through improved decision making by taking advantage of preventative maintenance and selection of the most effective repair or rehabilitation;
4. Better communication of needs and strategies to decision makers as a tool to explain needs and convince elected officials and the public that adequate budgets are needed;
5. Long-term planning helps local governments coordinate pavement needs and scheduling with other budget and policy decisions.

INTENDED ROADWAY MANAGEMENT PLAN RESULTS

The results of the Roadway Management Plan are intended to assist the City of Tomahawk in developing a street surface improvement program where by the limited transportation dollars allocated yearly can be spent more wisely. Through this effort, a better transportation system will be realized over time. A roadway management plan can also assist in vying for additional county, state or federal funding.

In addition, municipalities must report to the Wisconsin Department of Transportation an assessment of the physical condition of the roadways under their jurisdiction. The assessment must be completed biennially and must be completed using a WisDOT approved pavement rating system. This surface condition assessment was completed and submitted to WisDOT as part of the roadway management plan process.

CHAPTER II

TOMAHAWK'S EXISTING ROADWAY SYSTEM

EXISTING SYSTEM

Prior to the development of a Roadway Management Plan, an inventory of the existing system must be completed. This inventory will assist in cataloging the roadway characteristics by roadway segment and surface type. The field data collected will be used as a benchmark to establish the prioritization of the existing roadway system and will assist in the development of recommended improvements to the local road system.

The Wisconsin Department of Transportation (WisDOT) maintains a roadway characteristic inventory on all local roads eligible to receive state funding through the state road/transportation aid program, see Appendix A. This data file is used as the basis for beginning the Roadway Management Plan. From the base data already collected by the state, a review of the road system may note changes in the roadway characteristics. Thus, this information is updated and represented as such in the data sheets found in the back of this document. The state's inventory of the roadway system includes such features as:

1. Segment length;
2. Surface type (earth, gravel, asphalt, or concrete);
3. Functional classification; and
4. Surface and shoulder width.

The review of the City street system was completed following the Wisconsin DOT City Plat Record Map and corresponding data provided by WisDOT for each roadway segment.

FUNCTIONAL CLASSIFICATION SYSTEM

Tomahawk's roads perform varied functions from moving goods and people within the community or through the community. These roads differ from one-another and are characterized by a functional classification system. In the development of this Roadway Management Plan, the functional classification of the roads is described as follows:

Major Collectors: Major collectors provide service to moderate sized communities and other intra-area traffic generators (schools, churches, employment or service centers) and link those generators to nearby larger population concentrations or major state or county trunk highways.

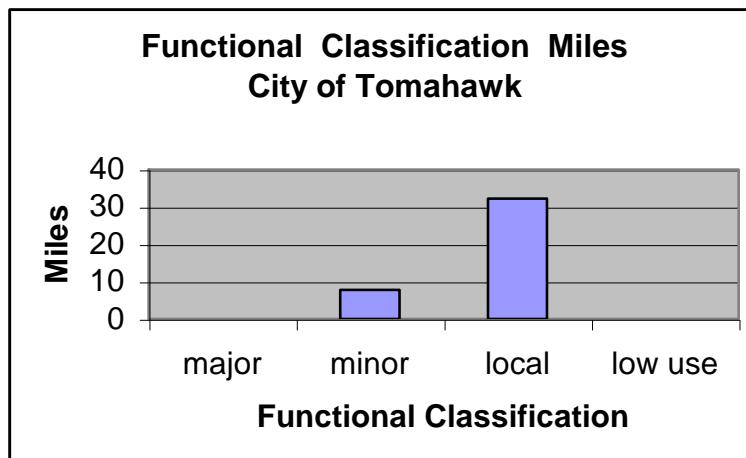
Minor Collectors: Minor collectors provide service to remaining population concentrations not served by higher classified routes, link the locally important traffic generators (schools, churches, and employment and service centers) with the rural hinterland, and are spaced consistent with population density so as to collect traffic from local roads and bring developed areas within a reasonable distance of a higher classified road. One or two very densely developed roads could meet this classification, provided that the level of development is such that relatively high average daily traffic (ADT) counts are realized (a lake loop road is a good example of this type of situation).

Local Roads: Local roads provide access to adjacent land and provide for travel over relatively short distances on an interCity or intraCity basis. All City roads not classified as arterials or collectors will be local functional roads.

Low Use Roads: Low use roads are roads that receive very limited traffic volume due to any of the following reasons: low level of development on property served by road, seasonality of use (hunting, fishing, cross country skiing, etc.), physical barrier to through traffic (road quality, dead end road, or other local factors that contribute to low or intermittent use).

The functional classification mileage of the roads is depicted in Figure 1 and by segment in Appendix A.

FIGURE 1



Most City streets are in the local or low use category, and most county trunk highways are either major or minor collectors. The classification of roads indicates a number of factors regarding the nature of the road for roadway management such as:

1. Role the road plays in providing mobility (through traffic) as opposed to providing access to adjoining property.

2. Amount of development adjacent to a roadway. The more adjoining development, the higher the classification. The nature of the development must also be considered here. In the case of development that would serve a high number of trips, such as commercial, industrial, or institutional a road could be considered for a higher classification.
3. The average daily traffic on the road. Generally, the higher the traffic the higher the classification.

CHAPTER III **ROADWAY MANAGEMENT PLAN RESULTS**

PAVEMENT SURFACE EVALUATION AND RATING

The data reported in this Roadway Management Plan was produced using the Pavement Analysis Tool within the state's Wisconsin Information System for Local Roads (WISLR). Critical to the development of the surface condition rating of each roadway segment, was a uniform and consistent set of criteria used throughout the City in evaluating and assigning a value to each roadway segment. To achieve this uniform and consistent evaluation, the Pavement Surface Evaluation and Rating (PASER) system developed by the University of Wisconsin-Madison, Transportation Information Center was utilized, see Appendix B. The consistency in evaluating each roadway segment is critical since this information will lead to the development of future improvements needed to the local roadway system.

Based upon the WISLR data collected, there are 38.73 miles of street on the City of Tomahawk's roadway system. On this system, 37.28 miles or 96.3 percent are paved and 1.45 miles or 3.7 percent are unpaved. FIGURES 2 and 3 depict the surface condition ratings of the paved and unpaved roadway system.

FIGURE 2

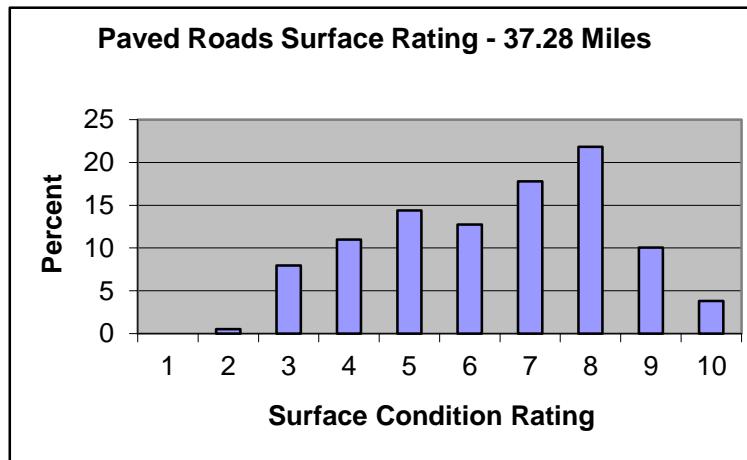
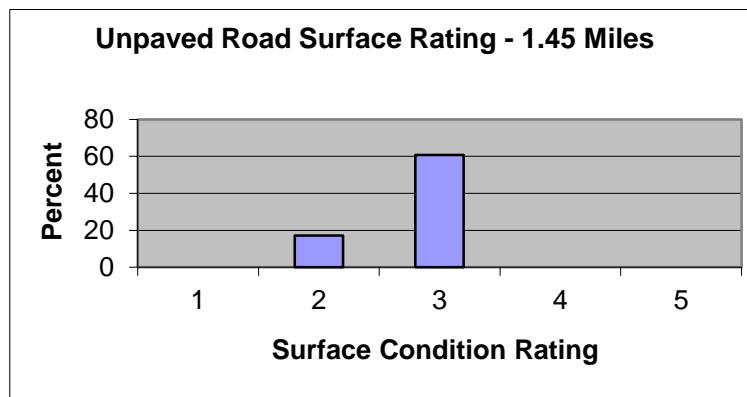


FIGURE 3



Focusing on paved roads, 14 percent is in need of no maintenance. About 18 percent is in need of only minor maintenance or crack filling, and 27 percent could benefit from a surface treatment such as sealcoating. About 19 percent is in need of structural improvement.

PAVEMENT SURFACE NEEDS ANALYSIS

Pavement management is a systematic process that uses roadway data to facilitate development of cost-effective maintenance and improvement programs. The WISLR Pavement Analysis Tool takes a “value-based” approach to pavement management. The objective of this approach is to get more value (cost-effectiveness) from improvement expenditures by getting more pavement life at a lower cost and improving ride quality.

Accomplishing this objective requires selecting the right projects and applying the right fix at the right time.

The surface condition rating value and corresponding suggested improvements for asphalt and concrete (paved) and gravel (unpaved) roads are represented in TABLES 1 through 3.

**TABLE 1
ASPHALT SURFACE RATING CONDITION & SUGGESTED IMPROVEMENT**

RATING	ACTION REQUIRED
10 – 9	No Maintenance Required
8	Little or No Maintenance Required
7	Crack Filling
6 - 5	Preservative Treatment (sealcoat)
4 – 3	Structural Improvement (overlay or recycling)
2 - 1	Reconstruction

TABLE 2
CONCRETE SURFACE RATING CONDITION & SUGGESTED IMPROVEMENT

RATING	ACTION REQUIRED
10 – 9	No Maintenance Required
8	Little or No Maintenance Required
7	Joint Sealing
6 - 5	Preservative Treatment (patching/joint repair/crack filling)
4 – 3	Structural Improvement (overlay or slab replacement)
2 - 1	Reconstruction

TABLE 3
GRAVEL SURFACE RATING CONDITION & SUGGESTED IMPROVEMENT

RATING	ACTION REQUIRED
5 – 4	Routine Maintenance
3	Minor Ditching/Add Gravel
2	Add Gravel/Drainage Improvement
1	Reconstruction

Based on these suggested treatment actions, a rudimentary needs analysis can be generated. A rudimentary needs analysis provides an estimate of all pavement needs as indicated by existing pavement ratings (unconstrained). Appendix C contains the rudimentary needs analysis for the City of Tomahawk.

The rudimentary needs analysis categorizes need into two categories: capital and maintenance. Capital improvements are those that significantly extend service life. Examples of capital improvements are resurfacing, mill and overlay, and reconstruction. Maintenance improvements help preserve roads, but a typical application does not significantly extend service life. Examples of maintenance improvement are joint and crack sealing, patching and sealcoating.

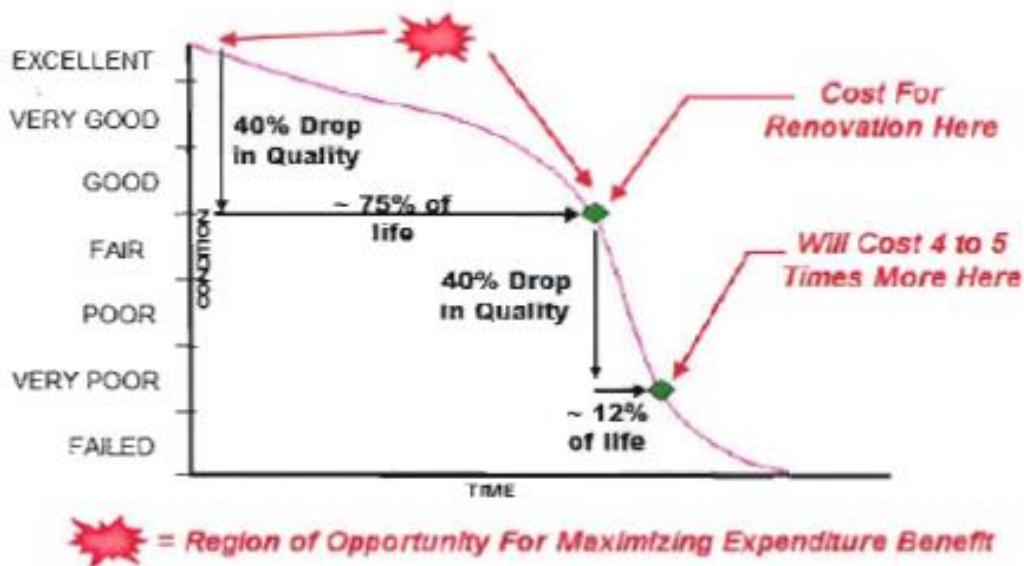
The first page of the analysis shows a capital improvement need of \$724,528 associated with 8.36 miles of roadway and maintenance need of \$ 292,252 associated with 16.88 miles of roadway. A breakdown by street is also included.

PROJECT PRIORITIZATION

WISLR prioritization emphasizes treating pavements in the “region of opportunity” (see Figure 4) because pavements in this condition range can typically be maintained at a much lower cost per year of service life extension. However, the WISLR model also places priority on roadway classification, recognizing that the most important roads in poor to failed condition can't be ignored. The combined effect of this dual-priority

approach is intended to select projects based on both cost-effectiveness and importance to overall system function.

FIGURE 4
Typical Pavement Condition Life Cycle



Source: WisDOT

This approach provides a reasonable starting point for programming within a constrained budget. Ultimately project selection will need to incorporate other important factors not included in the WISLR data such as safety, utilities, roughness, etc.

The intent of the WISLR pavement analysis tool is to provide abundant pavement condition and budget impact information in order to aid in project selection and in order to help substantiate budget levels.

CHAPTER IV

ROADWAY PRACTICES AND RECOMMENDED IMPROVEMENTS

GENERAL MAINTENANCE AND IMPROVEMENT PRACTICES

The maintenance and improvement of local roads is critical to having a sustainable roadway system. Building good roads result in longer lasting roads.

Building good roads is basic to having a local roadway system that will carry vehicles safely and efficiently, and that save money by lowering future improvement costs. What are some of the basic concepts of building good roads that will last? Below is a list of ten basic concepts to follow when building roads.

1. Get water away from the road. Good drainage is critical to making a good road. It has been estimated that nearly 90% of a road's problems can be attributed to excess water or to poor water drainage. Effective drainage systems divert, drain, and dispose of water along a roadway. These drainage systems use interceptor ditches and slopes, roadway crowns, and ditch and culvert systems. Interceptor ditches, located between the road and higher ground, divert the water by sloping away from the road so that the water does not reach the roadway. Crowning a roadway assists in moving water off the roadway to the interceptor ditch. Typically, a gravel roadway crown should be $\frac{1}{2}$ " higher than the shoulder for each foot of width from the centerline to the edge. A paved road crown should be $\frac{1}{4}$ " higher than the shoulder for each foot of width from the centerline to the edge. Too much water remaining on a roadway surface, or in the subbase and subgrade combine with the action of traffic to create potholes, cracks, and pavement failure. Ditches and culverts dispose of water by carrying it away from the road structure. Ditches should be one foot lower than the base of the road. Improper drainage can allow water to seep under the roadway creating the potential for future roadway failures. A rule of thumb is that one-dollar spent on proper roadway drainage will save two dollars on maintenance.
2. Building a firm foundation. A roads foundation is important to the life of your road. A road wears out from the top down but falls apart from the bottom. The subgrade and subbase layer of a road support the entire roadway and traffic using it.
3. Use the best material. When it comes to using materials in the construction or improvement of a road, you will either "pay for it now or later." The selection of materials for the project will determine how long a road may last. Inferior materials may cause premature improvements or life long maintenance to the road. Crushed aggregate is the best material for a base course as the sharp edges interlock when compacted. Rounded aggregate is a poor base course as they will move under the weight of traffic.

4. Compact all layers. Generally, the more densely a material is compacted, the stronger it is. The compaction also helps prevent water moving in and throughout the subbase layer of the roadway. This helps prevent frost heaving and premature deterioration of the roadway. Using gravel with a mix of sizes (well-graded aggregate) allows smaller particles to fill-in the voids created by larger particles.
5. Design for traffic loads and volumes. A road should be designed to carry the highest anticipated load. If this load is unknown, the road should be designed to carry the largest maintenance equipment that will be used on the road. A well-constructed and maintained asphalt road should last 20 years without major repairs or reconstruction. One truck with 9 tons on a single rear axle does as much damage to a road as nearly 10,000 cars!
6. Design for maintenance. Design your road so that it may be easily maintained by having adequate ditches that can be cleaned regularly, culverts that are marked for future maintenance activities, an area where snow can be plowed onto, proper slopes of the roadway and ditches, ditches that are planted to prevent erosion, and ditches that can be mowed safely.
7. Pave only when ready. Every road does not have to be an asphalt road. Laying asphalt on an existing roadway will not fix a gravel road that is failing. Adequate crushed aggregate, drainage, and proper compaction must be in place to support the longevity of an asphalt road. Depending on the subgrade soils of any road, a recommended minimum subbase depth of crushed stone is 10".
8. Build form the bottom up. Do not waste material on a top dress or resurface if the problem is actually a subbase or subgrade problem. This method does not correct the problem and will result in unwisely spent funds. Choosing an improvement technique that gets to the root of the problem will be the only thing that makes the roadway better.
9. Protect your investment. The local road system often is the City's largest investment. These maintenance activities are critical to the longevity of a local road:

Surface Grade, shape, patch, seal crack, control dust, remove ice and snow;

Drainage Clean and repair ditches and culverts, remove excess debris;

Roadside Cut brush, trim trees and roadside plantings, control erosion; and

Traffic Service Clean and repair or replace signs.

10. Keep good records. Knowing each road's construction, life, and repair history makes it easier to plan and budget for future improvements.

The ten basic concepts discussed above will assist in providing a good roadway system that will be more popular with the local citizens and will likely assist in making the transportation improvement budget cover more miles of road in a given year.

RECOMMENDED FIVE-YEAR IMPROVEMENT SCHEDULE

The 5-year work program is based on a budget constraint of \$100,000 each year and consultation with the Department of Public Works as to roads they anticipate needing attention over the next five years.

CITY OF TOMAHAWK
PAVEMENT REHABILITATION SCHEDULE
YEAR ONE

On Route	At Route	At		Offset Toward Route		To		Surf	Yr	Yr	Action	Cost
		Offset	Length	Width	Type	1	5					
Anna St	STH 86	0 S Wilson St	422	20	70	7	7	Crack Sealing				384
Anna St	S Wilson St	0 S McKinley St	264	20	70	7	7	Crack Sealing				240
Birchwood Ave	N 4th St, Leather St	634 Termini	2640	2006	22	70	6	7 Single Sealcoat				4180
Bradley Farm Rd	School Rd	0 Kings Rd	1320	1320	24	70	7	7 Crack Sealing				1443
Bradley Farm Rd	STH 86	0 School Rd	687	687	26	70	7	7 Crack Sealing				813
Bridge St	Bronstead Ave	0 Curve St	317	317	34	70	7	7 Crack Sealing				490
Brief St	CTH S, Southgate Dr	0 Theiler Dr	370	370	22	70	7	7 Crack Sealing				370
Curve St	Bridge St	264 Leather St, Piper St	528	264	34	70	7	7 Crack Sealing				408
Curve St	Bridge St	0 Leather St, Piper St	264	264	24	70	7	7 Crack Sealing				288
Deer Haven Dr	Kaphaem Rd	0 Termini	1003	1003	20	70	7	7 Crack Sealing				913
Deer Park Rd	N 4th St	1901 Termini	3643	1742	22	70	7	7 Crack Sealing				2400
Deer Park Rd	N 4th St	3643 Termini	4541	898	16	70	7	7 Crack Sealing				
E Lincoln Ave	N 4th St, W Lincoln Ave	0 N 6th St	740	740	40	70	7	7 Crack Sealing				1348
E Lincoln Ave	N 6th St	0 N 8th St	740	740	40	70	7	7 Crack Sealing				1348
E Lincoln Ave	N 9th St	582 Kings Rd, E Park Ave	1162	580	40	70	7	7 Crack Sealing				1056
E Lincoln Ave	N 8th St	0 Kings Rd, E Park Ave	952	952	40	70	6	7 Single Sealcoat				3554
E Mohawk Dr	N 4th St, W Mohawk Dr	0 Willow Ln	1373	1373	22	70	7	7 Crack Sealing				1375
E Wisconsin Ave	Termini	0 N 8th St, S 8th St	264	264	36	70	7	7 Crack Sealing				432
E Wisconsin Ave	N 8th St, S 8th St	0 Termini	264	264	36	70	7	7 Crack Sealing				432
Freedom Trl	CTH A	0 Termini	956	956	24	70	7	7 Crack Sealing				1045
Kaphaem Rd	Theiler Dr	0 GrassRd, KaphaemRd	2957	2957	22	70	6	7 Single Sealcoat				6347
Kings Hill Dr	Riverview Ln	0 Pine View Ln	475	475	20	55	7	7 Crack Sealing				432
Kings Hill Dr	Pine View Ln	0 Termini	475	475	20	70	7	7 Crack Sealing				432
Kings Rd	E Lincoln Ave, E Park Ave	0 School Rd	2059	2059	36	70	7	7 Crack Sealing				3376
Lake Dr	North Ave, W Spirit Ave	0 Termini	634	634	16	70	7	7 Crack Sealing				462
Leather St	Marks St	0 Curve St, Piper St	2640	2640	34	70	7	7 Crack Sealing				4088
Leather St	N 4th St, Birchwood Ave	0 Marks St	1056	1056	32	70	7	7 Crack Sealing				1539
Leather St	Curve St, Piper St	0 Termini	1743	1743	24	70	7	7 Crack Sealing				1905
N 2nd St	W Somo Ave, STH 86	0 S 2nd St, W Wis Ave	370	370	40	70	5	6 Sealcoat w/Patching				3353
N 3rd St	W Somo Ave, STH 86	0 S 3rd St, W Wis Ave	370	370	40	70	5	6 Sealcoat w/Patching				3353
N 5th St	E Lincoln Ave	0 E River St	740	740	40	70	7	7 Crack Sealing				1348
N 5th St	S 5th St, E Wisconsin Ave	0 E Somo Ave, STH 86	370	370	40	70	7	7 Crack Sealing				674
N 5th St	E Somo Ave, STH 86	0 E Washington Ave	370	370	40	70	7	7 Crack Sealing				674

N 5th St	E Washington Ave	0 E Lincoln Ave	7	7 Crack Sealing	674
Pine View Ln	Termini	0 Pine Notch	7	7 Crack Sealing	521
Pine View Ln	Pine Notch	0 Kings Hill Dr	7	7 Crack Sealing	480
Railway St	W Somo Ave	0 W Wisconsin Ave	7	7 Single Sealcoat	1035
Riverview Ln	Kings Hill Dr	0 Termini	6	7 Crack Sealing	1004
S 5th St	E Rice Ave	370 N 5th St, E Wis Ave	7	7 Crack Sealing	1206
S 5th St	E Rice Ave	686 N 5th St, E WisAve	7	7 Crack Sealing	
Southgate Dr	Brief St, CTH S	0 STH 86, S Tomahawk	7	7 Single Sealcoat	5387
Southview Dr	Charles Ave	0 Termini	7	7 Crack Sealing	576
Theiler Dr	Kaphaem Rd	0 Whitetail Dr	7	7 Crack Sealing	6561
W Lincoln Ave	N 4th St, E Lincoln Ave	0 N Tomahawk Ave	7	7 Single Sealcoat	4143
W Mill St	S Wilson St	0 S McKinley St	7	7 Crack Sealing	337
W Mill St	STH 86	0 S Wilson St	7	7 Crack Sealing	240
W Putnam St	STH 86	0 Railway St	7	7 Crack Sealing	317
W Somo Ave	STH 86, N Tomahawk Ave	0 Railway St	7	7 Single Sealcoat	1243
W Somo Ave	Railway St	370 Termini	7	6 Sealcoat w/Patching	12560
W Somo Ave	Railway St	2798	5	6 Sealcoat w/Patching	
W Spirit Ave	STH 86, S Tomahawk Ave	0 Conservation St	5	6 Sealcoat w/Patching	3019
W Spirit Ave	S 4th St, E Spirit Ave	0 Railway St	5	6 Sealcoat w/Patching	3353
W Spirit Ave	S 2nd St	0 S 2nd St	7	7 Crack Sealing	1251
W Washington Ave	N 4th St, E Washington Ave	0 STH 86, S Tomahawk	7	7 Crack Sealing	922
W Washington Ave	N 4th St, E Washington Ave	0 N Tomahawk Ave	6	7 Single Sealcoat	4005
Woodland Ln	Riverview Ln	740 N Tomahawk Ave	7	7 Crack Sealing	
		0 Termini	7	7 Crack Sealing	
		211	7	7 Crack Sealing	211
					<u>\$99,547</u>

CITY OF TOMAHAWK
PAVEMENT REHABILITATION SCHEDULE
YEAR TWO

On Route	At Route	At	Offset	Toward Route	To	Surf	Pvm Rtg	Cost
Birchwood Ave	N 4th St, Leather St	0	Termini	634	18	7	Single Sealcoat	1104
Bliss St	Termini	0	Leather St	317	22	7	Single Sealcoat	650
Bowens Rd	E Mohawk Dr	0	Termini	1056	20	7	Single Sealcoat	2069
Bridge St	Leather St	0	Termini	264	264	7	Single Sealcoat	492
Charles Ave	Southview Dr	0	Termini	370	30	7	Single Sealcoat	1035
Charles Ave	Termini	0	Charlotte St	1056	30	5	6 Sealcoat w/ Patching	7180
E Acres Dr	Bradley Farm Rd	0	Termini	211	22	7	Single Sealcoat	432
E Hickey Ave	STH 86	0	Termini	686	20	7	Single Sealcoat	1344
E Spirit Ave	S 5th St	0	S 6th St	739	40	7	Single Sealcoat	2758
E Spirit Ave	S 5th St	0	S 5th St	370	40	7	Single Sealcoat	1380
E Washington Ave	N 4th St, W Washington	0	N 5th St	370	40	5	Single Sealcoat	1380
E Washington Ave	N 5th St	0	N 6th St	370	40	7	Single Sealcoat	1380
E Wisconsin Ave	N 7th St	370	N 5th St, S 5th St	1161	22	7	Single Sealcoat	1623
Ericksen Ln	CTH A	0	Termini	3062	22	7	6 Sealcoat w/ Patching	15838
Kings Rd	Kings Hill Dr	0	Ralph Ln, Kings Rd	2746	22	5	6 Sealcoat w/ Patching	13692
N 10th St	E Somo Ave, STH 86	0	Termini	264	24	7	Single Sealcoat	616
N 2nd St	W Lincoln Ave	0	W Washington Ave	370	40	7	Single Sealcoat	1380
N 2nd St	W Washington Ave	0	W Somo Ave, STH 86	370	40	6	7 Single Sealcoat	1380
N 2nd St	W Prospect Ave	370	W Lincoln Ave	739	369	40	7 Single Sealcoat	1377
N 3rd St	W Lincoln Ave	0	W Somo Ave, STH 86	740	40	6	7 Single Sealcoat	2761
N 7th St	E Wisconsin Ave	369	E Somo Ave, STH 86	739	370	40	7 Single Sealcoat	1380
N Tomahawk Ave	W Somo Ave, STH 86	0	W Lincoln Ave	370	370	62	7 Sealcoat w/ Patching	10885
N Tomahawk Ave	W Somo Ave, STH 86	370	W Lincoln Ave	739	369	68	5	6
Oakland Ave	Pfeifer Rd	0	Termini	370	370	14	3 Routine/Spot Grade	195
Railway St	W Washington Ave	370	W Somo Ave	739	369	30	7 Single Sealcoat	1033
School Rd	Bradley Farm Rd	1478	Kings Rd	2640	1162	24	7 Single Sealcoat	2638
Stlip Rd	CTH S	0	Termini	211	18	55	6	7 Single Sealcoat
Tannery Rd	Tannery Rd	475	Bridge, CC, Tannery Rd	1320	845	22	7 Mill and Overlay	15859
Vink St	Jaeks Rd	0	Termini	317	317	20	6 Single Sealcoat	610
Voerman St	STH 86	0	Spruce Ave, Termini	897	897	22	7 Single Sealcoat	1841
W Putnam St	S McKinley St	0	S Roosevelt St	422	422	22	6 Single Sealcoat	905
W River St	N 4th St, E River St	0	N 3rd St	370	370	42	7 Single Sealcoat	1449
W Washington Ave	N Tomahawk Ave	0	Railway St	370	370	40	7 Single Sealcoat	1380

\$98,406

CITY OF TOMAHAWK
PAVEMENT REHABILITATION SCHEDULE
YEAR THREE

On Route	At Route	At Route	At Route	Offset	Toward Route	To	Offset	Length	Width	Surf	Pvm Rtg	Yr 1	Yr 5	Action	Cost
Cedar Ave	Voerman St	0 Termini	898	898	22 70	5	6	Sealcoat w/Patching	4477						
Cooks Cir	Chandler St	0 Termini	422	422	22 70	5	6	Sealcoat w/Patching	2103						
E River St	N 6th St	370 N 5th St	792	422	40 70	5	6	Sealcoat w/Patching	3825						
E Washington Ave	N 6th St	0 N 7th St	370	370	40 70	5	6	Sealcoat w/Patching	3353						
E Washington Ave	N 7th St	0 N 8th St	370	370	40 70	5	6	Sealcoat w/Patching	3353						
Forest Pl	Marinette St	0 Conservation St	422	422	34 70	5	6	Sealcoat w/Patching	3251						
N 3rd St	W River St	370 W Lincoln Ave	1109	739	40 70	5	6	Sealcoat w/Patching	6699						
N 6th St	E Prospect Ave	0 E River St	370	370	40 70	5	6	Sealcoat w/Patching	3353						
N 7th St	E Somo Ave, STH 86	0 E Washington Ave	370	370	40 70	5	6	Sealcoat w/Patching	3353						
Old Bridge St	Bridge St	0 Murphy Ave, Nelson	950	950	24 57	5	6	Sealcoat w/Patching	5462						
Oneida Dr	N 4th St	0 Termini	475	475	22 70	5	6	Sealcoat w/Patching	2427						
Pine Ave	Pfeifer Rd	0 Termini	686	686	16 55	5	6	Sealcoat w/Patching	2486						
Pine Ridge Ln	STH 86	0 Termini	1214	1214	22 70	5	6	Sealcoat w/Patching	6052						
Pine Ridge Ln	STH 86	1214 Termini	1795	581	24 55	5	6	Sealcoat w/Patching	3232						
S 2nd St	W Rice Ave	0 W Spirit Ave	370	370	40 70	5	6	Sealcoat w/Patching	3353						
S 3rd St	W Rice Ave	0 W Spirit Ave	370	370	40 70	5	6	Sealcoat w/Patching	3353						
S 4th St	N 4th St, E Wis Ave, \	370 E Spirit/W Spirit Ave	1109	739	40 55	5	6	Sealcoat w/Patching	6699						
S 4th St	N 4th St, E Wis Ave, \	0 E Spirit/W Spirit Ave	370	370	40 70	5	6	Sealcoat w/Patching	3353						
S 8th St	N 8th St, E Wis Ave	0 Termini	317	317	40 70	5	6	Sealcoat w/Patching	2872						
S Wilson St	W Putnam St	0 Anna St	528	528	22 70	5	6	Sealcoat w/Patching	2730						
Spruce Ave	Voerman St	422 Termini	1162	740	22 70	5	6	Sealcoat w/Patching	3688						
Swan Ave	W Mohawk Dr	0 Termini	1109	1109	20 70	5	6	Sealcoat w/Patching	5026						
W Prospect Ave	N 4th St, E Prospect	0 N 2nd St	740	740	40 70	5	6	Sealcoat w/Patching	6707						
W Putnam St	S Roosevelt St	0 Coolidge St	370	370	22 70	5	6	Sealcoat w/Patching	1913						
W Spirit Ave	Railway St	0 Lake Dr, North Ave	686	686	30 70	5	6	Sealcoat w/Patching	4663						
Water Works Rd	STH 86	0 Termini	528	528	20 70	5	6	Sealcoat w/Patching	2491						
														\$100,274	

**CITY OF TOMAHAWK
PAVEMENT REHABILITATION SCHEDULE
YEAR FOUR**

**CITY OF TOMAHAWK
PAVEMENT REHABILITATION SCHEDULE
YEAR FIVE**

On Route	At Route	At Route	Offset	Toward Route	At	Surf	To	Offset	Length	Width	Type	Yr 1	Yr 5	Action	Cost	Pvmt Rtg
Armory Dr	Theiller Dr	0	Termini	528	528	20	70	8	7	Crack Sealing	480					
Bay Mill Rd	Bay Mill Rd, Bay Mill Rd	739	Jersey Ln	2323	1584	20	70	4	9	Resurfacing	17916					
Charlotte St	STH 86	0	Chery Ave	1268	1268	24	70	8	7	Crack Sealing	1386					
Cheryl Ave	Comfort Dr	0	Termini	422	422	25	70	8	7	Crack Sealing	480					
Comfort Dr	N Kaphaem Rd	0	Termini	974	974	28	70	8	7	Crack Sealing	1242					
E Mohawk Dr	Bowens Rd	0	Cash Rd	1637	1637	26	70	4	9	Resurfacing	26651					
E Park Ave	N 9th St	264	Kings Rd, E Lincoln A	1214	950	40	70	8	7	Crack Sealing	1731					
E Prospect Ave	N 7th St	0	N 5th St	792	792	40	70	8	7	Crack Sealing	1443					
E Prospect Ave	N 5th St	0	N 4th St, W Prospect	317	317	42	70	8	7	Crack Sealing	606					
Esker Heights Dr	Charles Ave	0	Termini	1584	1584	24	70	8	7	Crack Sealing	1731					
Jersey Ln	Tannery Rd	0	Bridge St	1848	1848	20	70	8	7	Crack Sealing	1683					
Kaphaem Rd	N Kaphaem Rd, STH 86	0	Theiler Dr	3380	3380	22	70	8	7	Crack Sealing	3387					
Marinette St	Termini	0	North Ave	211	211	24	70	8	7	Crack Sealing	230					
Martin Dr	Esker Heights Dr	0	Termini	581	581	24	70	8	7	Crack Sealing	635					
Mary St W	STH 86	0	S Wilson St	264	264	22	70	8	7	Crack Sealing	264					
N 4th St	S 4th St, E Wisconsin Ave, E Lincoln Ave	0	Somo Ave, W Somo	307	307	45	70	8	7	Crack Sealing	629					
N 7th St	N 8th St	0	E Prospect Ave	370	370	40	70	8	7	Crack Sealing	674					
N Kaphaem Rd	Kaphaem Rd, STH 86	0	E Somo Ave, STH 86	686	686	30	70	4	9	Resurfacing	11635					
Nelson Ln	Division St	0	Comfort Dr	565	565	28	70	8	7	Crack Sealing	720					
North Ave	Lake Dr, W Spirit Ave	0	Termini	581	581	16	35	3	4	Add Stone+Regrade	1269					
Pine Notch	Pine View Ln	0	Randall St	951	951	20	70	8	7	Crack Sealing	866					
Railway St	W Wisconsin Ave	0	Termini	327	327	24	70	8	7	Crack Sealing	357					
Railway St	W Spirit Ave	0	W Rice Ave	370	370	34	70	8	7	Crack Sealing	572					
S 4th St	E Spirit Ave, W Spirit Ave	0	W Merrill Ave	370	370	34	70	8	7	Crack Sealing	572					
S Roosevelt St	W Putnam St	0	Anna St	1109	1109	40	70	8	7	Crack Sealing	2020					
S Roosevelt St	Anna St	0	Termini	310	310	24	70	8	7	Crack Sealing	338					
S Wilson St	W Mill St	0	Mary St W	264	264	24	70	8	7	Crack Sealing	288					
S Wilson St	W Mill St	0	Bradley Farm Rd	528	528	24	70	8	7	Crack Sealing	288					
School Rd	E Somo Ave, STH 86	0		1478	1478	24	70	8	7	Crack Sealing	1615					

School Rd	Bradley Farm Rd	0 Kings Rd	7 Crack Sealing	1615
South Park Dr	CTH S	0 Termini	7 Crack Sealing	987
Tannery Rd	Bridge, CC, Tannery Rd	686 Termini	9 Resurfacing	18372
Theiler Dr	Whittail Dr	0 Brief St	7 Crack Sealing	1480
Theiler Dr	Brief St	0 Southgate Dr	7 Crack Sealing	1269
Timm St	Leather St	0 Termini	7 Crack Sealing	740
W Merrill Ave	STH 86, S Tomahawk Ave	0 S 2nd St	7 Crack Sealing	768
W Merrill Ave	S 2nd St	0 S 4th St	7 Crack Sealing	1251
W Mohawk Dr	N 4th St, E Mohawk Dr	0 Termini	7 Crack Sealing	3001
W Rice Ave	Railway St	370 S 2nd St	7 Crack Sealing	1211
W Rice Ave	Railway St	739 S 2nd St	7 Crack Sealing	
W Rice Ave	S 2nd St	0 S 4th St, E Rice Ave	7 Crack Sealing	
		740	740	1348
				\$114,014

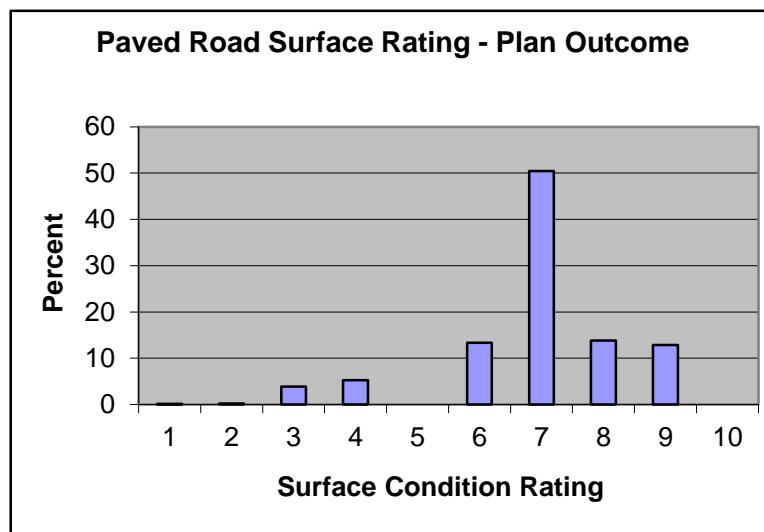
PLAN OUTCOMES

The WISLR Pavement Analysis Tool contains a mechanism to measure effectiveness of a budget plan by providing an assessment of system pavement condition before and after the plan's proposed improvements along with an estimate of the unmet backlog of needs associated with that budget.

The average pavement condition of the City of Tomahawk street system is a PASER rating of 6.28 as of the 2013 pavement surface condition inventory. This is indicative of a structurally sound, but aging street network.

After running the proposed 5-year improvement program through the Pavement Analysis Tool, the average PASER rating of the Tomahawk street system is shown to increase to 6.47. Figure 5 shows the percentage of paved streets in each rating for comparison to Figure 2.

FIGURE 5



The initial need identified totals \$1,016,780. After the proposed \$500,000 program the backlog of unmet need has decreased to \$573,420.

APPENDIX A - WISLR Road Inventory

County - Municipal Code	Pavement Rating and Year	Surface		On Route		At Route		Toward Route		Local ID (Optional Field)	
		Width	Type	Year	Name (Includes prefix, name, type, suffix and extention) (F = Feet/ M = Miles)	Name (Includes prefix, name, type, suffix and extention)	At Offset	Municipal Location	Toward Offset		
35286	6 (2013)	70	F	1981	N 2nd St	W Prospect Ave	370	W Lincoln Ave	0	369	
35286	6 (2013)	70	F	1993	N 2nd St	W Lincoln Ave	0	W Washington Ave	0	370	
35286	6 (2013)	70	F	1992	N 2nd St	W Washington Ave	0	W Somo Ave	0	370	
35286	5 (2013)	70	F	1991	N 2nd St	W Somo Ave	0	S 2nd St	0	370	
35286	4 (2013)	70	F	1971	S 2nd St	W Merrill Ave	0	W Rice Ave	0	370	
35286	5 (2013)	70	F	1971	S 2nd St	W Rice Ave	0	W Spirit Ave	0	370	
35286	9 (2013)	70	F	2010	S 2nd St	W Spirit Ave	0	N 2nd St	0	422	
35286	5 (2013)	70	F	1981	N 3rd St	W River St	370	W Prospect Ave	0	369	
35286	5 (2013)	70	F	1981	N 3rd St	W Prospect Ave	0	W Lincoln Ave	0	370	
35286	6 (2013)	70	F	1994	N 3rd St	W Lincoln Ave	0	W Washington Ave	0	370	
35286	6 (2013)	70	F	1994	N 3rd St	W Washington Ave	0	W Somo Ave	0	370	
35286	5 (2013)	70	F	1991	N 3rd St	W Somo Ave	0	S 3rd St	0	370	
35286	4 (2013)	70	F	1971	S 3rd St	W Merrill Ave	0	W Rice Ave	0	370	
35286	5 (2013)	70	F	1971	S 3rd St	W Rice Ave	0	W Spirit Ave	0	370	
35286	9 (2013)	70	F	2010	S 3rd St	W Spirit Ave	0	N 3rd St	0	370	
35286	8 (2013)	70	F	2005	N 4th St	S 4th St	0	E Somo Ave	0	307	
35286	8 (2013)	70	F	1971	N 4th St	E Somo Ave	0	E 4th St	63	370	
35286	10 (2013)	70	F	2013	N 4th St	E Somo Ave	0	E Washington Ave	0	370	
35286	10 (2013)	70	F	2013	N 4th St	E Washington Ave	0	E Lincoln Ave	0	370	
35286	10 (2013)	70	F	2013	N 4th St	E Lincoln Ave	0	E Prospect Ave	0	370	
35286	10 (2013)	70	F	2013	N 4th St	E Prospect Ave	0	E River St	0	370	
35286	9 (2013)	70	F	2011	N 4th St	E River St	0	Deer Park Rd	0	1109	
35286	9 (2013)	70	F	2011	N 4th St	Deer Park Rd	0	Birchwood Ave	0	1003	
35286	9 (2013)	70	F	2011	N 4th St	Birchwood Ave	0	E Mohawk Dr	0	2640	
35286	9 (2013)	70	F	2011	N 4th St	E Mohawk Dr	0	Oneida Dr	0	1954	
35286	9 (2013)	70	F	2011	N 4th St	Oneida Dr	0	CTH A	0	686	
35286	5 (2013)	70	F	1980	N 4th St	N 4th St	0	E Spirit Ave	0	370	
35286	5 (2013)	55	F	2000	N 4th St	N 4th St	0	E Spirit Ave	0	739	
35286	8 (2013)	70	F	2000	N 4th St	E Spirit Ave	0	E Rice Ave	0	370	
35286	8 (2013)	70	F	2000	N 4th St	E Rice Ave	0	W Merrill Ave	0	739	
35286	7 (2013)	70	F	1995	N 5th St	S 5th St	0	E Somo Ave	0	370	
35286	7 (2013)	70	F	1970	N 5th St	E Somo Ave	0	E Washington Ave	0	370	
35286	7 (2013)	70	F	1996	N 5th St	E Washington Ave	0	E Lincoln Ave	0	370	
35286	7 (2013)	70	F	1988	N 5th St	E Lincoln Ave	0	E Prospect Ave	0	370	
35286	7 (2013)	70	F	1988	N 5th St	E Prospect Ave	0	E River St	0	370	
35286	7 (2013)	70	F	1998	S 5th St	E Rice Ave	370	E Spirit Ave	0	316	
35286	7 (2013)	70	F	1998	S 5th St	E Spirit Ave	0	N 5th St	0	370	
35286	4 (2013)	70	F	1971	S 6th St	S 6th St	0	E Somo Ave	0	370	
35286	4 (2013)	70	F	1971	S 6th St	E Somo Ave	0	E Washington Ave	0	370	
35286	4 (2013)	70	F	1971	S 6th St	E Washington Ave	0	E Lincoln Ave	0	370	
35286	8 (2013)	70	F	1977	N 6th St	E Lincoln Ave	0	E Prospect Ave	0	370	
35286	5 (2013)	70	F	1977	N 6th St	E Prospect Ave	0	E River St	0	370	
35286	8 (2013)	70	F	1998	S 6th St	E Spirit Ave	739	N 6th St	0	370	
35286	6 (2013)	70	F	1987	N 7th St	E Wisconsin Ave	369	E Somo Ave	0	370	
35286	5 (2013)	70	F	1983	N 7th St	E Somo Ave	0	E Washington Ave	0	370	
35286	8 (2013)	70	F	2007	N 7th St	E Lincoln Ave	0	E Prospect Ave	0	370	

Note: If Previous Pavement Rating and Year column blank, previous submitted rating incompatible with surface type OR no rating data available.

County - Municipal Code	Pavement Rating and Year	Surface		On Route		At Route		Toward Route		Local ID (Optional Field)	
		Width	Type	Year	Name (Includes prefix, name, type, suffix and extention) (F = Feet/ M = Miles)	Name (Includes prefix, name, type, suffix and extention)	At Offset	Municipal Location At	Municipal Location Toward		
35286	4 (2013)	70	1981	40	F N 7th St	E Prospect Ave	0	Termini	0	211 n/a	
35286	4 (2013)	70	1993	30	F N 8th St	S 8th St	0	E Somo Ave	0	686 n/a	
35286	4 (2013)	70	1979	38	F N 8th St	E Somo Ave	0	E Washington Ave	0	370 n/a	
35286	4 (2013)	70	1979	38	F N 8th St	E Washington Ave	0	E Lincoln Ave	0	370 n/a	
35286	5 (2013)	70	1983	40	F S 8th St	N 8th St	0	Termini	0	317 n/a	
35286	4 (2013)	70	1979	40	F N 9th St	E Somo Ave	0	E Washington Ave	0	370 n/a	
35286	3 (2013)	70	1979	40	F N 9th St	E Washington Ave	0	E Lincoln Ave	0	370 n/a	
35286	8 (2013)	70	1985	42	F N 9th St	E Lincoln Ave	0	E Park Ave	0	264 n/a	
35286	6 (2013)	70	1984	24	F N 10th St	E Somo Ave	0	Termini	0	264 n/a	
35286	6 (2013)	70	1995	22	F E Acres Dr	Bradley Farm Rd	0	Termini	0	211 n/a	
35286	3 (2013)	70	1994	22	F Ada St	Collins St	0	Termini	0	158 n/a	
35286	7 (2013)	70	1996	20	F Anna St	STH 86	0	S Wilson St	0	422 n/a	
35286	7 (2013)	70	1999	20	F Anna St	S Wilson St	0	S McKinley St	0	264 n/a	
35286	6 (2013)	70	1993	20	F Anna St	S McKinley St	0	S Roosevelt St	0	317 n/a	
35286	6 (2013)	70	1993	20	F Anna St	S Roosevelt St	0	Coolidge St	0	317 n/a	
35286	8 (2013)	70	2007	20	F Armory Dr	Theiler Dr	0	Termini	0	528 n/a	
35286	4 (2013)	70	1979	20	F Bay Mill Rd	35004	739	Jersey Ln	0	1584 n/a	
35286	4 (2013)	70	1989	20	F Birch Ave	Pfeifer Rd	0	Termini	0	528 n/a	
35286	6 (2013)	70	1989	18	F Birchwood Ave	N 4th St	0	Termini	0	634 n/a	
35286	6 (2013)	70	2001	22	F Birchwood Ave	N 4th St	634	Termini	0	2006 n/a	
35286	6 (2013)	70	1993	22	F Bliss St	Termini	0	Leather St	0	317 n/a	
35286	9 (2013)	70	2010	22	F Bliss St	Vena Ave	0	Termini	0	634 n/a	
35286	6 (2013)	70	1992	20	F Bowens Rd	E Mohawk Dr	0	Termini	0	1056 n/a	
35286	7 (2013)	70	2008	26	F Bradley Farm Rd	STH 86	0	E Acres Dr	0	317 n/a	
35286	7 (2013)	70	2008	26	F Bradley Farm Rd	E Acres Dr	0	School Rd	0	370 n/a	
35286	7 (2013)	70	2007	24	F Bradley Farm Rd	School Rd	0	Kings Rd	0	1320 n/a	
35286	5 (2013)	55	1962	20	F Bradley Farm Rd	Kings Rd	0	Termini	0	106 n/a	
35286	8 (2013)	70	2010	24	F Bridge St	35004	Tannery Rd	Jersey Ln	0	475 n/a	
35286	8 (2013)	70	2010	24	F Bridge St	Jersey Ln	0	Wheeler Rd	0	2482 n/a	
35286	8 (2013)	70	2010	24	F Bridge St	Wheeler Rd	0	Coey Ln	0	528 n/a	
35286	8 (2013)	70	2010	24	F Bridge St	Coye Ln	0	Old Bridge St	0	686 n/a	
35286	8 (2013)	70	2010	24	F Bridge St	Old Bridge St	0	Trimberger Ave	0	106 n/a	
35286	8 (2013)	70	2010	24	F Bridge St	Trimberger Ave	0	Bronstead Ave	0	370 n/a	
35286	7 (2013)	70	2006	34	F Bridge St	Bronstead Ave	0	Curve St	0	317 n/a	
35286	4 (2013)	57	1962	24	F Bridge St	Curve St	0	Leather St	0	370 n/a	
35286	6 (2013)	70	1990	20	F Bridge St	Leather St	0	Termini	0	264 n/a	
35286	7 (2013)	70	2001	22	F Brief St	CTH S	0	Theller Dr	0	370 n/a	
35286	8 (2013)	70	1980	22	F Bronstead Ave	Bridge St	0	Piper St	0	292 n/a	
35286	10 (2013)	70	2012	24	F Cash Rd	E Mohawk Dr	35004	CTH A	0	2640 n/a	
35286	5 (2013)	70	1979	22	F Cedar Ave	Veerman St	0	Cooks Cir	0	898 n/a	
35286	9 (2013)	70	2011	22	F Chandler St	STH 86	0	Termini	0	528 n/a	
35286	9 (2013)	70	2011	22	F Chandler St	Cooks Cir	0	Termini	0	792 n/a	
35286	4 (2013)	70	1980	30	F Charlene Ave	Charlotte St	0	Termini	0	1003 n/a	
35286	5 (2013)	57	1980	30	F Charles Ave	Charlotte St	0	Charlotte St	0	1056 n/a	
35286	3 (2013)	70	1997	30	F Charles Ave	Charles St	0	Esker Heights Dr	0	581 n/a	
35286	3 (2013)	70	1997	30	F Charles Ave	Charles St	0	Southview Dr	0	158 n/a	

Note: If Previous Pavement Rating and Year column blank, previous submitted rating incompatible with surface type OR no rating data available.

County - Municipal Code	Pavement Year	Surface		On Route		At Route		Toward Route		Local ID (Optional Field)	
		Width	Type	Year	Name (Includes prefix, name, type, suffix and extention) (F = Feet/ M = Miles)	Name (Includes prefix, name, type, suffix and extention)	At Offset	Municipal Location Two Ward Two Ward Municipal Location Two Ward	Name (Includes prefix, name, type, suffix and extention)	Section Length (Optional Field)	
35286	6 (2013)	70	1997	30	F Charles Ave	Southview Dr	0	Termini	0	370	n/a
35286	8 (2013)	70	2004	24	F Charlotte St	STH 86	0	Charlene Ave	0	528	n/a
35286	8 (2013)	70	2004	24	F Charlotte St	Charlene Ave	0	Charles Ave	0	370	n/a
35286	8 (2013)	70	2004	24	F Charlotte St	Charles Ave	0	Cheryl Ave	0	370	n/a
35286	8 (2013)	70	2004	25	F Cheryl Ave	Termini	0	Charlotte St	0	158	n/a
35286	8 (2013)	70	2004	25	F Cheryl Ave	Charlotte St	0	Termini	0	264	n/a
35286	3 (2013)	55	1959	16	F Coey Ln	Bridge St	0	Nelson Ln	0	1003	n/a
35286	4 (2013)	70	1994	20	F Collins St	Termini	0	Leather St	0	264	n/a
35286	4 (2013)	70	1989	20	F Collins St	Leather St	0	Ada St	0	264	n/a
35286	4 (2013)	70	1989	20	F Collins St	Ada St	0	Termini	0	264	n/a
35286	8 (2013)	70	2003	28	F Comfort Dr	N Kaphaem Rd	0	N Kaphaem Rd	0	974	n/a
35286	4 (2013)	57	1983	20	F Conservation St	W Somo Ave	0	Forest Pl	0	370	n/a
35286	4 (2013)	70	1976	20	F Conservation St	Forest Pl	0	North Ave	0	422	n/a
35286	5 (2013)	70	1984	22	F Cooks Cir	Chandler St	0	Termini	0	422	n/a
35286	4 (2013)	70	1992	22	F Coolidge St	W Putnam St	0	Anna St	0	475	n/a
35286	4 (2013)	57	1981	20	F Coolidge St	Anna St	0	Termini	0	158	n/a
35286	7 (2013)	70	1985	24	F Curve St	Bridge St	0	Leather St	0	264	n/a
35286	7 (2013)	70	2006	34	F Curve St	Bridge St	264	Leather St	0	264	n/a
35286	4 (2013)	35	1957	20	F Dam Rd	Jersey Ln	0	Termini	0	264	n/a
35286	7 (2013)	70	1998	20	F Deer Haven Dr	Kaphaem Rd	0	Termini	0	1003	n/a
35286	9 (2013)	70	2011	31	F Deer Park Rd	N 4th St	0	Termini	0	1901	n/a
35286	7 (2013)	70	1989	22	F Deer Park Rd	N 4th St	1901	Termini	0	1742	n/a
35286	7 (2013)	70	1989	16	F Deer Park Rd	N 4th St	3643	Termini	0	898	n/a
35286	4 (2013)	70	1990	20	F Division St	Nelson Ln	0	Termini	0	370	n/a
35286	5 (2013)	70	1983	22	F Erickson Ln	35004 CTH A	0	Termini	0	3062	n/a
35286	8 (2013)	70	2001	24	F Esker Heights Dr	Charles Ave	0	Martin Dr	0	1426	n/a
35286	8 (2013)	70	2001	24	F Esker Heights Dr	Martin Dr	0	Termini	0	158	n/a
35286	5 (2013)	70	1988	34	F Forest Pl	Marinette St	0	Conservation St	0	422	n/a
35286	7 (2013)	70	2003	24	F Freedom Trl	CTH A	0	Termini	0	956	n/a
35286	4 (2013)	70	1983	22	F Henry St	STH 86	0	School Rd	0	686	n/a
35286	6 (2013)	70	1979	20	F E Hickey Ave	STH 86	0	Termini	0	686	n/a
35286	4 (2013)	70	1990	20	F Hillcrest Dr	Theiller Dr	0	Termini	0	1267	n/a
35286	2 (2013)	70	2044	14	F Iverson Rd	Kaphaem Rd	0	Termini	0	1954	n/a
35286	4 (2013)	70	1992	20	F Jaeks Rd	Pfeifer Rd	0	Pride St	0	317	n/a
35286	3 (2013)	70	1992	20	F Jaeks Rd	Pride St	0	Vink St	0	686	n/a
35286	3 (2013)	70	1992	20	F Jaeks Rd	Vink St	0	Termini	0	211	n/a
35286	8 (2013)	70	2007	20	F Jersey Ln	35004 Tannery Rd	0	Dam Rd	0	1690	n/a
35286	8 (2013)	70	2007	20	F Jersey Ln	Dam Rd	0	Bridge St	0	158	n/a
35286	3 (2013)	70	1979	20	F Jersey Ln	Bridge St	0	Bay Mill Rd	0	2006	n/a
35286	3 (2013)	70	1979	20	F Jersey Ln	Bay Mill Rd	0	Termini	0	106	n/a
35286	8 (2013)	70	2001	22	F Kaphaem Rd	N Kaphaem Rd	0	Iverson Rd	0	2010	n/a
35286	8 (2013)	70	2001	22	F Kaphaem Rd	Iverson Rd	0	Theiller Dr	0	370	n/a
35286	6 (2013)	70	1995	22	F Kaphaem Rd	Theiller Dr	0	Deer Haven Dr	0	898	n/a
35286	6 (2013)	70	1995	22	F Kaphaem Rd	Deer Haven Dr	0	35004 Crass Rd	0	2059	n/a
35286	9 (2013)	70	2011	22	F Kaphaem Rd	Deer Haven Dr	2059	35004 Crass Rd	0	634	n/a
35286	8 (2013)	70	2003	28	F N Kaphaem Rd	Kaphaem Rd	0	Comfort Dr	0	565	n/a

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		Width	Type	Year	Name (Includes prefix, name, type, suffix and extention) (F = Feet/M = Miles)	Name (Includes prefix, name, type, suffix and extention)	At Offset	Municipal Location Twoard Offsite	Name (Includes prefix, name, type, suffix and extention)		
35286	5 (2013)	70	1995	22	F Kings Hill Dr	Kings Rd	0	Riverview Ln	0	370 n/a	
35286	7 (2013)	55	1998	20	F Kings Hill Dr	Riverview Ln	0	Pine View Ln	0	475 n/a	
35286	7 (2013)	70	1998	20	F Kings Hill Dr	Pine View Ln	0	Termini	0	475 n/a	
35286	7 (2013)	70	2002	36	F Kings Rd	E Lincoln Ave	0	Bradley Farm Rd	0	1637 n/a	
35286	7 (2013)	70	2002	36	F Kings Rd	Bradley Farm Rd	0	School Rd	0	422 n/a	
35286	3 (2013)	70	1986	40	F Kings Rd	School Rd	0	Kings Hill Dr	0	3062 n/a	
35286	3 (2013)	70	1990	22	F Kings Rd	School Rd	3062	Kings Hill Dr	0	1056 n/a	
35286	5 (2013)	57	1990	22	F Kings Rd	Kings Hill Dr	0	35004 Ralph Ln	0	2746 n/a	
35286	7 (2013)	70	2001	16	F Lake Dr	North Ave	0	Termini	0	634 n/a	
35286	7 (2013)	70	2008	32	F Leather St	N 4th St	0	Timm St	0	686 n/a	
35286	7 (2013)	70	2008	32	F Leather St	Leather St	0	Marks St	0	370 n/a	
35286	7 (2013)	70	2006	34	F Leather St	Marks St	0	Bliss St	0	1531 n/a	
35286	7 (2013)	70	2006	34	F Leather St	Bliss St	0	Collins St	0	792 n/a	
35286	7 (2013)	70	2006	34	F Leather St	Collins St	0	Curve St	0	317 n/a	
35286	7 (2013)	70	1996	24	F Leather St	Curve St	0	Bridge St	0	317 n/a	
35286	7 (2013)	70	1996	24	F Leather St	Bridge St	0	Termini	0	1426 n/a	
35286	7 (2013)	70	1988	40	F E Lincoln Ave	N 5th St	0	N 5th St	0	370 n/a	
35286	7 (2013)	70	1988	40	F E Lincoln Ave	N 5th St	0	N 6th St	0	370 n/a	
35286	7 (2013)	70	1986	40	F E Lincoln Ave	N 6th St	0	N 7th St	0	370 n/a	
35286	7 (2013)	70	1986	40	F E Lincoln Ave	N 7th St	0	N 8th St	0	370 n/a	
35286	6 (2013)	70	1983	40	F E Lincoln Ave	N 8th St	0	N 9th St	0	370 n/a	
35286	6 (2013)	70	1983	40	F E Lincoln Ave	N 9th St	0	Kings Rd	0	582 n/a	
35286	7 (2013)	70	2003	40	F E Lincoln Ave	N 9th St	0	Kings Rd	0	580 n/a	
35286	6 (2013)	70	1988	40	F W Lincoln Ave	N 4th St	0	N 3rd St	0	370 n/a	
35286	6 (2013)	70	1988	40	F W Lincoln Ave	N 3rd St	0	N 2nd St	0	370 n/a	
35286	6 (2013)	70	1988	40	F W Lincoln Ave	N 2nd St	0	N Tomahawk Ave	0	370 n/a	
35286	8 (2013)	70	2005	24	F Marinette St	Termini	0	North Ave	0	211 n/a	
35286	4 (2013)	70	1983	40	F Marinette St	North Ave	0	Forest Pl	0	264 n/a	
35286	4 (2013)	70	1983	40	F Marinette St	Forest Pl	0	W Somo Ave	0	422 n/a	
35286	2 (2013)	35	1966	22	F Marks St	Leather St	0	Termini	0	581 n/a	
35286	8 (2013)	70	2001	24	F Martin Dr	Esker Heights Dr	0	Termini	0	581 n/a	
35286	8 (2013)	70	2008	22	F Mary St W	STH 86	0	S Wilson St	0	264 n/a	
35286	3 (2013)	35	1952	14	F Mary St W	S Wilson St	0	Termini	0	158 n/a	
35286	3 (2013)	55	1979	20	F S McKinley St	W Punam St	0	Anna St	0	581 n/a	
35286	3 (2013)	70	1979	20	F S McKinley St	Anna St	0	W Mill St	0	370 n/a	
35286	3 (2013)	70	1979	20	F S McKinley St	W Mill St	0	Termini	0	317 n/a	
35286	8 (2013)	70	1997	20	F S McKinley St	W Mohawk Dr	0	Termini	0	792 n/a	
35286	8 (2013)	70	2004	40	F W Merrill Ave	STH 86	0	S 2nd St	0	422 n/a	
35286	8 (2013)	70	2002	40	F W Merrill Ave	S 2nd St	0	S 3rd St	0	317 n/a	
35286	8 (2013)	70	2002	40	F W Merrill Ave	S 3rd St	0	S 4th St	0	370 n/a	
35286	2 (2013)	35	1962	14	F Metz Dr	Pfeifer Rd	0	Termini	0	634 n/a	
35286	7 (2013)	70	1996	20	F W Mill St	STH 86	0	S Wilson St	0	264 n/a	
35286	7 (2013)	70	1999	20	F W Mill St	S Wilson St	0	S McKinley St	0	370 n/a	
35286	7 (2013)	70	1999	22	F E Mohawk Dr	N 4th St	0	Willow Ln	0	1373 n/a	
35286	10 (2013)	70	2012	26	F E Mohawk Dr	Willow Ln	0	Bowens Rd	0	1003 n/a	
35286	4 (2013)	70	1987	22	F E Mohawk Dr	Willow Ln	1003	Bowens Rd	0	2693 n/a	

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35286	4 (2013)	70	1992	26	F E Mohawk Dr	Bowens Rd	0	Cash Rd	0	1637 n/a	
35286	3 (2013)	70	1991	20	F E Mohawk Dr	Cash Rd	0	Termini	0	1848 n/a	
35286	8 (2013)	70	2003	26	F W Mohawk Dr	N 4th St	0	Swan Ave	0	528 n/a	
35286	8 (2013)	70	2003	26	F W Mohawk Dr	Swan Ave	0	Menominee St	0	264 n/a	
35286	8 (2013)	70	2003	26	F W Mohawk Dr	Menominee St	0	Termini	0	1742 n/a	
35286	10 (2013)	70	2013	14	F Morren St	STH 86	0	Pleasant Ave W	0	581 n/a	
35286	3 (2013)	35	2002	16	F Murphy Ave	Nelson Ln	0	Old Bridge St	0	898 n/a	
35286	3 (2013)	57	1971	20	F Nelson Ln	Murphy Ave	0	Coey Ln	0	264 n/a	
35286	3 (2013)	57	1971	20	F Nelson Ln	Coey Ln	0	Division St	0	475 n/a	
35286	3 (2013)	35	1952	16	F Nelson Ln	Division St	0	Termini	0	581 n/a	
35286	8 (2013)	70	2005	20	F North Ave	Lake Dr	0	Conservation St	0	264 n/a	
35286	8 (2013)	70	2005	20	F North Ave	North Ave	0	Marinette St	0	370 n/a	
35286	8 (2013)	70	2005	20	F North Ave	Marinette St	0	Marinette St	0	53 n/a	
35286	8 (2013)	70	2005	20	F North Ave	Marinette St	0	Randall St	0	264 n/a	
35286	4 (2013)	35	2005	16	F North Ave	Randall St	0	Termini	0	106 n/a	
35286	3 (2013)	30	1986	14	F Oakland Ave	Pfeifer Rd	0	Termini	0	370 n/a	
35286	5 (2013)	57	1985	24	F Old Bridge St	Bridge St	0	Murphy Ave	0	195 n/a	
35286	5 (2013)	57	1985	24	F Old Bridge St	Murphy Ave	0	Murphy Ave	0	755 n/a	
35286	5 (2013)	70	1995	22	F Onida Dr	N 4th St	0	Termini	0	475 n/a	
35286	8 (2013)	70	2003	40	F E Park Ave	N 9th St	264	Kings Rd	0	950 n/a	
35286	9 (2013)	70	2011	20	F Pfeifer Rd	STH 86	0	Jaecks Rd	0	1320 n/a	
35286	3 (2013)	70	1989	18	F Pfeifer Rd	Jaecks Rd	0	Metz Dr	0	1690 n/a	
35286	3 (2013)	70	1989	18	F Pfeifer Rd	Metz Dr	0	Pfeifer Rd	0	317 n/a	
35286	3 (2013)	70	1989	16	F Pfeifer Rd	35004 Birch Ave	0	Oakland Ave	0	211 n/a	
35286	3 (2013)	57	1989	18	F Pfeifer Rd	35004 Birch Ave	211	Oakland Ave	0	211 n/a	
35286	8 (2013)	57	1989	18	F Pfeifer Rd	Oakland Ave	0	Termini	0	346 n/a	
35286	8 (2013)	70	1989	24	F Pfeifer Rd	Oakland Ave	346	Termini	0	1186 n/a	
35286	5 (2013)	55	1954	16	F Pine Ave	35004 Pfeifer Rd	0	Termini	0	686 n/a	
35286	8 (2013)	70	2005	24	F Pine Notch	Pine View Ln	0	Termini	0	327 n/a	
35286	5 (2013)	70	1990	22	F Pine Ridge Ln	STH 86	0	Termini	0	1214 n/a	
35286	5 (2013)	55	2000	24	F Pine Ridge Ln	STH 86	1214	Termini	0	581 n/a	
35286	7 (2013)	70	1994	24	F Pine View Ln	Termini	0	Pine Notch	0	477 n/a	
35286	7 (2013)	70	1998	20	F Pine View Ln	Pine Notch	0	Kings Hill Dr	0	528 n/a	
35286	3 (2013)	57	1980	22	F Piper St	Bronstead Ave	0	Termini	0	342 n/a	
35286	3 (2013)	35	2047	20	F Piper St	Termini	0	Curve St	0	106 n/a	
35286	3 (2013)	35	1957	16	F Piner St	Curve St	0	Termini	0	528 n/a	
35286	4 (2013)	70	1989	20	F Pleasant Ave W	STH 86	0	Morren St	0	211 n/a	
35286	4 (2013)	70	1989	20	F Pleasant Ave W	Morren St	0	Termini	0	634 n/a	
35286	3 (2013)	55	1984	20	F Pride St	Jaecks Rd	0	Termini	0	581 n/a	
35286	8 (2013)	70	2007	40	F E Prospect Ave	N 7th St	0	N 6th St	0	370 n/a	
35286	8 (2013)	70	2007	40	F E Prospect Ave	N 6th St	0	N 5th St	0	422 n/a	
35286	8 (2013)	70	2005	42	F E Prospect Ave	N 5th St	0	N 4th St	0	317 n/a	
35286	5 (2013)	70	1981	40	F W Prospect Ave	N 4th St	0	N 3rd St	0	370 n/a	
35286	5 (2013)	70	1981	40	F W Prospect Ave	N 3rd St	0	N 2nd St	0	370 n/a	
35286	7 (2013)	70	1996	22	F W Putnam St	STH 86	0	S Wilson St	0	317 n/a	
35286	3 (2013)	57	1979	22	F W Putnam St	S Wilson St	0	S McKinley St	0	264 n/a	

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35286	6 (2013)	70	1979	22	F W Putnam St	S McKinley St	0	S Roosevelt St	0	422 n/a	
35286	5 (2013)	70	1979	22	F W Putnam St	S Roosevelt St	0	Coolidge St	0	370 n/a	
35286	4 (2013)	70	1979	22	F W Putnam St	Coolidge St	0	Termini	0	158 n/a	
35286	6 (2013)	70	1984	30	F Railway St	W Washington Ave	370	W Somo Ave	0	369 n/a	
35286	6 (2013)	70	1996	30	F Railway St	W Somo Ave	0	W Wisconsin Ave	0	370 n/a	
35286	8 (2013)	70	2004	34	F Railway St	W Wisconsin Ave	0	W Spirit Ave	0	370 n/a	
35286	8 (2013)	70	2004	34	F Railway St	W Spirit Ave	0	W Rice Ave	0	370 n/a	
35286	4 (2013)	70	1995	24	F Randall St	North Ave	0	Termini	0	158 n/a	
35286	8 (2013)	70	1998	37	F E Rice Ave	S 4th St	0	S 5th St	0	370 n/a	
35286	8 (2013)	70	2004	30	F W Rice Ave	Railway St	370	STH 86	0	369 n/a	
35286	8 (2013)	70	2004	42	F W Rice Ave	STH 86	0	S 2nd St	0	370 n/a	
35286	8 (2013)	70	2001	40	F W Rice Ave	S 2nd St	0	S 3rd St	0	370 n/a	
35286	8 (2013)	70	2001	40	F W Rice Ave	S 3rd St	0	S 4th St	0	370 n/a	
35286	5 (2013)	70	1977	40	F E River St	N 6th St	370	N 5th St	0	422 n/a	
35286	9 (2013)	70	2011	40	F E River St	N 5th St	0	N 4th St	0	317 n/a	
35286	6 (2013)	70	1981	42	F W River St	N 4th St	0	N 3rd St	0	370 n/a	
35286	7 (2013)	70	1995	22	F Riverview Ln	Kings Hill Dr	0	Woodland Ln	0	422 n/a	
35286	7 (2013)	70	1995	22	F Riverview Ln	Woodland Ln	0	Termini	0	581 n/a	
35286	8 (2013)	70	2005	24	F S Roosevelt St	W Putnam St	0	Anna St	0	310 n/a	
35286	5 (2013)	70	1979	22	F S Roosevelt St	W Putnam St	310	Anna St	0	324 n/a	
35286	8 (2013)	70	2008	24	F S Roosevelt St	Anna St	0	Termini	0	264 n/a	
35286	8 (2013)	70	2005	24	F School Rd	E Somo Ave	0	Henry St	0	1056 n/a	
35286	8 (2013)	70	2005	24	F School Rd	Henry St	0	Bradley Farm Rd	0	422 n/a	
35286	8 (2013)	70	2008	24	F School Rd	Bradley Farm Rd	0	Kings Rd	0	1478 n/a	
35286	6 (2013)	70	1976	24	F School Rd	Bradley Farm Rd	1478	Kings Rd	0	1162 n/a	
35286	6 (2013)	70	1996	36	F W Somo Ave	STH 86	0	Railway St	0	370 n/a	
35286	5 (2013)	70	1996	36	F W Somo Ave	Railway St	0	Conservation St	0	370 n/a	
35286	5 (2013)	70	1992	22	F W Somo Ave	Railway St	370	Conservation St	0	475 n/a	
35286	5 (2013)	70	1992	22	F W Somo Ave	Conservation St	0	Marinette St	0	475 n/a	
35286	5 (2013)	70	1992	22	F W Somo Ave	Marinette St	0	Termini	0	1478 n/a	
35286	8 (2013)	70	2003	24	F South Park Dr	35004 CTH S	0	Termini	0	903 n/a	
35286	6 (2013)	70	1990	24	F Southgate Dr	Brief St	0	Theiler Dr	0	950 n/a	
35286	6 (2013)	70	1990	24	F Southgate Dr	Theiler Dr	0	STH 86	0	1162 n/a	
35286	7 (2013)	70	1997	30	F Southview Dr	Charles Ave	0	Termini	0	422 n/a	
35286	6 (2013)	70	1997	40	F E Spirit Ave	S 4th St	0	S 5th St	0	370 n/a	
35286	6 (2013)	70	2040	40	F E Spirit Ave	S 5th St	0	S 6th St	0	739 n/a	
35286	7 (2013)	70	1997	40	F W Spirit Ave	S 4th St	0	S 3rd St	0	317 n/a	
35286	7 (2013)	70	1997	40	F W Spirit Ave	S 3rd St	0	S 2nd St	0	370 n/a	
35286	7 (2013)	70	2004	48	F W Spirit Ave	S 2nd St	0	STH 86	0	422 n/a	
35286	5 (2013)	70	1989	40	F W Spirit Ave	STH 86	0	Railway St	0	370 n/a	
35286	5 (2013)	70	1994	30	F W Spirit Ave	Railway St	0	Lake Dr	0	686 n/a	
35286	5 (2013)	70	1979	22	F Spruce Ave	Vernon St	422	Termini	0	740 n/a	
35286	6 (2013)	55	2002	18	F Slip Rd	CTH S	0	Termini	0	211 n/a	
35286	5 (2013)	70	1993	20	F Swan Ave	W Mohawk Dr	0	Termini	0	1109 n/a	
35286	3 (2013)	70	1993	22	F Tannery Rd	Tannery Rd	475	Bridge St	0	845 n/a	
35286	4 (2013)	70	1993	20	F Tannery Rd	Bridge St	686	Termini	0	1426 n/a	

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		Name (Includes prefix, name, type, suffix and extention)	Width Units	Year	Type	At Offset	Municipal Location (Includes prefix, name, type, suffix and extention)	Name (Includes prefix, name, type, suffix and extention)	At Offset	Municipal Location (Includes prefix, name, type, suffix and extention)	Name (Includes prefix, name, type, suffix and extention)	At Offset (Optional Field)		
35286	7 (2013)	F	Theiler Dr	2001	22	22	Kaphaem Rd	Whitetail Dr	0	Whitetail Dr	0	6547	n/a	
35286	8 (2013)	F	Theiler Dr	2001	22	22	Brief St	Brief St	0	Hillcrest Dr	0	1478	n/a	
35286	8 (2013)	F	Theiler Dr	2000	22	22	Hillcrest Dr	Armory Dr	0	Armory Dr	0	422	n/a	
35286	8 (2013)	F	Theiler Dr	2000	22	22	Armory Dr	Southgate Dr	0	Southgate Dr	0	211	n/a	
35286	8 (2013)	F	Theiler Dr	2000	22	22	Leather St	Termini	0	Termini	0	634	n/a	
35286	8 (2013)	F	Timm St	2000	22	22	W Somo Ave	W Washington Ave	0	W Washington Ave	0	739	n/a	
35286	5 (2013)	F	N Tomahawk Ave	1989	62	62	W Wessington Ave	W Lincoln Ave	0	W Lincoln Ave	0	370	n/a	
35286	5 (2013)	F	N Tomahawk Ave	1989	68	68	Bridge St	Termini	0	Termini	0	369	n/a	
35286	4 (2013)	F	Trimberger Ave	1985	24	24	Bliss St	Termini	0	Termini	0	317	n/a	
35286	9 (2013)	F	Vena Ave	2010	22	22	Jacobs Rd	Termini	0	Termini	0	422	n/a	
35286	6 (2013)	F	Vink St	1992	20	20	STH 86	Cedar Ave	0	Cedar Ave	0	317	n/a	
35286	6 (2013)	F	Voerman St	1999	22	22	E Washington Ave	Spruce Ave	0	Spruce Ave	0	475	n/a	
35286	6 (2013)	F	Voerman St	1999	22	22	N 4th St	N 5th St	0	N 5th St	0	422	n/a	
35286	6 (2013)	F	E Washington Ave	1992	40	40	N 5th St	N 6th St	0	N 6th St	0	370	n/a	
35286	6 (2013)	F	E Washington Ave	1993	40	40	N 6th St	N 7th St	0	N 7th St	0	370	n/a	
35286	5 (2013)	F	E Washington Ave	1993	40	40	N 7th St	N 8th St	0	N 8th St	0	370	n/a	
35286	5 (2013)	F	E Washington Ave	1983	40	40	N 8th St	N 9th St	0	N 9th St	0	370	n/a	
35286	4 (2013)	F	E Washington Ave	1979	40	40	N 9th St	N 3rd St	0	N 3rd St	0	370	n/a	
35286	6 (2013)	F	W Washington Ave	1973	40	40	N 3rd St	N 2nd St	0	N 2nd St	0	370	n/a	
35286	6 (2013)	F	W Washington Ave	1973	40	40	N 2nd St	N Tomahawk Ave	0	N Tomahawk Ave	0	370	n/a	
35286	6 (2013)	F	W Washington Ave	1984	40	40	W Washington Ave	Railway St	0	Railway St	0	370	n/a	
35286	8 (2013)	F	W Water St	1998	18	18	STH 86	Termini	0	Termini	0	158	n/a	
35286	5 (2013)	F	Water Works Rd	1979	20	20	STH 86	Termini	0	Termini	0	528	n/a	
35286	4 (2013)	F	Wheeler Rd	1994	18	18	Bridge St	Termini	0	Termini	0	2851	n/a	
35286	8 (2013)	F	Wheteler Dr	1998	22	22	Terrier Dr	Terrier Dr	0	Terrier Dr	0	792	n/a	
35286	4 (2013)	F	Wheteler Dr	1962	22	22	White tail Dr	792	Termini	Termini	0	739	n/a	
35286	4 (2013)	F	Willow Ln	1966	20	20	35004	CTH A	1828	CTH A	0	512	n/a	
35286	3 (2013)	F	Willow Ln	1963	16	16	CTH A	E Mohawk Dr	0	E Mohawk Dr	0	2534	n/a	
35286	10 (2013)	F	Willow Ln	2012	20	20	CTH A	2534	E Mohawk Dr	E Mohawk Dr	0	106	n/a	
35286	5 (2013)	F	S Wilson St	1979	22	22	W Putnam St	Anna St	0	Anna St	0	528	n/a	
35286	4 (2013)	F	S Wilson St	1979	22	22	Anna St	W Mill St	0	W Mill St	0	317	n/a	
35286	8 (2013)	F	S Wilson St	2003	22	22	W Mill St	Mary St W	0	Mary St W	0	264	n/a	
35286	8 (2013)	F	S Wilson St	2008	24	24	W Mill St	264	Mary St W	Mary St W	0	264	n/a	
35286	7 (2013)	F	E Wisconsin Ave	2000	36	36	Termini	N 8th St	0	N 8th St	0	264	n/a	
35286	7 (2013)	F	E Wisconsin Ave	1987	36	36	N 8th St	Termini	0	Termini	0	264	n/a	
35286	6 (2013)	F	E Wisconsin Ave	1978	22	22	N 6th St	370	N 6th St	N 6th St	0	369	n/a	
35286	6 (2013)	F	E Wisconsin Ave	1978	22	22	N 6th St	Termini	0	Termini	0	422	n/a	
35286	5 (2013)	F	E Wisconsin Ave	1978	22	22	N 5th St	370	N 5th St	N 5th St	0	370	n/a	
35286	4 (2013)	F	E Wisconsin Ave	1957	30	30	N 5th St	Termini	0	Termini	0	317	n/a	
35286	7 (2013)	F	E Wisconsin Ave	1987	75	75	N 4th St	Railway St	0	Railway St	0	158	n/a	
35286	8 (2013)	F	E Wisconsin Ave	1987	75	75	N 4th St	STH 86	0	STH 86	0	370	n/a	
35286	8 (2013)	F	E Wisconsin Ave	1987	77	77	N 3rd St	Termini	0	Termini	0	370	n/a	
35286	8 (2013)	F	E Wisconsin Ave	1987	77	77	N 3rd St	Riverview Ln	0	Riverview Ln	0	317	n/a	
35286	7 (2013)	F	Woodland Ln	1995	22	22	Riverview Ln	Termini	0	Termini	0	211	n/a	

Note: If Previous Pavement Rating and Year column blank, previous submitted rating incompatible with surface type OR no rating data available.

APPENDIX B – PASER Rating System

PASER Asphalt Surface Rating System		
Surface Rating	Visible Distress*	General condition/ Treatment measures
<i>10 Excellent</i>	None.	New construction.
<i>9 Excellent</i>	None.	Recent overlay, like new..
<i>8 Very Good</i>	No longitudinal cracks except reflection of paving joints. Occasional transverse cracks, widely spaced (40" or greater). All cracks sealed or tight (open $\frac{1}{4}$ " or less).	Recent sealcoat or new road mix. Little or no maintenance required.
<i>7 Good</i>	Very slight or no ravelling, surface shows some traffic wear. Longitudinal cracks (open $\frac{1}{4}$ ") due to reflection or paving joints. Transverse cracks (open $\frac{1}{4}$ ") spaced 10 feet or more apart, little or slight crack ravelling. No patching or very few patches in excellent condition.	First signs of aging. Maintain with routine crack filling.
<i>6 Good</i>	Slight raveling (loss of fines) and traffic wear. Longitudinal cracks (open $\frac{1}{4}$ " – $\frac{1}{2}$ ") due to reflection and paving joints. Transverse cracking (open $\frac{1}{4}$ " to $\frac{1}{2}$ ") some spaced less than 10 feet. First sign of block cracking. Slight to moderate flushing or polishing. Occasional patching in good condition.	Show signs of aging, sound structural condition. Could extend life with sealcoat.

*Note: Individual roadways may not have all of the types of distress listed for any particular rating. Each road may have only one or two types of distress.

PASER Asphalt Surface Rating System (continued)

Surface Rating	Visible Distress*	General condition/ Treatment measures
5 Fair	<p>Moderate to severe raveling (loss of fine and coarse aggregate).</p> <p>Longitudinal and transverse cracks (open $\frac{1}{2}$"") show first signs of slight raveling and secondary cracks. First signs of longitudinal cracks near pavement edge.</p> <p>Block cracking up to 50% of surface.</p> <p>Extensive to severe flushing or polishing.</p> <p>Some patching or edge wedging in good condition.</p>	Surface aging, sound structural condition. Needs sealcoat or nonstructural overlay.
4 Fair	<p>Severe surface raveling.</p> <p>Multiple longitudinal and transverse cracking with slight raveling.</p> <p>Longitudinal cracking in wheel path.</p> <p>Block cracking (over 50%) of surface).</p> <p>Patching in fair condition.</p> <p>Slight rutting or distortions (1/2" deep or less).</p>	Significant aging and first signs of need for strengthening. Would benefit from recycling or overlay.
3 Poor	<p>Closely spaced longitudinal and transverse cracks often showing raveling and crack erosion.</p> <p>Severe block cracking.</p> <p>Some alligator cracking (less than 25% of surface).</p> <p>Patches in fair to poor condition.</p> <p>Moderate rutting or distortion (1" or 2" deep).</p> <p>Occasional potholes.</p>	Needs patching and major overlay or complete recycling.
2 Very Poor	<p>Alligator cracking (over 25% of surface).</p> <p>Severe distortions (over 2" deep).</p> <p>Extensive patching in poor condition.</p> <p>Potholes.</p>	Severe deterioration. Needs reconstruction with extensive base repair.
1 Failed	Severe distress with extensive loss of surface integrity.	Failed. Needs total reconstruction.

*Note: Individual roadways may not have all of the types of distress listed for any particular rating. Each road may have only one or two types of distress.

PASER Gravel Surface Rating System		
Surface Rating	Visible Distress*	General condition/ Treatment measures
<i>5 (10) Excellent</i>	No distress. Dust controlled. Excellent surface condition and ride.	New construction – or total reconstruction. Excellent drainage. Little or no maintenance required.
<i>4 (8) Good</i>	Dust under dry conditions. Moderate loose aggregate. Slight washboarding.	Recently regraded. Good crown and drainage throughout. Adequate gravel for traffic. Routine maintenance may be needed.
<i>3 (6) Fair</i>	Good crown (3"-6") Ditches present on more than 50% of roadway. Gravel layer is mostly adequate but additional aggregate may be needed at a few locations to help correct washboarding or isolated potholes and ruts. Some culvert cleaning needed. Moderate washboarding (1"-2" deep), over 10%-20% of the area. Moderate dust, partial obstruction of vision. None or slight rutting (less than 1" deep). An occasional small pothole (less than 2" deep). Some loose aggregate (2" deep).	Shows traffic effects. Regrading (reworking) necessary to maintain. Needs some ditch improvement and culvert maintenance. Some areas may need additional gravel.

*Note: Individual roadways may not have all of the types of distress listed for any particular rating. Each road may have only one or two types of distress.

PASER Gravel Surface Rating System (continued)

Surface Rating	Visible Distress*	General condition/ Treatment measures
2 (4) Poor	<p>Little or no roadway crown (less than 3").</p> <p>Adequate ditches on less than 50% of roadway. Portions of the ditches may be filled, overgrown and/or show erosion.</p> <p>Some areas (25%) with little or no aggregate.</p> <p>Culverts partially full of debris.</p> <p>Moderate to severe washboarding (over 3" deep) over 25% of area.</p> <p>Moderate rutting (1"- 3"), over 10% - 25% of area.</p> <p>Moderate potholes (2" - 4"), over 10% - 25% of area.</p> <p>Severe loose aggregate (over 4").</p>	<p>Travel at slow speeds (less than 25 mph) is required.</p> <p>Needs additional new aggregate.</p> <p>Major ditch construction and culvert maintenance also required.</p>
1 (2) Failed	<p>No roadway crown or road is bowl shaped with extensive ponding.</p> <p>Little if any ditching.</p> <p>Filled or damaged culverts.</p> <p>Severe rutting (over 3" deep), over 25% of the area.</p> <p>Severe potholes (over 4" deep), over 25% of area.</p> <p>Many areas (over 25%) with little or no aggregate.</p>	<p>Travel is difficult and road may be closed at times.</p> <p>Needs complete rebuilding and/or new culverts.</p>

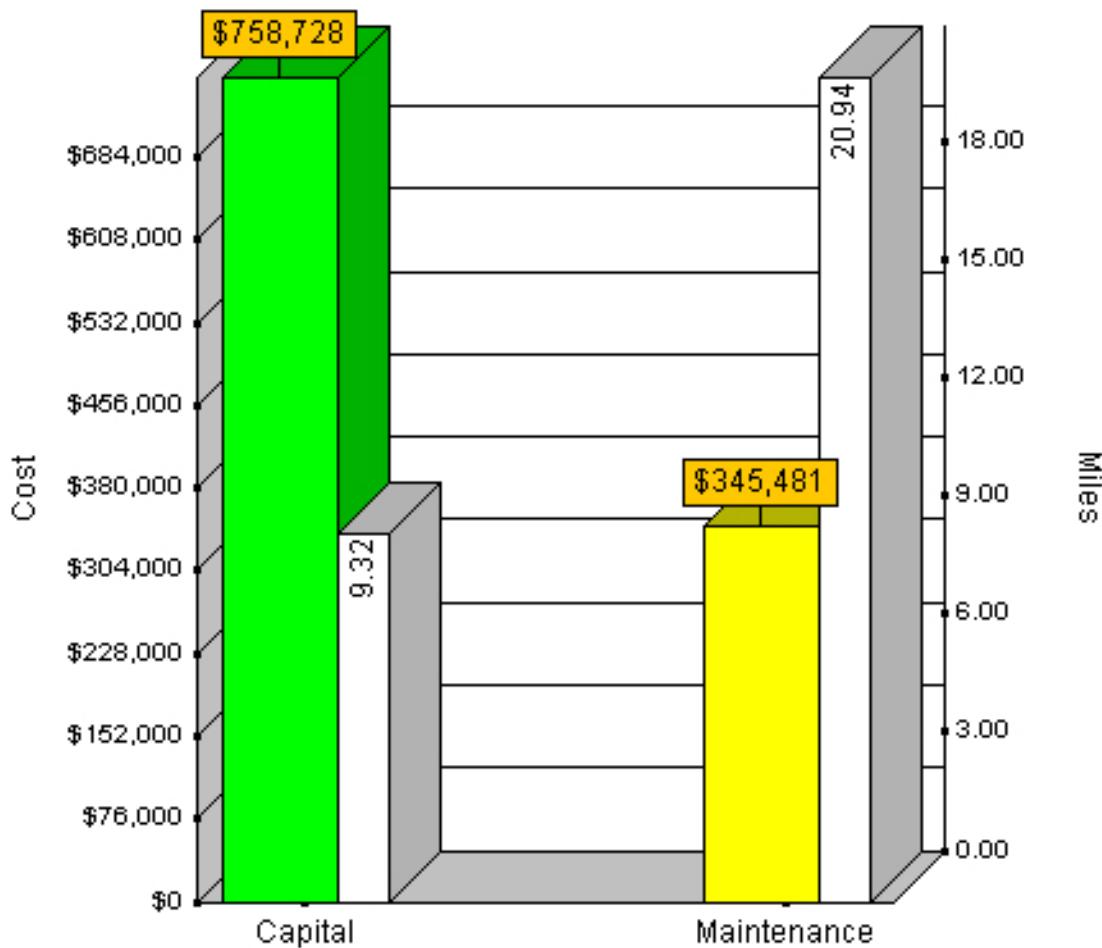
*Note: Individual roadways may not have all of the types of distress listed for any particular rating. Each road may have only one or two types of distress.

Source: Wisconsin Transportation Information Center.

APPENDIX C – Rudimentary Needs Analysis

Rudimentary Needs Analysis

City of Tomahawk



- 100.00% of needs attributed to this year's data
- 0.00% of needs attributed to one year old data
- 0.00% of needs attributed to two year old data
- 0.00% of needs are potentially unreliable - Rating Data > 2 years old
- 0.00% of needs are estimated - No Data
- 0.00% of needs are estimated - Data Too Old (> 5 years old)

***The information shown is based on actual data. Pavement sections without actual rating data were not included in this analysis.*

There are 38.20 miles of rated roadways and 0.00 miles of unrated roadways. Please note that mileage listed with the graph shown above is the portion of the rated roadway miles indicating need (designated as capital or maintenance).

Rudimentary Needs Analysis

City of Tomahawk

Roadway Name	Maint. Cost	Capital Cost
2nd St N	8017.20	0.00
2nd St S	0.00	22258.76
N 3rd St	8000.76	0.00
3rd St S	0.00	25752.00
4th St N	6573.16	154000.00
4th St S	14093.03	0.00
N 5th St	3469.78	0.00
S 5th St	2089.92	0.00
N 6th St	2844.89	26932.71
S 6th St	518.00	0.00
7th St N	7312.13	7087.56
8th St N	4326.18	6733.18
8th St S	2437.38	0.00
9th St N	7821.14	0.00
10th St N	520.96	0.00
E Acres Dr	366.20	0.00
Ada St	0.00	2292.05
Anna St	5074.67	0.00
Bay Mill Rd	6089.60	0.00
Birch Ave	0.00	7047.04
Birchwood Ave	4469.11	0.00
Bliss St	0.00	12134.76
Bowens Rd	1750.61	0.00
Bradley Farm Rd	0.00	24571.23
Bridge St	5929.41	5150.40
Bronstead Ave	0.00	4052.96
Cash Rd	0.00	30582.93
Cedar Ave	0.00	9460.93
Chandler St	0.00	13906.93
Charlene Ave	0.00	14409.77
Charles Ave	6521.27	10616.97
Coey Ln	0.00	7685.21

***The information shown is based on actual data. Pavement sections without actual rating data were not included in this analysis.*

There are 38.20 miles of rated roadways and 0.00 miles of unrated roadways.

Collins St	1014.93	6124.80
Conservation St	0.00	7585.60
Cooks Cir	0.00	4446.00
Coolidge St	2709.00	0.00
Deer Haven Dr	780.11	0.00
Deer Park Rd	4340.89	0.00
Division St	1422.44	0.00
Erickson Ln	2619.71	0.00
Forest Pl	2758.00	0.00
Henry St	2901.02	0.00
Hickey Ave E	2747.05	0.00
Hillcrest Dr	4870.91	0.00
Iverson Rd	0.00	13100.48
Jaecks Rd	0.00	14063.52
Jersey Ln	0.00	24499.20
Kaphaem Rd	3072.30	0.00
Kings Hill Dr	2343.04	0.00
Kings Rd	0.00	149096.36
Leather St	1626.80	15713.28
Lincoln Ave E	1151.11	0.00
Lincoln Ave W	2910.67	0.00
Marinette St	5274.58	0.00
Mary St W	0.00	3311.15
McKinley St S	0.00	14689.08
Mill St W	493.11	0.00
E Mohawk Dr	28618.44	0.00
Morren St	0.00	5061.16
Nelson Ln	0.00	8572.40
Oakland Ave	166.91	0.00
Old Bridge St	4636.00	0.00
Pfeifer Rd	0.00	49151.31
Pine Ave	2109.83	0.00
Pine Ridge Ln	3237.98	0.00
Pine View Ln	410.67	0.00
Piper St	0.00	4746.96
Pleasant Ave W	3248.56	0.00
Pride St	0.00	5564.69

***The information shown is based on actual data. Pavement sections without actual rating data were not included in this analysis.*

There are 38.20 miles of rated roadways and 0.00 miles of unrated roadways.

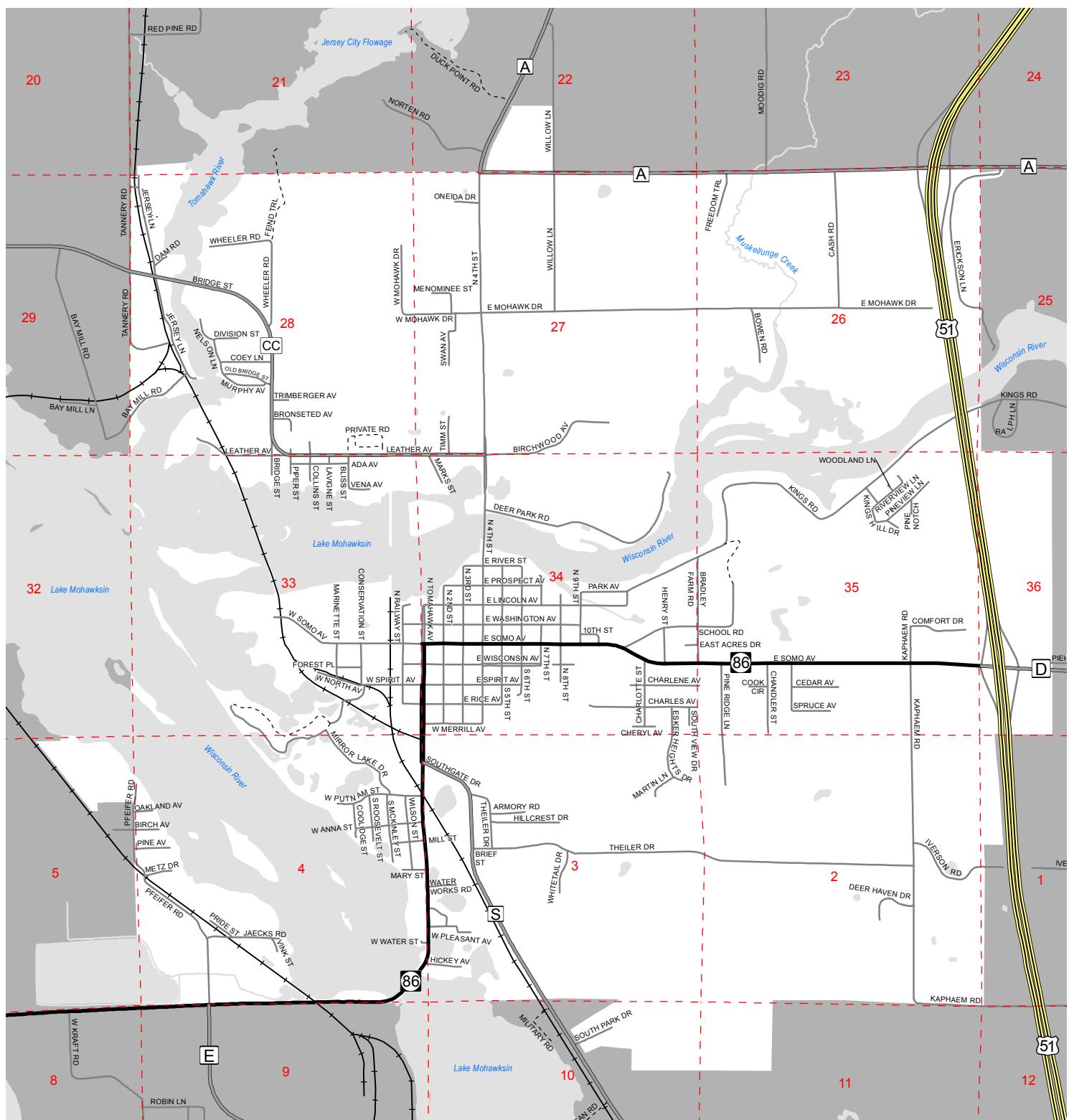
Prospect Ave W	2335.11	0.00
Putnam St W	6719.39	0.00
Railway St	6679.72	0.00
Randall St	147.47	0.00
River St E	3737.82	0.00
River St W	2987.13	0.00
Riverview Ln	858.12	0.00
Roosevelt St S	2580.67	0.00
School Rd	0.00	39054.40
W Somo Ave	15777.02	0.00
Southgate Dr	4561.92	0.00
Spirit Ave E	5682.09	0.00
W Spirit Ave	18821.63	0.00
Spruce Ave	1284.31	0.00
Stlip Rd	305.25	0.00
Swan Ave	862.56	0.00
Tannery Rd	9207.70	0.00
Theiler Dr	7949.82	0.00
Tomahawk Ave N	9232.82	0.00
Trimberger Ave	1546.96	0.00
Vena Ave	0.00	5384.72
Vink St	1252.50	0.00
Voerman St	1556.79	0.00
E Washington Ave	14224.44	0.00
W Washington Ave	11095.07	0.00
Water Works Rd	2114.35	0.00
Wheeler Rd	4352.53	0.00
Willow Ln	6849.42	0.00
Wilson St S	6025.94	0.00
E Wisconsin Ave	3874.91	3887.62
Wisconsin Ave W	8987.26	0.00
Woodland Ln	180.52	0.00
Total	345480.70	758728.12

***The information shown is based on actual data. Pavement sections without actual rating data were not included in this analysis.*

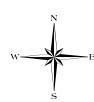
There are 38.20 miles of rated roadways and 0.00 miles of unrated roadways.

APPENDIX E – City Street Map

Map 1
Road Network
City of Tomahawk
Lincoln County, Wisconsin



- - - Section Lines Local Roads
US Highway - - - Private Roads
 - - - State Highways - - - Railroad
 - - - County Highways Water



0 0.125 0.25 0.5 0.75 Miles

Source: WI DNR, NCWRPC

This map is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only. NCWRPC is not responsible for any inaccuracies herein contained.



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