

2021 PRIMARY ROAD 5-YEAR ROAD PRIORITY LIST
 January 20, 2021
PASER ROAD RATING SYSTEM

ROAD RATING	SUGGESTED REPAIR	COST PER MILE
10	No maintenance necessary. New Road.	\$ 0
9	No maintenance necessary. Smooth surface.	\$ 0
8	Crack filling or shoulder patching.	\$ 700
7	General crack sealing and/or minor patching.	\$ 2,700
6	Patching and sealcoat. Micro-surface Ultra-thin Asphalt	\$ 24,000 or \$ 35,000 or \$ 95,000
5	Asphalt wedging only Asphalt wedging and sealcoat. Asphalt wedging and ultra-thin asphalt 1-1/2" Asphalt Cap	\$ 40,000 \$ 64,000 \$ 119,000 \$ 105,000
4	Asphalt cap.	\$ 160,000
3	Pulverize, gravel and pave. Surface poor. Cold-in-Place with ultra-thin	\$ 290,000 \$ 250,000
2	Reconstruction. Very poor condition.	\$ 360,000 +/-
1	Reconstruction. Failed road surface.	\$ 360,000 +/-

PRIMARY ROADS

Revenue in 2020 was expected to be around \$6.6 million. The actual amount was \$6,196,767.54 which was more than \$80,000 less than 2019 and \$130,000 less than 2018. MTF revenues are estimated to be around \$6.7 million in 2021. For 2021, the Wilderness Park Drive fed-aid buyout project will be constructed. The Stutsmanville Road BIA project will be constructed as well. Cross Village Township is expected to reconstruct 0.60 miles of Lake Shore Drive in 2021 and West Traverse Township is expected to resurface Lake Road.

TOTAL PRIMARY 2021 INVESTMENT = \$ 2,300,000 (before preventative maintenance)

CATEGORIZATION OF PRIMARY HARD-SURFACED ROADS IN EMMET COUNTY

PASER RATING	ROAD NAME	LIMITS
10	Atkins Road Headlands Road Wilderness Park Dr.	From Division to McDougal for 0.50 miles From Central Ave. to Wilderness Park Dr. for 1.02 miles From Headlands west for 0.31 miles
9	Atkins Road N. Conway Road Larks Lake Road Mackinaw Highway Paradise Trail Pickerel Lake Road Pleasantview Road	From McDougal to City of Petoskey for 0.26 miles From Hathaway to Edwards for 2.30 miles From Stutsmanville then north for 1.10 miles From U.S.31 to Trailsend for 2.02 miles From U.S.31 to Gill for 0.62 miles From U.S.31 to Bellmer Road for 2.01 miles From Robinson to Wild Cherry for 6.00 miles

	Powers Road Resort Pike Road Robinson Road Robinson Road State Road	From Hathaway to Luce for 1.70 miles From U.S.31 to Intertown for 1.77 miles From State then west for 1.10 miles From W. Pellston then west for 2.12 miles From Stutsmanville to M-119 for 12.61 miles
8	Anderson Road Bellmer Road Brutus Road Clarion Street Click Road W. Conway Road Division Road Gill Road Graham Road Hathaway Road Horton Bay Road Howard Road Levering Road Levering Road Mackinaw Highway Mackinaw Highway McDougal Road McDougal Road Middle Road Mitchell Road Mitchell Road Pleasantview Road Powers Road Resort Pike Road Robinson Road Stutsmanville Road Van Road Wilderness Park Dr.	From Intertown to City limits for 1.25 miles From Pickerel Lake to Graham for 1.40 miles From Pleasantview to N. Conway for 2.21 miles From Howard to City of Petoskey for 0.09 miles From River to McDougal for 0.11 miles From M-119 to Heydey for 2.39 miles From Atkins then north for 1.44 miles From U.S.31 to Bike Trail for 0.03 miles From U.S.31 to Bellmer for 0.14 miles From Pleasantview to Kipp for 2.00 miles From Old U.S.31 to Charlevoix Co. for 1.43 miles From River to City of Petoskey for 0.08 miles From Lookout to Pleasantview for 6.58 miles From U.S.31 to Cheboygan Co. line for 2.51 miles From S.B. U.S.31 to N.B. U.S.31 for 0.03 miles From Trailsend to Village of Mackinaw for 0.49 miles From Atkins to Northmen Dr. for 0.25 miles From Atkins then south for 1.44 miles From State to M-119 for 3.30 miles From Boyer to Fletcher for 1.59 miles From Maxwell to Hopper for 4.09 miles From M-119 to Hathaway for 0.87 miles From Luce to U.S.31 for 1.83 miles From Morford to Intertown for 2.48 miles From M-119 to Church for 0.75 miles From Terpening to State for 3.48 miles From Larks Lake then west and south for 3.21 miles From Cecil Bay then west for 3.90 miles
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6	Bear River Road Blanchard Road Cecil Bay Road N. Conway Road Division Road Gill Road Gill Road Gill Cut-of Road Lake Road Larks Lake Road Larks Lake Road Lears Road Mackinaw Highway Mitchell Road Mitchell Road Mitchell Road Morford Road	From River to Sterly for 0.59 miles From Mitchell to Pickerel Lake for 0.97 miles From Gill to Wilderness Park for 3.66 miles From Edward to Brutus for 2.00 miles (Fed Buy-out) From U.S.31 then south for 0.16 miles From U.S.31 to Cecil Bay for 2.66 miles From U.S.31 to Paradise for 0.03 miles From Gill to Paradise for 0.02 miles From Harbor Springs limits to M-119 for 1.19 miles From Kaz then north for 0.47 miles From Melody to Van for 0.98 miles From Anderson to U.S.131 for 0.16 miles From Linsely to Paradise for 1.83 miles From Petoskey limits to Division for 0.75 miles From Division to Boyer for 1.00 mile From S. Fletcher to Maxwell for 2.98 miles From Lake Grove to Resort Pike for 0.82 miles

	Pennsylvania Ave. Pickerel Lake Road Pleasantview Road Reed Road Resort Pike Road Robinson Road Robinson Road Robinson Road Schmalzried Road Sturgeon Bay Tr. Stutsmanville Road Van Road	From City of H.S. to Beach Dr. for 0.68 miles From Channel to Blanchard for 1.50 miles From Quick to Wild Cherry for 1.50 mile From Levering to Schmalzried for 1.98 miles From Lake Grove to Morford for 1.88 miles From S. Pleasantview then east for 2.72 miles From Church then east for 2.84 miles From Cheboygan Co. line to E. Pellston for 1.99 miles From Reed to U.S.31 for 0.78 miles From Valley to Pleasantview for 0.52 miles From M-119 to Terpening for 1.10 miles From Larks Lake then south for 0.24 miles
5	W. Conway Road Gill Road Intertown Road Larks Lake Road Larks Lake Road Larks Lake Road Levering Road Mackinaw Highway Mitchell Road Pleasantview Road Quick Road River Road State Road Stutsmanville Road Van Road	From U.S.31 to Heydey for 0.12 miles From Lakeview to Elder for 1.25 miles From Resort Pike to U.S.131 for 1.38 miles From Van to Kaz for 0.25 miles From 0.47 miles north of Kaz to Division for 1.47 miles From Robinson to Melody for 2.00 miles From State to Lookout for 1.60 miles From U.S.31 to Linsley for 0.47 miles From Hopper to the Cheb. Cty. Line for 2.82 miles From Hathaway to Quick for 1.01 miles From Pleasantview to State for 3.68 miles From Bear River to Howard for 4.97 miles From Harbor Springs limits to Lacount for 2.92 miles From State to Welsheimer for 1.60 miles (BIA) From Pleasantview to Nichols for 0.50 miles
4	Beach Road Brutus Road Brutus Road N. Conway Road Ellsworth Road E. Hathaway Road Horton Bay Road Lakeview Road Larks Lake Road Larks Lake Road Maxwell Road McDougal Road Miller Road Paradise Trail Pickerel Lake Road Stutsmanville Road Van Road Wilderness Park Dr. Wildwood Road	From M-119 then south for 0.69 miles From Sunny Ridge to U.S.31 for 2.52 miles (BIA) From U.S.31 to Brill for 2.46 miles From U.S.31 to Hathaway for 0.97 miles From Pickerel Lake then south for 0.27 miles From N. Conway to Kipp for 0.51 miles From U.S.31 to Old U.S.31 for 0.19 miles From West Bliss to Gill for 1.81 miles From Robinson then south for 0.06 miles From Division to Levering for 0.97 miles From Taylor to Newson for 1.30 miles From Click then north for 0.57 miles From Banwell to M-68 for 2.33 miles From Gill to Mackinaw Highway for 2.48 miles From Bellmer to then east for 0.51 miles From Welsheimer to Hedrick for 1.97 miles (BIA) From U.S.31 to Cheboygan Co. line for 2.53 miles From 3.99 miles w. of Cecil Bay then west for 0.34 miles From Twildo to Boyer Hill for 1.00 miles
3	Banwell Road Beach Road Brutus Road Ellsworth Road Gill Road	From Alanson to Pickerel Lake for 5.92 miles From Pennsylvania then east for 2.41 miles From N. Conway to Sunny Ridge for 1.94 miles (BIA) From Mitchell then north for 1.31 miles From Cecil Bay then west for 0.99 miles

	Larks Lake Road Levering Road Maxwell Road Maxwell Road Pennsylvania Ave. Pickerel Lake Road Pickerel Lake Road Pleasantview Road Pleasantview Road Robinson Road Sturgeon Bay Trail Stutsmanville Road Van Road Wilderness Park Dr. Wildwood Road	From Zulski to Beckon for 0.50 miles From Ball to Pleasantview for 2.93 miles (Fed Buy-out) From Bear River to Taylor for 1.23 miles From Newson to Greenwood for 1.24 miles From Beach Dr. to Fern for 0.27 miles From Channel then west for 0.98 miles From Blanchard to Banwell for 4.70 miles From Garber then north and west for 1.11 miles From Robinson to Levering for 5.40 miles From Pleas. to Larks Lake for 2.39 miles (BIA) From Lakeshore to Valley for 3.78 miles From Pleasantview to Hedrick for 1.02 miles (BIA) From Reed to Pleasantview for 3.95 miles From west end then east for 1.09 miles From Mitchell to Twildo for 1.67 miles
2	Gill Road Lake Shore Drive Lakeview Road Levering Road Maxwell Road Pleasantview Road Pleasantview Road Pleasantview Road Robinson Road Van Road Van Road Van Road Wilderness Park Dr.	From Pleasantview then east for 0.93 miles From State to Sturgeon Bay Tr. for 4.82 miles (0.60, 4.22) From Lake Shore to West Bliss for 1.14 miles From U.S.31 to Ball for 1.54 miles (Fed Buy-out) From Greenwood to Mitchell for 2.49 miles From Sturgeon Bay to Gill for 1.49 miles From Sturgeon Bay then east and south for 0.49 miles From Levering to Garber for 2.00 miles From Larks Lake to State for 4.54 miles (BIA) (3.00, 1.54) From State then east and north for 1.63 miles From Pleasantview then west for 3.49 miles From Reed to U.S.31 for 0.45 miles From 1 st Beach to Cecil Bay for 3.30 miles (0.95, 2.35)
1	None	-

2021 MILEAGE BREAKDOWN OF PRIMARY ROAD RATINGS

PASER RATING	# OF MILES	AVERAGE REPAIR COST	TOTAL
10	1.83	\$ 0	\$ 0
9	33.61	0	0
8	49.37	700	34,559
7	0.00	2,700	0
6	38.00	24,000	912,000
5	26.04	40,000	1,041,600
4	23.48	160,000	3,756,800
3	44.83	290,000	13,000,700
2	28.31	360,000	10,191,600
1	0.00	360,000	0

TOTAL HARD-SURFACED PRIMARY MILES = 245.47

TOTAL COST = \$ 28,937,259

2021 AVERAGE PRIMARY ROAD RATINGS = 5.54

(2020 = 5.32, 2019 = 5.17, 2018 = 4.96, 2017 = 5.25, 2016 = 4.85, 2015 = 4.76, 2014 = 4.91, 2013 = 4.88, 2012 = 4.92, 2011 = 4.84, 2010 = 4.96, 2009 = 5.29, 2008 = 5.68, 2007 = 6.07)

2021 PRIMARY ROAD SUGGESTED 5-YEAR ROAD REPAIR LIST

2021 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS
7	\$ 2,700	0.00	TBD	Not known yet
6	95,000	1.19	\$ 15,491	Lake (1.19)*
5	40,000	1.60	BIA	Stutsmanville (1.60)**
4	160,000	1.97	BIA	Stutsmanville (1.97)**
3	290,000	1.02	\$ 120,000	Stutsmanville (1.02)**
2	360,000	8.80	\$ 389,700	Lake Shore (0.60)***, Lake Shore (4.22)1, Van (1.63)1, Wilderness Park (2.35)2

14.58 miles COST = \$ 525,191.00

*West Traverse Twp.
 ** BIA Project
 *** Cross Village Twp.
 1 Asphalt Wedging
 2 Fed-aid Buy-out

2022 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS
3	\$ 290,000	2.93	\$ 75,000	Levering (2.93)*
2	\$ 360,000	2.49	\$ 125,000	Levering (1.54)*, Wilderness Park (0.95)**

5.42 miles COST = \$ 200,000.00

*Fed-aid Buyout
 **BIA / Wawatam Twp.

2023 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS
6	\$ 24,000	2.00	\$ 110,000	N. Conway (2.00)*
3	\$ 270,000	2.39	BIA	Robinson (2.39)**
2	\$ 360,000	3.00	BIA	Robinson (3.00)**

7.39 miles COST = \$ 110,000.00

*Fed-aid Buyout
 ** BIA Project

2024 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS
3	\$ 270,000	1.94	BIA	Brutus (1.94)*
2	\$ 360,000	1.54	BIA	Robinson (1.54)*

3.48 miles COST = \$ 0.00

*BIA Project

2025 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS
5	\$ 132,000	2.52	BIA	Brutus (2.52)*

2.52 miles COST = \$

*BIA

Other than Crack Seal in 2020, the above list only includes projects that are programmed either through MDOT, the federal-aid process, or through the BIA. I have not included any maintenance projects (sealcoat, asphalt wedging), since State revenue cannot be reliably predicted at this time.

ESTIMATED MILEAGE AND COSTS FOR NEXT FIVE YEARS

<u>YEAR</u>	<u>MILES</u>	<u>COST</u>
2021	14.58	\$ 525,191
2022	5.42	\$ 200,000
2023	7.39	\$ 110,000
2024	3.48	\$ Not known yet
2025	2.52	\$ Not known yet
TOTALS	33.39	\$ 835,191