

S. T. S.
Canada Sana
demonstration (m
(distributions and
The state of the s
F
Typescale Action (Action)
Transmitted to the second seco
Manuscription of the state of t
form.
Transmission and the second
and the same of th
Ympungan and a second a second and a second
***  ***  ***  ***  ***  ***  **  **

## TOWN OF HARDING, WISCONSIN ROAD SURFACE MANAGEMENT PLAN

## **TABLE OF CONTENTS**

	Page
CHAPTER 1	Road Surface Management Plan Overview3
	Introduction
CHAPTER 2	Town of Harding's Existing Roadway System5
	Existing System5 Functional Classification System5
CHAPTER 3	Road Surface Management Plan Results7
	Pavement Surface Evaluation and Rating
CHAPTER 4	Roadway Practices and Recommended Improvements10
	General Maintenance and Improvement Practices10 Recommended Five Year Roadway Improvement Schedule12
Appendix A	WISLR Road Inventory
Appendix B	PASER Rating System
Appendix C	Town Road Map

## LIST OF TABLES

	rage
Table 1	Asphalt Surface Rating Condition & Suggested Improvement 8
Table 2	Gravel Surface Rating Condition & Suggested Improvement8
	LIST OF FIGURES
Figure 1	Town of Harding Functional Classification Miles6
Figure 2	Percent of Paved Roads – By Surface Rating7
Figure 3	Percent of Unpaved Roads – By Surface Rating7
Figure 4	Typical Pavement Condition Life Cycle9

## CHAPTER 1 ROAD SURFACE MANAGEMENT PLAN OVERVIEW

## INTRODUCTION

A road surface management plan for a local road network provides a town with the ability to plan for future road surface improvements. With a road surface management plan in place, the limited resources allocated to local roads can be better spent. The overall goal of the Road Surface Management Plan is to help the town make better decisions on the improvements to the local road system. This document contains information vital to the review and rating of the Town of Harding's highway system. Thus, the Road Surface Management Plan will assist in preserving and rehabilitating the existing town road system in a timely and cost-effective manner.

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

## PURPOSE OF ROAD SURFACE MANAGEMENT PLAN

A Road Surface 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.

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

- 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;
- 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 Road Surface Management Plan are intended to assist the Town of Harding in developing a road surface improvement program whereby the limited transportation dollars allocated yearly can be spent more wisely. Through this effort, a better transportation system will be realized over time. A road surface management plan can also assist in vying for additional county, state or federal funding.

In addition, towns must report to the Wisconsin Department of Transportation an assessment of the physical condition of the roads 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 road surface management plan process.

## CHAPTER II TOWN OF HARDING'S EXISTING ROADWAY SYSTEM

### **EXISTING SYSTEM**

Prior to the development of a Road Surface 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 transportation aids program, see Appendix A. This data file is used as the basis for beginning the Road Surface 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 (i.e. earth, gravel, asphalt, or concrete);
- 3. Functional classification; and
- 4. Surface and shoulder width.

The review of the town road system was completed following the Wisconsin DOT Plat Record Maps and corresponding data provided by WisDOT for each roadway segment.

### FUNCTIONAL CLASSIFICATION SYSTEM

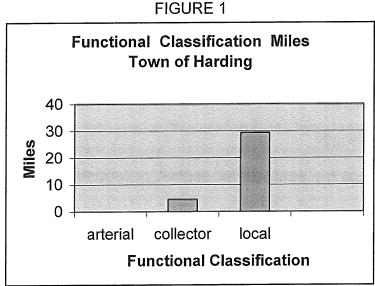
Town of Harding's roads perform varied functions from moving goods and people within the community or through the community. These roads differ from one-another and are characterized by a functional classification system. In the development of this Road Surface Management Plan, the functional classification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

<u>Arterials</u>: Arterials 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 federal or state highways.

Collectors: 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.

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

The functional classification mileage of the Town system is depicted in Figure 1.



By way of comparison, most county highways are in the collector category, and most state trunk and federal routes are arterials. 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 Road Surface Management Plan was produced using the Pavement Analysis Tool within the 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 in evaluating and assigning a value to each roadway segment. To achieve this 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 system.

Based upon the WISLR data collected, there are 33.83 miles of road on the Town's system. On this system, about 16 percent are paved and 84 percent are unpaved surfaces. FIGURE 2 depicts the surface condition ratings of the town's paved roads, and FIGURE 3 shows the unpaved.

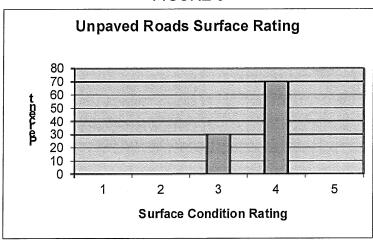
Paved Roads Surface Rating

Paved Roads Surface Rating

10
10
10
12
3 45
67
89
10
Surface Condition Rating

FIGURE 2





These ratings indicate that the system is in relatively sound condition and not in need of any immediate structural improvements. Only about 3.5 miles of road are in need of a preservative treatment such as a sealcoat. The vast majority (over 95%) of the system currently is in need of only minor, routine maintenance.

## **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 (paved) roads are represented in TABLE 1 and gravel (unpaved) in TABLE 2.

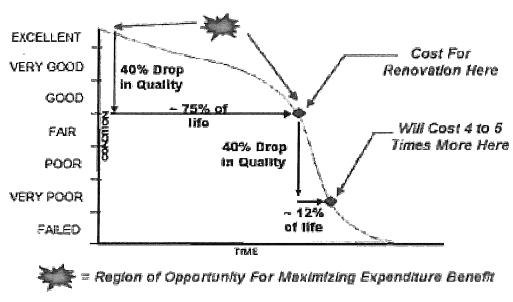
TABLE 1 ASPHALT SURFACE RATING CONDITION & SUGGESTED IMPROVEMENT			
RATING	ACTION REQUIRED		
10 – 9	No Maintenance Required		
8	Little or No Maintenance Required		
7	Crack Filling		
6 - 5	Preservative Treatment (sealcoat)		
4 – 3	Structural Improvement (overlay or recycling)		
2 - 1	Reconstruction		

TABLE 2 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		

## 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.

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 1/2" higher than the shoulder for each foot of width from the centerline to the edge. A paved road crown should be 1/2" 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 form 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. <u>Building a firm foundation</u>. 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. <u>Use the best material</u>. 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. <u>Compact all layers</u>. 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. <u>Design for traffic loads and volumes</u>. 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. <u>Design for maintenance</u>. Design you 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. <u>Build form the bottom up.</u> 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. <u>Protect your investment</u>. The local road system often is the Community's largest investment. These maintenance activities are critical to the longevity of a local road:

<u>Surface</u> Grade, shape, patch, seal crack, control dust, remove ice and snow;

<u>Drainage</u> Clean and repair ditches and culverts, remove excess debris; <u>Roadside</u> Cut brush, trim trees and roadside plantings, control erosion;

and

<u>Traffic Service</u> Clean and repair or replace signs.

10. <u>Keep good records</u>. 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 input from town officials and a projected improvement budget of \$110,000 each year. The schedule lists projects by road name, proposed treatment and estimated cost. The costs for each project listed may differ from the final project costs. An engineering report is required for projects to be eligible for State LRIP funding. That report will identify the final project costs for each project.

## PAVEMENT REHABILITATION SCHEDULE

## **YEAR 2014**

ROAD SEGMENT (from - to)	TREATMENT	MILES	COST EST.
Alexander Lk Rd (CTH E - Termini)	Crack Seal	1.10	\$ 6,350
Brook Dr (CTH E - termini)	Sealcoat	0.99	\$ 9,106
Conservation Ave (Kellogg Rd-town line	e)Stone / Regrade	0.69	\$ 7,964
Edward Dr (CTH E - Von Besser)	Crack Seal	0.70	\$ 3,703
Tesch Rd (Ollhoff Ave - CTH E)	Double Chip Seal	1.27	\$ 31,750
Rhinelander Rd (Tesch Rd - termini)	Stone / Regrade	0.25	\$ 2,164
Camp Ave (CTH E - Co. Forest 701)	Stone / Regrade	0.55	\$ 7,937
Gravel Pit Ln (CTH E - Tesch Rd)	Stone / Regrade	0.78	\$ 9,003
Kelly Creek Dr (Burma - termini)	Stone / Regrade	0.42	\$ 4,849
Kellogg Rd (Conservation - termini)	Stone / Regrade	0.27	\$ 2,175
Wangen Dr (CTH E - Tesch Rd)	Stone / Regrade	0.74	\$ 7,474
Whiskey Bill Rd (CTH E - termini)	Stone / Regrade	1.51	<u>\$ 17,343</u>
·	Total	1	\$ 109,818

### **YEAR 2015**

ROAD SEGMENT (from - to)	TREATMENT	MILES	C	OST EST.
Edward Dr (Von Besser - termini)	Double Chip Seal	0.65	\$	16,250
Von Besser Dr (Edward - Alexander Lk)	Double Chip Seal	0.70	\$	17,500
Forks Rd (Cranberry Trl - termini)	Stone / Regrade	4.48	\$	63,200
Hahn Rd (CTH E - termini)	Stone / Regrade	0.11	\$	1,269
Lemmer Dr (Wangen Dr - termini)	Stone / Regrade	0.25	\$	4,329
Walenczyk Rd (Burma Rd - termini)	Stone / Regrade	0.50	\$	4,329
Wegner Rd (Cranberry Trl - juris.)	Stone / Regrade	0.25	<u>\$</u>	2,885
	Total		\$	109,762

## **YEAR 2016**

ROAD SEGMENT (from - to)	TREATMENT	MILES	C	OST EST.
Conservation Ave (CTH E - Kellogg Rd)	Stone / Regrade	1.06	\$	12,234
Pickering Dr (Tesch Rd - termini)	Stone / Regrade	0.23	\$	1,991
Tesch Rd (Burma Rd - Ollhoff Ave)	Stone / Regrade	2.82	\$	32,549
Ollhoff Ave (CTH E - Tesch Rd)	Stone / Regrade	1.00	\$	10,100
West End Dr (Forks Rd - CTH É)	Stone / Regrade	2.00	\$	28,861
Misc. Spot Work (To Be Programmed)	· ·		\$	20,846
Carry over for 2017 projects			\$	3,419
	Total		\$ 1	110,000

## **YEAR 2017**

ROAD SEGMENT (from - to)	TREATMENT	MILES	COST EST.
Burma Rd (CTH E - CTH E)	Stone / Regrade	4.54	\$ 78,614
Cranberry Trl (check jurisdiction)	Stone / Regrade	2.01	<u>\$ 34,805</u>
	Tota	1	\$113,419

## **YEAR 2018**

ROAD SEGMENT (from - to)	TREATMENT	MILES	C	OST EST.
New Wood Rd (Whiskey Bill - townline)	Stone / Regrade	4.10	\$	47,323
Alexander Lk Rd (CTH E - termini)	Sealcoat	1.10	\$	13,513
Brook Dr (CTH E - termini)	Crack Seal	0.99	\$	4,760
Edward Dr (CTH E - termini)	Crack Seal	1.35	\$	6,828
Tesch Rd (Ollhoff Ave - CTH E)	Crack Seal	1.27	\$	6,718
Von Besser Dr (Edward - Alexander Lk)	Crack Seal	0.70	\$	3,703
Camp Ave (CTH E - Co. Forest 701)	Stone / Regrade	0.55	\$	7,937
Gravel Pit Ln (CTH E - Tesch Rd)	Stone / Regrade	0.78	\$	9,003
Hahn Rd (CTH E - termini)	Stone / Regrade	0.11	\$	1,269
Kelly Creek Dr (Burma - termini)	Stone / Regrade	0.42	\$	4,849
Lemmer Dr (Wangen Dr - termini)	Stone / Regrade	0.25	\$	4,329
· -	Total		\$ 1	110,232

## Conclusion

This plan should serve as the road surface improvement budget plan for the Town of Harding. However, the Town Board may shift projects from year to year as conditions warrent. It is important that the inventory of pavement surface conditions be updated every two years, so that the priorities list may be kept current. Likewise, cost estimates can be revisited as the actual costs of road improvements change from year to year. Updating information on a regular basis is important to the long-range success of this program plan.

(
-
To a second seco
1
Abbutterapy
**************************************
-
(
{

APPENDIX A	- WISLR Road	Inventory
		-

		,
		}
		}
		-
		(
		(
		*,
		,
		The second secon
		-

## STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION WISCONSIN INFORMATION SYSTEM FOR LOCAL ROADS

Inventory Listing - ( R-20 ) 1-1-2014 Certification

Town Of Harding (008)

Rd/St Name

**Certified Miles** 

=>Alexander Lake Rd		1.10																									
AT RD/ST OFFSET MILES	TO ROAD NAME OFFSET MILES	LENGTH MILES (FEET)	OW I	L Tyl	SURFAC Type WD	SE SE	Ä	CURB LT RT	<del>                                     </del>	SHOULDER LT RT		MEDIAN Type WD	H	ADT	M.	ROW	W FC	RC	o os	U/A	NHS	H AC	ALN H V	NN YR	PVT R Y		MS
стне	Von Besser Dr	0.26 (1373)	z	2 65	24	2007	4	0	102		102		Ш	000035		E 5	50 45	5	4	000	NON	8		2014		2013	1
Von Besser Dr	Termini	0.84 (4435)	z	2 65	24	2007	4	0	0 102	102	2		Ш	000015		<u>Б</u>	50 45	ιo	4	000	NON	8		2014		2013	T
=>Brook Dr		0.99																	]				-			11	
AT RD/ST OFFSET MILES	TO ROAD NAME OFFSET MILES	LENGTH (FEET)	0 W	L Ty	SURFAC Type WD	YR	A	CURB LT RT	<del>-  </del>	<b>I</b> ⋠├──		MEDIAN Type WD		ADT	XX.	ROW I W	W FC	RC	o os	U/A	NHS	H AC	ALN H	NA XR	PVT	æ	SW
СТНЕ	Termini	0.99 (5227)	Z	2 55	18	1998	4	0	202	2 202	Ŋ		Ш	000015		E 5	50 45	5	4	000	NON	8		2014	9	2013	
=>Burma Rd		4.54																									
AT RD/ST OFFSET MILES	TO ROAD NAME OFFSET MILES	LENGTH MILES (FEET)	OW I	L Tyl	SURFAC Type WD	Y.K.	A	CURB LT RT	<del></del>	5		MEDIAN Type WD	H	ADT	XX.	ROW W	W FC	RC	o o	U/A	NHS	H AC	ALN H V	INV XR	R PVT	æ	SW
СТНЕ	Kelly Creek Dr	2.00 (10560)	Z	2 35	5 24	1966	4	0	000	00	9		)  -	060000	2003	Ш	50 40	ro.	4	000	NON	8		2014	4	2013	
Kelly Creek Dr	Walenczyk Rd	0.52 (2746)	Z	2 35	5 24	1966	4	0	000	000	0		Ш	000035		E 5	50 40	Ω.	4	000	NON	8		2014	4	2013	1
Walenczyk Rd	СТНЕ	2.02 (10665)	Z	2 35	5 24	1966	4	0	000	000	0		)  -	000120	2003	Ш	50 40	ιo	4	000	NON	8		2014	4	2013	
=>Camp Ave		0.55																					-				
AT RD/ST OFFSET MILES	TO ROAD NAME OFFSET MILES	LENGTH MILES (FEET)	ow 1	L Typ	SURFAC Type WD	YR		CURB LT RT		SHOULDER LT RT		MEDIAN Type WD		ADT	K K	ROW	W FC	RC	O OS	U/A	NHS	H AC	ALN H V	NA XR	R S	Æ	AMS
СТНЕ	County Forest 701	0.55 (2904)	Z	2 35	5 20	1966	4	0	000	000	<u>o</u>		<u>о</u> ш	000005		E 5	50 45	5	4	000	NON	8		2014	6	2013	

Page 1 of 9

The information contained in this dataset and information produced from this dataset were created for the official use of the Wisconsin Department of Transportation (WisDOT). Any other use while not prohibited, is the sole responsibility of the user. WisDOT expressly disclaims all liability regarding fitness of use of the information for other than official WisDOT business.

## COUNTY OF LINCOLN (35)

## STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION WISCONSIN INFORMATION SYSTEM FOR LOCAL ROADS

Inventory Listing - (R-20) 1-1-2014 Certification

=>Conservation Ave		1.62																											
AT RD/ST	TO ROAD NAME	LENGTH			SURFA		$\Box$	[]	EB BB	SHOL	LDE	CURB SHOULDER MEDIAN	DIAN		ADT		ROW							H	ALN INV	M	PVT	F	
OFFISE MILES	OFFSET MILES	(FEET)	<u>-</u>	LY.	Pe W.		<b>4</b>	<u> </u>	7	5	RT	Typ	(M)	=	YR P LT RT LT RT Type WD I CNT YR I W FC RC SC O U/A NHS H AC H V YR	XX	_	× ¥	SC SC	SC	D/A	NHS	H	VC H	>	YR	~	R YR SW	≩
СТНЕ	Kellogg Rd	1.06 (5597)	Z	N 2 35	5 16		96 4	0	0	1966 4 0 0 000 000	8			ō Ш	000015		田 5	E 50 45	5 5	4	000	4 000 NON	1	00		2014 4 2013	4	2013	1
Kellogg Rd	Conservation Ave	0.69 (3643)	Z	N 2 35	5 16	196	36	0	0	1966 4 0 000 000	000	_		<u>о</u> Ш	E 000015		<u>Б</u>	50 45	5	+4	000	4 000 NON		8		2014 4 2013	4	2013	T
=>Cranberry Trl		2.01																-					11	-					

=>Cranberry Trl		2.01																									
AT RD/ST OFFSET MILES	TO ROAD NAME OFFSET MILES	LENGTH SURFA MILES OW L Type WD (FEET)	M	Type	YR	- A	CURB	HS 1	I I I	CURB SHOULDER MEDIAN LT RT LT RT Type WD	EDIA!	78	CE         CURB         SHOULDER         MEDIAN         ADT         ROW         FC         RC         SC         0         U/A         NHS         H         ALN         TNV         PVT           YR         P         LT         RT         LT         RT         Type         WD         T         T         RT         T         T         T         R         T         R         T         R <th>YR</th> <th>ROW</th> <th>) Fig.</th> <th>RC</th> <th>O DS</th> <th>T//A</th> <th>NHS</th> <th>H</th> <th>¥ Ħ</th> <th>N A</th> <th>INV YR</th> <th><u>a</u> =</th> <th>T. X</th> <th>SW</th>	YR	ROW	) Fig.	RC	O DS	T//A	NHS	H	¥ Ħ	N A	INV YR	<u>a</u> =	T. X	SW
Wegner Rd (2.01)	Forks Rd	0.25 (1320)	7	N 2 35 24	1966	4	0	8	1966 4 0 0 000 000	<u> </u>		Ш	E 000035		33	E 33 45 5	r.	+ 4	00	4 000 NON	8	+-		2014	4	2014 4 2013	
Forks Rd	СТН ММ	1.76 (9293)	2	N 2 35 26	 1966	4	0	8	1966 4 0 0 000 000	9		Ш	000035		20	E 50 45 5	ည	4	8	4 000 NON	8	-		2014	4	2014 4 2013	

## STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION WISCONSIN INFORMATION SYSTEM FOR LOCAL ROADS

Inventory Listing - ( R-20 ) 1-1-2014 Certification

Town Of Harding (008)

=>CTH E		17.19																						
AT RD/ST OFFSET MILES	TO ROAD NAME OFFSET MILES	LENGTH MILES (FEET)	OW.	L Ty	SURFACE Type WD Y	3 ×	ا ا	CURB LT RT	<del></del>	SHOULDER LT RT	LDER MEDIAN RT Type WD	7.6	ADT	YR J	ROW I W	FC	RC SC	0 U/A	NHS	T AC	ALN H V	XX XX	PVT R 3	T YR SW
CTH E (2) (0.94)	Burma Rd	1.51 (7973)	z	2 70	0 22	2 2006	96 4	0	0	203	203	Ш	920000		99 E 66	64	4	3 000	NON	8		2012	- ω	2011
Burma Rd	Camp Ave	0.60 (3168)	z	2 33	35 26	3 2006	4 90	0	0	000	000	Ш	000075		99 E 66	45	4	3 000	NON	8		2012	4	2011
Camp Ave	Whiskey Bill Rd	2.42 (12778)	z	2 35	5 26	20	90	0	0	00	000	Τ	000030 2	2003 E	99 E 66	45	4	3 000	NON	8		2012	т т	2011
Whiskey Bill Rd	Conservation Ave	2.03 (10718)	z	2 33	35 26	20	06 4	0	0	000	000	Ш	000150		99 E 60	45	4	3 000	NON	8		2012	е п	2011
Conservation Ave	Hahn Rd (3.67)	3.67 (19378)	z	2 70	0 22	2006	4 9	0	0	00	000	Ш	000150		99 E 66	45	4	3 000	NON	8		2012	∞	2011
Conservation Ave (3.67)	Hahn Rd	0.64 (3379)	z	2 70	0 22	2006	4 9	0	0	203	203	Ш	000150		E 66	45	4	3 000	NON	8		2012	∞	2011
Hahn Rd	Burma Rd	0.95 (5016)	z	2 70	0 22	2006	4 9	0	0	203	203	⊢	000000	2003 E	99 E	45	4	3 000	NON	8		2012	- ∞	2011
Burma Rd	Wangen Dr	0.47 (2482)	z	2 70	0 22	200	4	0	0	204	204	Ш	000150		E 66	40	4	3 000	NON	8		2012	_ ∞	2011
Wangen Dr	Brook Dr	0.51 (2693)	z	2 70	0 22	2006	4	0	0	204	204	Ш	000150	"	E 66	40 4	4	3 000	NON	8		2012	_ ω	2011
Brook Dr	Gravel Pit Ln	0.14 (739)	z	2 70	0 22	2006	4	0	0	204	204	Ш	000150	"	99 E 66	40	4	3 000	NON	8		2012	_ ∞	2011
Gravel Pit Ln	W End Dr	0.36 (1901)	z	2 70	0 22	2006	4	0	0	204	204	Ш	000150		99 E 66	6	4	3 000	NON	8		2012	_ ∞	2011
W End Dr	Ollhoff Ave	0.51 (2693)	z	2 70	0 22	2006	4	0	0	204	204	Ш	000150		99 E 66	40 4	4	3 000	NON	8		2012	ω	2011
Ollhoff Ave	CTH MM (0.38)	0.38 (2006)	z	2 70	0 22	2006	6 4	0	0	204	204	Ш	000150		99	64	4	3 000	NON	8		2012	_ ω	2011

Page 3 of 9

## STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION WISCONSIN INFORMATION SYSTEM FOR LOCAL ROADS

Inventory Listing - ( R-20 ) 1-1-2014 Certification

## Town Of Harding (008)

I S/GVI I V	TO ROAD NAME	LENGTH			SURFACE	CE		CUR	SH	CURB SHOULDER MEDIAN	R ME	EDIAN	-	ADT		ROW					_		N.I.A	NI VAI	L	PVT	Γ
MILES	OFFSET MILES	MILES (FEET)	MO	L Ty	OW L Type WD	Y.	۵.	LT	T.	P LT RT LT RT Type WD 1	T Ty1	e WI	-	CNT	ξ.	×	ည္	RC S	O C	U/A	YR I W FC RC SC O U/A NHS H AC H V YR	H AC	Ξ	<del> </del>	~	VR SW	sw
	СТН ММ	1.11 (5861)	z	2. 70	) 22	N 2 70 22 2006 4	4	0	2 2	0 203 203	13		Ш	E 000150		E 66	66 40	4	က	8	3 000 NON	8		201	8	2012 8 2011	
	Tesch Rd	0.76 (4013)	z	2 70	) 22	N 2 70 22 2006 3	m	0	7	0 203 203	<u></u> 8		Ш	000150		E 66 40	40	4	က	00	3 000 NON	8		201	2012 8 2011	2011	
	Alexander Lake Rd	0.74 (3907)	z	2 70	22	2006	m	0	2 0	N 2 70 22 2006 3 0 0 203 203	83		Ш	000150		E 66 40 4	40	4	9	8	3 000 NON	8		. 201	2012 8 2011	2011	
Alexander Lake Rd	Edward Dr	0.05 (264)	z	2 70	) 22	70 22 2006 3	ო "	0	0	203 203	ဥ	i	Ш	E 000150		E 66 40 4	40	4	3	000	3 000 NON	00		201	8	2012 8 2011	
	Sunset Dr (0.34)	0.34 (1795)	z	2 70	) 22	70 22 2006 3	e G	0	0 2	203 203	23		Ш	E 000150		E 66 40 4	40	4	က	000	3 000 NON	00		201	8 8	2012 8 2011	

=>CTH MM		09.0																											
AT RD/ST	TO ROAD NAME	LENGTH	-		URFA	CE		12	E S	HOU	DER	CURB SHOULDER MEDIAN	Z	ADT			ROW	-	-	L				F	2	ANI	Ľ	1./	L
OFFSET MILES	OFFSET MILES	MILES OW L Type WD YR (FEET)	<u>7</u>	Type	WD	X	A.	LT	RT	LI	RT	Type W	I Q/	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	XX	ĭ	≥	FCR	SC	0	D/A	NHS	H	J <del>E</del>	>	XX	<b>~</b>	XX	S.W.
стн Е	CTH MM (0.23)	0.23 (1214) N	2	2 70 24	24		4	0	0	1985 4 0 0 204 204	204		Ш	E 000150		Ш	99	E 66 40 4		3	000	3 000 NON	8	-		2012	∞	2012 8 2011	
СТН Е (0.23)	CTH MM (0.60)	0.37 (1954) N	7	2 65	24		4	0	0	2005 4 0 0 204 204	204		Ш	E 000150		Ш	99	E 66 40 4	-	3 (	000	00 NON 000 E	<del>  ŏ</del>	-		2012	ω	2012 8 2011	

=>Edward Dr		1.35																										Consti
AT RD/ST	TO ROAD NAME	LENGTH		Š	URFA	CE	۲	CURE	SH	JULDI	CURB SHOULDER MEDIAN	EDIAN		ADT		ROW	_ A		<u> </u>			H			-  }	PVT		_
OFFSET MILES	OFFSET MILES	MILES OW L Type WD YR P (FEET)	<u></u>	L Typ	<u> </u>	ĸ	<u>A</u>		T T	iz z	I Tyı	pe WD	1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	YR	I	V FC	RC.	SC 0	U/A	NHS	H AC	H C	>	<u></u>	<u>م</u>	R SS	
СТНЕ	Von Besser Dr	0.70 (3696)	7	N 2 57 22	22	1978 4 0 0 102 102	4	0		2 10	ŽI		Ш	E 000015		9 Ш	E 66 45	2	4	000	4 000 NON	8			2014 7 2013	7 20	13	
Von Besser Dr	Termini	0.65 (3432)		N 2 57 20	20	1978 4 0 0 102 102	4	0	5	2 10	2		ш	E 000015		<u>Е</u>	E 66 45	υ	4	000	4 000 NON	8		7	2014 6 2013	9 20	13	

Page 4 of 9

## STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION WISCONSIN INFORMATION SYSTEM FOR LOCAL ROADS

Inventory Listing - ( R-20 ) 1-1-2014 Certification

=>Forks Rd		4.48	3																									
AT RD/ST	TO ROAD NAME	LENGTH	V		SU	SURFACE	E	Ľ	CURB	SH	DULDE	SHOULDER MEDIAN	IAN		ADT	f	ROW							MIA	TAT.	L	1/30	
OFFSET MILES	OFFSET MILES	MILES OW L Type WD (FEET)	ΜO	ı	Cype	Q.M	XX	I L	TRI	T.	r RT	XR P LT RT LT RT Type WD I CNT	Q.W.	1	INC	Ä.	×	ည်	2	၀ ၁	YR I W FC RC SC 0 U/A	NHS	H AC H V YR	H	# 	l¤	XX.	-SW
Cranberry Trl	W End Dr	3.75 (19800)	z	7	35	18	1966 4 0	4	-	8	000 000 0			E 000015	0015	Ш		50 45	2	4	000	000 A	8		201	2014 3 2013	201	
W End Dr	Termini (0.20)	0.20 (1056)	z	7	35	20	20 1997 4 0	4	0	20	0 202 202	21		E 000015	0015	<sup>W</sup>	E 33 45	45	2	4	000	000 A	00	ļ	201	2014 3 2013	201	1
W End Dr (0.20)	Termini (0.52)	0.32 (1690)	z	7	35	28	20 1966 4 0	4	0	8	000 000 0			E 000015	0015	<del>  "</del>	E 33 45	45	ည	4	000	000 A	8		201	2014 3 2013	201	m
W End Dr (0.52)	Termini	0.20 (1057)	z	7	35	24	1966			ŏ	00			Ö	000000	<b> </b>	A 66 45	45	5	4	000	000 A	00		201	2014 3 2013	201	
																	↓ I	]	]		]		7	1				]

=>Gravel Pit Ln		0.78																											
AT RD/ST	TO ROAD NAME	LENGTH		닏	SURI	ACE	$\vdash$	S	RB	SHOL	LDEF	CURB SHOULDER MEDIAN	DIAN		ADT		ROW			H				F	Z	ALN INV	PVΤ	Ţ	
OFFSET MILES	OFFSET MILES	LES MILES OW L Type WD YR P 1 (FEET)	<u>~</u>	T.	Pe W	<u>2</u>	<u>م</u> ~	Ţ	RT	LT	RT	Тур	e WD	-	YR P LT RT LT RT Type WD I CNT YR I W FC RC SC O U/A NHS H AC H V YR R YR SW	X.	<u>×</u>	ည် [	RC SC	sco	U/A	NHS	H	CE	>	*	2	E	<u> </u>
CTHE	Tonch Da	0.78	;	'		-	;	<u> </u>	-			<u> </u>						-		╁		İ	士	╁	1				Т
1	i escil ru	(4118)	· z	ر م	25 J		96	0	1966 4 0 0 000 000	000	8			Ш	E 000015		E 50 45 5	45	2		000	4 000 NON	8	<u>_</u>		2014 3 2013	ო	2013	

=>Hahn Rd		0.11																										(Table
AT RD/ST OFFSET MILES	TO ROAD NAME OFFSET MILES	LME LENGTH SURFACE LES MILES OW L Type WD YR P L	,	SU	RFAC.	E E		URB RT	SHO	ULDE RT	Type	WD		YR P LT RT LT RT Type WD I CNT YR I WE SHOULDER WE	K.	ROW I W	FC	RC S	0	U/A I	VHS	H AC	H	22	> ≃ 	TV9 4X	MS.	
стн Е	Termini	0.11 (581) N	7	N 2 35	16 1	996	<del>  4</del>	0	00	966 4 0 0 000 000	<u> </u>		DO E	000005		E 50 45 5	45	2	4	4 000 NON	NO	8		70	2014 3 2013	204	<u>е</u>	

		0018316		DESCRIPTION OF THE PERSON	CONTRACTOR OF THE PARTY OF THE	5765788K8055	Page Control	2831284011N25088	200000000000000000000000000000000000000	AUX CHEMICAL CONTROL	Sections	200000000000000000000000000000000000000	000000000000000000000000000000000000000	(September of the Control of the Con	Contract of the Contract of th	Total Control of the			l								
		0.27																									Sandah
OR	TO ROAD NAME	LENGTH		SUF	FACE	h	CO	82	SHOUL	DER	MEDI	3	AI	T	R	ě	H				E	F	N.		PV7		
CEF	SET MILES	LES MILES OW L Type WD YR P I (FEET)		Type /	<u>*</u>	<u>러</u>	1	RT	LT	ET.	Type	VD I	YR P LT RT LT RT Type WD I CNT YR I W FC RC SC O U/A NHS H AC H V YR R SW	[	1 Y	×	<u>ير</u>	SC	0	NHIS	Ħ	H CH	>	<del>ا</del> لا			
Termini		0.27 (1426) N	-	1 30	8 19	85 4	0	0	1985 4 0 0 000 000	000		<u>                                    </u>	E 000005	05	Ш	E 50 45 5	15		4 00	4 000 NON 000		8		2014 3 2013	3 20	013	

## STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION WISCONSIN INFORMATION SYSTEM FOR LOCAL ROADS

COUNTY OF LINCOLN (35)

Inventory Listing - ( R-20 ) 1-1-2014 Certification

AT RD/ST	TO ROAD NAME	LENGTH		20	SURFACE	3		CIR	SHS	TILLO.	ER AD	NATO		ΔnΤ		200	L		F	r	21	L	Ë	L	Ľ	
OFFSET MILES	OFFSET MILES		N K	Typt	WD	: 1	Δ.	11	i i	T.	T <sub>Y</sub>	De WD	I	$rac{YR}{YR}$ P LT RT LT RT Type WD I CNT YR I W FC RC SC 0 U/A NHS H AC H V YR R YR R SW	YR		) E	RC 5	0	U/A	NES	H AC	N P	<u>}</u>	ద	⊢ ¤
Burma Rd	Termini	0.42 (2218)	2	35	16	N 2 35 16 1985 4 0 0 000 000	4	0	ŏ	8	00		Ш	000000		E 33 45 5	45	5	4	-	4 000 NON	8		2014	2014 3 2013	2013

=>Lemmer Dr		0.25	10																										_
AT RD/ST OFFSET MILES	TO ROAD NAME OFFSET MILES	LENGTH MILES (FEET)	OW L Type WD	T <sub>T</sub>	SURFACE pe WD YI	ACE YR	P4	CURB SHOU P LT RT LT	E SI		RT T	CURB SHOULDER MEDIAN LT RT LT RT Type WD I	<b>z</b> 9	ADT	XX	ROW W	3 3	C RC	sc	YR I W FC RC SC O U/A		п	AC	A EI V	NIIS II AC II V YR	M M	YR X	NS.	
Wangen Dr	Termini	0.25 (1320)	N 2	2 35	24		1974 4 0			000 000 0	8		Ш	E 000015		Ш	66 45	5 5		9	4 000 NON	7	8	-	201	<u>4</u> ω	2014 3 2013	<u>ု</u>	
=>New Wood Rd		4.10																-		-				-		-	4	-	
AT RD/ST OFFSET MILES	TO ROAD NAME OFFSET MILES	LENGTH MILES (FEET)	OW L Type WD	Typ.	SURFACE WD Y	YR		P LT RT LT	E L	TODE EL	RT T	CURB SHOULDER MEDIAN LT RT LT RT Type WD I	z e	ADT	ROW   FC   RC   SC   0   U/A	ROW I W	≥   ≥	C RC	SC	O U/A	SHN		AC	ALN H V	H AC H V YR	l e	PVT YR	MS.	
County Forest 702 (0.52)	Private	1.95 (10299)	N 2	2 35	16		1966 4 0		<del>                                     </del>	000 000 0	8		Ш	000035		Ш	E 50 45	5		<del>4</del>	4 000 NON		8		201	4	2014 4 2013	<u></u>	
Private	Whiskey Bill Rd	2.15 (11349)	Z	2 35	16	<del></del>	1966 4	0	0	000 000 0	000		Ш	E 000035		Ш	E 50 45	5		9	4 000 NON	7	8	1	201	4	2014 4 2013	<del> </del>	

	PVT	YR P LT RT LT RT Type WD I CNT YR I W FC RC SC O U/A NHS H AC H V YR R YR SW	_	
	ANI	V YR	_	
	AL	H QV	_	
		NHS H		
		O U/A		
		C RC SC		
	ROW	I W FC		
	L	YR		
	ADJ	I CNT	1	
	TEDIAN	урс WD		
	ULDER W	RT T.	1	
	B SHOT	RT LT		
	CUR	P LT		
	FACE	e XX		
	SURI	Туре	L	
0		OW	L	_
1.00	LENGTH	LES MILES OW L Type WD YR P LI		2
	TO ROAD NAME	OFFSET MILES		
=>Oilhoff Ave	AT RD/ST	OFFSET MILES		L

## STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION WISCONSIN INFORMATION SYSTEM FOR LOCAL ROADS

Inventory Listing - (R-20) 1-1-2014 Certification

		YR P LT RT LT RT Type WD I CNT YR I W FC RC SC O U/A NHS H AC H V YR R YR SW	m	7
	1.4	XX	2014 4 2013	4
		<b>z</b>	4	$\rfloor$
	IN	XX.	2014	
	Z.	Λ		
	F	CC	8	$\frac{1}{1}$
		H		
		NHS	4 000 NON	
		U/A	8	1
		0	4	1
	H	ည	5	┨
	H	FC	E 50 45 5	1
	M	*	50	1
	RO	ī	Ш	1
		X.		
	\DT	Ļ	000015	1
	,	් ්	00	
	z	I Q	Ш	$\mathbf{I}$
	EDIA	pe W		$\left\{ \right.$
	RM	Ty	0	1
	ULDE	RT	8	
	SHO	LT	966 4 0 0 000 000	
	JR.B	RT	0	
	ט	T.	0	
		~	96	ł
	ACE.	<del>\frac{\fin}}}}}}{\frac}\frac{\frac}\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{</del>	_	
	UR.F.	<u>.</u>	12	-
		MILES OW L Type WD Y (FLET)	N 1 35 12	
	3 3	<u>T</u> Mari	Z	ł
0.23	H.	S (		l
	ENG	MOLLE (FEE)	0.23 (1214)	
			0.	l
	TO ROAD NAME	ES		
	N C	TMD		
	RO4	FFSE	<u>:</u> =	
	TC	Ō	Termini	
		s		
	AT RD/ST	MILE		
g Dr	T RD,	SET		
erini	A	OFF	Rd	
=>Pickering Dr			Tesch Rd	
î			Ĕ	

		I CNT YR I W FC RC SC O U/A NIIS II AC II V YR R YR SW	13
	PVT	χ. .:	2014 3 2013
	L	<u> </u>	4 8
	LÉ	<u>\$</u>	201
	ALN	<u> </u>	<u> </u>
		AC	8
		Д.	7
		SIL	4 000 NON
	L	U/A	00
	H	) 2C	
		RC.	5
		FC	45
	ROW	M	E 50 45 5
	H	- E	Ш
	ADT	X	15
	ΑD	CNI	E 000005
	Ļ	- 0	Ш
	ZDIAN	W.	
	R MI	ξ <u> </u>	
	CURB SHOULDER MEDIAN	- R	) O
	SHO	1	8
	URB	T RT	0
	۲	<u>ਜ</u>	2
	ACE	YR P LT RT LT RT Type WD I	1966 4 0 0 000 000
	RFAC	MD.	8
	SU	Type	1 30
	Ľ	<u>&gt;</u>	-
35		0	Z
0.25	LENGTH	MILES OW L Type WD YR (FLET)	0.25 (1320)
	TO ROAD NAME	OFFSET MILES	Termini
=>Rhinelander Rd	AT RD/ST	OFFSET MILES	Tesch Rd

=>Tesch Rd		4.08																											
AT RD/ST	TO ROAD NAME			Ш	SURFACI	וט	Н	၂	CURB	SHC	ULDE	SHOULDER MEDIAN	MAI		ADT		ROW			<u> </u>				Ľ	ALN	Ž	٦	PVT	
OFFSET MILES	OFFSET MILES	MILES O	<u></u>	LTy	OW L Type WD		YR P LT RT	<u>7</u>	T R	r LT		RT Type WD	WD	_	CNT	XX I	<u> </u>	F.C	RC	I W FC RC SC O U/A	U/A	NHS	н ас н	Ħ	>	Ĕ	~	æ	SW
Burma Rd	Rhinelander Rd	0.51 (2693)	Z	2 3	35 10	16 19	966 4	0	0	000	000 0			Ш	000035		E 50	45	5	9	00	000 A 000 NON	00	<u> </u>		2014	4	4 2013	T
Rhinelander Rd	Wangen Dr	0.69 (3643)	Z	2 33	35 10	16 19	966 4	0	0	000	000			Ш	000035	"	E 50	45	ည	6 4	000	000 A 0	00	<u> </u>		2014 4 2013	4	2013	
Wangen Dr	Pickering Dr	0.79 (4171)	Z	2 33	35 1	16 19	966 4	0	0	000	000			Ш	000035		E 50	45	2	6	6 4 000	NON	00	<del> </del>		2014 4 2013	4	2013	
Pickering Dr	Gravel Pit Ln	0.10 (528)	Z	2 3	35 1	16 19	966 4	0	0	000	000			Ш	000035		E 50	45	5	6 4	6 4 000	NON	8	<u> </u>		2014 4 2013	4	2013	
Gravel Pit Ln	Ollhoff Ave	0.72 (3802)	Z	2 3	35 1	16 19	966 4	0	0 0	000	000			Ш	000035		E 50	45	5	9	000	6 4 000 NON	00	<del>  _</del>		2014 4	4	2013	T
Ollhoff Ave	СТНЕ	1.27 (6706)	Z	2 5	55 2	22 19	989 4	4 0	0 0	203	3 203	<u>س</u>		Ш	000075		E 50	45	5	9	8	6 4 000 NON	8	<del>  _</del>		2014	5	2013	

## STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION WISCONSIN INFORMATION SYSTEM FOR LOCAL ROADS

Inventory Listing - ( R-20 ) 1-1-2014 Certification

## Town Of Harding (008)

H. SURFACE CURB SHOULDER NEDIAN ADT ROW I Type WD YR P LT RT LT RT Type WD I CNT YR I W FC RC SC O U/A NHS	TRD/ST         TO ROAD NAME         LENGTH         SURFACE           SET MILES         OFFSET MILES         OW L         Type         WD XR           (FB.E.T.)         (FB.E.T.)         Type         WD XR           Alexander Lake Rd         (3696)         N Z         57         22         1985	=>Von Besser Dr		0.70																										
Number	SET MILES OFFSET MILES (FEET)  (FEET)  Alexander Lake Rd (3696) N 2 57 22 1985	AT RD/ST	TO ROAD NAME	LENGTH		Н	SURI	7ACE	$\vdash$	CO	2	SHOL	LDER		DIAN		ADT		$\mathbb{L}^{\mathbb{Z}}$		H				F		N I A	TATA	Ĺ	Ę
Alexander Lake Rd 0.70 N 2 57 22 1985 4 0 0 102 102 E 000050 F 50 45 5 4 000 NON 00	Alexander Lake Rd 0.70 N 2 57 22 1985 4 0 0 102 102 E 000050 E 50 45 5 4 000 NON 00	OFFSET MILES	OFFSET MILES	MILES (FEET)	MO	T.	'pe W	ΣQ	я ч	LT	RT	LT	RT	Турк	WD	-	CNT	X X	H	≱	<u>ي</u> ي	SC	)D 0	A NE	H SI	AC.	A H	¥	<b>Z</b>	Χĸ
		Edward Dr	Alexander Lake Rd	0.70	z	2 5	7 2.	198	35 4	0	0	102	102			1 0	000050		Ш	20 7			4	N C	Ž	8	-	2014	٥	2013

YR SW

2

IN YR

ALN II V

ПАС

SHIN

RC SC O U/A

FC

ROW I

ADT

Type WD

R

Ľ

CURB LT RT

SURFACE Type | WD | YI

00

LENGTH MILES (FEET)

TO ROAD NAME OFFSET MILES

AT RD/ST OFFSET MILES

4

SHOULDER MEDIAN

Burma Rd	Termini	0.50 (2640)		35	N 1 35 12		4	0	0	1966 4 0 0 000 000	000				E 000015		- 33	E 33 45	ય	7	000 1	4 000 NON	00	0		2014	က	2014 3 2013	
=>Wangen Dr		0,74												1			-				4		]	-					
AT RD/ST	TO ROAD NAME	LENGTH	┝		SURFACE	9	ļ.	CO	2	SHOU	LDER	CURB SHOULDER MEDIAN	IAN		ADT	T	ROW	<u> </u>		H	L		E	F	AI,N INV	NA NA	1	PVT	
OFFSET MILES	OFFSET MILES	MILES OW L Type WD (FEET)	<u>∓</u>	T.	E WI		4	LT	RT	LT	RT	Туре	αw	ĭ	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	€.	≱	<u>일</u> [.	RC	$\frac{c}{c}$	<u>  U/A</u>	NHS	H	D.	>	X	R	¥,	SW
СТНЕ	Lemmer Dr	0.50 (2640)		35	N 1 35 14		4	0	0	1966 4 0 000 000	000			Ш	E 000015		25	E 50 45 5	5	<b> </b>	8	4 000 NON	00	-		2014	ო	2014 3 2013	
Lemmer Dr	Tesch Rd	0.24 (1267)	7	35	N 1 35 14		4	0	0	1966 4 0 0 000 000	000			Ш	E 000015	"	22	E 50 45 5	2	<b> </b>	8	4 000 NON	8	-		2014	က	2014 3 2013	

=>Wegner Rd		0.25																										
AT RD/ST	TO ROAD NAME	LENGTH		S	URFA	CE	브	CURB	SH	OULD	CURB SHOULDER MEDIAN	EDIAN	L.	ADT		ROW	_		F			E	F	Z	ALN INV	ĻΛd	Ę	
OFFSET MILES	OFFSET MILES	MILES OW L Type WD (FEET)	<u>*                                    </u>	Ē.	Q X	XX.	<u></u>	T.	I	I R	T Ty	pe W1	Ι (	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Ϋ́Κ	I I	일 I.	RC S	C 0	U/A	NHS	н	<u> </u>	>	ĸ	<b>2</b>	, K	MS
Termini (1.50)	Cranberry Trl	0.25 (1320)	Z	N 2 35 16		1966	4	0	8	1966 4 0 000 000	o o		Ш	000000		E 50 45 5	45	2	4	8	4 000 NON	00			2014 4 2013	4	2013	<u> </u>
			1					-	-	-			_			_	_	_	_			_		_		_		_

Page 8 of 9

# STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION WISCONSIN INFORMATION SYSTEM FOR LOCAL ROADS

Inventory Listing - (R-20) 1-1-2014 Certification

## Town Of Harding (008)

=>W End Dr		2.00																									
AT RD/ST OFFSET MILES	TO ROAD NAME OFFSET MILES	LENGTH MILES (FEET)	WC 1	Typ	OW L Type WD	YR	А	P LT RT LT	T L		ER II	SHOULDER MEDIAN LT RT Type WD I	70	ADT	YR		ROW I W FC RC SC O U/A	RC	3C 0	U/A	NHS	H AC	H AC H V	YR YR		PVT	SW
Forks Rd	СТНЕ	2.00 (10560)	2	2 35	20	<u> </u>	1968 4 0		000 0	000	8		Ш	E 000015		<u>П</u>	50 45	ιo	4	000	4 000 NON	8		50.	4	2014 4 2013	
=>Whiskey Bill Rd		1.51																				4		-	-		
AT RD/ST OFFSET MILES	TO ROAD NAME OFFSET MILES	LENGTH MILES (FEET)	1 MC	qYT	OW L Type WD	ט	<u> </u>	E CURB SHOU YR P LT RT LT	T L	OULD T R	ER T	SHOULDER MEDIAN LT RT Type WD I	70	ADT	YR	ROW I W	ROW   FC RC SC 0 U/A	RC	SC 0	U/A	NES	ПАС	II AC II V	Z ×		PVT	AS
СТНЕ	New Wood Rd	0.11 (581)	N 2	2 35	19	-	982 4 0		000 0		000		Ш	E 000015		П	50 45	ιo	4	4 000 NON	NON	8		2014	<u>4</u> ε	3 2013	
New Wood Rd	Termini	1.40 (7392)	Z 7	2 35	16		1982 4 0	0	000 0	o g	000		Ш	E 000015		<u>П</u>	50 45	22	4	000	4 000 NON	8		2014	<u>4</u> ε	3 2013	

Page 9 of 9

)
{
(
To the second se
flaggy Vancous
(

APPENDIX B – PASER Rating System

a Company	
1	
- Communication of the Communi	
The second secon	
-	
	The second secon

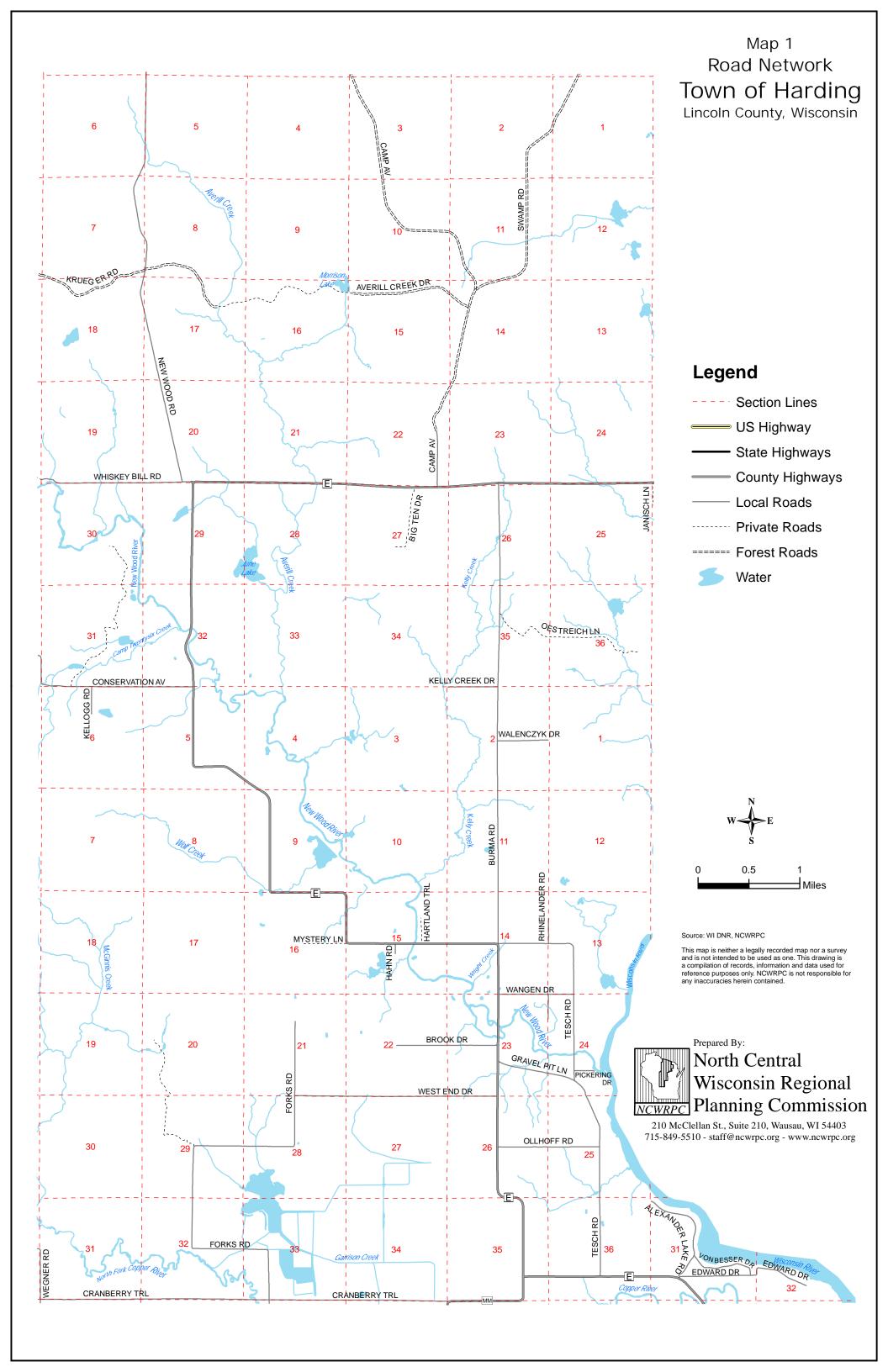
PASER Asphalt Surface Rating System		
Surface Rating	Visible Distress*	General condition/ Treatment measures
10 Excellent	None.	New construction.
9 Excellent	None.	Recent overlay, like new
8 Very Good	No longitudinal cracks except reflection of paving joints.	Recent sealcoat or new road mix. Little or no
	Occasional transverse cracks, widely spaced (40" or greater).	maintenance required.
	All cracks sealed or tight (open ¼" or less).	
7 Good	Very slight or no ravelling, surface shows some traffic wear.	First signs of aging. Maintain with routine crack filling.
	Longitudinal cracks (open ¼") due to reflection or paving joints.	
	Transverse cracks (open ½") spaced 10 feet or more apart, little or slight crack ravelling.	
	No patching or very few patches in excellent condition.	
6 Good	Slight raveling (loss of fines) and traffic wear.	Show signs of aging, sound structural condition. Could
	Longitudinal cracks (open $\frac{1}{4}$ " – $\frac{1}{2}$ ") due to reflection and paving joints.	extend life with sealcoat.
	Transverse cracking (open ¼" to ½") some paced less than 10 feet.	
	First sign of block cracking.	
	Slight to moderate flushing or polishing.	
	Occasional patching in good condition.	

PASER Asphalt Surface Rating System (continued)			
Surface Rat	ng Visible Distress*	General condition/ Treatment measures	
5 Fair	Moderate to severe raveling (loss of fine and coarse aggregate).	Surface aging, sound structural condition. Needs	
	Longitudinal and transverse cracks (open ½") show first signs of slight raveling and secondary cracks. First signs of longitudinal cracks near pavement edge.	sealcoat or nonstructural overlay.	
	Block cracking up to 50% of surface.		
	Extensive to severe flushing or polishing.		
	Some patching or edge wedging in good condition.		
4 Fair	Severe surface raveling.	Significant aging and first	
	Multiple longitudinal and transverse cracking with slight raveling.	signs of need for strengthening. Would benefit from recycling or overlay.	
	Longitudinal cracking in wheel path.		
	Block cracking (over 50%) of surface).		
	Patching in fair condition.		
	Slight rutting or distortions $(1/2)$ deep or less).		
3 Poor	Closely spaced longitudinal and transverse cracks often showing raveling and crack erosion.	Needs patching and major overlay or complete recycling.	
	Severe block cracking.		
	Some alligator cracking (less than 25% of surface).		
	Patches in fair to poor condition.		
	Moderate rutting or distortion (1" or 2" deep).		
	Occasional potholes.		
2 Very Poor	Alligator cracking (over 25% of surface).	Severe deterioration. Needs	
	Severe distortions (over 2" deep).	reconstruction with extensive base repair.	
	Extensive patching in poor condition.		
	Potholes.		
1 Failed	Severe distress with extensive loss of surface integrity.	Failed. Needs total reconstruction.	

PASER Gravel Surface Rating System			
Surfa	ice Rating	Visible Distress*	General condition/ Treatment measures
5 (10)	Excellent	No distress.  Dust controlled.  Excellent surface condition and ride.	New construction – or total reconstruction.  Excellent drainage.  Little or no maintenance required.
4 (8)	Good	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.
3 (6)	Fair	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.

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

Source: Wisconsin Transportation Information Center.



		1
		( .
		1
		1
		(
		( '
		,
		i de la companio de l
		-
		(
		or Annual
		(
		)
		(
		-
		(
		(****
		1
		{
		{
		,
		1
		(
		4
		}