

ALLEGAN COUNTY PRIMARY ROAD MILLAGE

ALL AREAS



JANUARY 8-17, 2019

TOPICS

- ***ALLEGAN COUNTY ROAD COMMISSION INFORMATION***
- ***MILLAGE HISTORY & GUIDELINES***
- ***2018 COMPLETED PROJECTS***
- ***2019 PROPOSED PROJECTS***
- ***2020 PROPOSED PROJECTS***
- ***DISCUSSION***

ALLEGAN COUNTY ROAD COMMISSION INFORMATION

- Responsible for 1,800 miles of roadway and 154 bridges
 - 522 Primary Miles
 - 493 miles paved
 - 29 miles gravel
 - 1278 Local Miles
 - 668 miles paved (2.4 new miles in 2018)
 - 610 miles gravel (67 miles seasonal, not snow plowed)
 - 154 Bridges
 - 49 Primary System
 - 105 Local System
 - To be classified as a bridge the structure must have a minimum span of 20' and can be a combination of culverts.

ROAD COMMISSION / LOCAL REVENUES

The Road Commission receives revenue through the Michigan Transportation Fund (MTF) from fuel tax and vehicle registrations. This revenue is used to pay for operating and maintenance costs of the roads in Allegan County including payroll, utility costs, equipment and materials, etc..

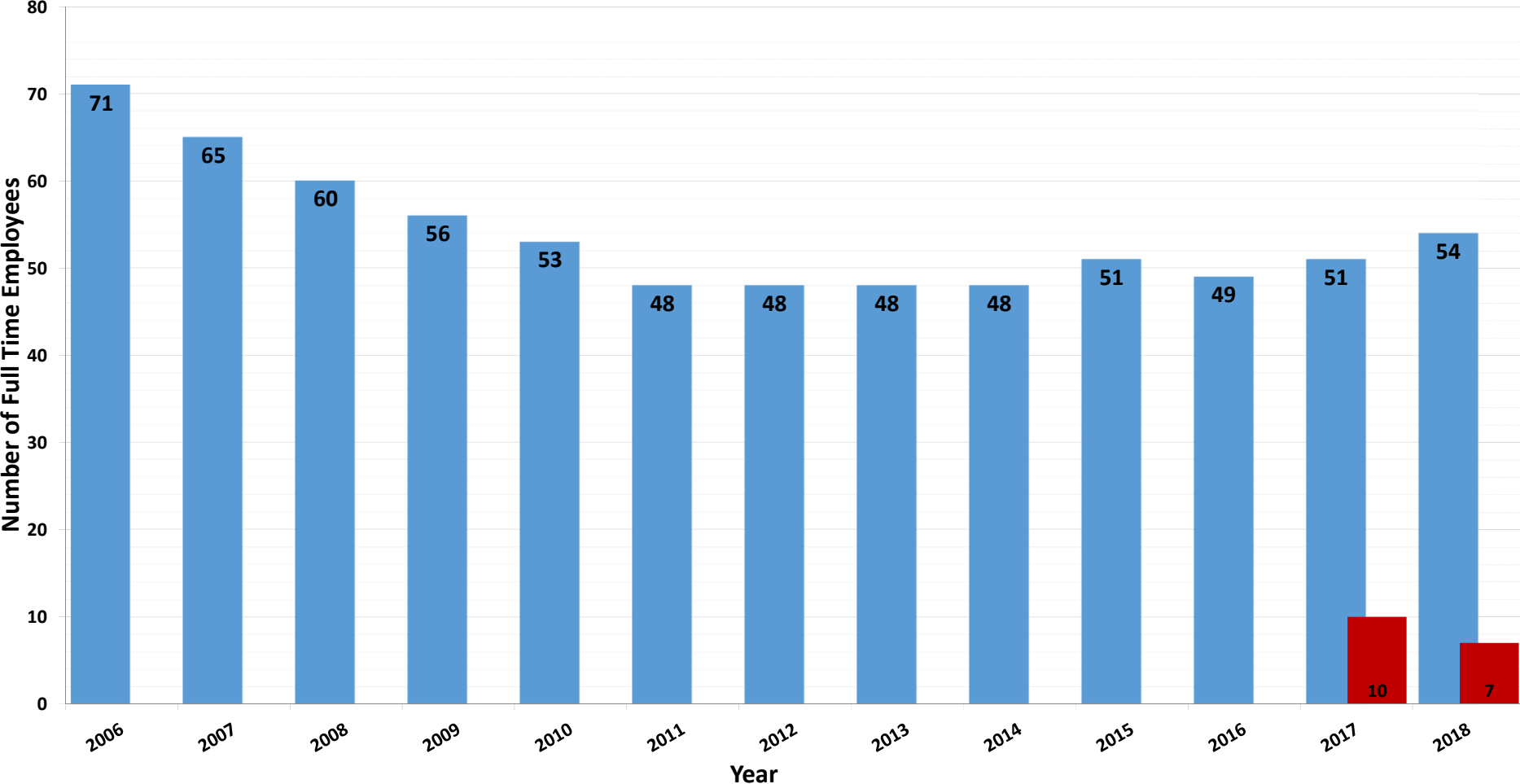
In 2017 the Road Commission's MTF revenue was \$12,555,639. Federal and State funding acquired for roads and bridges totaled \$4,903,972.

The Primary Millage raised \$3,401,282 and township contributions added an additional \$7,618,713 for primary roads (paved shoulders) and for preventative maintenance and improvements to the local road system.

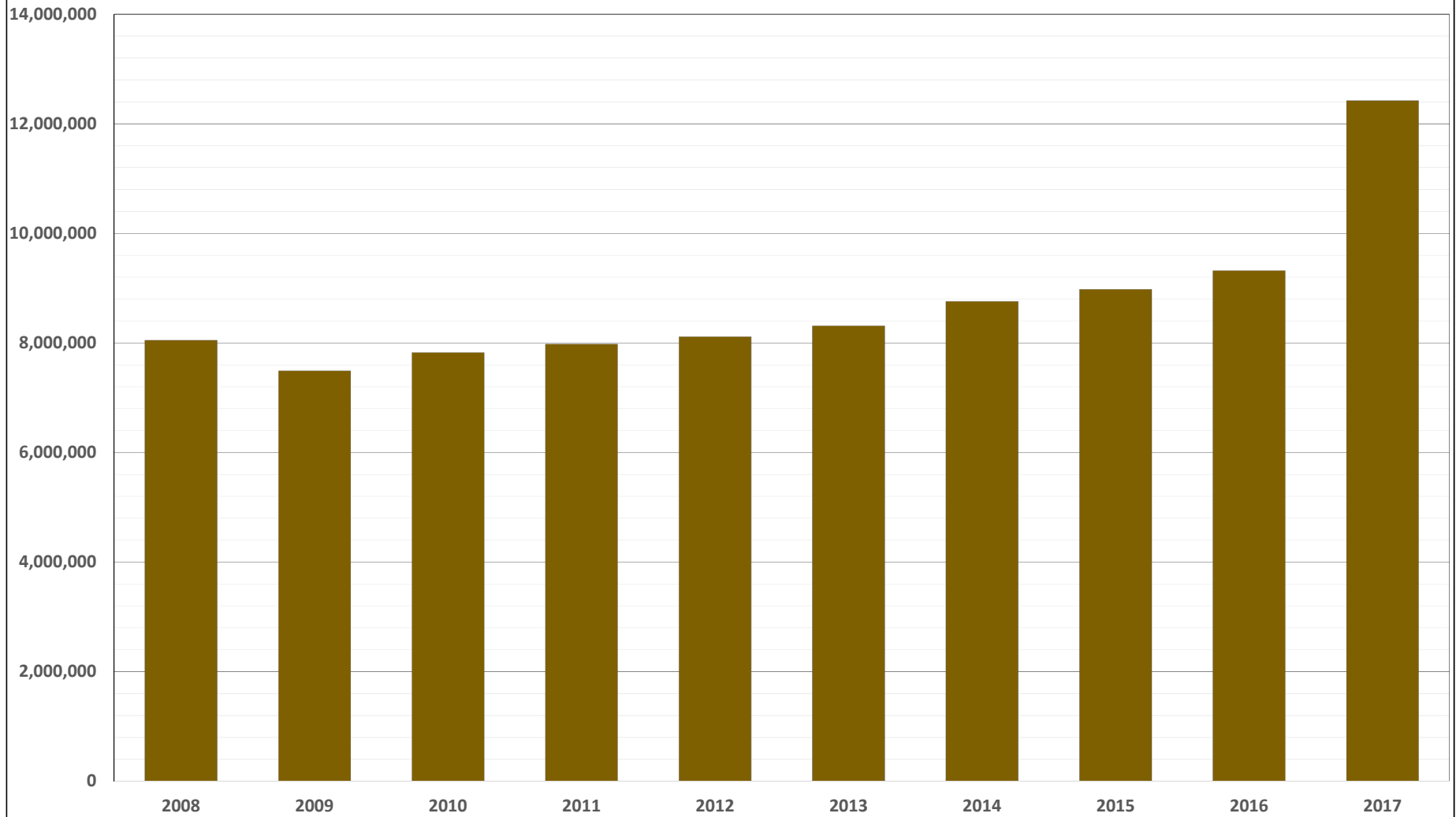
Locally raised revenues in Allegan County have consistently been higher than any other road commission in the state.

Allegan County Road Commission Number of Full Time Employees

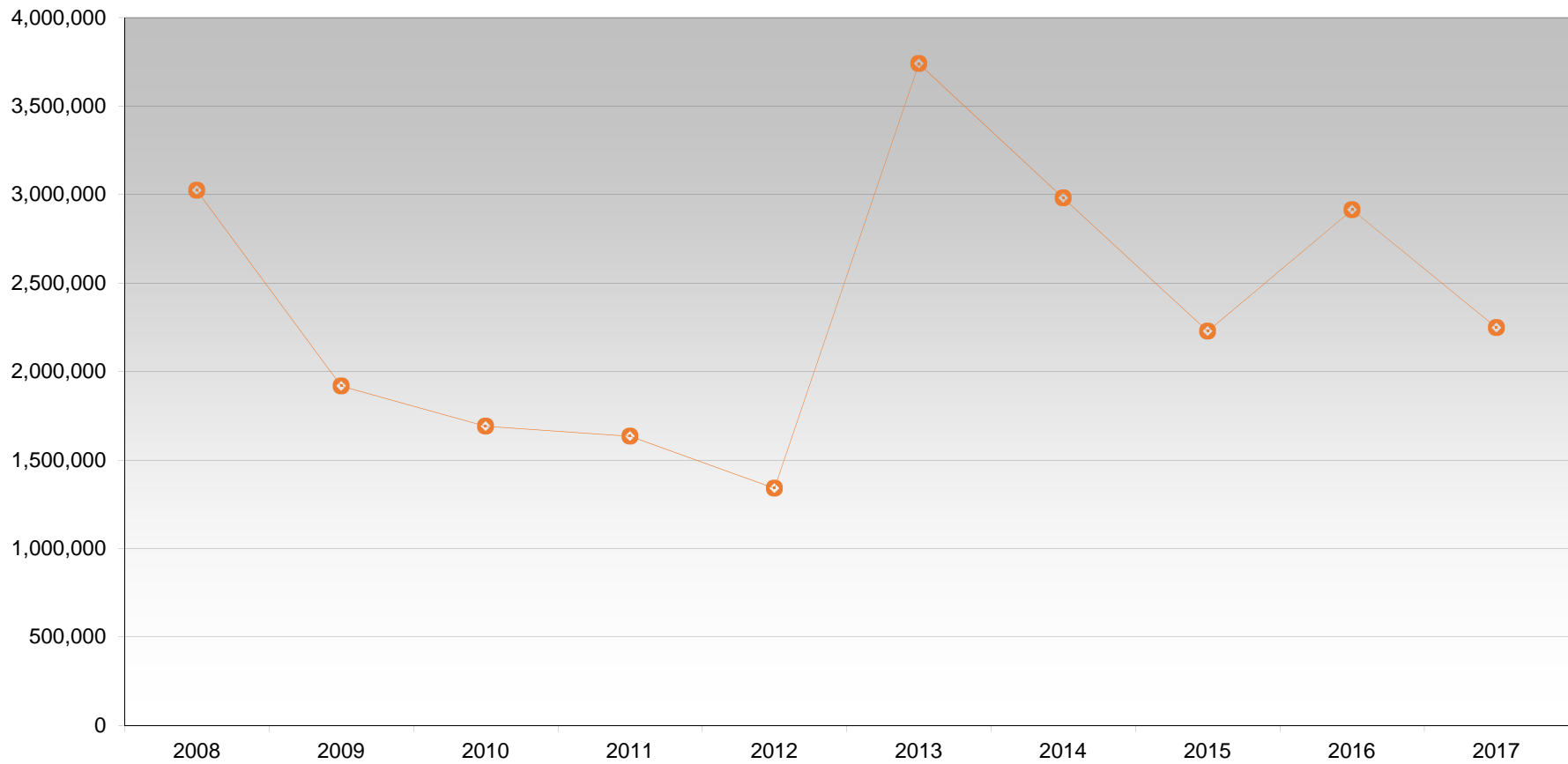
■ Full Time Employees ■ Seasonal & Retirees



Michigan Transportation Funds (MTF)



Winter Maintenance Cost



HOT MIX ASPHALT PRICES

YEAR
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
*2019

13A	INCREASE	CHANGE
\$27.26		
\$34.00	\$6.74	24.7%
\$39.38	\$5.38	15.8%
\$54.72	\$15.34	39.0%
\$46.91	-\$7.81	-14.3%
\$48.33	\$1.42	3.0%
\$44.14	-\$4.19	-8.7%
\$49.82	\$5.68	12.9%
\$53.22	\$3.40	6.8%
\$51.01	-\$2.21	-4.2%
\$52.28	\$1.27	2.5%
\$49.07	-\$3.21	-6.1%
\$48.34	-\$0.73	-1.5%
\$49.69	\$1.35	2.8%
\$66.00	\$16.31	32.8%

4E1	INCREASE	CHANGE
\$54.00		
\$52.48	-\$1.52	-2.8%
\$58.40	\$5.92	11.3%
\$52.36	-\$6.04	-10.3%
\$53.32	\$0.96	1.8%
\$50.81	-\$2.51	-4.7%
\$66.00	\$15.19	29.9%

*Projected

% INCREASE - BEGINNING TO CURRENT = 142.1%

22.2%

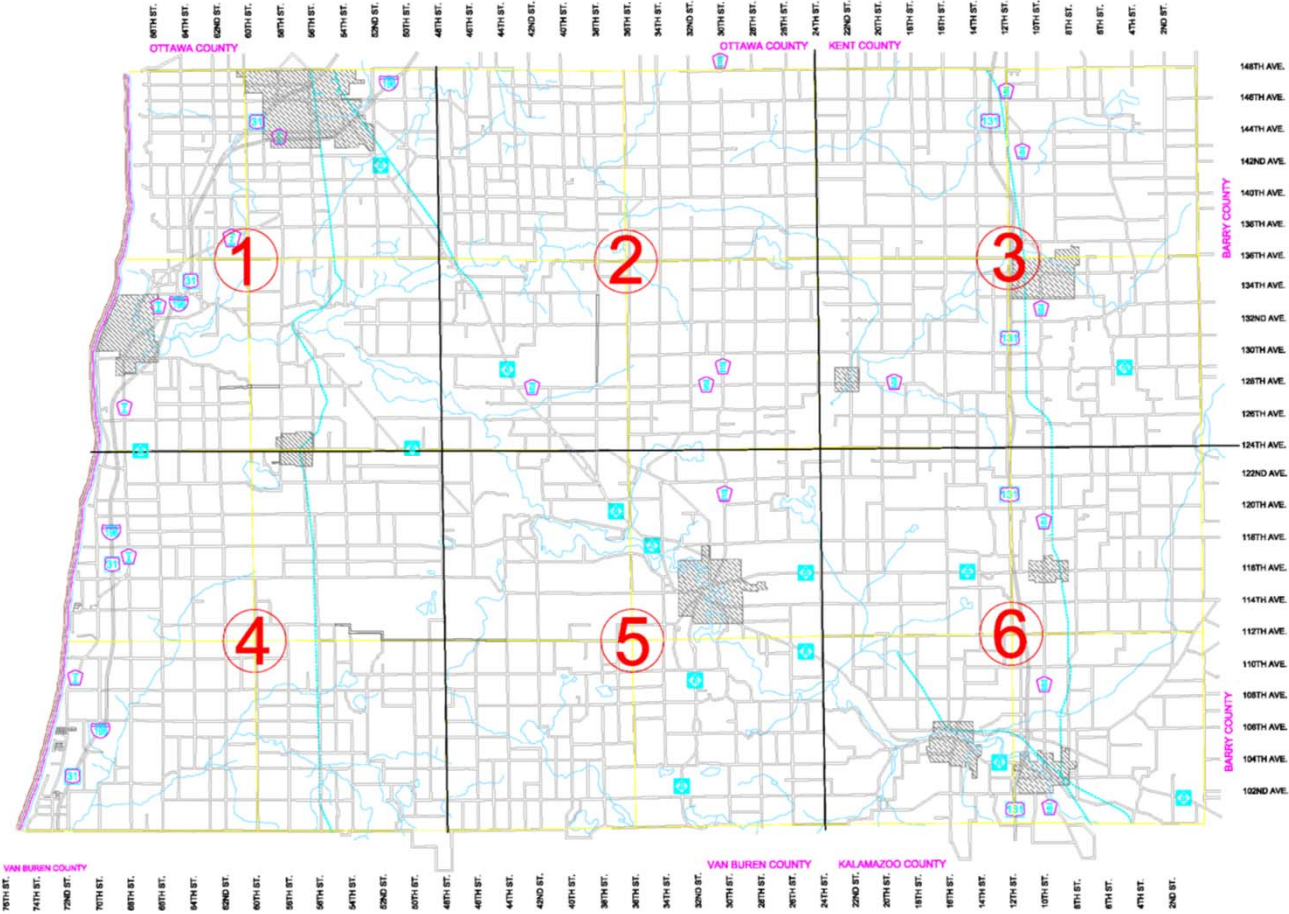
ALLEGAN COUNTY MILLAGE HISTORY

- A one mill tax was first collected for bridge and culvert replacement on county roads in 1968. From 1968-1982 there were 111 bridges and culverts replaced with the millage.
- In 1982 the millage language changed from bridge and culvert replacement to primary road resurfacing.
- In 2008 the language was revised again to include “preservation and preparation” along with resurfacing.
- 2019 is the 1st year of the current six year millage. The millage renewal was approved in 2018.

FINANCIAL GUIDELINES

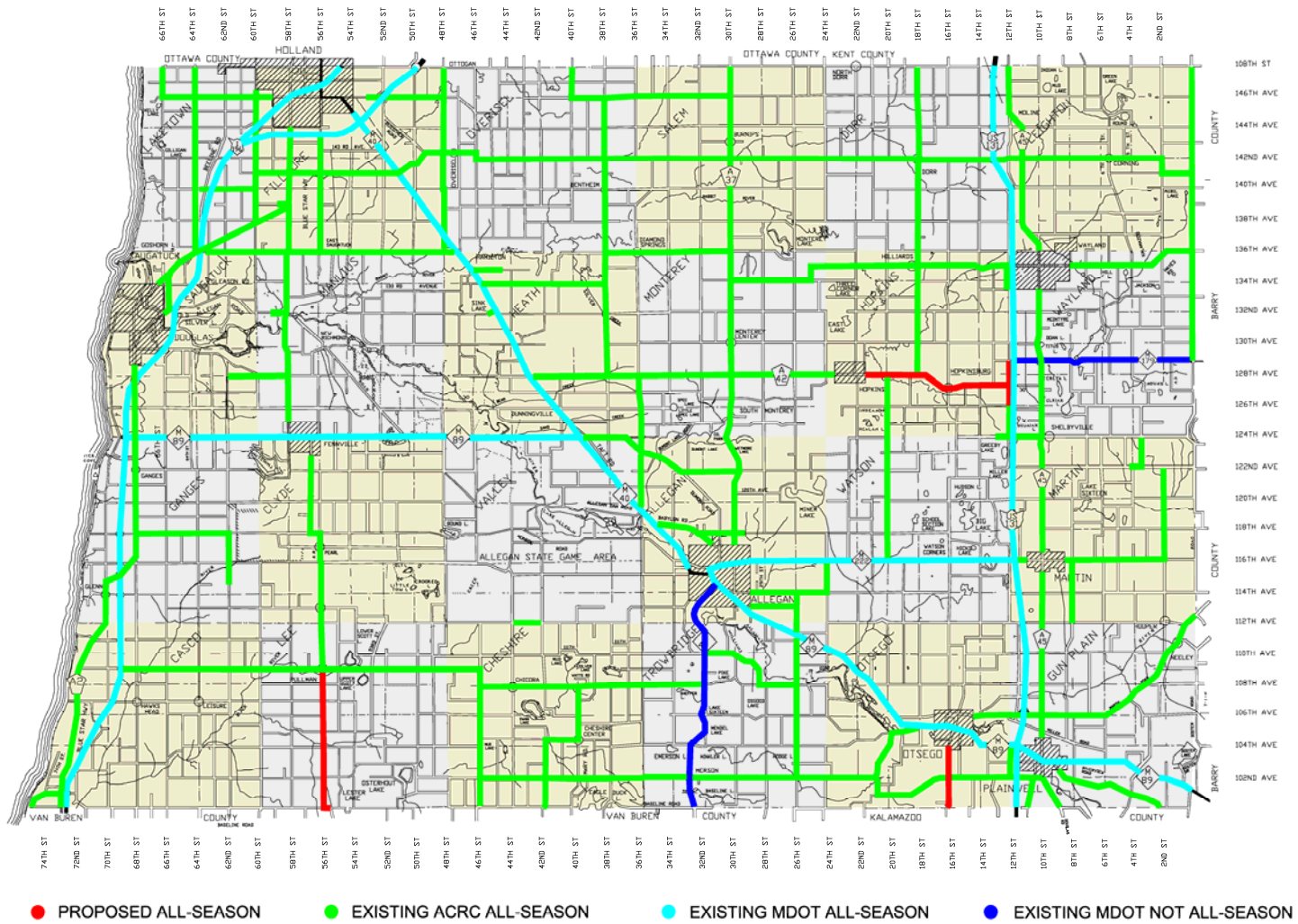
- **Millage Revenue:**
 - ~30% to Cities & Villages
 - ~70% to Road Commission
- **Road Commission's Revenue:**
 - Split equally between 6 areas
 - Each area contains 4 townships
 - Each area carries a balance from year to year
- **Township Contributions:**
 - Shoulder Paving – 2" of asphalt x the additional shoulder width x the contracted unit price
 - Rehabilitation Projects - \$35,000/mi
 - Reconstruction Projects - \$50,000/mi
- **Road Commission Responsibility:**
 - Review previous years plan
 - Develop plan of proposed projects
 - Meet and present with each area

SIX MILLAGE AREAS



RESURFACING MILLAGE PROJECT TOTALS

- From 1983-2018 the millage has raised \$70,429,361 which has funded:
 - 641.00 miles of paving (14.72 in 2018).
 - *Some roads have been resurfaced multiple times.
 - 158.89 miles of chip seal & fog coat (13.43 in 2018)
 - 175.79 miles of crack sealing (18.76 in 2018)
 - 14 large culvert replacements (1 in 2018)
- One project used millage funds to locally match for State/Federal funding.
- Three projects were completely funded by the Road Commission using Michigan Transportation Funds (MTF) totaling \$1,124,370.



**PRIMARY ROAD RESURFACING MILLAGE FUND
2018 COMPLETED PROJECTS**

AREA	TOWNSHIP	PROJECT LOCATION	TYPE OF WORK	MILES	MILLAGE FUND COSTS	TOWNSHIP & OTHER CONTRIBUTIONS	TOTAL COSTS
1	Fillmore	141st Avenue, 60th Street to M-40	Crack Seal	4.54	\$33,358.80		\$33,358.80
1	Laketown	64th St, 1,000' S of 138th to 142nd Avenue	Mill & Resurface, HMA 4E1 - 220 #/syd - Carried to 2019	0.00	\$0.00	Federal Aid \$0.00	\$0.00
1	Laketown	Blue Star Highway, I-196 ramp to 1.0 miles NE	Crush, Shape, and Resurface, HMA 4E1 leveling course - 220 #/syd, HMA 4E1 top course - 220 #/syd	1.10	\$301,910.43		\$301,910.43
1	Laketown & Fillmore	60th Street, Blue Star Highway to 141st Avenue	Resurface, HMA 4E1 - 275 #/syd - Added	1.61		ACRC \$282,493.24	\$282,493.24
SUB-TOTAL AREA 1				7.25	\$335,269.23	\$282,493.24	\$617,762.47
2	Monterey	134th Avenue, 30th Street to Arndt Drive	Chip Seal and Fog Coat	1.24	\$40,912.84		\$40,912.84
2	Monterey	128th Avenue, 28th to 24th Street	Mill and Resurface, HMA 4E1 - 275 #/syd	2.03	\$296,754.88		\$296,754.88
2	Heath & Monterey	36th Street, Township Line North to 125th Avenue	Resurface, HMA 4E1 - 275 #/syd	0.51	\$69,624.94	Heath Twp \$6,246.83 Monterey Twp \$6,246.83 ACRC \$25,000.00	\$107,118.60
SUB-TOTAL AREA 2				3.78	\$407,292.66	\$37,493.66	\$444,786.32
3	Dorr	22nd Street, 146th Avenue to 108th Street	Resurface, HMA 4E1 - 275 #/syd	0.96	\$115,031.67	Dorr Twp \$21,838.08	\$136,869.75
3	Dorr	18th Street, 142nd Avenue to Kent County Line	Renovation and Resurface from 142nd to 144th Avenue, Mill and Resurface from 144th Avenue to 108th Street	2.95	\$403,098.05	Federal Aid \$1,259,479.50 Dorr Twp \$35,000.00 ACRC \$337,941.53	\$2,035,519.08
3	Hopkins	128th Avenue, 24th Street to Hopkins Village Limits	Mill and Resurface, HMA 4E1 - 275 #/syd	0.52	\$76,052.75		\$76,052.75
3	Hopkins & Watson	124th Avenue, 12th Street to 0.5 mile west	Crack Seal, Chip Seal & Fog Coat	0.25	\$12,474.50		\$12,474.50
3	Hopkins & Watson	20th Street, M-222 to 128th Avenue	Crack Seal, Chip Seal & Fog Coat - Added	2.00	\$78,230.33		\$ 78,230.33
3	Dorr	142nd Avenue, 23rd Street to 16th Street	Crack Seal - Added	3.52	\$25,847.54		\$ 25,847.54
3	Wayland	10th Street - 129th Avenue to Wayland City Limits	Mill and Resurface, HMA 4E1 - 220 #/syd - Added	2.20		ACRC \$ 351,522.31	\$ 351,522.31
SUB-TOTAL AREA 3				4.68	\$710,734.84	\$2,005,781.42	\$2,716,516.27
4	Lee	54th Street, 102nd Avenue to 103rd Avenue	Renovate and Resurface, HMA 4E1 leveling course - 220 #/syd, HMA 4E1 top course - 220 #/syd	0.50	\$145,496.52	Lee Twp \$27,813.07 ACRC \$6,488.76	\$179,798.35
4	Ganges	114th Avenue, Blue Star Highway to I-196 overpass	Crush, Shape, & Resurface, HMA 4E1 leveling course - 220 #/syd, HMA 4E1 top course - 220 #/syd	0.44	\$129,915.72	Ganges Twp \$9,310.61 ACRC \$29,177.84	\$168,404.17
4	Casco	Blue Star Highway, Baseline to North Shore Drive	Crush, Shape, & and Resurface, HMA 4E1 leveling course - 220 #/syd, HMA 4E1 top course - 220 #/syd	0.48	\$206,546.35		\$206,546.35
4	Ganges	118th Avenue, Blue Star Highway to 62nd Street	Mill and Resurface, HMA 4E1 - 220 #/syd - Added	3.01		ACRC \$490,355.06	\$490,355.06
SUB-TOTAL AREA 4				4.43	\$481,958.59	\$563,145.34	\$1,045,103.93

PRIMARY ROAD RESURFACING MILLAGE FUND 2018 COMPLETED PROJECTS							
AREA	TOWNSHIP	PROJECT LOCATION	TYPE OF WORK	MILES	MILLAGE FUND COSTS	TOWNSHIP & OTHER CONTRIBUTIONS	TOTAL COSTS
5	Allegan	Delano Street - M-40 to Goodwin Street	Crush, Shape, & Resurface, HMA 4E1 leveling course - 220 #/syd, HMA 4E1 top course - 220 #/syd	0.38	\$114,653.89		\$114,653.89
5	Trowbridge	110th Avenue, Williams Road and 108th Avenue from M-40 to 26th Street	Chip Seal & Fog Coat	3.69	\$113,908.82		\$113,908.82
5	Allegan	122nd Avenue, Dumont Road to 30th Street	Resurface, Ultra-Thin, Medium Volume - 110#/syd	1.86	\$123,344.71		\$123,344.71
5	Allegan & Watson	24th Street, M-222 to 118th Avenue	Crack Seal	0.50	\$3,681.99		\$3,681.99
5	Cheshire	42nd Street, Baseline to 102nd Avenue	Chip Seal & Fog Coat	1.00	\$36,297.22		\$36,297.22
5	Cheshire	46th Street, Baseline to 102nd Avenue	Chip Seal & Fog Coat	1.00	\$35,460.78		\$35,460.78
5	Cheshire	102nd Avenue, 42nd to 38th Street	Crack Seal	2.02	\$14,853.47		\$14,853.47
5	Allegan & Valley	36th Street, 122nd Avenue North to Township Line	Resurface, HMA 4E1 - 275 #/syd	1.05	\$143,255.68	Allegan Twp \$12,493.65 Valley Twp \$12,493.65 ACRC \$15,000.00	\$183,242.98
			SUB-TOTAL AREA 5	11.50	\$585,456.56	\$39,987.30	\$625,443.86
6	Gun Plain	10th Street - South County Line to Starr Road	Culvert Replacement	0.00	\$114,653.89	ACRC	\$134,642.42
6	Otsego	101st/102nd Avenue, 21st to 16th Street & 21st Street, 101st Avenue to 102nd Avenue	Resurface, HMA 4E1 - 275 #/syd	2.42	\$371,284.16	ACRC	\$382,580.58
6	Otsego	106th Avenue, M-89 to Otsego City Limits	Crack Seal	1.43	\$10,456.84		\$10,456.84
6	Hopkins & Watson	124th Avenue - 12th Street to 0.5 mile west	Chip Seal & Fog Coat	0.25	\$8,881.11		\$8,881.11
6	Allegan & Watson	24th Street, M-222 to 118th Avenue	Crack Seal	0.50	\$3,682.08		\$3,682.08
6	Hopkins & Watson	20th Street, M-222 to 128th Avenue	Crack Seal, Chip Seal & Fog Coat - Added	4.00	\$156,460.67		\$156,460.67
6	Gun Plain & Martin	112th Avenue, 2nd Street to Marsh Road	Resurface, HMA 4E1, 275 #/syd & Chip Seal - Carried to 2019	0.00		Gun Plain Twp Martin Twp ACRC	\$0.00
6	Martin	Patterson Road, 124th Avenue to SE to the Barry County Line	Mill and Resurface, HMA 4E1 - 220 #/syd leveling course, HMA 4E1 - 165 #/syd top course - Carried to 2019	0.00		ACRC	\$0.00
			SUB-TOTAL AREA 6	8.60	\$665,418.74	\$31,284.95	\$696,703.69
			GRAND TOTAL	40.24	\$3,186,130.62	\$2,960,185.92	\$6,146,316.54

PASER RATING GUIDLINES

- Good Ratings: 8, 9, & 10
 - No Maintenance Required
- Fair Ratings: 5, 6, & 7
 - 7 - Crack Seal
 - 5 or 6 - Chipseal and Fog Coat
- Poor Ratings: 1, 2, 3, & 4
 - Time to Resurface
 - Milling, Crush & Shape, or Reconstruction Extends Pavement Life
- Rating resets when treatment is completed
 - Reconstruction: 10
 - Resurface: 9
 - Chip Seal: 8
 - Crack Seal: Does Not Reset Rating But Extends Pavement Life

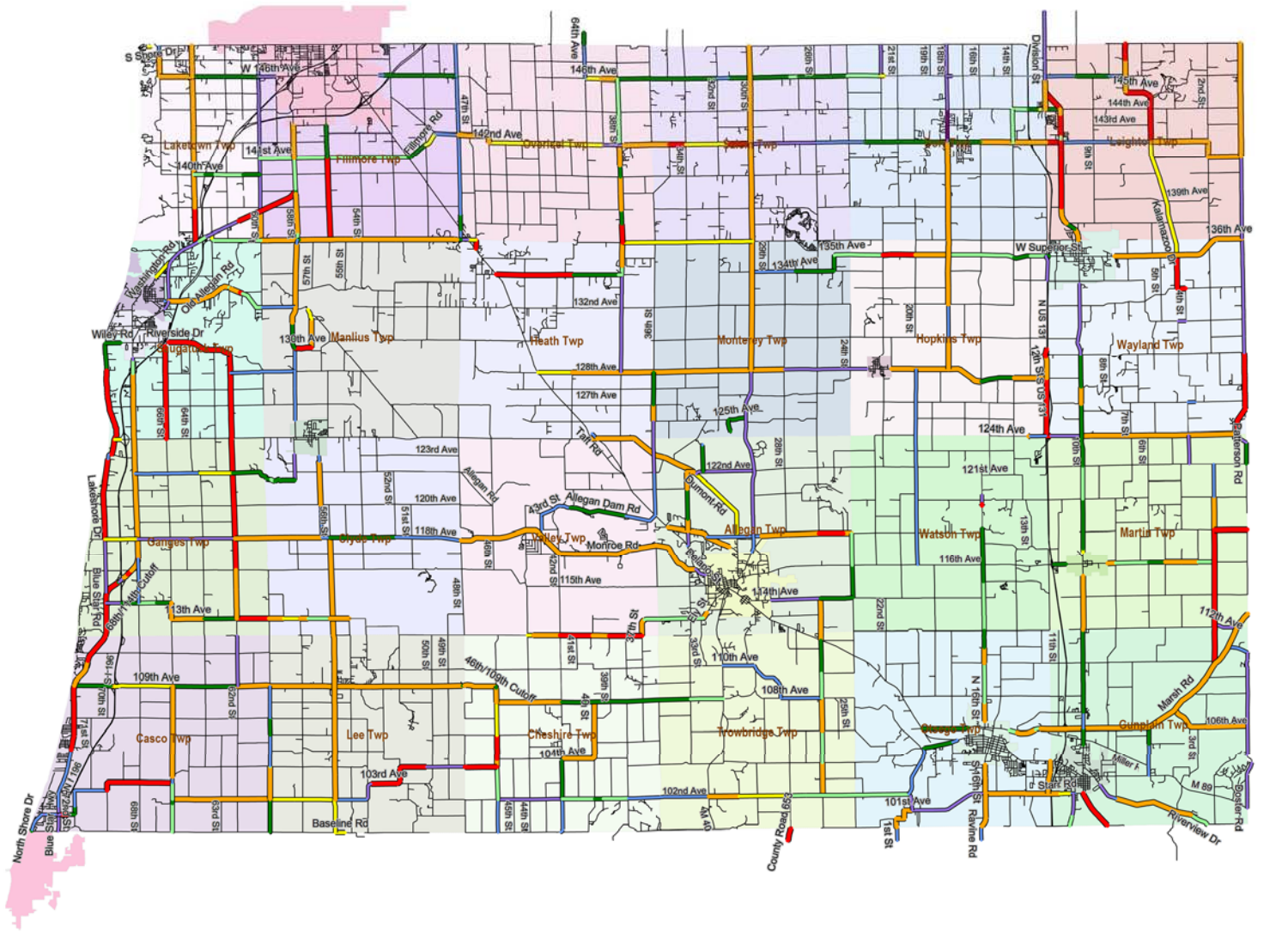
Asphalt PASER			
	Asphalt 10	Asphalt 9	Asphalt 8
Good	New construction No defects Less than 1 year old Only a "10" for 1 year <u>Recent base improvement</u> No action required	Like new condition No defects More than 1 year old <u>Recent overlay with or without a crush and shape</u> No action required	♦ Occasional transverse crack >40' apart ♦ Crack width tight (hairline) or sealed Few if any longitudinal cracks on joints <u>Recent seal coat or slurry seal (*see below)</u> Little or no maintenance required
	Asphalt 7	Asphalt 6	Asphalt 5
Fair	♦ Trans. cracks 10'-40' apart ♦ Cracks open < ¼" Little or no crack erosion Little or no raveling Few if any patches in good condition <u>First signs of wear</u> Suggested Action Maintain with crack seal	♦ Trans. cracks less than 10' apart ♦ Initial block cracking (6'-10' Blocks) ♦ Cracks open ¼" – ½" Blocks are large and stable Slight to moderate polishing or flushing No patches or few in good condition Slight raveling <u>Sound structural condition</u> Suggested Action Maintain with sealcoat	♦ Secondary cracks (crack raveling) ♦ Moderate block cracking (1' – 5' blocks) ♦ First sign of longitudinal cracks at edge ♦ Cracks open >½" Patching/wedging in good condition Moderate raveling Extensive to severe flushing & polishing <u>Sound structural condition</u> Suggested Action Maintain with sealcoat or thin overlay
	Asphalt 4	Asphalt 3	Asphalt 2
Poor	♦ Longitudinal cracking in the wheel paths ♦ Rutting ½" - 1" deep ♦ Severe block cracking: <1' blocks Severe surface raveling Multiple longitudinal & transverse cracks with slight crack erosion Patching in fair condition <u>First signs of structural weakening</u> Suggested Action Structural overlay >2"	♦ < 25% alligator cracking (first signs) ♦ Moderate rutting 1" - 2" deep ♦ Severe block cracking (Alligator) Longitudinal & transverse cracks showing extensive crack erosion Occasional potholes Patches in fair/poor condition Suggested Action Structural overlay >2" Patching & repair prior to a major overlay Milling would extend overlay life	♦ > 25% alligator cracking ♦ Severe rutting or distortion >2" Closely spaced cracks with erosion Frequent potholes Extensive patches in poor condition Suggested Action Reconstruction with base repair Crush and shape possible <hr/> Asphalt 1 Loss of surface integrity Extensive surface distress Suggested Action Reconstruction with base repair

Modified for Michigan TAMC Data Collection
 ♦ Denotes Priority Distress

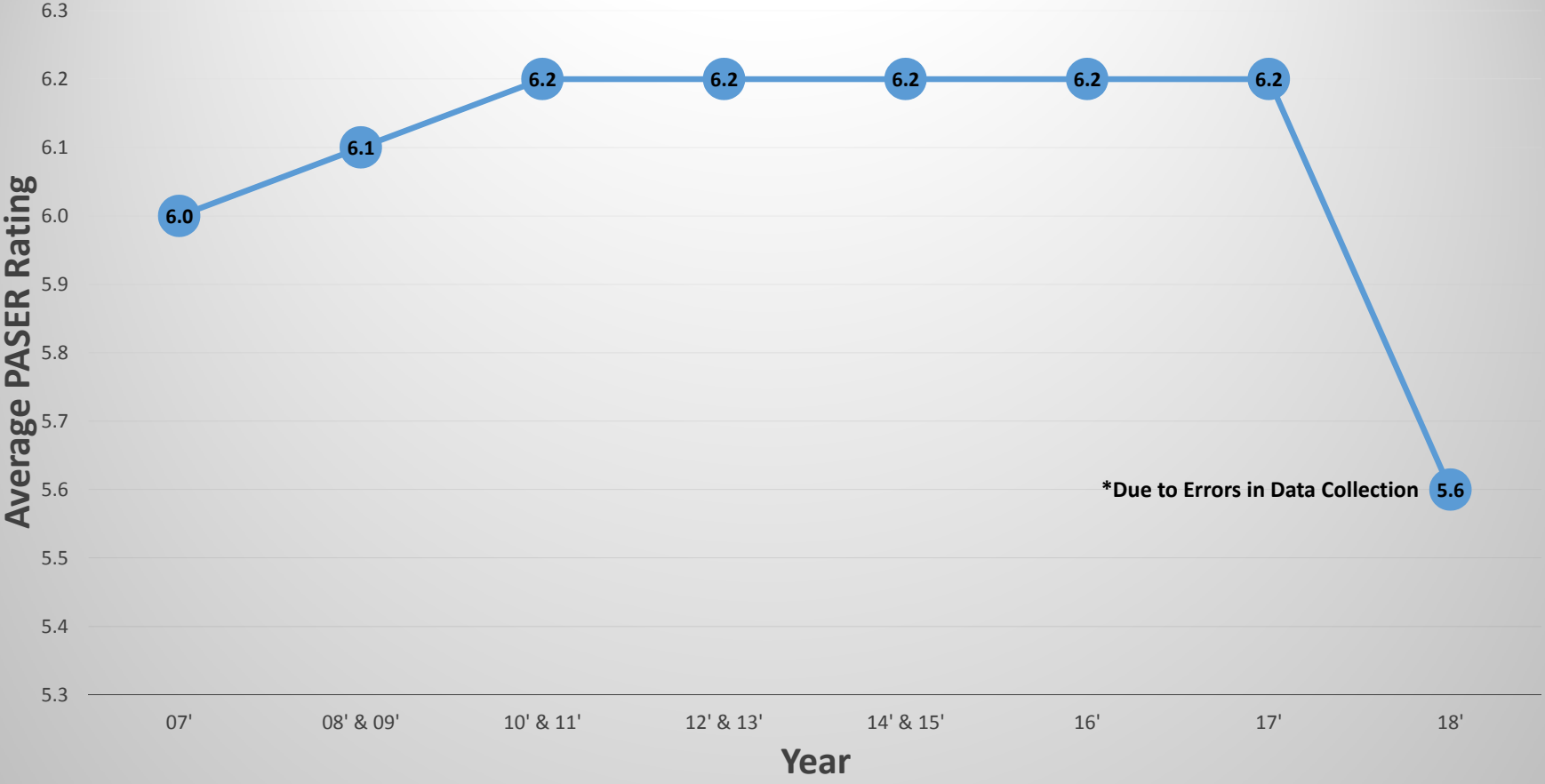
2018 Primary Road PASER Map

2 mi

- PASER Ratings
- 1 Failed
 - 2 Very Poor
 - 3 Poor
 - 4 Fair
 - 5 Fair
 - 6 Good
 - 7 Good
 - 8 Very Good
 - 9 Excellent
 - 10 Excellent

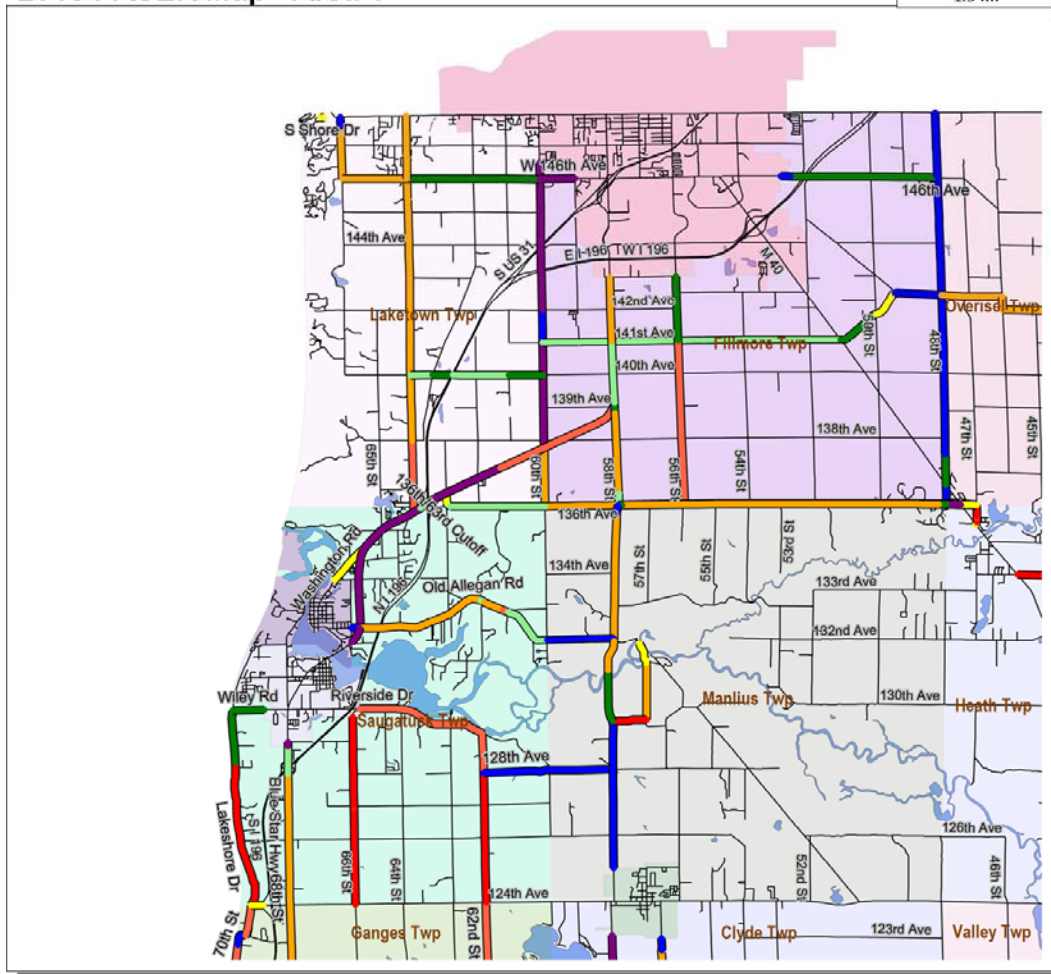


Primary Roads - Average PASER Rating



2018 PASER Map - Area 1

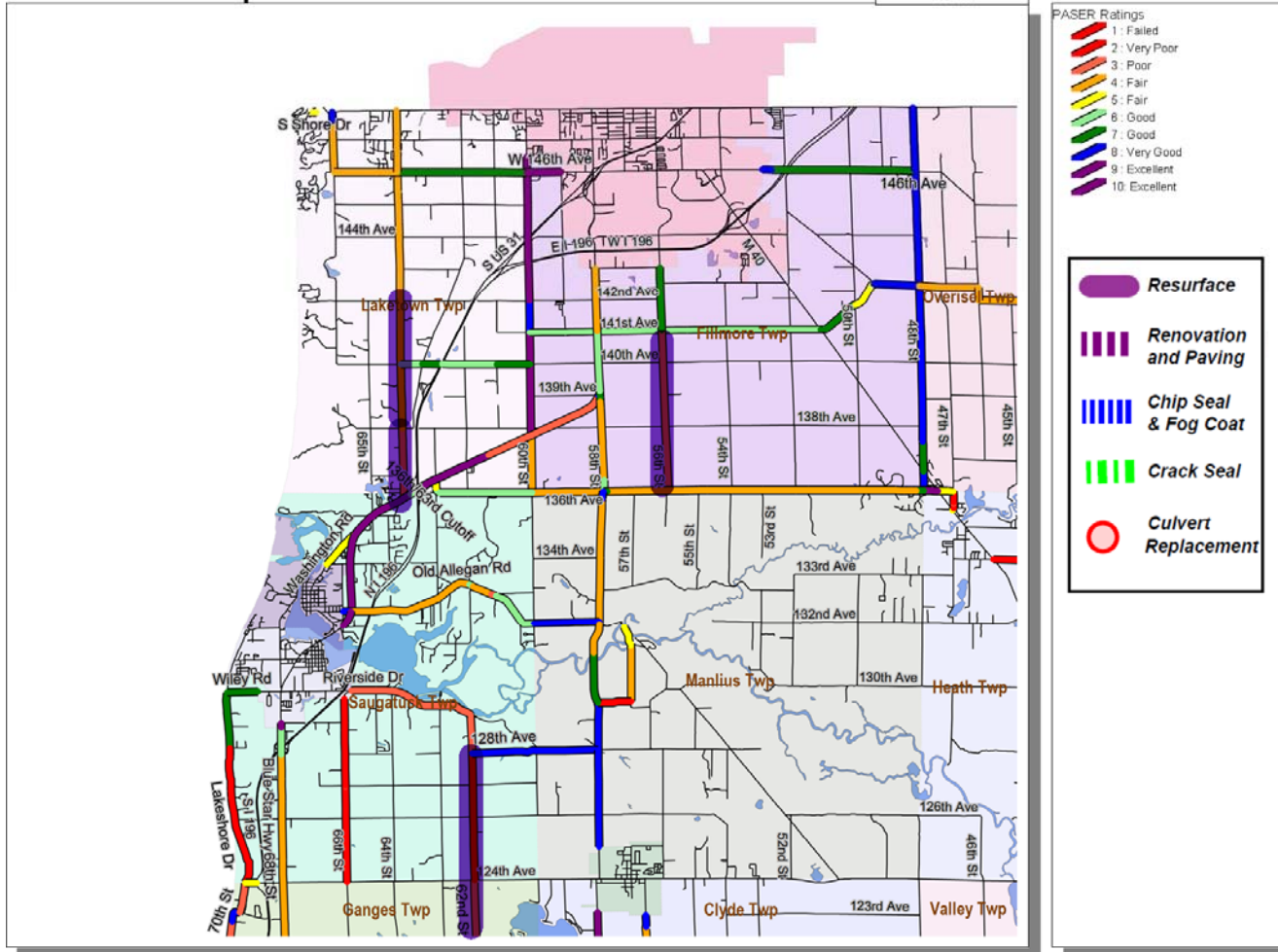
1.5 mi



2019 PROPOSED PROJECTS

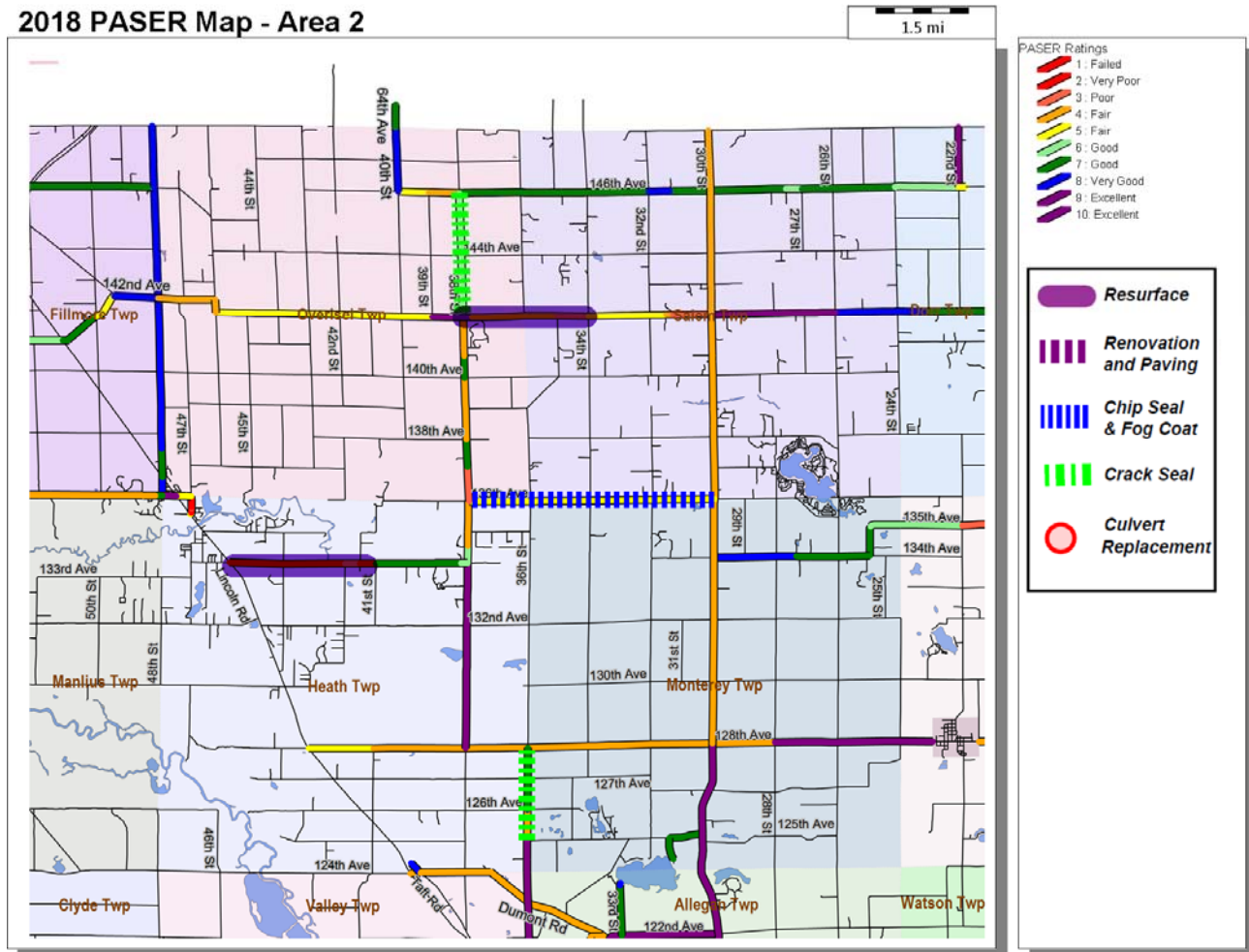
2018 PASER Map - Area 1

1.5 mi



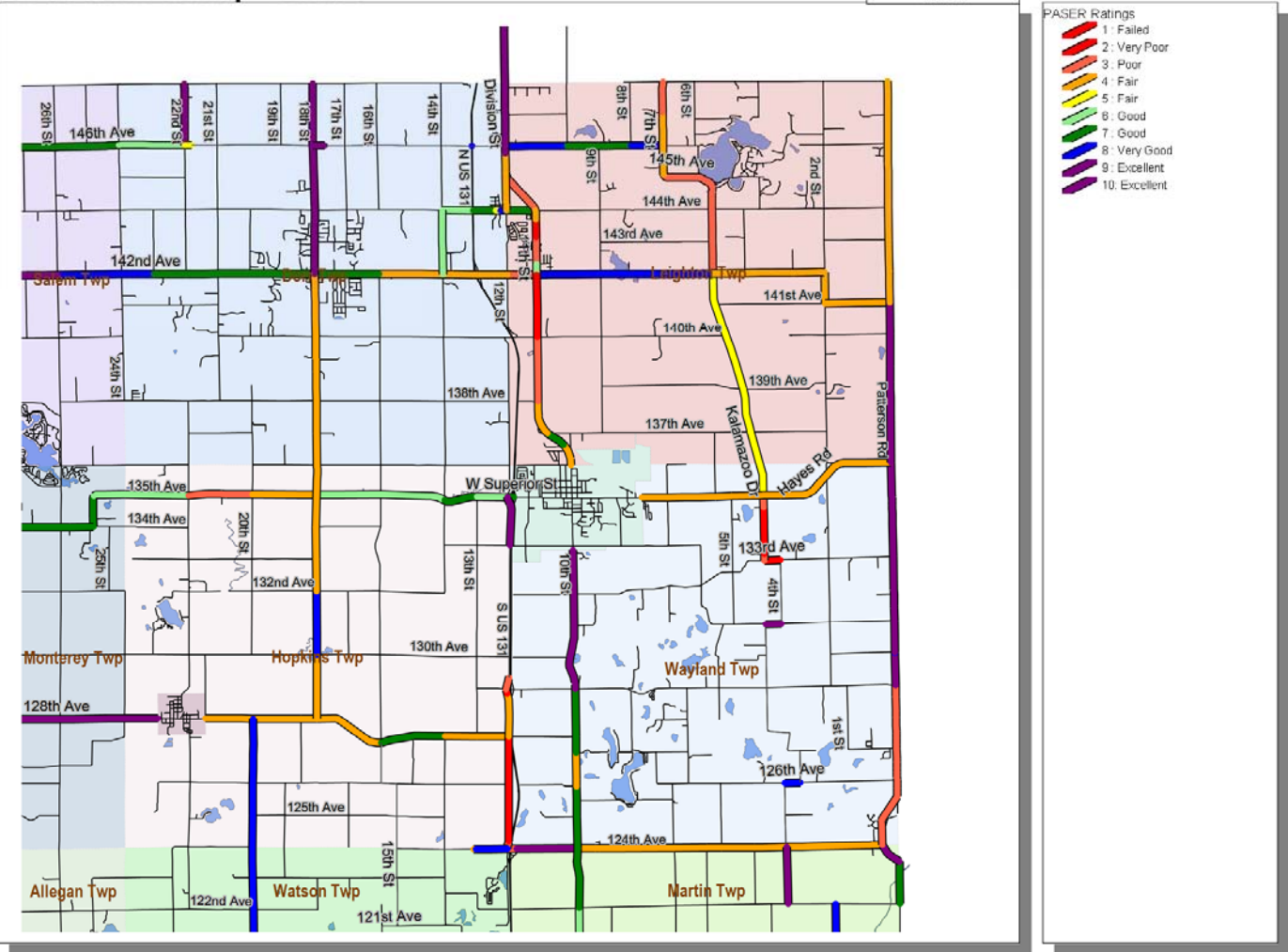
2019 PROPOSED PROJECTS

2018 PASER Map - Area 2



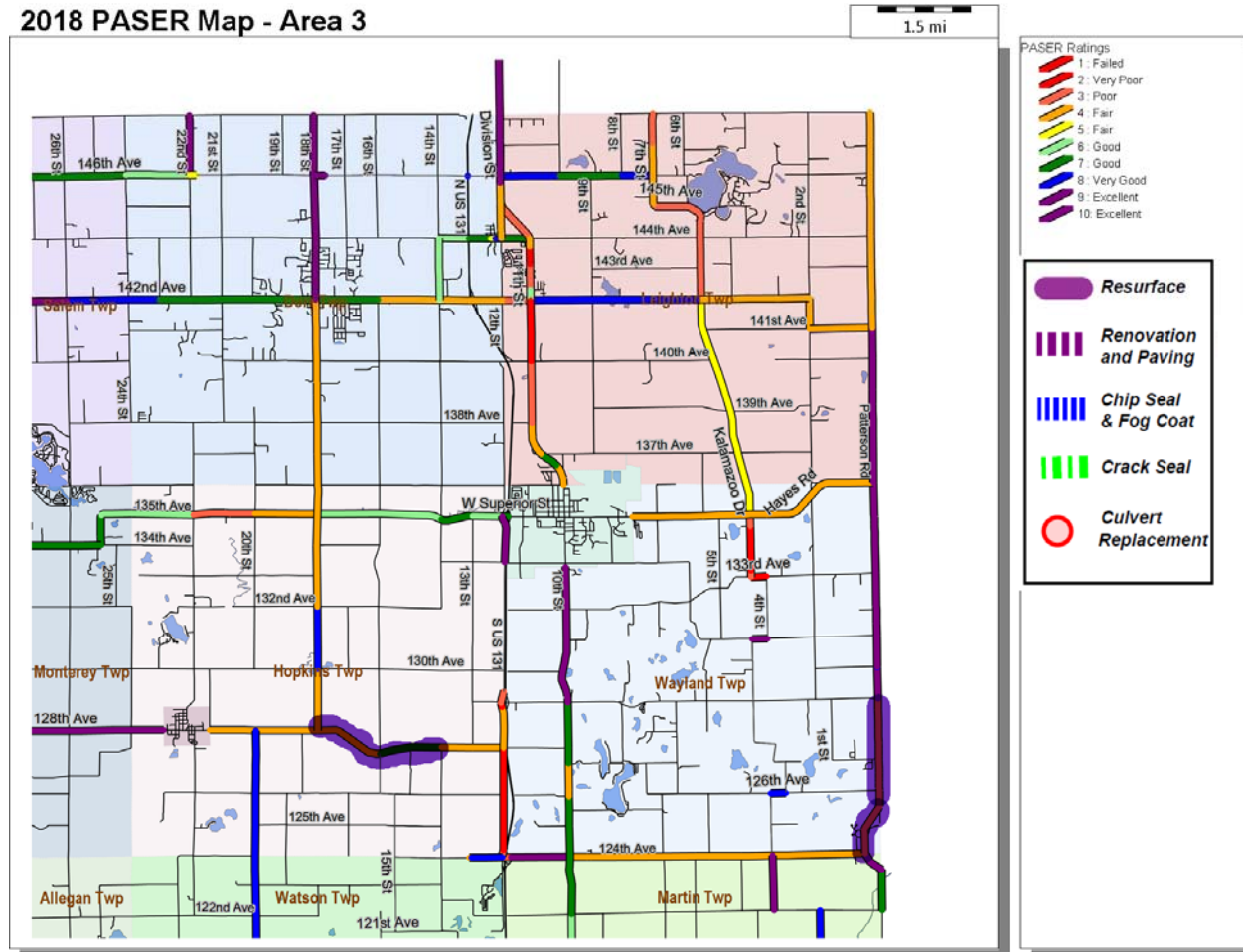
2018 PASER Map - Area 3

1.5 mi



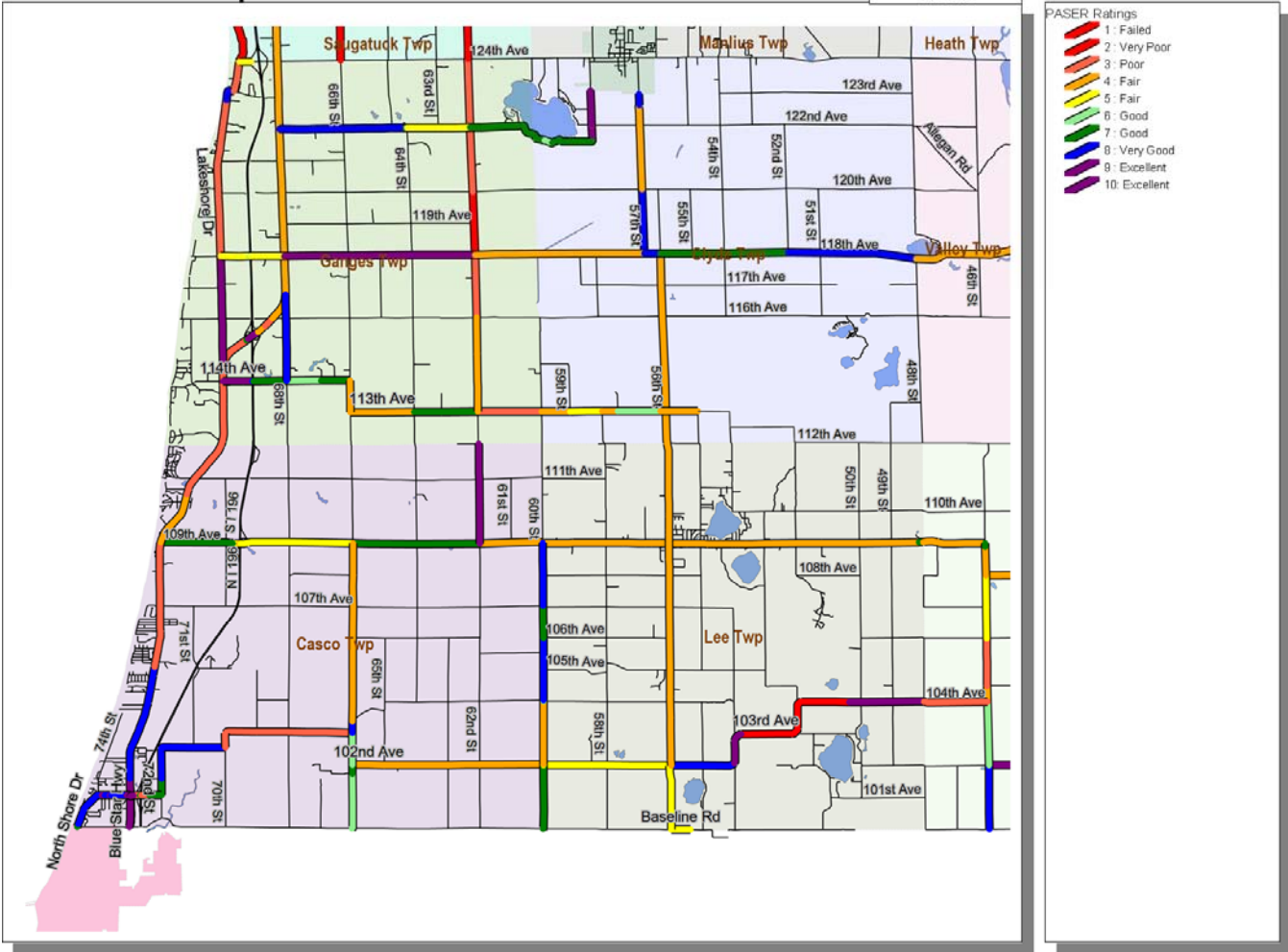
2019 PROPOSED PROJECTS

2018 PASER Map - Area 3



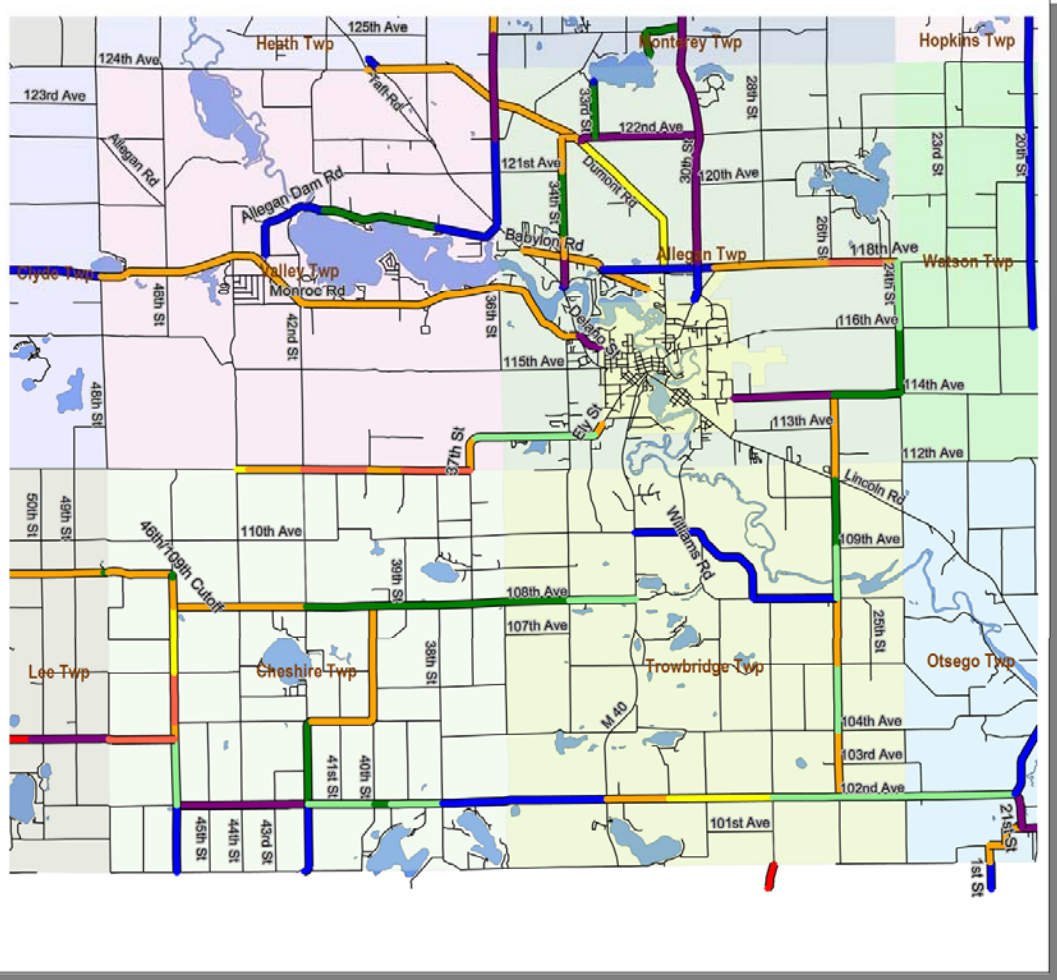
2018 PASER Map - Area 4

1.5 mi



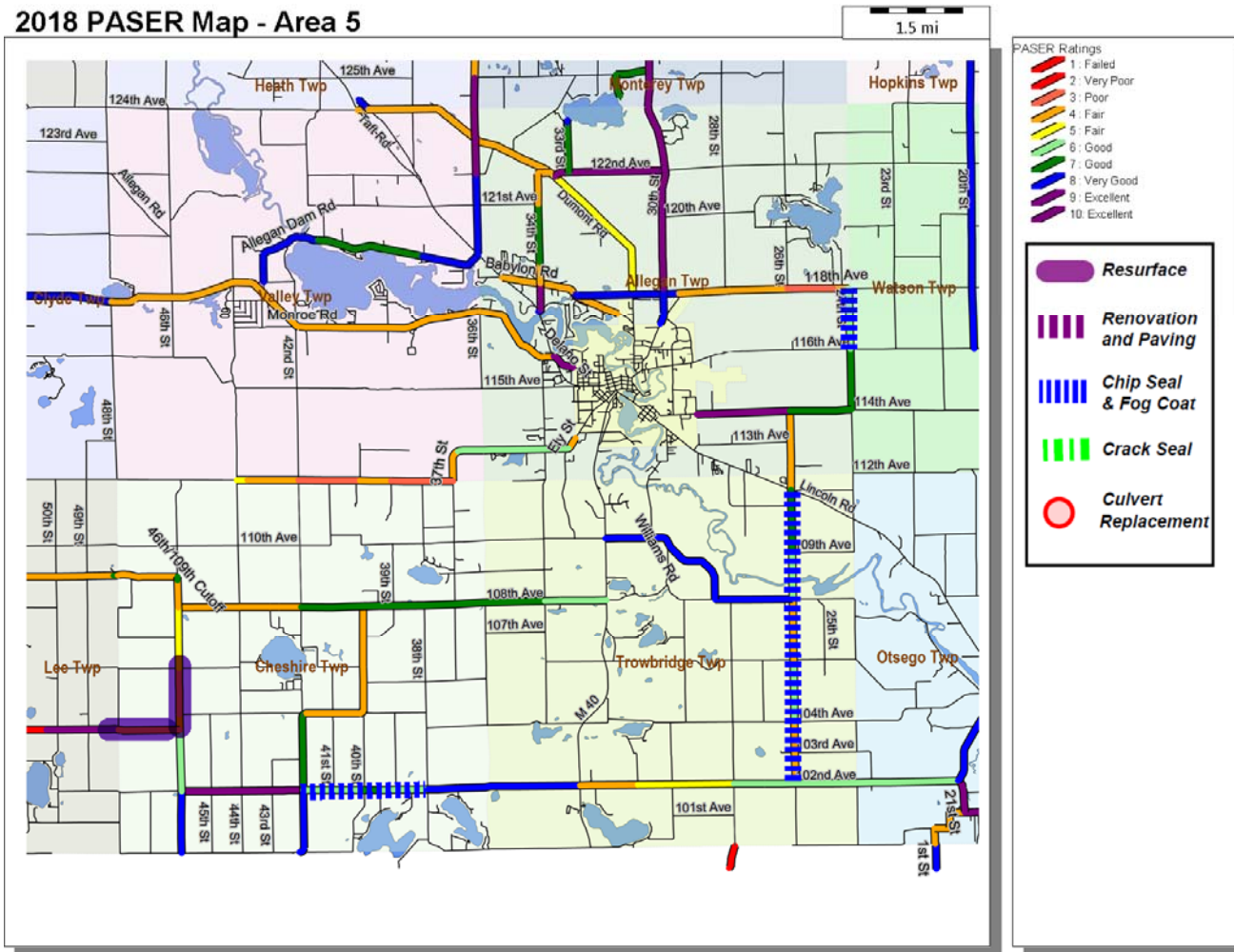
2018 PASER Map - Area 5

1.5 mi



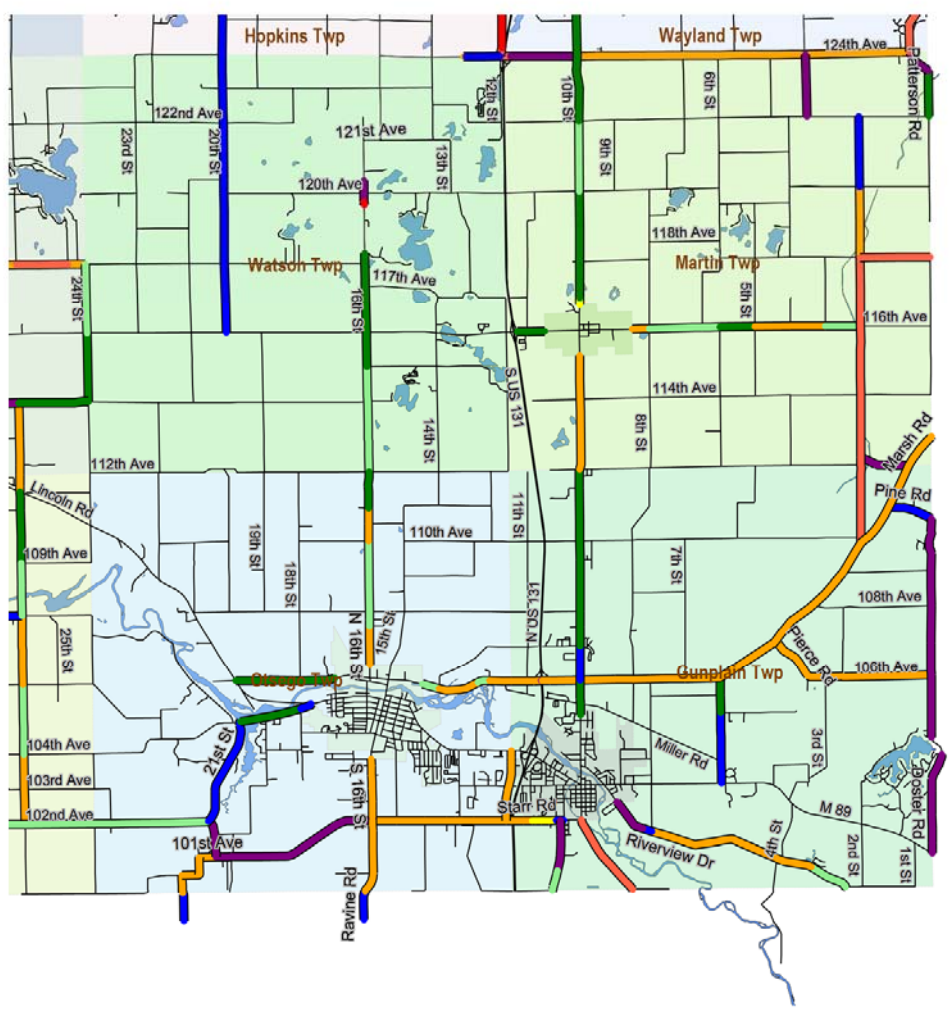
2019 PROPOSED PROJECTS

2018 PASER Map - Area 5



2018 PASER Map - Area 6

1.5 mi

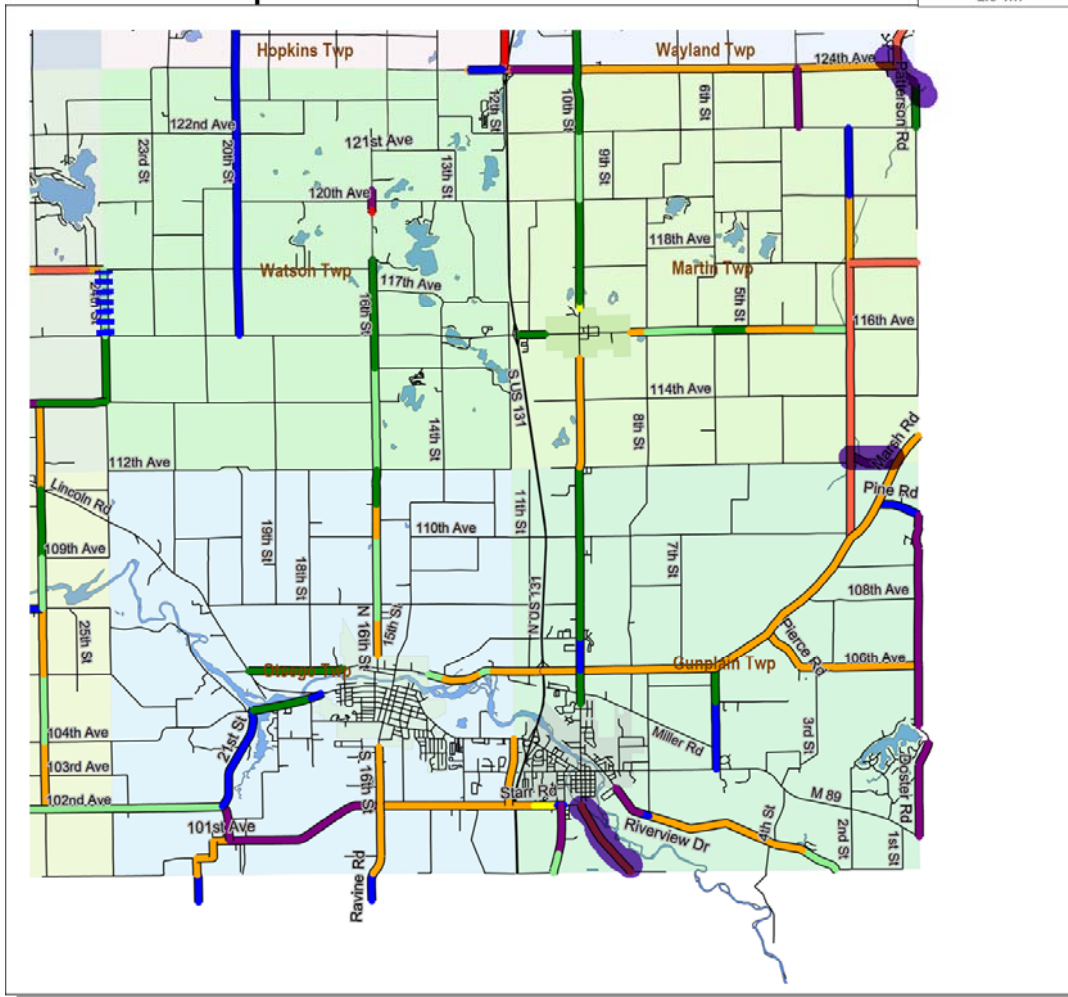


- PASER Ratings
- 1: Failed
 - 2: Very Poor
 - 3: Poor
 - 4: Fair
 - 5: Fair
 - 6: Good
 - 7: Good
 - 8: Very Good
 - 9: Excellent
 - 10: Excellent

2019 PROPOSED PROJECTS

2018 PASER Map - Area 6

1.5 mi



PASER Ratings

- 1: Failed
- 2: Very Poor
- 3: Poor
- 4: Fair
- 5: Fair
- 6: Good
- 7: Good
- 8: Very Good
- 9: Excellent
- 10: Excellent

- Resurface
- Renovation and Paving
- Chip Seal & Fog Coat
- Crack Seal
- Culvert Replacement

**PRIMARY ROAD RESURFACING MILLAGE FUND
2019 PROPOSED PROJECTS**

AREA	TOWNSHIP	PROJECT LOCATION	TYPE OF WORK	MILES	MILLAGE FUND COSTS	TOWNSHIP & OTHER CONTRIBUTIONS	TOTAL COSTS
1	Laketown	64th Street, 1,000' South of 138th to 142nd Avenue	Mill & Resurface, HMA 4E1 - 220 #/syd - Carried from 2018	2.19	\$170,000.00	Urban \$320,000.00	\$490,000.00
	Laketown & Saugatuck	64th Street, Blue Star Highway to 1,000' south of 138th Avenue	Mill & Resurface, HMA 4E1 - 220 #/syd	0.90	\$200,000.00		\$200,000.00
	Saugatuck	62nd Street, 124th Avenue to 128th Avenue	Resurface, HMA 4E1 - 275 #/syd, Chip Seal, & Fog Coat	1.97	\$450,000.00		\$450,000.00
	Fillmore	56th Street, 136th Avenue to 141st Avenue	Mill and Resurface, HMA 4E1 - 220 #/syd	2.50		ACRC \$450,000.00	\$450,000.00
SUB-TOTAL AREA 1				7.56	\$820,000.00	\$770,000.00	\$1,590,000.00
2	Monterey/Salem & Overisel/Heath	136th Avenue, 38th Street to 30th Street	Crack Seal, Chip Seal, and Fog Coat	3.95	\$140,000.00		\$140,000.00
	Heath	134th Avenue, M-40 to 41st Street (south)	Mill & Resurface, HMA 4E1 - 220 #/syd	2.35	\$430,000.00		\$430,000.00
	Monterey & Heath	36th Street, 125th Avenue to 128th Avenue	Crack Seal	1.50	\$12,000.00		\$12,000.00
	Overisel	38th Street, 142nd Avenue to 146th Avenue	Crack Seal	2.01	\$16,000.00		\$16,000.00
	Salem & Overisel	142nd Avenue, 38th Street to 34th Street	Mill & Resurface, HMA 4E1 - 220 #/syd	1.88		ACRC \$380,000.00	\$380,000.00
SUB-TOTAL AREA 2				11.69	\$598,000.00	\$380,000.00	\$978,000.00
3	Hopkins	128th Avenue, 18th Street to 14th Street	Mill and Resurface, HMA 4E1 - 275 #/syd	2.13	\$200,000.00	Safety \$600,000.00 ACRC \$50,000.00	\$850,000.00
	Wayland	Patterson Road, 124th Avenue to 129th Avenue	Mill and Resurface, HMA 4E1 - 220 #/syd	2.41	\$440,000.00		\$440,000.00
SUB-TOTAL AREA 3				4.54	\$640,000.00	\$650,000.00	\$1,290,000.00
4	Ganges	Lakeshore Drive, 118th Avenue to 121st Avenue	Resurface, HMA 4E1 - 275 #/syd	1.47	\$265,000.00	Ganges \$35,000.00	\$300,000.00
	Casco	Blue Star Highway, 300' south of A Street to 500' north of 111th Avenue	Crush, Shape, and Refurface, HMA 4E1 leveling course - 220 #/syd, HMA 4E1 top course - 220 #/syd	3.22	\$250,000.00	Federal \$1,043,490.00 State D \$224,812.00	\$1,518,302.00
	Ganges	62nd Street, 120th Avenue to 124th Avenue	Resurface, HMA 4E1 - 275 #/syd, Chip & Fog Seal	2.07	\$380,000.00	Ganges \$70,000.00	\$450,000.00
SUB-TOTAL AREA 4				6.76	\$895,000.00	\$1,373,302.00	\$2,268,302.00

**PRIMARY ROAD RESURFACING MILLAGE FUND
2019 PROPOSED PROJECTS**

AREA	TOWNSHIP	PROJECT LOCATION	TYPE OF WORK	MILES	MILLAGE FUND COSTS	TOWNSHIP & OTHER CONTRIBUTIONS	TOTAL COSTS
5	Cheshire	46th Street, 104th Avenue (west) to 106th Avenue	Resurface, HMA 4E1, 275 #/syd	1.00	\$165,000.00	Cheshire \$35,000.00	\$200,000.00
	Cheshire	104th Avenue, 48th Street to 46th Street	Resurface, HMA 4E1, 275 #/syd	0.96	\$165,000.00	Cheshire \$35,000.00	\$200,000.00
	Trowbridge	26th Street, 102nd Avenue to M-89	Crack Seal, Chip Seal, and Fog Coat	4.76	\$170,000.00		\$170,000.00
	Allegan & Watson	24th Street, M-222 to 118th Avenue	Chip Seal & Fog Coat	1.00	\$30,000.00		\$30,000.00
	Cheshire	102nd Avenue, 42nd Street to 38th Street	Chip Seal & Fog Coat	2.00	\$60,000.00		\$60,000.00
SUB-TOTAL AREA 5				9.72	\$590,000.00	\$70,000.00	\$660,000.00
6	Gun Plain & Martin	112th Avenue, 2nd Street to Marsh Road	Resurface, HMA 4E1, 275 #/syd & Chip Seal - Carried from 2018	0.72	\$145,000.00	Gun Plain \$4,500.00 Martin \$10,500.00 ACRC \$10,000.00	\$170,000.00
	Martin	Patterson Road, 124th Avenue to SE to the Barry County Line	Mill and Resurface , HMA 4E1 - 220 #/syd leveling course, HMA 4E1 - 165 #/syd top course - Carried from 2018	0.40	\$135,000.00	ACRC \$10,000.00	\$145,000.00
	Gun Plain	Douglas Avenue (10th Street), Baseline Road to Starr Road	Crush, Shape, and Refurface, HMA 4E1 leveling course - 220 #/syd, HMA 4E1 top course - 220 #/syd	1.24	\$475,000.00		\$475,000.00
	Allegan & Watson	24th Street, M-222 to 118th Avenue	Chip Seal & Fog Coat	1.00	\$30,000.00		\$30,000.00
SUB-TOTAL AREA 6				3.36	\$785,000.00	\$35,000.00	\$820,000.00
GRAND TOTAL				43.63	\$4,328,000.00	\$3,278,302.00	\$7,606,302.00

AREA FUND BALANCES

2018 Preliminary Balances

Area	Final 2017 Balances	Preliminary Revenues	Preliminary Expenses	Preliminary 2018 Balance
1	\$59,748.54	\$546,964.71	\$335,269.23	\$271,444.02
2	-\$20,180.39	\$546,964.71	\$407,292.66	\$119,491.67
3	\$211,550.26	\$546,964.71	\$710,734.84	\$47,780.13
4	\$239,563.93	\$546,964.71	\$481,958.59	\$304,570.05
5	\$252,598.94	\$546,964.71	\$585,456.56	\$214,107.09
6	\$346,843.38	\$546,964.71	\$665,418.74	\$228,389.35
Totals	\$1,090,124.64	\$3,281,788.28	\$3,186,130.62	\$1,185,782.30

2019 Estimated Balances

Area	Preliminary 2018 Balances	Estimated Revenues	Estimated Expenses	Estimated 2019 Balance
1	\$271,444.02	\$570,000.00	\$820,000.00	\$21,444.02
2	\$119,491.67	\$570,000.00	\$598,000.00	\$91,491.67
3	\$47,780.13	\$570,000.00	\$640,000.00	-\$22,219.87
4	\$304,570.05	\$570,000.00	\$895,000.00	-\$20,429.95
5	\$214,107.09	\$570,000.00	\$590,000.00	\$194,107.09
6	\$228,389.35	\$570,000.00	\$785,000.00	\$13,389.35
Totals	\$1,185,782.30	\$3,420,000.00	\$4,328,000.00	\$277,782.30

**PRIMARY ROAD RESURFACING MILLAGE FUND
2020 PROPOSED PROJECTS**

AREA	TOWNSHIP	PROJECT LOCATION	TYPE OF WORK	MILES	MILLAGE FUND COSTS	TOWNSHIP & OTHER CONTRIBUTIONS	TOTAL COSTS
1	Saugatuck	Lakeshore Drive, M-89 to washout	Resurface, HMA 4E1 - 220 #/syd	2.15	\$350,000.00		\$350,000.00
	Laketown & Fillmore	Blue Star Highway, 3,900' west of 60th St to 58th Street	Crush, Shape, and Resurface, HMA 4E1 - 220 #/syd leveling & HMA 4E1 - 220 #/syd top	2.00	\$800,000.00		\$800,000.00
SUB-TOTAL AREA 1				4.15	\$1,150,000.00	\$0.00	\$1,150,000.00
2	Monterey	30th Street, 128th Avenue to 132nd Avenue	Mill and Resurface, HMA 4E1 - 220 #/syd	2.00	\$400,000.00		\$400,000.00
	Overisel	142nd Avenue, 48th Street to 46th Street	Mill and Resurface, HMA 4E1 - 220 #/syd	0.92	\$200,000.00		\$200,000.00
SUB-TOTAL AREA 2				2.92	\$600,000.00	\$0.00	\$600,000.00
3	Leighton & Dorr	Division Street, 142nd Avenue to 1,000' south of 146th Avenue	Crush, Shape, and Resurface, HMA 4E1 - 220 #/syd leveling & HMA 4E1 - 220 #/syd top	2.02	\$800,000.00		\$800,000.00
	Hopkins & Wayland	12th Street, 124th Avenue to 128th Avenue	Mill and Resurface, HMA 4E1 - 220 #/syd	1.76	\$350,000.00		\$350,000.00
	Hopkins	128th Avenue, Hopkins Village Limits to 18th Street	Mill and Resurface, HMA 4E1 - 275 #/syd	1.75	\$400,000.00		\$400,000.00
SUB-TOTAL AREA 3				5.53	\$1,550,000.00	\$0.00	\$1,550,000.00
4	Lee	103rd Avenue/52nd Street/104th Avenue, 54th Street to 2,000' east of 52nd Street	Crush, Shape, and Resurface, HMA 4E1 - 220 #/syd leveling & HMA 4E1 - 220 #/syd top	1.80	\$130,000.00	Federal STP \$1,032,000.00 State D \$173,039.00 Lee Twp \$120,000.00	\$1,335,039.00
	Ganges	Lakeshore Drive, 121st Avenue to Lakeshore Court	Renovation and Resurface	0.47	\$180,000.00	Ganges Twp \$20,000.00	\$200,000.00
	Ganges	62nd Street, 116th Avenue to 120th Avenue	Resurface, HMA 4E1 - 275 #/syd	1.99	\$320,000.00	Ganges Twp \$70,000.00	\$390,000.00
SUB-TOTAL AREA 4				4.26	\$630,000.00	\$1,415,039.00	\$1,925,039.00
5	Cheshire & Valley	112th Avenue, 42nd Street to 37th Street	Crush, Shape, and Refurface, HMA 4E1 leveling course - 220 #/syd, HMA 4E1 top course - 220 #/syd	2.50	\$1,000,000.00		\$1,000,000.00
	Allegan	118th Avenue, Industrial Drive to 24th Street	Renovation and Resurface	2.60	\$400,000.00	Allegan Twp \$180,000.00	\$580,000.00
SUB-TOTAL AREA 5				5.10	\$1,400,000.00	\$180,000.00	\$1,580,000.00
6	Gun Plain & Martin	2nd Street, Marsh Road to 118th Avenue	Mill and Resurface, HMA 4E1 - 220 #/syd	4.11	\$800,000.00		\$800,000.00
SUB-TOTAL AREA 6				4.11	\$800,000.00	\$0.00	\$800,000.00
GRAND TOTAL				26.07	\$6,130,000.00	\$1,595,039.00	\$7,605,039.00