

ALLEGAN COUNTY PRIMARY ROAD MILLAGE

ALL AREAS



JANUARY 7-9, 2020

TOPICS

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

ALLEGAN COUNTY ROAD COMMISSION INFORMATION

- Responsible for 1,800 miles (5th in State) of roadway and 155 bridges (9th in State) within 24 townships (4th in the State)
 - 522 Primary Miles
 - 493 miles paved
 - 29 miles gravel
 - 1278 Local Miles
 - 668 miles paved
 - 610 miles gravel
 - 67 miles seasonal, not maintained in winter
 - 155 Bridges
 - 50 Primary System
 - 105 Local System
 - Bridge Classification: A structure with a minimum span of 20' (Can be a combination of culverts)

2018 ROAD COMMISSION REVENUES

The Road Commission receives revenue through the Michigan Transportation Fund (MTF) from fuel tax and vehicle registrations. This revenue is primarily used to pay operating and maintenance costs of the roads in Allegan County including payroll, equipment, materials, utility cost, etc. The Road Commission's MTF revenue was \$13,162,459 (19th in State).

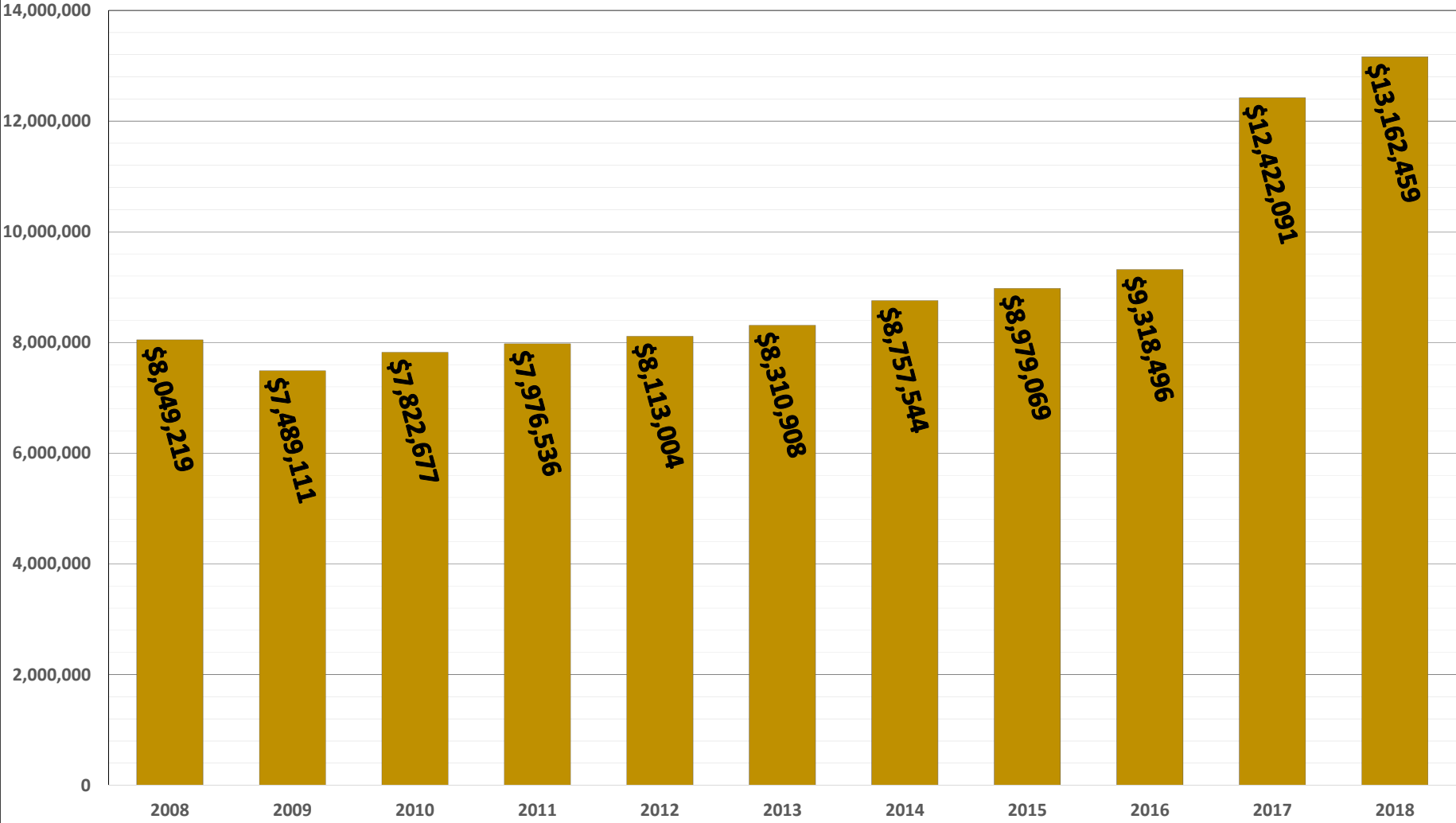
Federal and State funding acquired for roads and bridges totaled \$6,793,833.

Local Revenue:

The Primary Millage raised \$3,474,566 and township contributions added an additional \$6,697,993 for preventative maintenance and improvements to the local road system and activities like shoulder paving on the primary road system.

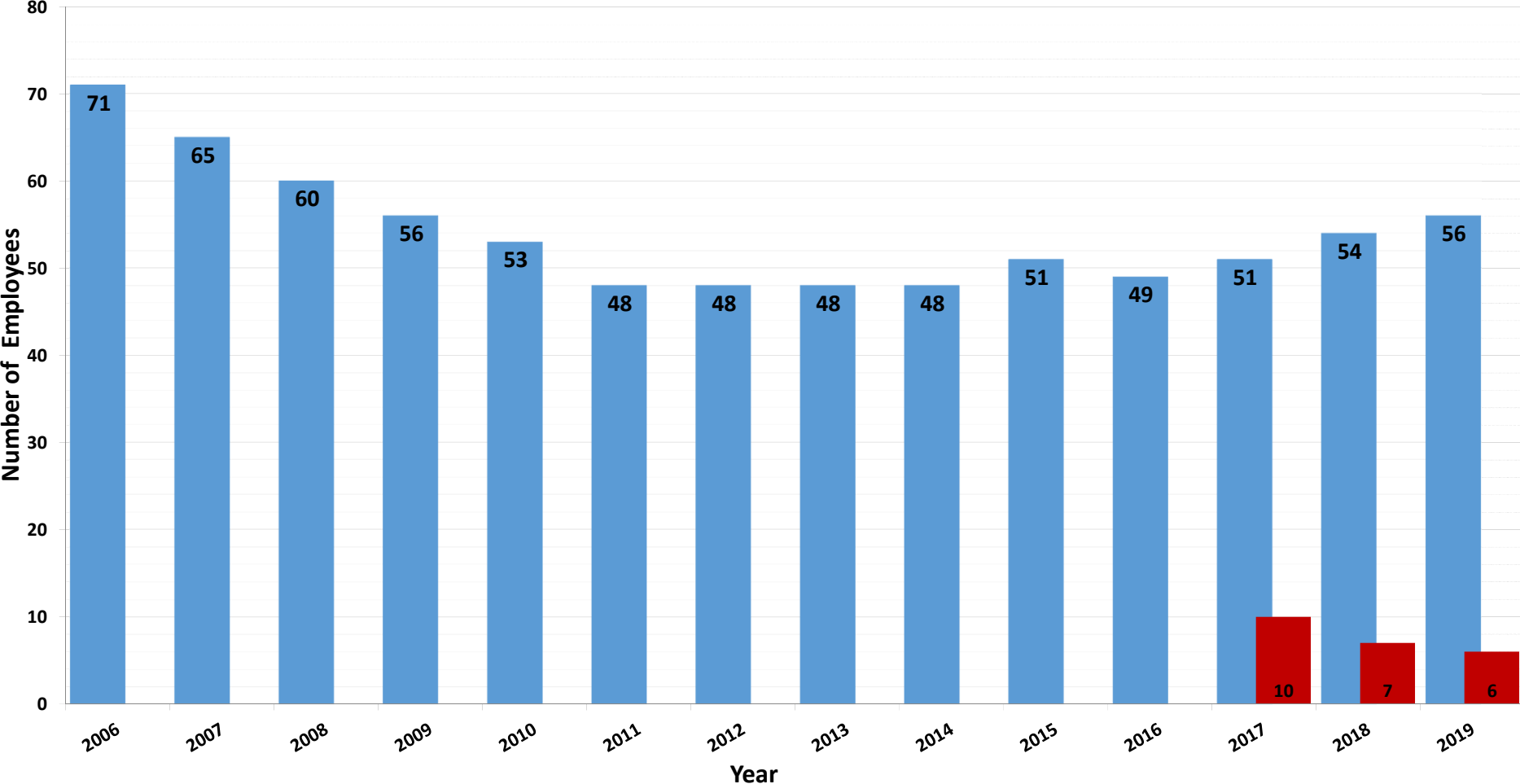
Locally raised revenues in Allegan County are consistently higher than other road commissions in the state.

Michigan Transportation Funds (MTF)

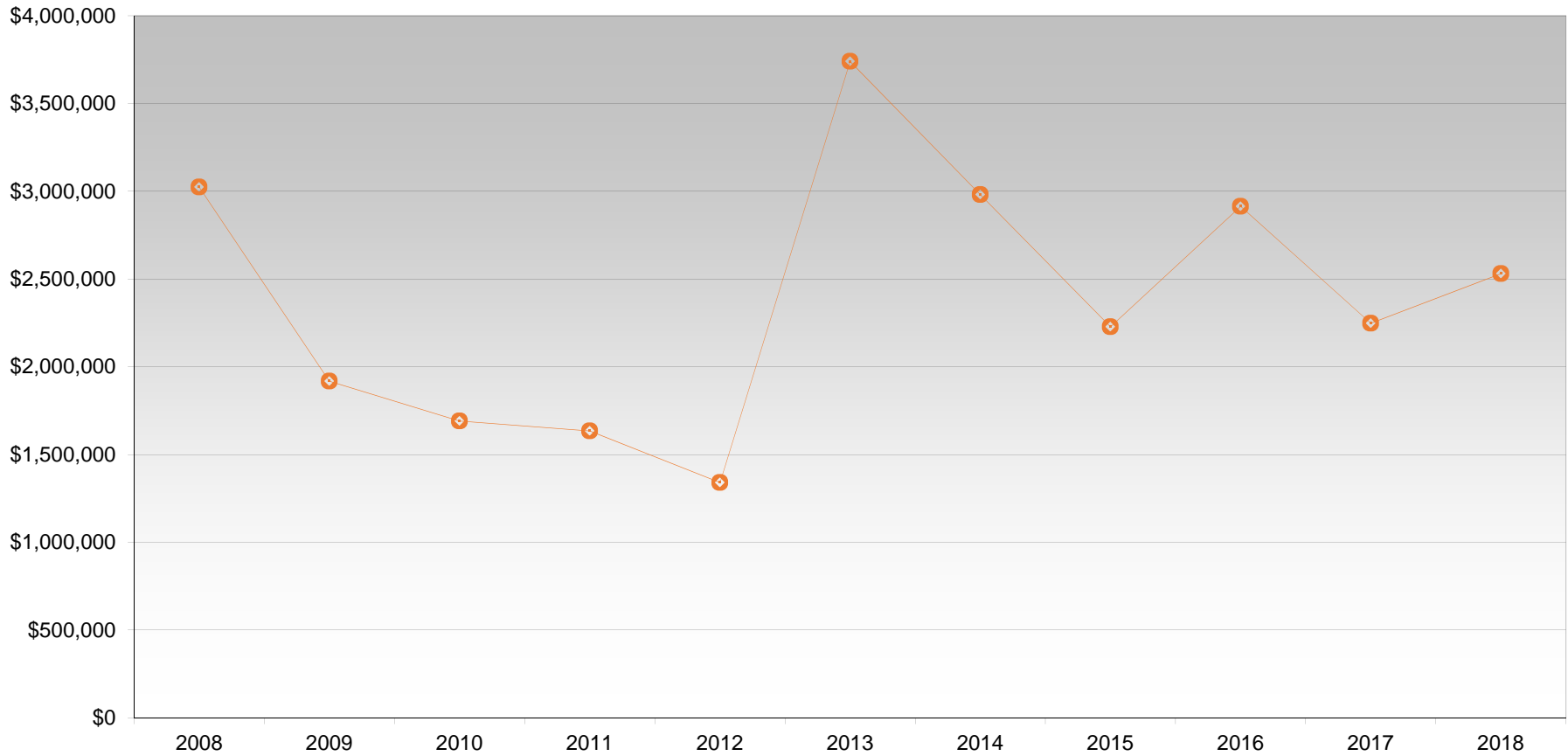


Allegan County Road Commission Number of Employees

■ Full Time Employees ■ Seasonal & Retirees



WINTER MAINTENANCE COSTS

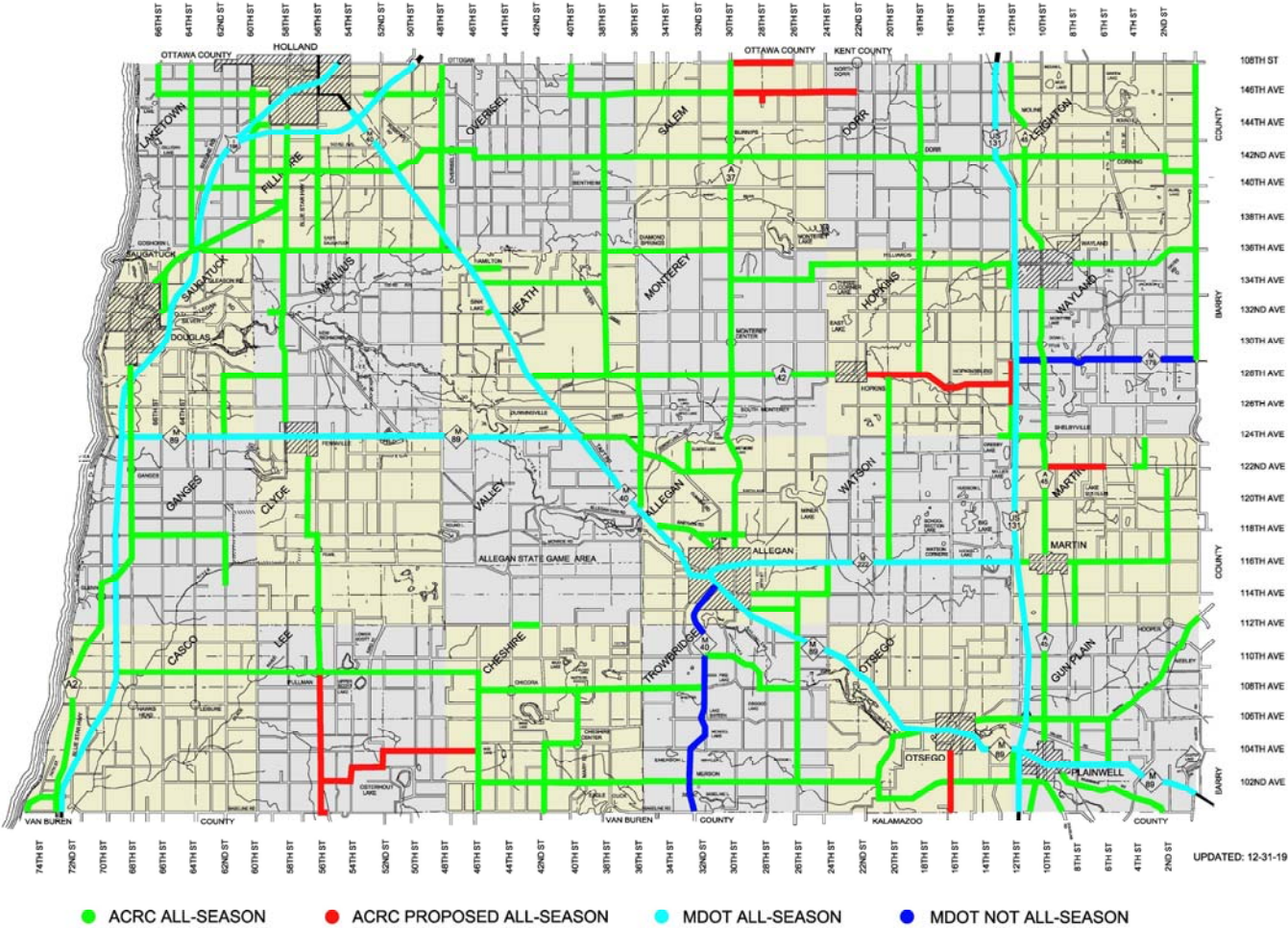


HOT MIX ASPHALT PRICES

YEAR	Local Roads			Primary Roads		
	(\$/ton)	Yearly Change	% Change	(\$/ton)	Yearly Change	% Change
2005	\$27.26			\$24.79		
2006	\$34.00	\$6.74	24.7%	\$33.27	\$8.48	34.2%
2007	\$39.38	\$5.38	15.8%	\$38.83	\$5.56	16.7%
2008	\$54.72	\$15.34	39.0%	\$48.50	\$9.67	24.9%
2009	\$46.91	-\$7.81	-14.3%	\$47.63	-\$0.87	-1.8%
2010	\$48.33	\$1.42	3.0%	\$49.92	\$2.29	4.8%
2011	\$44.14	-\$4.19	-8.7%	\$43.59	-\$6.33	-12.7%
2012	\$49.82	\$5.68	12.9%	\$50.49	\$6.90	15.8%
2013	\$53.22	\$3.40	6.8%	\$53.60	\$3.11	6.2%
2014	\$51.01	-\$2.21	-4.2%	\$52.48	-\$1.12	-2.1%
2015	\$52.28	\$1.27	2.5%	\$58.40	\$5.92	11.3%
2016	\$49.07	-\$3.21	-6.1%	\$52.36	-\$6.04	-10.3%
2017	\$48.34	-\$0.73	-1.5%	\$53.32	\$0.96	1.8%
2018	\$49.69	\$1.35	2.8%	\$50.81	-\$2.51	-4.7%
2019	\$60.87	\$11.18	22.5%	\$60.18	\$9.37	18.4%
*2020	\$63.00	\$2.13	3.5%	\$62.00	\$1.82	3.0%

*Projected

ALL-SEASON ROUTES (CLASS A)



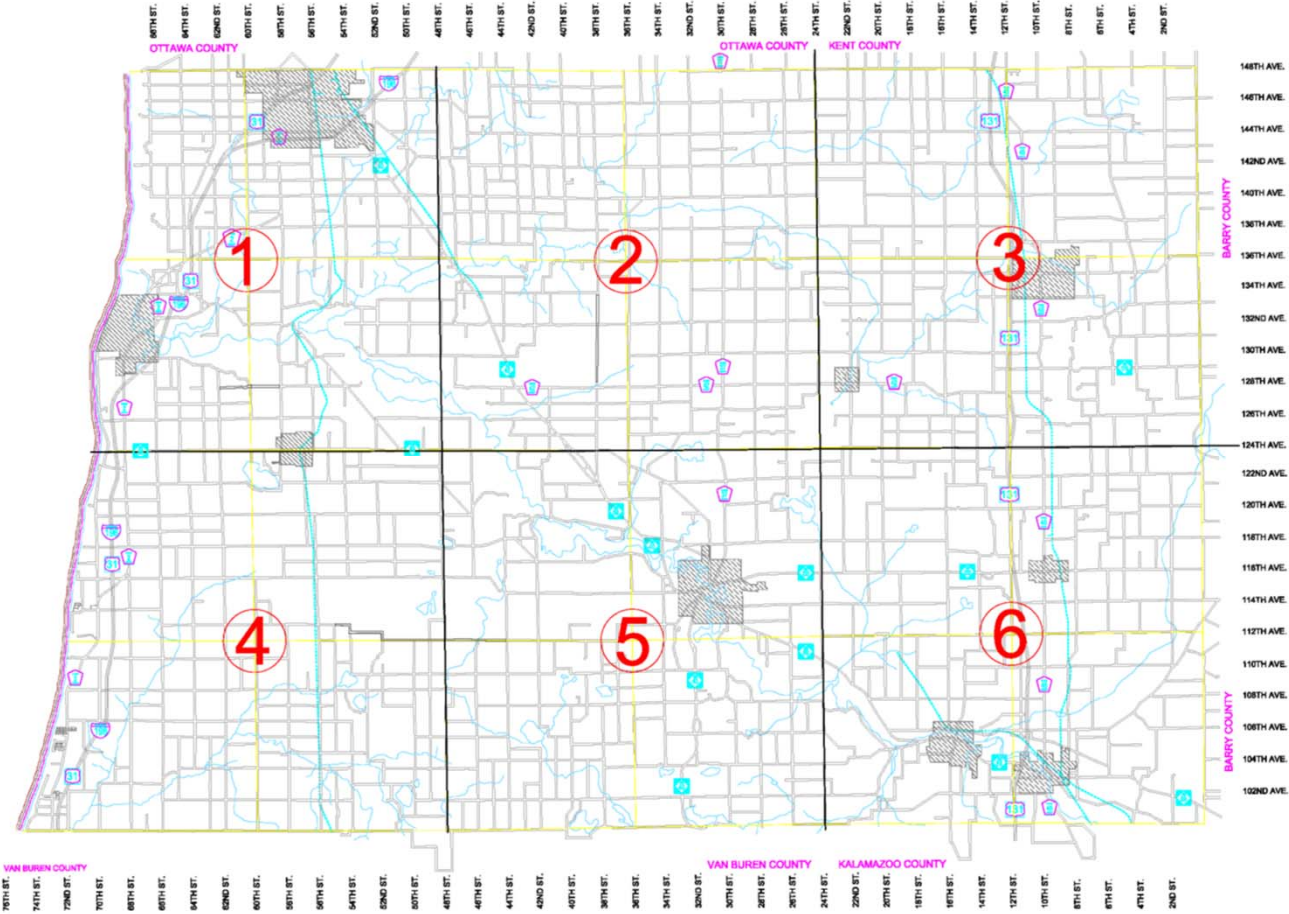
ALLEGAN COUNTY MILLAGE HISTORY

- 1968 a one mill tax was established for bridge & culvert replacement on county roads.
 - 1968-1982 there were 111 bridges and culverts replaced with the millage.
- 1982 the millage language changed from bridge and culvert replacement to primary road resurfacing.
- 2008 the millage language was revised again to include “preservation and preparation” along with resurfacing.
- 2020 is the 2nd year of the renewed 6 year millage.

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 – Primary Roads:
 - Shoulder Paving – (2" of asphalt) x (additional shoulder width) x (project length) x (contracted unit price)
 - Renovation Projects - \$35,000/mi
 - Work outside existing road shoulders (widening, clearing, ditching)
 - Reconstruction Projects - \$50,000/mi
 - Existing gravel road with full base/sub-base reconstruction
 - Crush, Shape, & Resurface or Mill & Resurface Projects within existing shoulders won't require contributions
- Road Commission Responsibility:
 - Develop plan/proposed projects
 - Present to townships
 - Oversee projects

6 PRIMARY MILLAGE AREAS



6 PRIMARY MILLAGE AREAS


Area	Township	Primary (Miles)	Total (Miles)	% of Area	% of Total	Ranking (Miles)
1	Laketown	17.7	78.5	22.5%	15.1%	4th
	Fillmore	27.4		34.9%		
	Saugatuck	21.1		26.9%		
	Manlius	12.4		15.7%		
2	Overisel	18.2	71.0	25.6%	13.7%	6th
	Salem	19.6		27.6%		
	Heath	14.3		20.1%		
	Monterey	18.9		26.6%		
3	Dorr	22.0	97.1	22.7%	18.7%	2nd
	Leighton	24.7		25.5%		
	Hopkins	23.0		23.6%		
	Wayland	27.4		28.2%		
4	Ganges	33.3	104.1	32.0%	20.0%	1st
	Clyde	18.7		18.0%		
	Casco	29.9		28.7%		
	Lee	22.3		21.4%		
5	Valley	17.0	91.4	18.6%	17.6%	3rd
	Allegan	30.4		33.2%		
	Cheshire	26.5		29.0%		
	Trowbridge	17.6		19.3%		
6	Watson	14.1	77.9	18.0%	15.0%	5th
	Martin	21.9		28.1%		
	Otsego	18.5		23.7%		
	Gun Plain	23.5		30.2%		

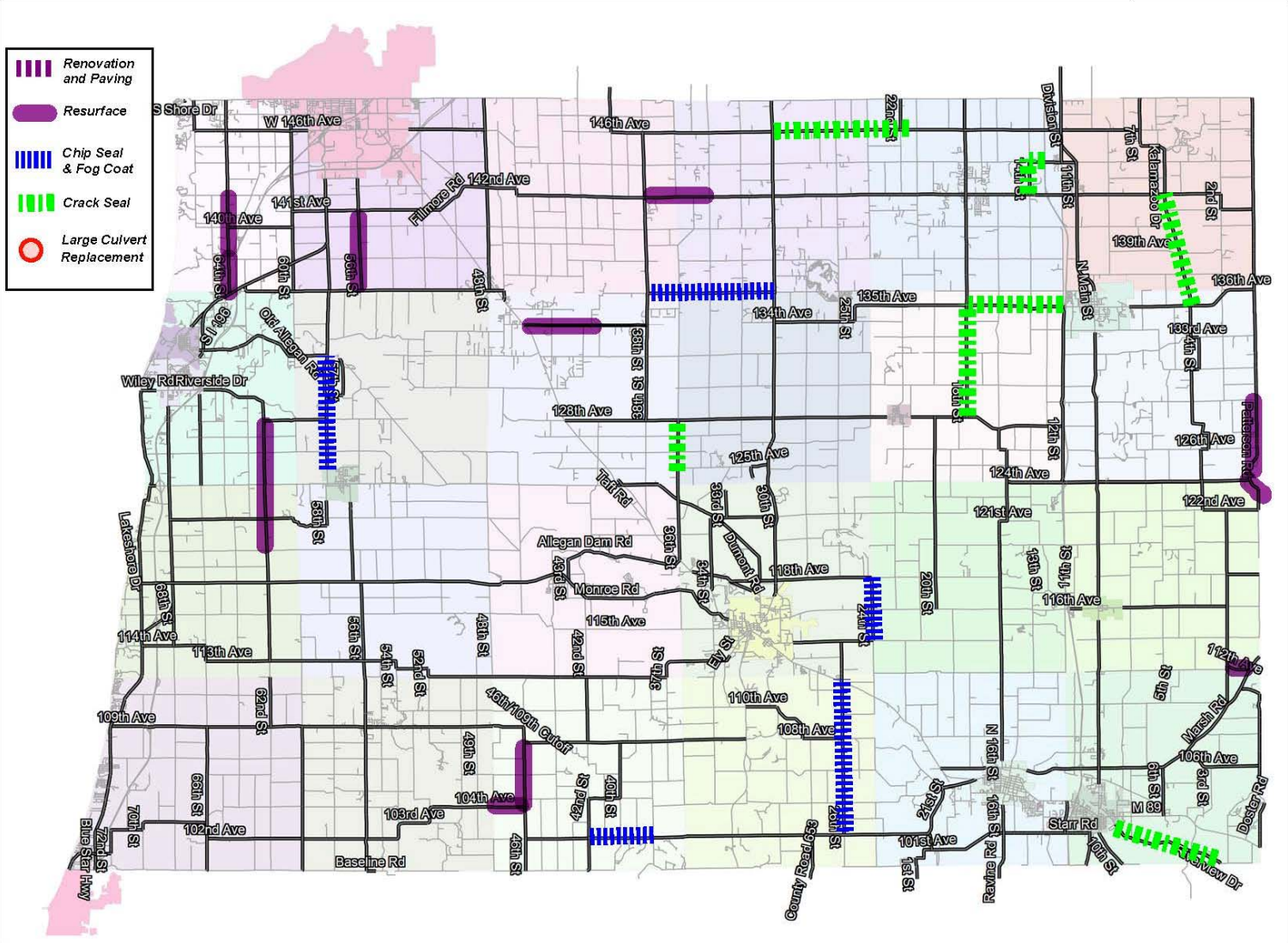
PRIMARY ROAD MILLAGE PROJECT TOTALS

- From 1983-2019 the millage has raised \$74,002,405 which has funded:
 - 655.05 miles of paving (14.05 in 2019)
 - *Some roads have been resurfaced multiple times
 - 172.02 miles of chip seal & fog coat (13.13 in 2019)
 - 208.69 miles of crack sealing (32.90 in 2019)
 - 14 large culvert replacements
- Millage funds were used to locally match 1 State/Federal funded project in 2019
- * Michigan Transportation Funds (MTF) - 2019
 - 2 primary resurfacing projects (4.38 Miles) = ~\$710,000
 - 8 large culvert replacements = ~\$250,000

Allegheny County Primary - 2019 Completed Projects

3.5 mi

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



PRIMARY ROAD RESURFACING MILLAGE 2019 COMPLETED 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 - Carried from 2018	Mill & Resurface, HMA 4E1 - 220 #/syd	2.19	\$164,773.79	Federal - Urban \$320,000.00	\$484,773.79
	Laketown & Saugatuck	64th Street, Blue Star Highway to 1,000' south of 138th Avenue	Mill & Resurface, HMA 4E1 - 220 #/syd	0.90	\$156,598.70		\$156,598.70
	Saugatuck	62nd Street, 124th Avenue to 128th Avenue	Resurface, HMA 4E1 - 275 #/syd	1.97	\$339,387.82		\$339,387.82
	Fillmore	56th Street, 136th Avenue to 141st Avenue	Mill and Resurface, HMA 4E1 - 220 #/syd	2.50		ACRC (MTF) \$384,533.52	\$384,533.52
	Manlius	58th Street, Fenntown City Limits to Old Allegan Road	Crack Seal, Chip Seal, and Fog Coat	3.42	\$125,953.37		\$125,953.37
SUB-TOTAL AREA 1				10.98	\$786,713.68	\$704,533.52	\$1,491,247.20
2	Heath	134th Avenue, M-40 to 41st Street (south)	Mill & Resurface, HMA 4E1 - 220 #/syd	2.35	\$349,864.97		\$349,864.97
	All Townships	136th Avenue, 38th Street to 30th Street	Crack Seal, Chip Seal, and Fog Coat	3.95	\$149,628.09		\$149,628.09
	Monterey & Heath	36th Street, 125th Avenue to 128th Avenue	Crack Seal	1.50	\$7,223.55		\$7,223.55
	Salem	146th Avenue, 30th Street to 24th Street	Crack Seal	3.00	\$14,411.95		\$14,411.95
	Salem & Overisel	142nd Avenue, 38th Street to 34th Street	Mill & Resurface, HMA 4E1 - 220 #/syd	1.88		ACRC (MTF) \$325,621.54	\$325,621.54
SUB-TOTAL AREA 2				12.68	\$521,128.56	\$325,621.54	\$846,750.10
3	Hopkins	128th Avenue, 18th Street to 14th Street - Carried to 2020	Mill and Resurface, HMA 4E1 - 275 #/syd				\$0.00
	Wayland	Patterson Road, 124th Avenue to 129th Avenue	Mill and Resurface, HMA 4E1 - 220 #/syd	2.53	\$425,395.12		\$425,395.12
	Hopkins	18th Street, 128th Avenue to 135th Avenue & 135th Avenue, 18th Street to US-131	Crack Seal	6.52	\$31,398.36		\$31,398.36
	Leighton & Wayland	Kalamazoo Drive, 135th Avenue to 142nd Avenue	Crack Seal	3.50	\$16,854.95		\$16,854.95
	Dorr	14th Street, 142nd Avenue to 144th Avenue & 144th Avenue, 14th Street to US-131	Crack Seal	1.50	\$7,223.55		\$7,223.55
	Dorr	146th Avenue, 24th Street to End of Pavement	Crack Seal	1.10	\$5,284.38		\$5,284.38
SUB-TOTAL AREA 3				15.15	\$486,156.36	\$0.00	\$486,156.36

PRIMARY ROAD RESURFACING MILLAGE 2019 COMPLETED PROJECTS							
AREA	TOWNSHIP	PROJECT LOCATION	TYPE OF WORK	MILES	MILLAGE FUND COSTS	TOWNSHIP & OTHER CONTRIBUTIONS	TOTAL COSTS
4	Ganges	Lakeshore Drive, 118th Avenue to 121st Avenue - Carried to 2020	Resurface, HMA 4E1 - 275 #/syd				\$0.00
	Casco	Blue Star Highway, 300' south of A Street to 500' north of 111th Avenue - Carried to 2020	Crush, Shape, and Refurface, HMA 4E1 leveling course - 220 #/syd, HMA 4E1 top course - 220 #/syd				\$0.00
	Ganges	62nd Street, 120th Avenue to 124th Avenue	Resurface, HMA 4E1 - 275 #/syd	2.07	\$292,740.29	Ganges (PS) \$46,647.53	\$339,387.82
SUB-TOTAL AREA 4				2.07	\$292,740.29	\$46,647.53	\$339,387.82
5	Cheshire	46th Street, 104th Avenue (west) to 108th Avenue	Resurface, HMA 4E1, 275 #/syd	2.00	\$349,904.04	Cheshire (PS) \$72,070.83	\$421,974.87
	Cheshire	104th Avenue, 48th Street to 46th Street	Resurface, HMA 4E1, 275 #/syd	0.99	\$168,682.98	Cheshire (PS) \$27,026.56	\$195,709.54
	Trowbridge	26th Street, 102nd Avenue to M-89	Crack Seal, Chip Seal, and Fog Coat	4.76	\$154,420.05		\$154,420.05
	Allegan & Watson	24th Street, M-222 to 118th Avenue	Chip Seal & Fog Coat	1.00	\$13,039.91		\$13,039.91
	Cheshire	102nd Avenue, 42nd Street to 38th Street	Chip Seal & Fog Coat	2.00	\$60,940.61		\$60,940.61
SUB-TOTAL AREA 5				10.75	\$746,987.59	\$99,097.39	\$846,084.98
6	Gun Plain & Martin	112th Avenue, 2nd Street to Marsh Road - <i>Carried from 2018</i>	Resurface, HMA 4E1, 275 #/syd & Chip Seal	0.72	\$103,187.87	Gun Plain (PS) \$2,890.06 Martin (PS) \$5,659.70	\$111,737.63
	Martin	Patterson Road, 124th Avenue to SE to the Barry County Line - <i>Carried from 2018</i>	Mill and Resurface, HMA 4E1 - 220 #/syd leveling course, HMA 4E1 - 165 #/syd top course	0.40	\$116,993.79		\$116,993.79
	Gun Plain	Douglas Avenue (10th Street), Baseline Road to Starr Road - Carried to 2020	Crush, Shape, and Refurface, HMA 4E1 leveling course - 220 #/syd, HMA 4E1 top course - 220 #/syd				\$0.00
	Allegan & Watson	24th Street, M-222 to 118th Avenue	Chip Seal & Fog Coat	1.00	\$13,039.91		\$13,039.91
	Gun Plain	Riverview Drive, Plainwell City Limits to Baseline Road	Crack Seal	3.65	\$17,577.30		\$17,577.30
SUB-TOTAL AREA 6				5.77	\$250,798.87	\$8,549.76	\$259,348.63
GRAND TOTAL				57.40	\$3,084,525.34	\$1,184,449.74	\$4,268,975.08

2020 Planning and Proposed Projects

- **Current Pavement Conditions:**
 - Pavement Surface Evaluation & Ratings (PASER)
- **Road History:**
 - When & how was the road constructed & paved
 - Last resurfacing or preventative maintenance
- **Other Considerations:**
 - Cause of Pavement Distresses (traffic loads, poor soils, poor drainage, age, etc.)
 - All-Season Routes
 - Maintenance Costs
 - Project Costs
 - Safety

PASER RATING GUIDLINES

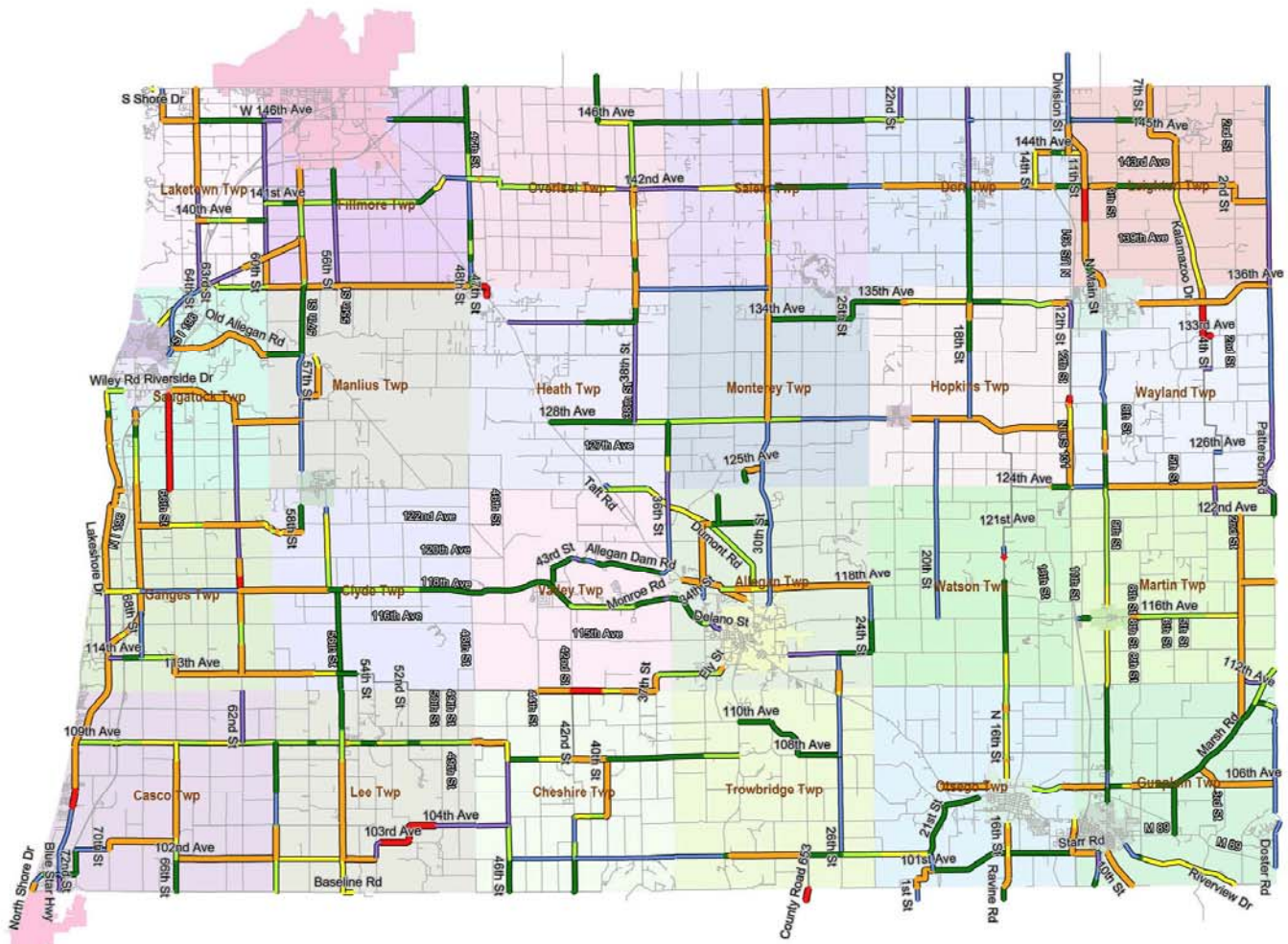
- Good Ratings: 8, 9, & 10
 - No maintenance required
- Fair Ratings: 5, 6, & 7
 - 7 - Crack Seal
 - 5 or 6 - Chipseal and Fog Coat
- Poor Ratings: 1, 2, 3, & 4
 - Time to Resurface
 - Milling, Crush & Shape, or Reconstruction extends pavement life
- Rating resets when treatment is completed
 - Reconstruction: 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

2019 PASER Map - County Primary Roads

2.5 mi



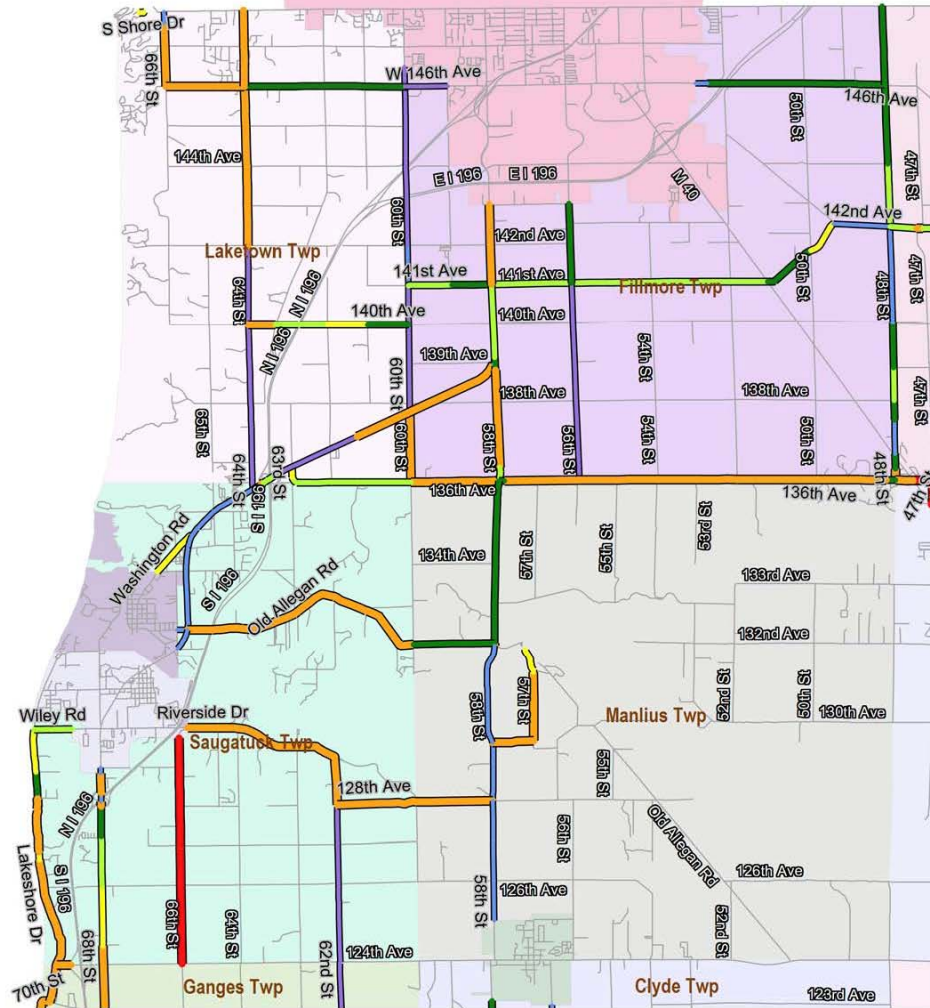
- PASER Ratings
- 1: Failed
 - 2: Very Poor
 - 3: Poor
 - 4: Fair
 - 5: Fair
 - 6: Good
 - 7: Good
 - 8: Very Good
 - 9: Excellent
 - 10: Excellent

6 PRIMARY MILLAGE AREAS

Area	Township	Primary (Miles)	Total (Miles)	% of Area	% of Total	Ranking (Miles)	Average PASER	Average Area PASER	Ranking (PASER)
1	Laketown	17.7	78.5	22.5%	15.1%	4th	6.1	5.86	5th
	Fillmore	27.4		34.9%			6.2		
	Saugatuck	21.1		26.9%			4.9		
	Manlius	12.4		15.7%			6.4		
2	Overisel	18.2	71.0	25.6%	13.7%	6th	6.1	6.48	1st (tie)
	Salem	19.6		27.6%			6		
	Heath	14.3		20.1%			7.6		
	Monterey	18.9		26.6%			6.5		
3	Dorr	22.0	97.1	22.7%	18.7%	2nd	6.4	5.95	4th
	Leighton	24.7		25.5%			5.3		
	Hopkins	23.0		23.6%			5.9		
	Wayland	27.4		28.2%			6.2		
4	Ganges	33.3	104.1	32.0%	20.0%	1st	5.3	5.53	6th
	Clyde	18.7		18.0%			5.9		
	Casco	29.9		28.7%			5.4		
	Lee	22.3		21.4%			5.5		
5	Valley	17.0	91.4	18.6%	17.6%	3rd	6.6	6.48	1st (tie)
	Allegan	30.4		33.2%			6.3		
	Cheshire	26.5		29.0%			6.2		
	Trowbridge	17.6		19.3%			6.8		
6	Watson	14.1	77.9	18.0%	15.0%	5th	7.3	6.00	3rd
	Martin	21.9		28.1%			5.2		
	Otsego	18.5		23.7%			5.6		
	Gun Plain	23.5		30.2%			5.9		

2019 PASER Map - Area 1

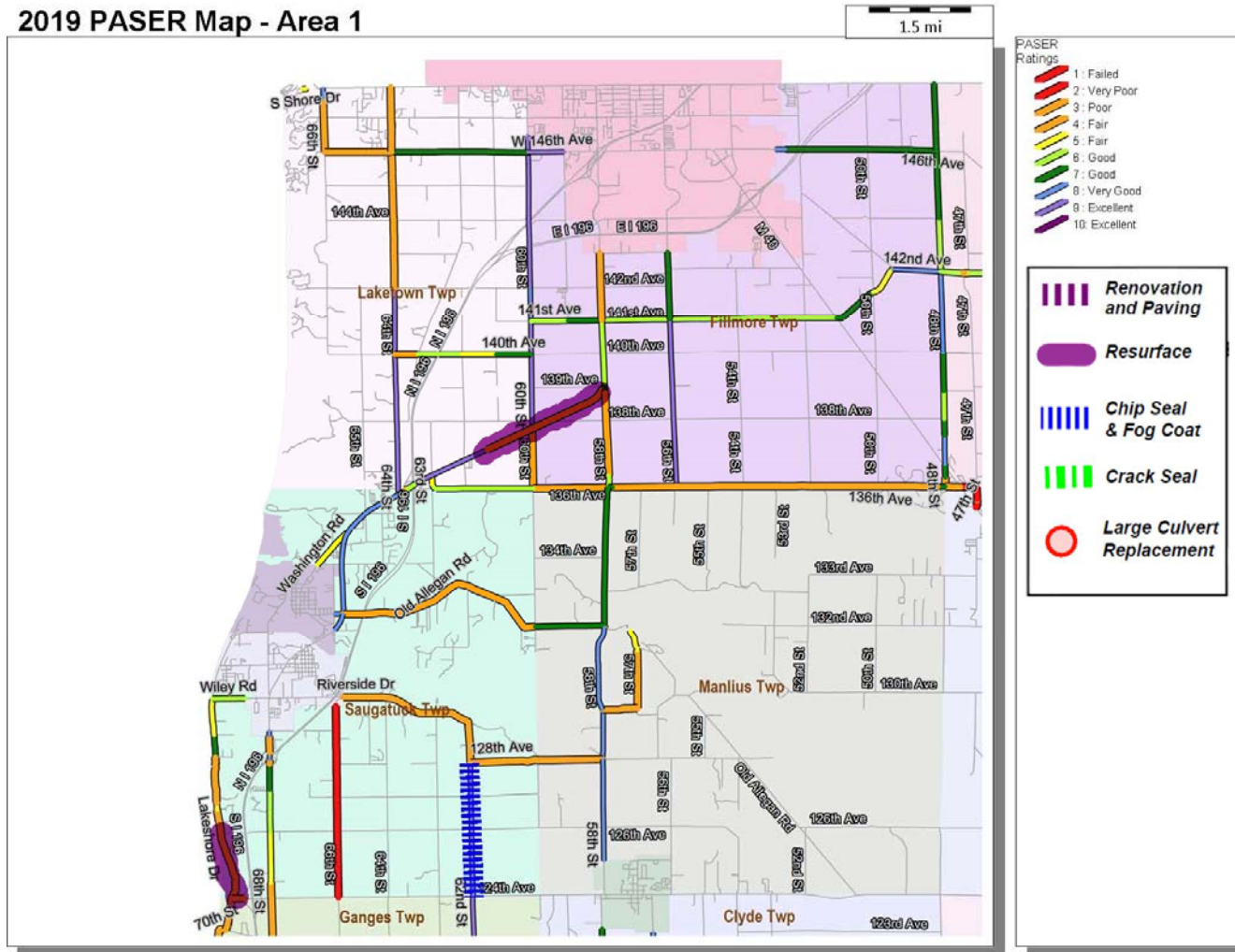
1.5 mi



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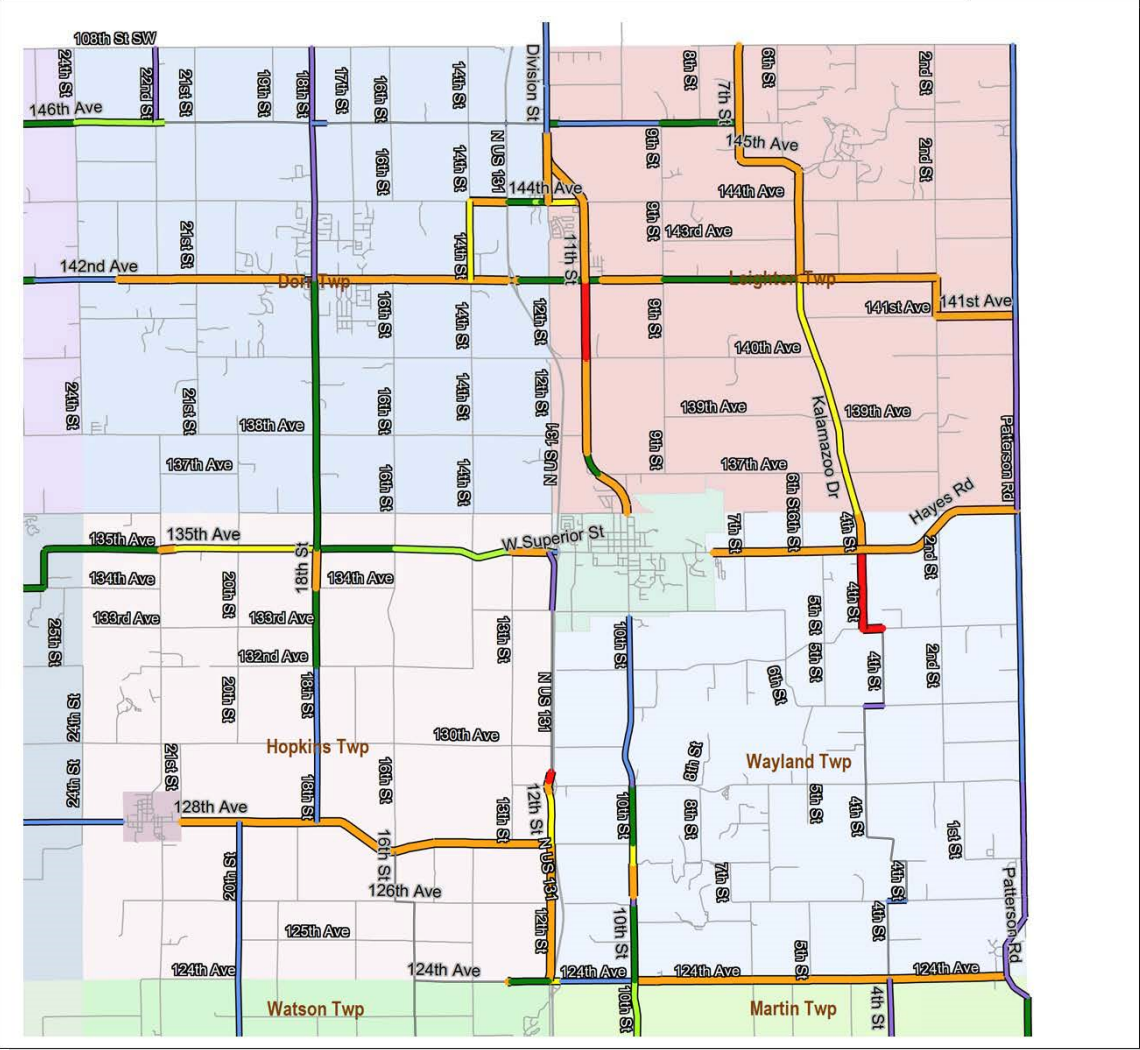
2020 PROPOSED PROJECTS – AREA 1

2019 PASER Map - Area 1



2019 PASER Map - Area 3

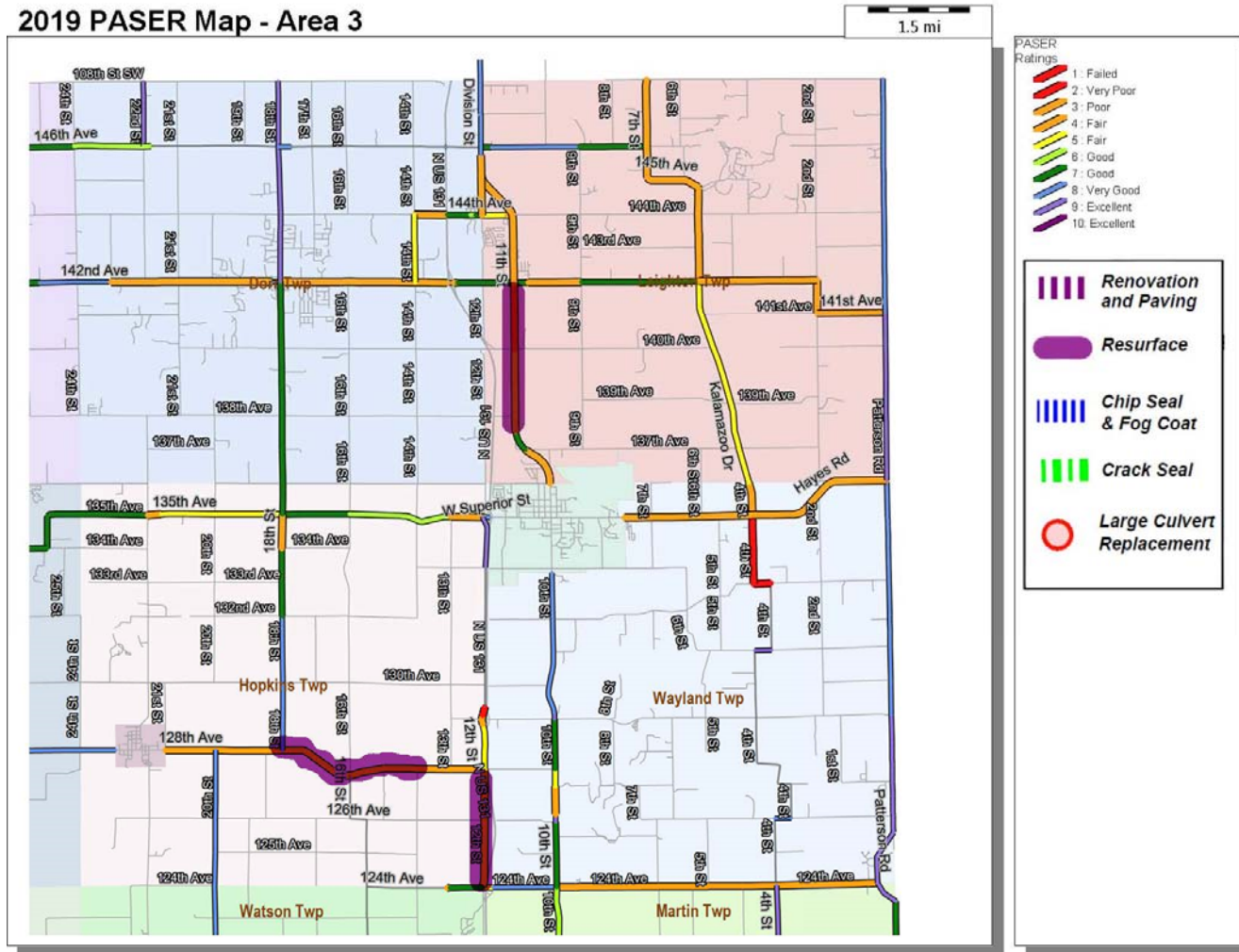
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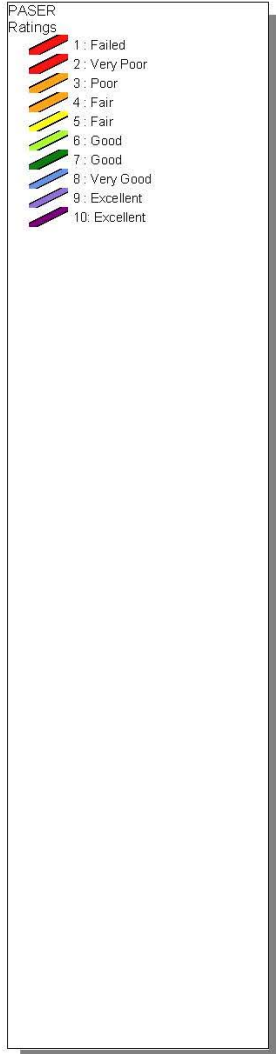
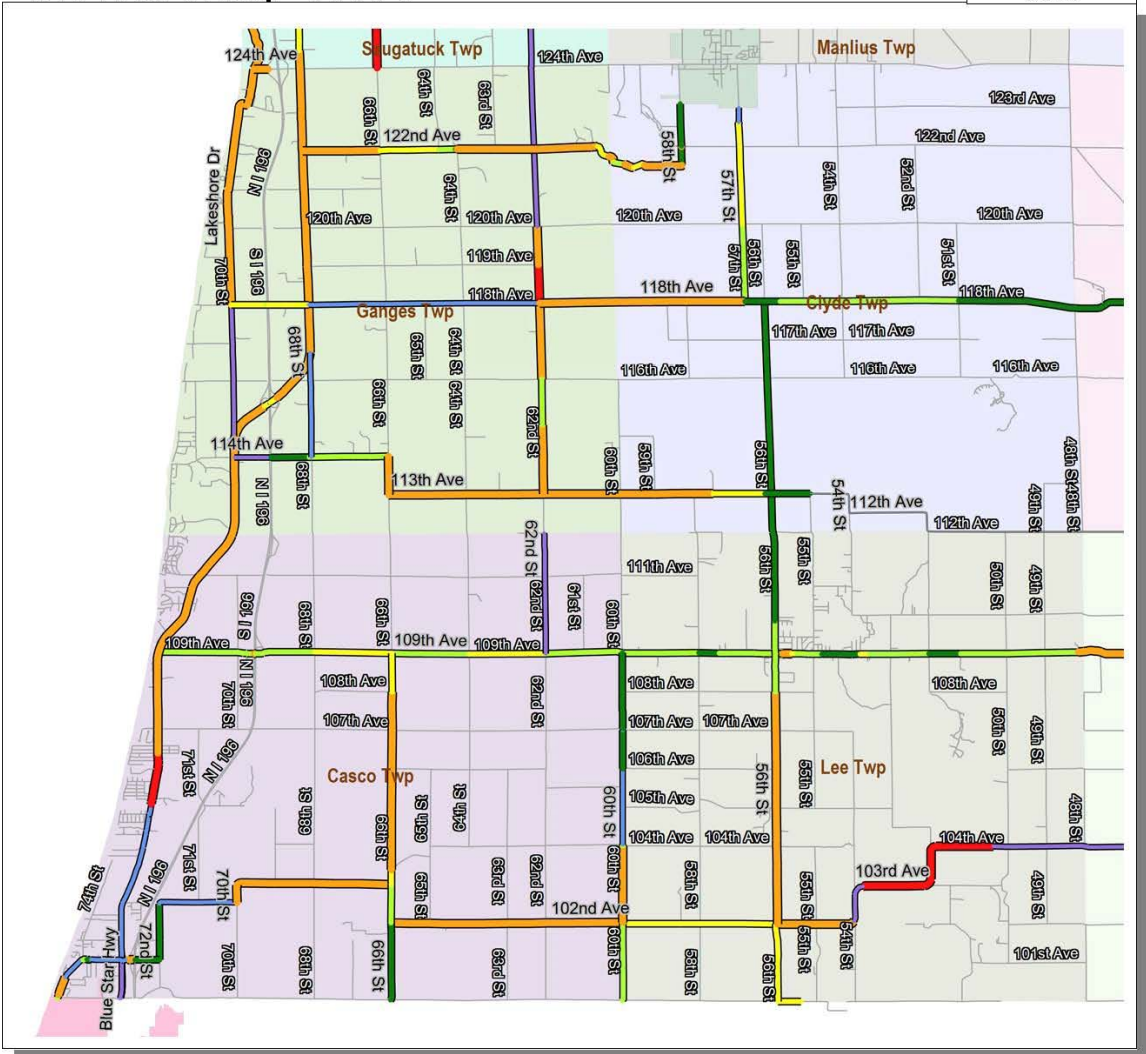
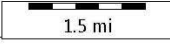
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2020 PROPOSED PROJECTS – AREA 3

2019 PASER Map - Area 3

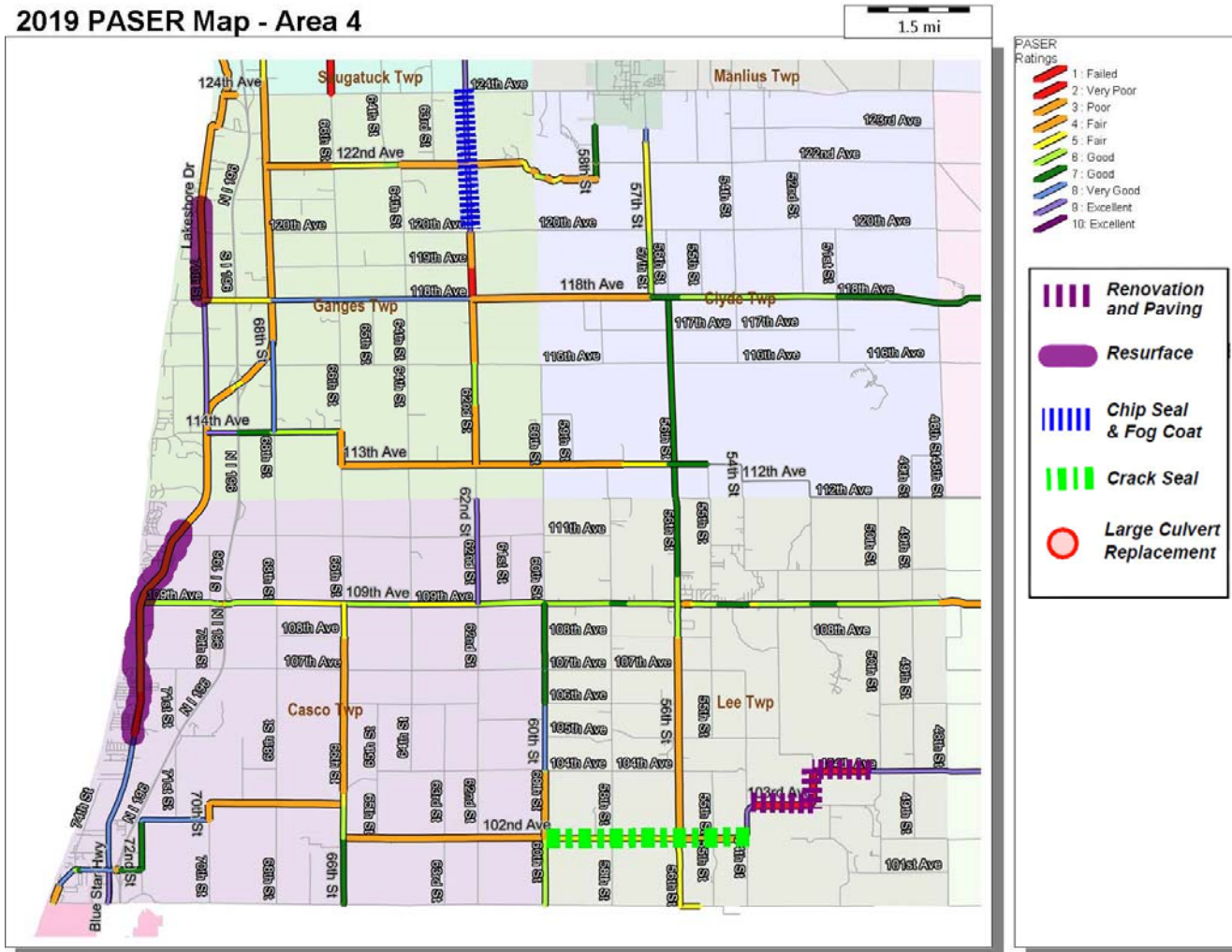


2019 PASER Map - Area 4



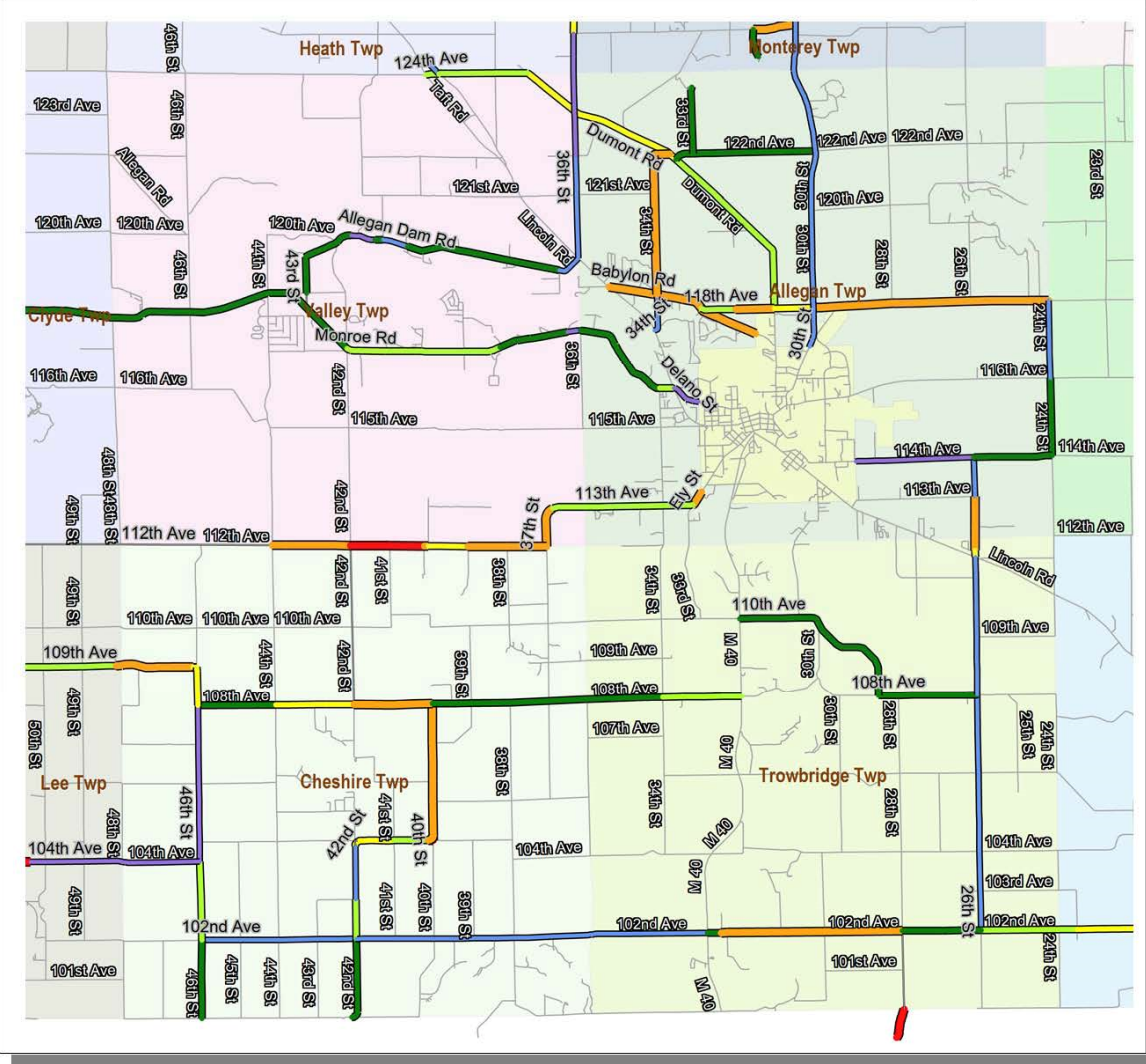
2020 PROPOSED PROJECTS – AREA 4

2019 PASER Map - Area 4



2019 PASER Map - Area 5

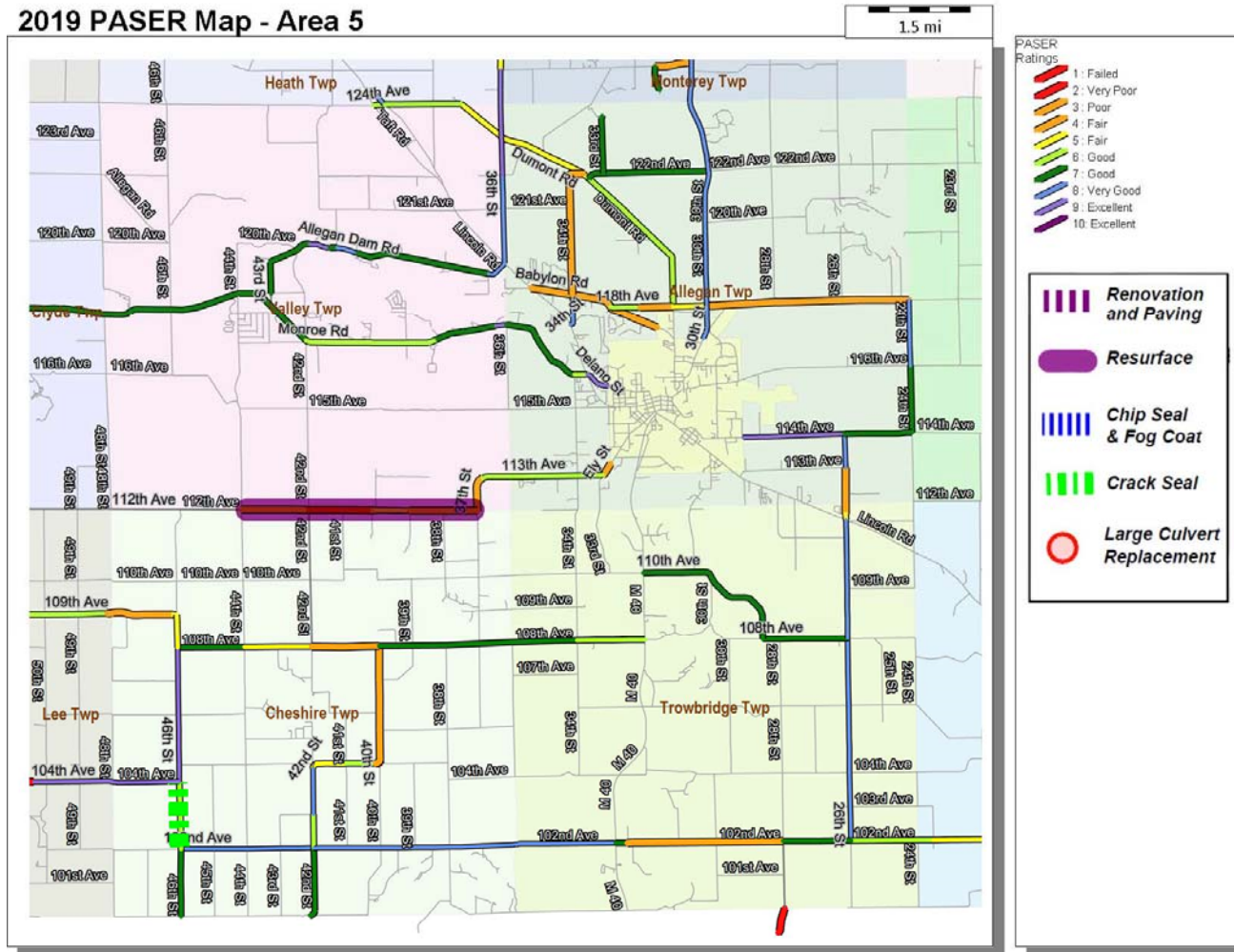
1.5 mi



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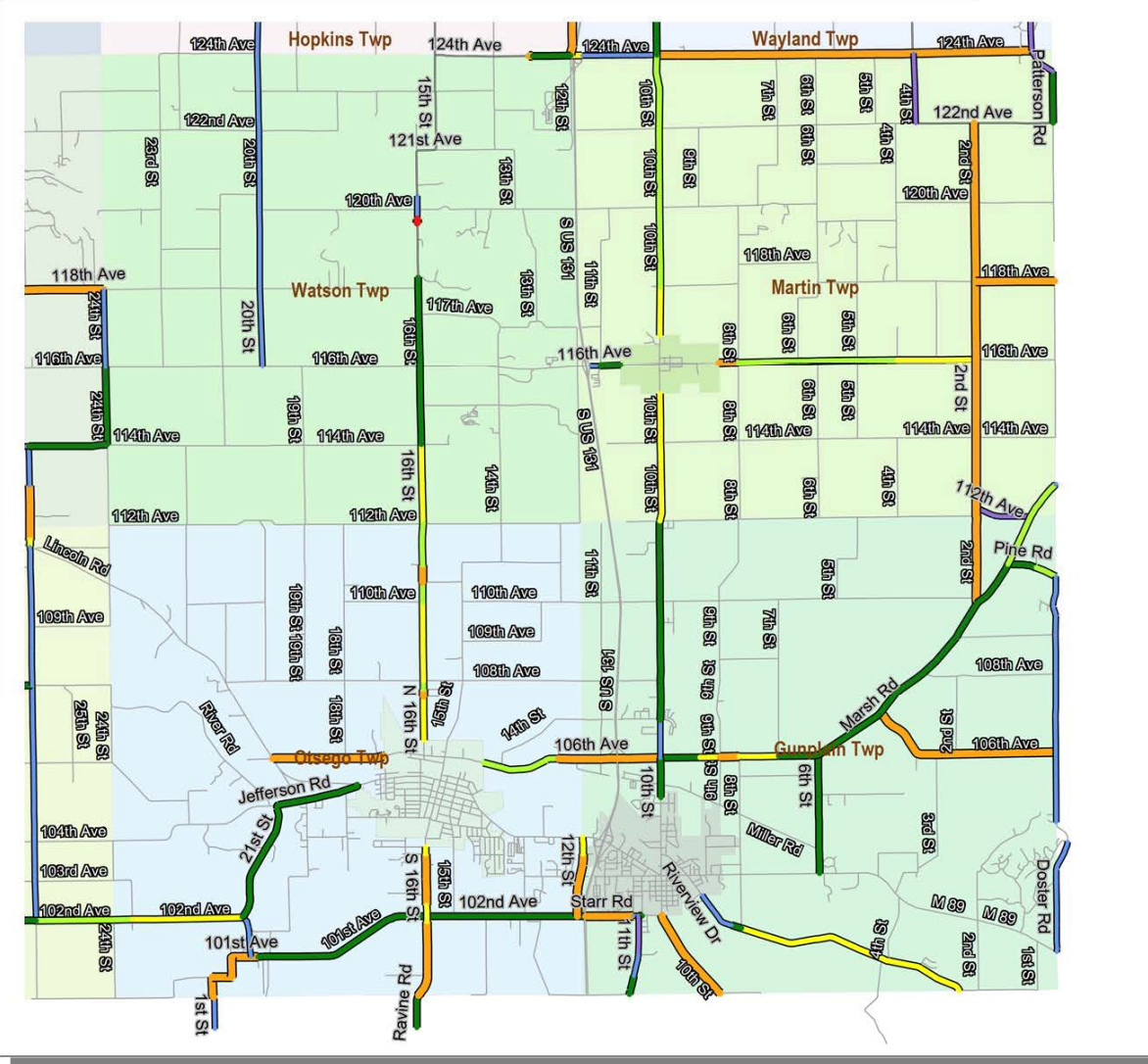
2020 PROPOSED PROJECTS – AREA 5

2019 PASER Map - Area 5



2019 PASER Map - Area 6

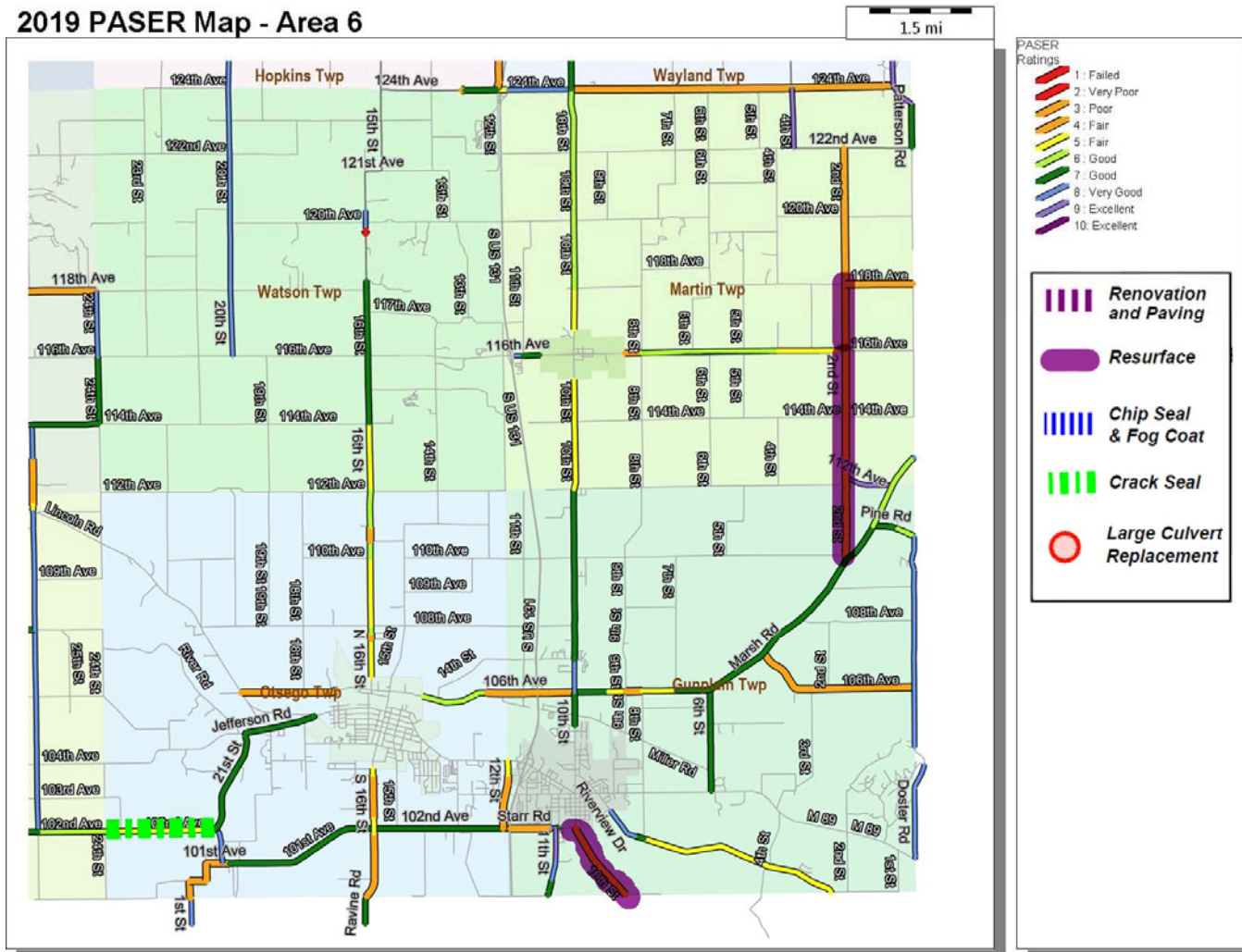
1.5 mi



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2020 PROPOSED PROJECTS – AREA 6

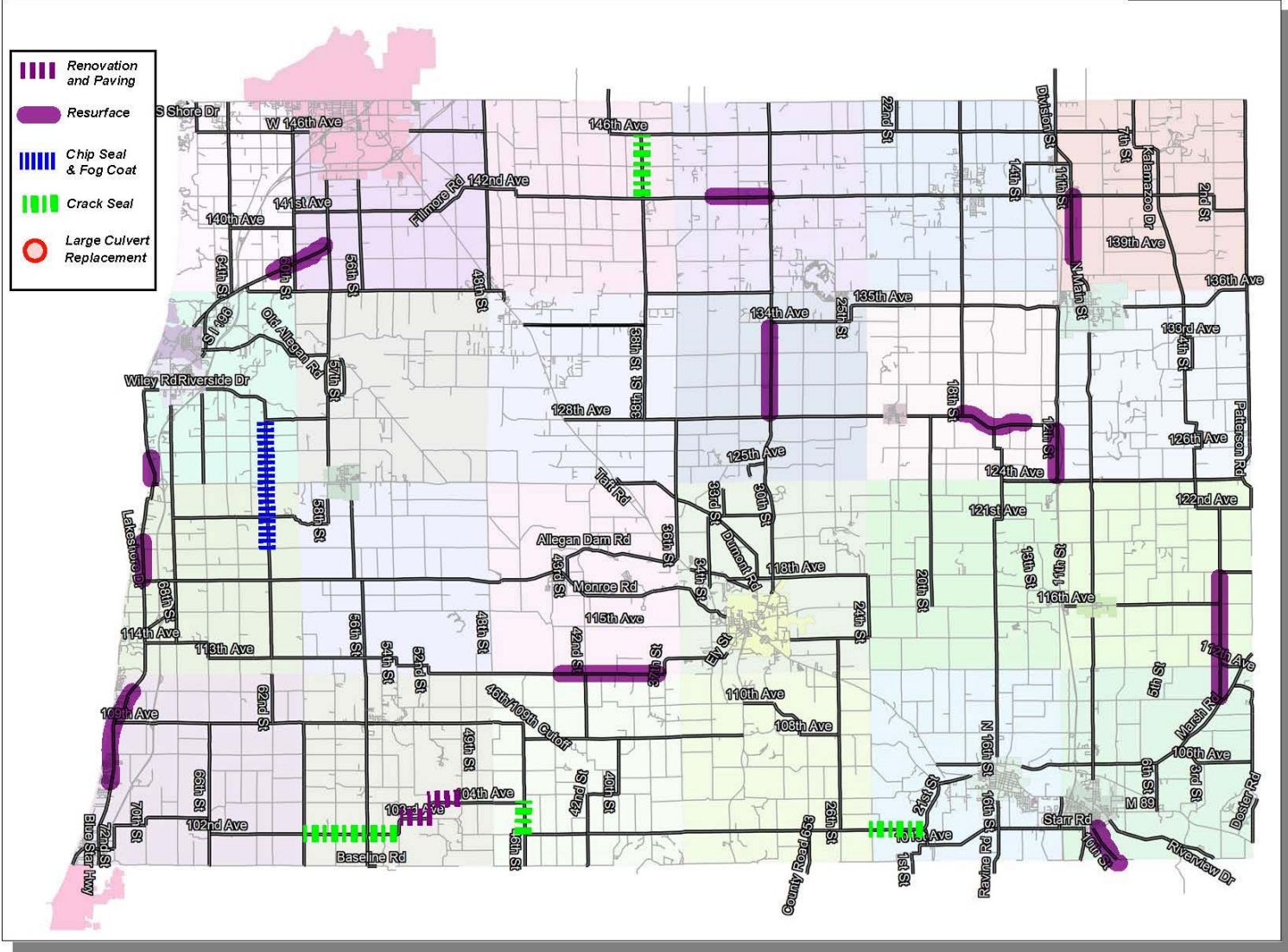
2019 PASER Map - Area 6



Allegheny County Primary - 2020 Proposed Projects

3.5 mi

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



**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 126th Avenue	Resurface, HMA 4E1 - 220 #/syd	1.03	\$175,000.00		\$175,000.00
	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	\$400,000.00	ACRC (MTF) \$400,000.00	\$800,000.00
	Saugatuck	62nd Street, 124th Avenue to 128th Avenue	Chip Seal & Fog Coat	1.97	\$55,000.00		\$55,000.00
SUB-TOTAL AREA 1				5.00	\$630,000.00	\$400,000.00	\$1,030,000.00
2	Monterey	30th Street, 128th Avenue to 134th Avenue	Mill and Resurface, HMA 4E1 - 220 #/syd	3.01	\$525,000.00		\$525,000.00
	Salem	142nd Avenue, 34th Street to 30th Street	Mill and Resurface, HMA 4E1 - 220 #/syd	1.99	\$350,000.00		\$350,000.00
	Overisel	38th Street, 142nd Avenue to 146th Avenue	Crack Seal	2.01	\$16,000.00		\$16,000.00
SUB-TOTAL AREA 2				7.01	\$891,000.00	\$0.00	\$891,000.00
3	Hopkins	128th Avenue, 18th Street to 14th Street - Carried from 2019	Mill and Resurface, HMA 4E1 - 275 #/syd	2.13	\$95,000.00	Federal - Safety \$600,000.00	\$695,000.00
	Leighton	Division Street, 138th Avenue to 142nd Avenue	Crush, Shape, and Resurface, HMA 4E1 - 220 #/syd leveling & HMA 4E1 - 220 #/syd top	2.00	\$400,000.00	ACRC (MTF) \$400,000.00	\$800,000.00
	Hopkins & Wayland	12th Street, 124th Avenue to 128th Avenue	Mill and Resurface, HMA 4E1 - 220 #/syd	1.76	\$290,000.00	Hopkins (PS) \$30,000.00 Wayland (PS) \$30,000.00	\$350,000.00
SUB-TOTAL AREA 3				5.89	\$785,000.00	\$1,060,000.00	\$1,845,000.00

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

AREA	TOWNSHIP	PROJECT LOCATION	TYPE OF WORK	MILES	MILLAGE FUND COSTS	TOWNSHIP & OTHER CONTRIBUTIONS	TOTAL COSTS
4	Ganges	Lakeshore Drive, 118th Avenue to 121st Avenue - Carried from 2019	Resurface, HMA 4E1 - 275 #/syd	1.31	\$220,000.00	Ganges \$30,000.00	\$250,000.00
	Casco	Blue Star Highway, 300' south of A Street to 500' north of 111th Avenue - Carried from 2019	Crush, Shape, and Refurface, HMA 4E1 leveling course - 220 #/syd, HMA 4E1 top course - 220 #/syd	3.22	\$0.00	Federal State D \$1,164,008.00 \$291,000.00	\$1,455,008.00
	Lee	103rd Avenue/52nd Street/104th Avenue, 54th Street to 1,000' west of 50th Street	Renovate, Crush, Shape, and Resurface, HMA 4E1 - 220 #/syd leveling & HMA 4E1 - 220 #/syd top	2.00	\$830,000.00	Lee (REN) \$70,000.00 ACRC (MTF) \$450,000.00	\$1,350,000.00
	Ganges	62nd Street, 120th Avenue to 124th Avenue	Chip Seal & Fog Coat	2.07	\$55,000.00		\$55,000.00
	Lee	102nd Avenue, 60th Street to 54th Street	Crack Seal	3.00	\$18,000.00		\$18,000.00
SUB-TOTAL AREA 4				11.60	\$1,123,000.00	\$2,005,008.00	\$3,128,008.00
5	Cheshire & Valley	112th Avenue, 44th Street to 37th Street	Resurface, HMA 4E1 - 275 #/syd, geogrid in peat areas	3.50	\$680,000.00	Cheshire (PS) \$60,000.00 Valley (PS) \$60,000.00	\$800,000.00
	Cheshire	46th Street - 102nd Avenue to 104th Avenue (west)	Crack Seal	1.00	\$6,000.00		\$6,000.00
SUB-TOTAL AREA 5				4.50	\$686,000.00	\$120,000.00	\$806,000.00
6	Gun Plain	Douglas Avenue (10th Street), Baseline Road to Starr Road - Carried from 2019	Crush, Shape, and Refurface, HMA 4E1 leveling course - 220 #/syd, HMA 4E1 top course - 220 #/syd	1.24	\$450,000.00		\$450,000.00
	Gun Plain & Martin	2nd Street, Marsh Road to 118th Avenue	Mill and Resurface, HMA 4E1 - 220 #/syd	4.11	\$700,000.00	Gun Plain (PS) \$25,000.00 Martin (PS) \$50,000.00	\$775,000.00
	Otsego	102nd Avenue, 24th Street to 21st Street	Crack Seal	1.50	\$9,000.00		\$9,000.00
SUB-TOTAL AREA 6				6.85	\$1,159,000.00	\$75,000.00	\$1,234,000.00
GRAND TOTAL				40.85	\$5,274,000.00	\$3,660,008.00	\$8,934,008.00

AREA FUND BALANCES

2019 Preliminary Balances

Area	Final 2018 Balances	Preliminary Revenues	Preliminary Expenses	Preliminary 2019 Balance
1	\$303,573.63	\$595,507.29	\$786,713.68	\$112,367.24
2	\$151,621.28	\$595,507.29	\$521,128.56	\$226,000.01
3	\$79,909.74	\$595,507.29	\$486,156.36	\$189,260.67
4	\$336,699.66	\$595,507.29	\$292,740.29	\$639,466.66
5	\$246,236.70	\$595,507.29	\$746,987.59	\$94,756.40
6	\$260,518.96	\$595,507.29	\$250,798.87	\$605,227.38
Totals	\$1,378,559.96	\$3,573,043.73	\$3,084,525.35	\$1,867,078.34

2020 Estimated Balances

Area	Preliminary 2019 Balances	Estimated Revenues	Estimated Expenses	Estimated 2020 Balance
1	\$112,367.24	\$580,000.00	\$630,000.00	\$62,367.24
2	\$226,000.01	\$580,000.00	\$891,000.00	-\$84,999.99
3	\$189,260.67	\$580,000.00	\$785,000.00	-\$15,739.33
4	\$639,466.66	\$580,000.00	\$1,123,000.00	\$96,466.66
5	\$94,756.40	\$580,000.00	\$686,000.00	-\$11,243.60
6	\$605,227.38	\$580,000.00	\$1,159,000.00	\$26,227.38
Totals	\$1,867,078.34	\$3,480,000.00	\$5,274,000.00	\$73,078.34

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

AREA	TOWNSHIP	PROJECT LOCATION	TYPE OF WORK	MILES	MILLAGE FUND COSTS	TOWNSHIP & OTHER CONTRIBUTIONS	TOTAL COSTS
1	Saugatuck	66th Street, M-89 to Village of Douglas Limits	Resurface, HMA 4E1 - 275 #/syd	2.84	\$400,000.00	Saugatuck (PS) \$100,000.00	\$500,000.00
	Laketown	64th Street, 142nd Avenue to 32nd Street	Mill and Resurface, HMA 4E1 - 220 #/syd	2.97	\$550,000.00		\$550,000.00
	All	63rd Street & 136th Avenue, Blue Star Highway to 58th Street (2022)	Resurface, HMA 4E1 - 220 #/syd	2.79	\$100,000.00	MACC-Urban \$300,000.00	\$400,000.00
	Fillmore & Manlius	136th Avenue, 58th Street to 50th Street (2023)	Resurface, HMA 4E1 - 220 #/syd	4.00	\$300,000.00	MACC-Urban \$400,000.00	\$700,000.00
SUB-TOTAL AREA 1				12.60	\$1,350,000.00	\$800,000.00	\$2,150,000.00
2	Salem & Monterey	30th Street, 134th Avenue to Ottogan Street (2021)	Mill and Resurface, HMA 4E1 - 275 #/syd	6.91	\$350,000.00	Federal \$1,100,000.00	\$1,450,000.00
	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				7.83	\$550,000.00	\$1,100,000.00	\$1,650,000.00
3	Hopkins	128th Avenue, Hopkins Village Limits to 18th Street	Mill and Resurface, HMA 4E1 - 275 #/syd	1.74	\$375,000.00		\$375,000.00
	Leighton	Division Street, 142nd Avenue to 1,000' south of 146th Avenue	Crush, Shape, and Resurface HMA 4E1 - 440 #/syd (2 courses)	2.02	\$800,000.00		\$800,000.00
	Wayland	4th Street, 133rd Avenue to 135th Avenue	Renovate, Crush, Shape, and Resurface HMA 4E1 - 440 #/syd (2 courses)	1.02	\$390,000.00	Wayland (REN) \$35,000.00 Wayland (PS) \$25,000.00	\$450,000.00
SUB-TOTAL AREA 3				4.78	\$1,565,000.00	\$60,000.00	\$1,625,000.00
4	Ganges	Lakeshore Drive, 121st Avenue to M-89	Renovate, Crush, Shape, and Resurface HMA 4E1 - 440 #/syd (2 courses)	1.85	\$645,000.00	Ganges (REN) \$65,000.00 Ganges (PS) \$50,000.00	\$760,000.00
	Ganges	62nd Street, 116th Avenue to 120th Avenue	Resurface, HMA 4E1 - 275 #/syd	1.99	\$350,000.00	Ganges (PS) \$50,000.00	\$400,000.00
SUB-TOTAL AREA 4				3.84	\$995,000.00	\$165,000.00	\$1,160,000.00

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

AREA	TOWNSHIP	PROJECT LOCATION	TYPE OF WORK	MILES	MILLAGE FUND COSTS	TOWNSHIP & OTHER CONTRIBUTIONS	TOTAL COSTS
5	Allegan	118th Avenue, Industrial Drive to 24th Street	Renovate and Resurface HMA 4E1 - 220 #/syd	2.60	\$400,000.00	Allegan (REN) \$91,000.00 Allegan (PS) \$65,000.00	\$556,000.00
	Allegan	34th Street, Babylon Road to Dumont Road	Resurface, HMA 4E1 - 220 #/syd	1.98	\$325,000.00		\$325,000.00
	Allegan	26th Street, M-89 to 114th Avenue (2023)	Resurface, HMA 4E1 - 220 #/syd	1.26	TBD	Small Urban TBD	\$0.00
	Allegan	Monroe Road, Grove Street to M-40 (2023)	Resurface, HMA 4E1 - 220 #/syd	1.37	TBD	Small Urban TBD	\$0.00
SUB-TOTAL AREA 5				7.21	\$725,000.00	\$156,000.00	\$881,000.00
6	Gun Plain	Pierce Road & 106th Ave, Marsh Road to Doster Road	Resurface, HMA 4E1 - 220 #/syd	2.47	\$385,000.00	Gun Plain (PS) \$65,000.00	\$450,000.00
	Otsego	16th Street, 102nd Avenue to Otsego City Limits (2021)	Resurface, HMA 4E1 - 220 #/syd	0.82	TBD	Small Urban TBD	\$0.00
	Otsego	12th Street, 102nd Ave to M-89 (2021)	Resurface, HMA 4E1 - 220 #/syd	1.00	TBD	Small Urban TBD	\$0.00
	Gun Plain	106th Avenue & Marsh Rd, 10th Street to County Line (2022 or 2023)	Resurface, HMA 4E1 - 220 #/syd	6.68	\$400,000.00	Federal \$805,200.00 State D \$173,039.00	\$1,378,239.00
	Otsego	106th Avenue, M-89 to Otsego City Limits	Renovate, Crush, Shape, and Resurface HMA 4E1 - 440 #/syd (2 courses)	1.43	\$600,000.00	Otsego (REN) \$50,000.00 Otsego (PS) \$60,000.00	\$710,000.00
SUB-TOTAL AREA 6				12.40	\$1,385,000.00	\$1,153,239.00	\$2,538,239.00
GRAND TOTAL				48.66	\$6,570,000.00	\$3,434,239.00	\$10,004,239.00