

PROJECT PLANNING & SELECTION TOOL:  
THESE STUNTS ARE PERFORMED BY  
TRAINED PROFESSIONALS, ~~DON'T~~ DO TRY  
THESE AT HOME

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Rick DeVries, City of Grand Rapids

Rick Sprague, Kent County Road Commission

# DISCLAIMER

- ❖ What you about to see is something everyone is capable of doing. That does not mean these two know what they are doing. They will do their best to keep you entertained, and hopefully, leave here either with the knowledge to preform your own Project Selection or with a few laughs at their expense.

No disclaimer is legal without unreadable text... here you go

Legal mumbo jumbo, Blah blah blah, yada yada yada, don't copy this presentation as you may be humiliated in public. The following PowerPoint is brought to you by the letter "P". P for PowerPoint, Project, and Planner. With great power comes great responsibility – Uncle Ben Parker.

If you can read this you are a teachers pet sitting way to close to the front of the room.

# WHY SHOULD YOU USE THIS TOOL?

- Currently our Officials have been known to use an old fashioned method of picking road projects.



# IN THE BEGINNING...

- Before using the Project Selection Tools you must first have a “PASER” History.

Roadsoft: v2018.7 : Kent (County)

File TAMC Asset Management Safety Analysis Reporting LDC Tools Settings Help

Connection: [RoadSoft] on [KCRC-Server4] as RJS (FW17)

Road Module

Roads with Selected Segments

PR No	Road Name
405401	Leonard St NE

Segments on Leonard St NE

Select...	BMP	EMP	From	To	Length
<input type="checkbox"/>	3.881	3.901	E Beltline Ave NE	E Beltline Ave NE	0.020 (106 ft.)
<input type="checkbox"/>	3.901	4.106	E Beltline Ave NE	Eagle Crest Dr NE	0.205 (1082 ft.)
<input type="checkbox"/>	4.106	4.348	Eagle Crest Dr NE	Trillium	0.242 (1278 ft.)
<input type="checkbox"/>	4.348	4.398			0.050 (264 ft.)
<input type="checkbox"/>	4.398	4.736		Trillium Trl NE	0.338 (1785 ft.)
<input type="checkbox"/>	4.736	5.072	Trillium Trl NE	Winterwood Dr NE	0.336 (1774 ft.)
<input checked="" type="checkbox"/>	5.072	5.395	Winterwood Dr NE	Crahen Ave NE	0.323 (1705 ft.)
<input checked="" type="checkbox"/>	5.395	5.746	Crahen Ave NE	Spring House Dr NE	0.351 (1853 ft.)
<input type="checkbox"/>	5.746	5.795	Spring House Dr NE	Dead End or Start	0.049 (259 ft.)

Mini-Map

Curvy/Sutter

Shoulder

User-Defined

Surface Design

Documents

Winterwood Dr NE

Leonard St NE

Crahen Ave NE

Identification

Segment Name	Leonard St NE
From	Winterwood Dr NE
To	Crahen Ave NE
City/Twp	Grand Rapids Twp
Maintained By	Yes

Physical/Design

Number of Lanes	2
Surface Width	30.00
Right of Way	0
Divided Direction	Undivided
Access Control	No Access Control
Median Type	Undivided
Traffic Operations	Two-way
Restriction	All-Season (not weight restricted)
Restriction Details	

Traffic Volume

Traffic Volume	Undefined
Road Design	Undefined
% Commercial	0.0

Miscellaneous

User Inventory ID	
Memo	

Surface

Surface SubType	Asphalt-Standard (Asphalt)
MIRE Surface Type	Bituminous
Current PASER Rating	8 - Very Good
RSL	10
Confidence	94
YLR	2017

PASER Rating/Treatment History

[Add PASER Rating/Treatment...](#)

8/30/2017 (Chipseal + Fogseal)	
PASER Rating	8 - Very Good
7/18/2017	
PASER Rating	6 - Good
7/26/2016	
PASER Rating	6 - Good
8/11/2015	
PASER Rating	7 - Good
4/20/2015	
PASER Rating	7 - Good
9/29/2014	
PASER Rating	7 - Good
8/15/2013	
PASER Rating	7 - Good
10/17/2012	

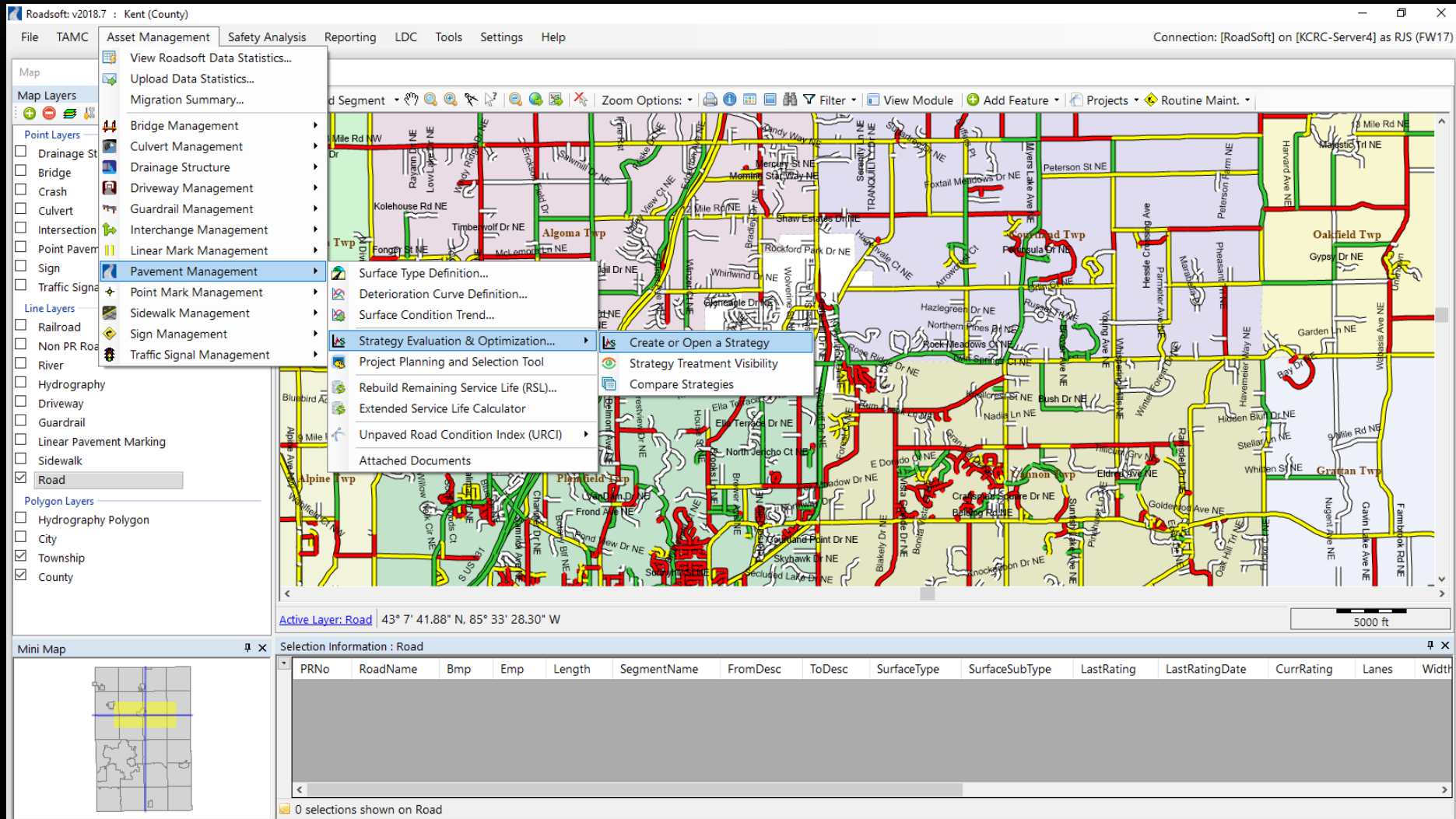
Identification

Surface

Print Curve Multi-edit Undo Save

# IN THE BEGINNING...

- If you choose a project plan using a strategy you must have a "Strategy Evaluation and Optimization" saved.



# ADJUSTING THE PLAN

- After choosing a new filter you can make adjustments:
  - Evaluation Date (Must be correct, cannot be changed beyond this step)
  - Inflation %
  - Number of Years
  - Pavement Types

**Edit Plan Settings**

New Filter | Open Filter | Treatment Visibility

Selected Filter: [Alpine Local Paved](#)

Evaluation Date:  % Inflation:  Number of years:

Filter Information	
Current Filter	Alpine Local Paved
Pavement Types in Filter	
<input checked="" type="checkbox"/> Asphalt-Standard	Lane Miles: 71.899
<input checked="" type="checkbox"/> Sealcoat-Standard	Lane Miles: 62.630

OK Cancel

# PROJECT PLANNING & SELECTION TOOL

Project Planner: New Planner (Filter: Alpine Local Paved (Planning))

Save Edit Reports

Pavement Type: Asphalt-Standard Budget (\$)

2018

Reconstruction LRP

\$0 Selected  
0.000 Selected (Lane Mi.)

Crush Shape

\$150,940 Selected  
1.006 Selected (Lane Mi.)

Mill Overlay- 3.5"

\$226,476 Selected  
1.994 Selected (Lane Mi.)

Rehab/Resurfacing

\$0 Selected  
0.000 Selected (Lane Mi.)

GVMC - Overlay - 3" Thick

\$0 Selected  
0.000 Selected (Lane Mi.)

Preservation Heavy

\$0 Selected  
0.000 Selected (Lane Mi.)

Ultra with Interlayer

\$25,127 Selected  
0.628 Selected (Lane Mi.)

Chipseal + Fogsea

\$0 Selected  
0.000 Selected (Lane Mi.)

#1 \$150,940

Edit Color Create Proj.

Planner Map

Segment Candidates

Search By: Segment Name Candidate search: Enter text to search for in the "Search By:" column...

PRNo	Bmp	Emp	Segment Name	Lane Miles	Miles	Lanes	Rating	RSL	AADT
444901	1.696	2.199	Stage Ave NW	1.006	0.503	2	2	-8	0
447908	0.000	0.173	5 Mile Rd NW	0.346	0.173	2	2	-6	0
447908	0.173	0.498	5 Mile Rd NW	0.650	0.325	2	2	-6	0
444903	0.000	0.501	7 Mile Rd NW	1.002	0.501	2	2	-3	0
444905	4.961	5.483	9 Mile Rd NW	1.044	0.522	2	2	-9	0
3411559	0.000	0.009	Aldun Ridge Ave NW	0.018	0.009	2	2	-8	0
3411560	0.000	0.043	Aldun Ridge Ave NW	0.086	0.043	2	2	-8	0
3417735	0.050	0.200	Alpenhorn Dr NW	0.300	0.150	2	3	-5	0
3417735	0.200	0.357	Alpenhorn Dr NW	0.314	0.157	2	5	2	0
3417735	0.357	0.358	Alpenhorn Dr NW	0.002	0.001	2	5	2	0
3417735	0.358	0.392	Alpenhorn Dr NW	0.068	0.034	2	5	2	0
445301	1.980	2.090	Baumhoff Ave NW	0.220	0.110	2	2	-8	0
448206	0.000	0.102	Bertha St NW	0.204	0.102	2	4	-1	0
448206	0.102	0.198	Bertha St NW	0.192	0.096	2	3	-4	0
448206	0.198	0.237	Bertha St NW	0.078	0.039	2	3	-4	0
448616	0.000	0.106	Biddeford Ct NW	0.212	0.106	2	2	-5	0
447910	0.000	0.057	Biddeford Dr NW	0.114	0.057	2	3	-4	0

Rating 1 2 3 4 5 6 7 8 9 10



# PROJECT PLANNING & SELECTION TOOL

Project Planner: New Planner (Filter: Alpine Local Paved [Planning])

Save Edit Reports

Pavement Type: Sealcoat-Standard Budget (\$)

2019

Reconstruction

\$0 Selected  
0.000 Selected (Lane Mi.)

Reconstruction Double Seal

\$0 Selected  
0.000 Selected (Lane Mi.)

Chipseal + Fogseal

\$244,929 Selected  
7.544 Selected (Lane Mi.)

Wedge / Patch Sealcoat

\$0 Selected  
0.000 Selected (Lane Mi.)

Chipseal + Microsurface

\$0 Selected  
0.000 Selected (Lane Mi.)

Microsurface

\$0 Selected  
0.000 Selected (Lane Mi.)

2020

Reconstruction

\$0 Selected  
0.000 Selected (Lane Mi.)

Reconstruction

\$0 Selected  
0.000 Selected (Lane Mi.)

#1 \$244,929

Edit Color Create Proj.

Planner Map

Segment Candidates

Search By: Segment Name Candidate search: Enter text to search for in the "Search By:" column...

PRNo	Bmp	Emp	Segment Name	Lane Miles	Miles	Lanes	Rating	RSL	AADT
444810	0.000	0.928	5 Mile Rd NW	1.856	0.928	2	4	0	0
444810	0.928	1.025	5 Mile Rd NW	0.194	0.097	2	4	0	0
448204	0.000	0.496	Alpine Church Rd NW	0.992	0.496	2	6	2	0
448204	0.496	0.999	Alpine Church Rd NW	1.006	0.503	2	5	1	0
445301	0.000	0.344	Baumhoff Ave NW	0.688	0.344	2	5	1	0
445301	0.344	0.977	Baumhoff Ave NW	1.266	0.633	2	5	1	0
445301	0.977	1.478	Baumhoff Ave NW	1.002	0.501	2	4	0	0
448007	0.180	0.450	Vinton Ave NW	0.540	0.270	2	4	0	0
444904	2.027	3.010	8 Mile Rd NW	1.966	0.983	2	2	-4	0
444904	3.010	3.501	8 Mile Rd NW	0.982	0.491	2	2	-3	0
444904	3.501	3.988	8 Mile Rd NW	0.974	0.487	2	2	-3	0
444904	4.984	5.110	8 Mile Rd NW	0.252	0.126	2	7	4	0
444904	5.110	5.249	8 Mile Rd NW	0.278	0.139	2	7	4	0
444904	5.249	5.349	8 Mile Rd NW	0.200	0.100	2	7	4	0
444904	5.349	5.492	8 Mile Rd NW	0.286	0.143	2	7	4	0
444905	0.499	1.491	9 Mile Rd NW	1.984	0.992	2	2	-3	0
444905	4.202	4.455	9 Mile Rd NW	0.506	0.253	2	2	-3	0
444905	4.455	4.732	9 Mile Rd NW	0.554	0.277	2	5	1	0

Rating: 1 2 3 4 5 6 7 8 9 10



# REPORTS

## Project Planner Condition By Year Report

PASER Rating

2018	Surface Subtype	10	9	8	7	6	5	4	3	2	1	Lane Miles	APR*
	Asphalt-Standard	1.018	5.376	15.233	11.020	4.348	2.810	6.298	11.372	14.424	0.000	71.899	5.367
	Sealcoat-Standard	2.962	2.006	3.086	0.554	3.216	9.820	0.320	5.664	35.002	0.000	62.630	3.719
	Totals:	3.980	7.382	18.319	11.574	7.564	12.630	6.618	17.036	49.426	0.000	134.529	6.400

## Project Planner Condition By Year Report

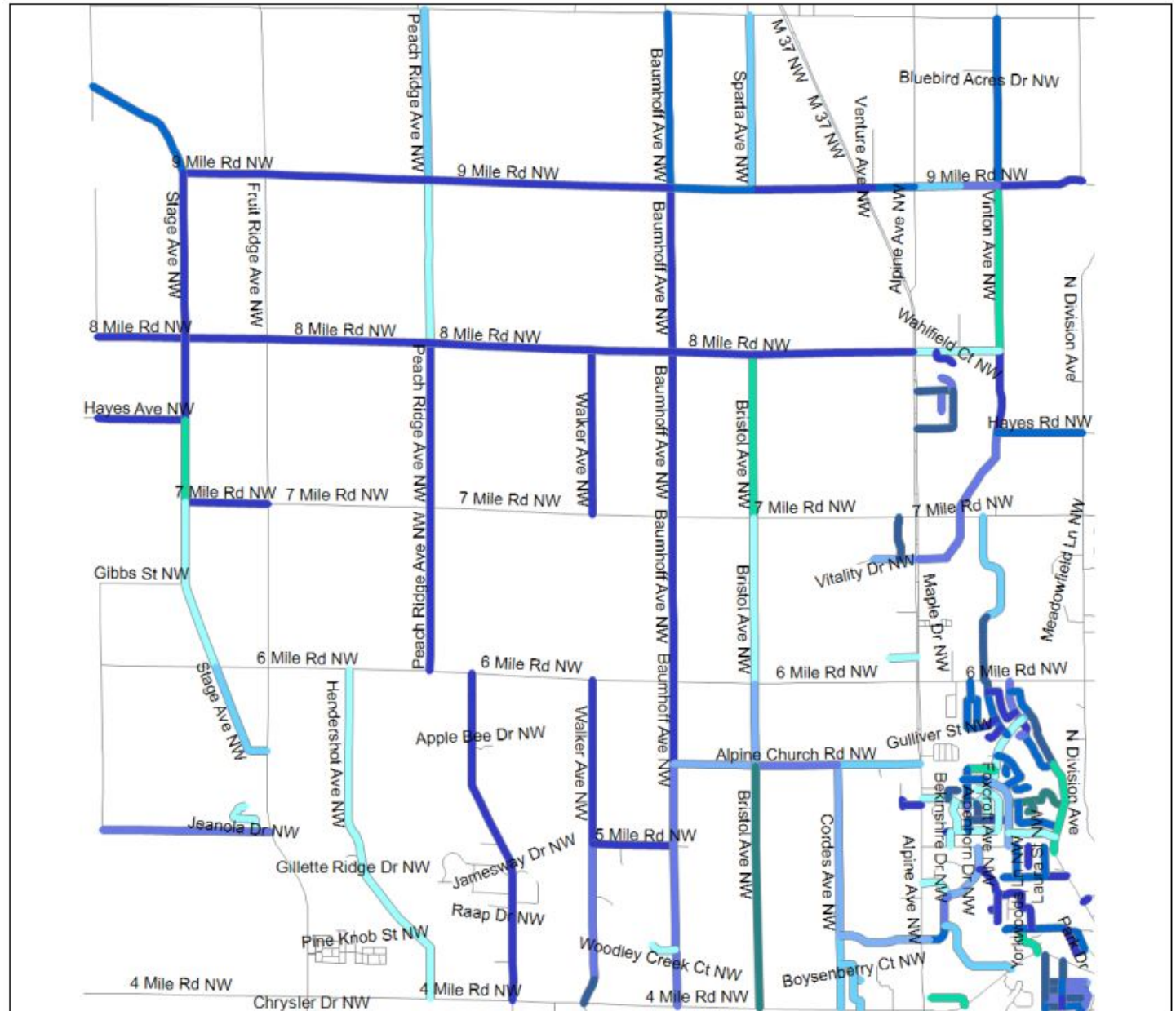
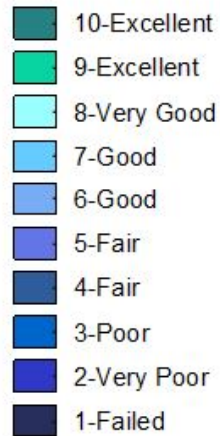
PASER Rating

2020	Surface Subtype	10	9	8	7	6	5	4	3	2	1	Lane Miles	APR*
	Asphalt-Standard	0.000	3.002	11.818	13.557	8.014	4.094	5.658	10.062	14.650	1.044	71.899	5.121
	Sealcoat-Standard	4.934	0.000	2.962	12.636	0.000	0.000	2.022	4.314	7.660	28.102	62.630	3.608
	Totals:	4.934	3.002	14.780	26.193	8.014	4.094	7.680	14.376	22.310	29.146	134.529	6.584

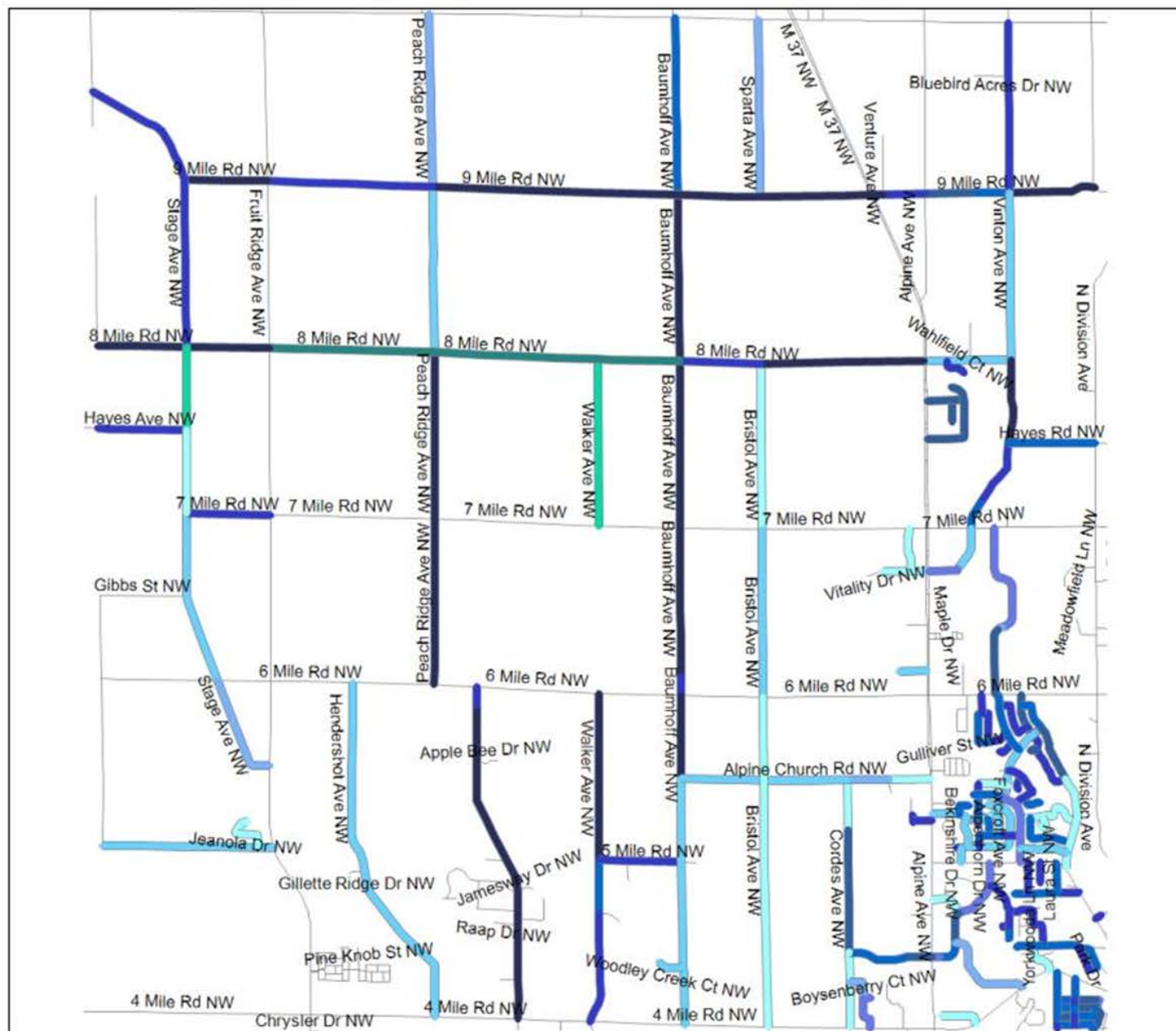
# Project Planner Condition By Year Report

Plan Name: Test Plan Alpine Twp

Ratings - 2018



### Ratings - 2020



## Project Planner Detailed Projects By Year Report

**Planner Name:** Test Plan Alpine Twp

2019 Asphalt-Standard

### Chipseal + Fogseal






## Project Planner Detailed Projects By Year Report

Planner Name: Test Plan Alpine Twp

2019 Asphalt-Standard

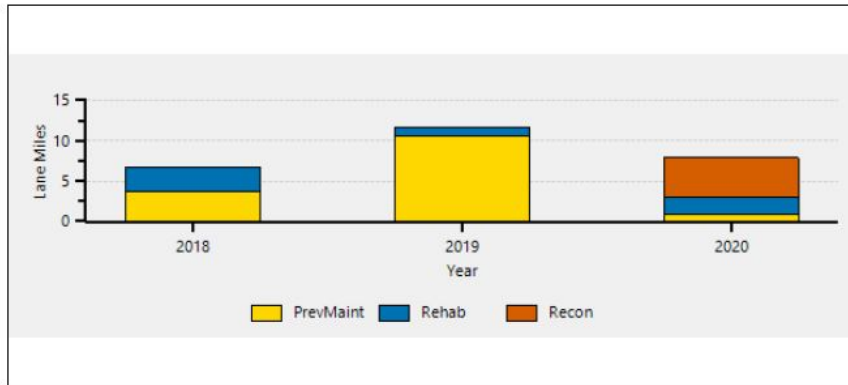
Chipseal + Fogseal

Project	Key	PR Number	Road Name	From/To Desc	Bmp/Emp	Length	Lanes	Lane Length	Width	Surface Cost
Project - 1		445302	Bristol Ave NW	Alpine Church Rd NW 6 Mile Rd NW	1.481 1.981	0.500	2	1.000	30.00	\$32,512
		445303	Cordes Ave NW	[Undescribed Inventory Segment Split] Alpine Church Rd NW	1.197 1.493	0.296	2	0.592	21.00	\$19,247
		448204	Alpine Church Rd NW	Cordes Ave NW Syracuse Ave NW	1.250 1.351	0.101	2	0.202	21.00	\$6,567
		448204	Alpine Church Rd NW	Syracuse Ave NW Alpine Ave NW	1.351 1.505	0.154	2	0.308	21.00	\$10,014
		3416323	Vitality Dr	Alpine Ave NW Attribute Change	0.000 0.083	0.083	2	0.166	36.00	\$5,397
		3416323	Vitality Dr	Rhino Dr [Undescribed Inventory Segment Split]	0.090 0.138	0.048	2	0.096	36.00	\$3,121
		3416323	Vitality Dr	[Undescribed Inventory Segment Split] Dead End or Start	0.138 0.261	0.123	2	0.246	36.00	\$7,998
		3416324	Rhino Dr	Vitality Dr	0.000 0.105	0.105	2	0.210	36.00	\$6,828
		3416324	Rhino Dr	7 Mile Rd NW	0.105 0.259	0.154	2	0.308	36.00	\$10,014
		Chipseal + Fogseal Totals:				1.564		3.128		\$101,697

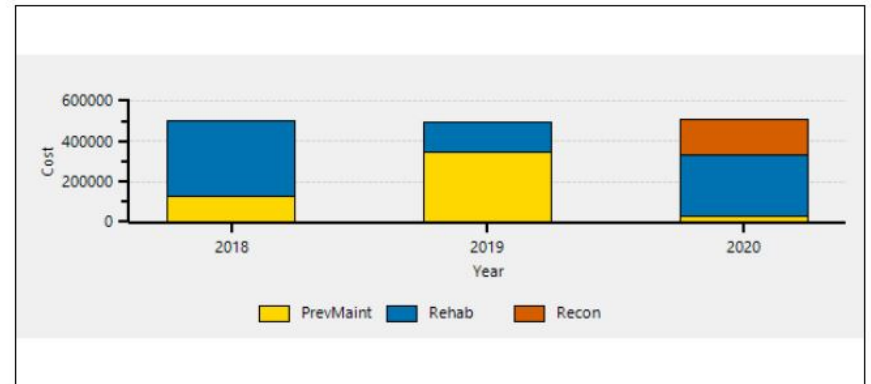
# Project Planner Summarized Projects By Year Report

Test Plan Alpine Twp

Type of Maintenance Performed - Lane Miles



Type of Maintenance Performed - Cost





## Project Planner Summarized Projects By Year Report

Test Plan Alpine Twp

Year	SubType	Maint. Type	Treatment	Reset	Road Name	Length	Lane Length	Surface Cost
<b>2018</b>								
	Sealcoat-Standard	PM (CPM)	Chipseal + Fogseal	8	Stage Ave NW	1.035	2.070	\$67,193
		PM (CPM)	Chipseal + Fogseal	8	8 Mile Rd NW	0.508	1.016	\$32,980
	Asphalt-Standard	RH (SI)	Crush & Shape	9	Stage Ave NW	0.503	1.006	\$150,940
		RH (SI)	Mill & Overlay- 3.5"	9	Bristol Ave NW	0.997	1.994	\$226,476
		PM (CPM)	Ultra with Interlayer	8	Sand Creek Dr NW	0.123	0.246	\$9,843
		PM (CPM)	Ultra with Interlayer	8	Jeanola Dr NW	0.191	0.382	\$15,284
<b>Year 2018 Totals:</b>						<b>3.357</b>	<b>6.714</b>	<b>\$502,715</b>
<b>2019</b>								
	Sealcoat-Standard	PM (CPM)	Chipseal + Fogseal	8	5 Mile Rd NW	1.025	2.050	\$66,557
		PM (CPM)	Chipseal + Fogseal	8	Vinton Ave NW	0.270	0.540	\$17,532
		PM (CPM)	Chipseal + Fogseal	8	Baumhoff Ave NW	1.478	2.956	\$95,972
		PM (CPM)	Chipseal + Fogseal	8	Alpine Church Rd NW	0.999	1.998	\$64,869
	Asphalt-Standard	RH (SI)	Crush & Shape	9	Stage Ave NW	0.498	0.996	\$149,470
		PM (CPM)	Chipseal + Fogseal	8	Bristol Ave NW	0.500	1.000	\$32,512
		PM (CPM)	Chipseal + Fogseal	8	Cordes Ave NW	0.296	0.592	\$19,247
		PM (CPM)	Chipseal + Fogseal	8	Alpine Church Rd NW	0.255	0.510	\$16,581
		PM (CPM)	Chipseal + Fogseal	8	Rhino Dr	0.259	0.518	\$16,841
		PM (CPM)	Chipseal + Fogseal	8	Vitality Dr	0.254	0.508	\$16,516
<b>Year 2019 Totals:</b>						<b>5.834</b>	<b>11.668</b>	<b>\$496,096</b>
<b>2020</b>								
	Sealcoat-Standard	RC (SI)	Reconstruction & Double Seal	10	8 Mile Rd NW	2.467	4.934	\$178,090
	Asphalt-Standard	RH (SI)	Crush & Shape	9	Walker Ave NW	1.003	2.006	\$301,101
		PM (CPM)	Chipseal + Fogseal	8	Cordes Ave NW	0.463	0.926	\$30,112
<b>Year 2020 Totals:</b>						<b>3.933</b>	<b>7.866</b>	<b>\$509,303</b>

## Project Planner Summarized Projects By Year Report

Test Plan Alpine Twp

Year	SubType	Maint. Type	Treatment	Reset	Road Name	Length	Lane Length	Surface Cost
<b>Report Totals:</b>						<b>13.124</b>	<b>26.248</b>	<b>\$1,508,114</b>

# WRAP UP

- Create a Project
- Lab
- Roadsoft manual:  
<https://roadsoft.org/sites/roadsoft/files/manual/introduction.htm#t=Introduction%2FIntroduction.htm>



## Introduction

### ▼ Roadsoft

- ▶ Getting Started
- ▶ Manage Databases
- ▶ Navigate the Map & Select Assets
- ▶ Customize the Interface

### ▼ Roads

#### ▼ Pavement Management

- Edit Project Planning & Selection Tool Selection Colors
- Run Project Planning & Selection Tool Reports
- Use the Project Planning & Selection Tool
- Use the Project Planning & Selection Tool Map
- Use the Strategy Module Overview
- Run Strategy Reports
- Optimize a Strategy
- Design a Strategy
- Create or Open a Strategy
- Compare Strategies
- Set Treatment Visibility
- ▶ Framework Map Change Request
- ▶ Surface Subtypes & Treatments
- ▶ Manage & Edit Data

## Introduction

The *Roadsoft Online Help Manual* is a guide to using features of the Roadsoft software suite including the desktop application, the Laptop Data Collector (LDC), and the mobile application. Use the categories on the sidebar to find written and video tutorials on each module or use the Search tool to find a specific topic.

The applications in the Roadsoft software suite work collaboratively together enabling agencies to complete data collection cycles. Roadsoft contains agency specific framework and map and is the management software that enables the editing, managing and reporting on all data collected data in the field.

### Getting Started

#### [Installing Roadsoft – New Customers](#)

*Provides step-by-step instructions for first-time installation of Roadsoft on your office computer, along with database installation and instructions for use.*

#### [Installing the Laptop Data Collector \(LDC\)](#)

*Provides instructions for installing the LDC on your laptop for data collection in the field.*

#### [Import and Export Data – The Data Cycle](#)

*Provides instructions for exporting, importing and collecting data to complete the Data Cycle.*

#### [Roadsoft Mobile Setup](#)

*Provides step-by-step instructions for first-time setup of Roadsoft Mobile.*