

2022 RESORT TOWNSHIP 5-YEAR ROAD PRIORITY LIST
 Revise February 4, 2022
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.	\$ 2,600
6	Patching and sealcoat Micro-surface Ultra-Thin Asphalt	\$ 28,000 or \$ 35,000 or \$ 85,000
5	Asphalt wedging only Asphalt wedging and sealcoat Asphalt wedging and ultra-thin asphalt 1-1/2" Asphalt Cap	\$ 55,000 or \$ 83,000 or \$ 140,000 or \$ 110,000
4	Asphalt wedge and cap or heavy cap.	\$ 170,000
3	Pulverize, gravel and pave. Surface poor. Cold-in-Place with ultra-thin	\$ 280,000 \$ 250,000
2	Reconstruction. Very poor condition.	\$ 400,000 +/-
1	Reconstruction. Failed road surface.	\$ 400,000 +/-

RESORT TOWNSHIP

Resort Township has not assessed the 1 Mil approved by the voters for road improvements. The township has spent around \$600,000 per year in the past. Resort spent the allocation in 2021. The 2022 allocation amount for each township is \$16,952. Resort is set to receive \$289,409 in ARPA funds. The MTA has indicated those funds can be used for road improvements. Therefore, the money available in 2022 is around \$1,000,000 which includes the \$100,000+ funds left over from 2020 and 2021.

TOTAL 2022 AVAILABLE ROAD INVESTMENT = \$1,000,000
 TOTAL 5-YEAR ROAD EXPENSE - \$3,464,000

CATEGORIZATION OF HARD-SURFACED ROADS IN RESORT TOWNSHIP

PASER RATING	ROAD NAME	LIMITS
10	Eppler Road	From Intertown to Sheridan for 1.50 miles
9	Parkview Drive Resort Pike Road	From U.S.31 then south for 0.03 miles From Intertown to U.S.31 for 1.77 miles
8	Blackbird Road Blackbird Road Cemetery Road Depew Road Eppler Road Hemlock Lane Indian Garden Road Intertown Road	From U.S.31 then south for 0.93 miles From Lake Grove to Intertown for 2.48 miles From Intertown to Hillcrest for 1.18 miles From Lake Grove to Resort Pike for 0.54 miles From U.S.31 to Sheridan for 0.38 miles From Resort Pike then east for 0.66 miles From Wooden Landing then south and west for 1.31 miles From Resort Pike to Blackbird for 0.50 miles

	Kalchick Road Kiebel Road Kilarney Shores Lake Grove Road Martinchek Road Mason Road Old U.S.31 Old U.S.31 School Road School Road Sheridan Road Sterzik Road Tor Lane Townline Road Townsend Road	From Blackbird then west for 0.28 miles From Townsend to Lake Grove for 0.50 miles From Indian Garden then east and north for 0.55 miles From Depew to U.S.31 for 4.62 miles From Townline to Camp Daggett for 1.88 miles From U.S.31 then south for 0.24 miles From Townsend then west for 0.22 miles From U.S. 31 then southeast for 0.23 miles From Resort Pike to Blackbird for 0.51 miles From Blackbird then west for 0.37 miles From Eppler to Cemetery for 0.49 miles From 0.37 mi. west of Resort Pike then west for 0.33 miles From Eppler then west for 0.22 miles From Martinchek then south for 0.63 miles From Walloon Lake to Manthei for 1.20 miles
7	Cemetery Road Cemetery Road Horton Bay Road Indian Garden Road Indian Garden Road Lake Grove Road	From Williams to Intertown for 0.99 miles From Hillcrest to Sheridan for 0.32 miles From Stolt to Martinchek for 1.01 miles From Kilarney Shores to Wooden Landing for 1.17 miles From S. Resort Pike then east for 0.99 miles From Resort Pike to Depew for 1.93 miles
6	Camp Daggett Road Country Lane Deere Drive Hillcrest Road Indian Garden Road Mini Drive Old U.S.31 Parkview Drive Skyview Street Sterzik Road Sterzik Road Stolt Road Townsend Road	From Stolt to U.S.31 for 1.67 mile From Parkview to Parkview for 0.39 miles From Williams to Resort Pike for 0.69 miles From Vantage View to Vantage View for 0.25 miles From Resort Pike to Kilarney Shores for 0.60 miles From Parkview to Country for 0.15 miles From Camp Daggett then east for 0.75 miles From Mini to Blackbird for 0.18 miles From Vantage View to Vantage View for 0.25 miles From Resort Pike then west for 0.38 miles From Resort Pike to Eppler for 0.49 miles From Walloon Lake then west for 0.14 miles From Manthei to U.S.31 for 0.77 miles
5	Intertown Road Resort Pike Road Williams Road Woodland Drive	From Cemetery to Resort Pike for 0.99 miles From Intertown to Lake Grove for 4.36 miles From Cemetery to Resort Pike for 1.00 mile From Greenfield for entire loop for 0.40 miles
4	Greenfield Drive Horton Bay Road Hunters Ridge Intertown Road Lake View Trail Manthei Road Mayberry Hill Morford Road Overbay Drive Parkview Drive Sheridan Road Stump Road	From Blackbird to Woodland for 0.24 miles From U.S.31 to Martinchek for 0.61 miles From Resort Pike then east for 0.75 miles From Lake Grove to Blackbird for 1.00 mile From Lake Grove to Depew for 0.34 miles From Townsend then west for 0.78 miles From Blackbird to Terrier for 0.12 miles From Lake Grove to Resort Pike for 0.82 miles From Sheridan then north for 0.12 miles From U.S.31 to Mini for 0.30 miles From Resort Pike to Eppler for 0.55 miles From Lake Grove to Blackbird for 1.00 mile

	Terrier Lane Vantage View Drive Wooden Landing	From Mayberry to Parkview for 0.17 miles For entire loop for 0.53 miles From Indian Garden then north for 0.03 miles
3	None	-
2	Old U.S.31 Old U.S.31 Upper Bay Shore Rd.	From Upper Bay Shore to Horton Bay for 0.75 miles From Horton Bay to Camp Daggett for 0.90 miles From Townline to Old U.S.31 for 0.42 miles

2022 MILEAGE BREAKDOWN OF ROAD RATINGS FOR RESORT TOWNSHIP (all)

PASER RATING	# OF MILES	AVERAGE REPAIR COST	TOTAL
10	1.50	\$ 0	\$ 0
9	1.80	0	0
8	20.25	700	14,175
7	6.41	2,600	16,666
6	6.71	85,000	570,350
5	6.75	140,000	945,000
4	7.36	170,000	1,251,200
3	0.00	280,000	0
2	2.07	400,000	828,000

TOTAL HARD-SURFACED ROAD MILES = 52.85 miles

COST = \$ 3,625,391

2022 AVERAGE ROAD SURFACE RATING = 6.54

(21' = 6.69, 20' = 6.92, 19' = 6.85, 18' = 6.56, 17' = 6.70, 16' = 6.67, 15' = 6.44, 14' = 6.45, 13' = 6.56, 12' = 6.53, 11' = 6.70, 10' = 6.05, 09' = 5.64, 08' = 5.71, 07' = 5.88, 06' = 5.42, 05' = 5.24)

LOCAL ROAD BREAKDOWN

PASER RATING	# OF MILES	AVERAGE REPAIR COST	TOTAL
10	1.50	\$ 0	\$ 0
9	0.03	0	0
8	20.25	700	14,175
7	5.40	2,600	14,040
6	6.71	85,000	570,350
5	1.40	110,000	154,000
4	6.75	170,000	1,147,500
3	0.00	280,000	0
2	2.07	400,000	828,000

TOTAL HARD-SURFACED ROAD MILES = 44.11 miles

COST = \$ 2,728,065

2022 AVERAGE ROAD SURFACE RATING = 6.65

(21' = 6.58, 20' = 6.93, 19' = 6.77, 18' = 6.41, 17' = 6.67, 16' = 6.67, 15' = 6.54, 14' = 6.52, 13' = 6.66, 12' = 6.59, 11' = 6.74, 10' = 6.01, 09' = 5.34, 08' = 5.34, 07' = 5.38, 06' = 3.95, 05' = 4.98)

The goal of Asset Management is to allocate public resources in the most cost-effective manner. It should be our goal to bring our system into a good condition and to maintain the system in a good condition over the next 5 years. Our goal should be to improve the average ratings from the current 6.65 to a good condition. Good is considered to be 7 or better.

RESORT TOWNSHIP SUGGESTED 5-YEAR ROAD REPAIR LIST

2022 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS (miles)
8	\$ 170,000	0.22	\$ 46,400	Old 31 (0.22)*
6	\$ 110,000 \$ 170,000	2.92	\$ 549,700	Camp Daggett (1.67)**, Hillcrest (0.25)*, Old 31 (0.75)*, Skyview (0.25)*
4	\$ 170,000	0.53	\$ 126,100	Vantage View (0.53)**

TOTAL PROJECTED 2022 EXPENSE = \$ 722,200 *1-1/2" asphalt cap
 **2" asphalt cap

2023 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS (miles)
7	\$ 2,600	6.41	\$ 16,666*	Cemetery (0.99), Cemetery (0.32), Horton Bay (1.01), Indian Garden (1.17), Indian Garden (0.99), Lake Grove (1.93)
6	\$ 85,000	3.02	\$ 256,700	Country Lane (0.39), Deere (0.69), Indian Garden (0.60), Mini (0.15), Parkview (0.18), Sterzik (0.38), Sterzik (0.49), Stolt (0.14)
5	\$ 110,000	1.40	\$ 154,000	Williams (1.00), Woodland (0.40)
4	\$ 170,000	1.83	\$ 261,300	Greenfield (0.24)**, Intertown (1.00), Mayberry (0.12)**, Parkview (0.30)**, Terrier (0.17)**

TOTAL PROJECTED 2023 EXPENSE = \$ 672,000 *Road Commission
 **1-1/2" asphalt cap

2024 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS (miles)
4	\$ 170,000	3.57	\$ 606,900	Hunters Ridge (0.75), Lake View Tr. (0.34), Manthei (0.78), Overbay (0.12), Sheridan (0.55), Stump (1.00), Wooden (0.03)

TOTAL PROJECTED 2024 EXPENSE = \$ 606,900

2025 REPAIRS

RATING	PER MILE	# MILES	COST	SELECTED ROADS (miles)
2	\$ 400,000	2.07	\$ 828,000	Old 31 (0.75), Old 31 (0.90), Upper Bay Shore (0.42)

TOTAL PROJECTED 2025 EXPENSE = \$ 828,000

2026 REPAIRS

Gravel or primary road construction

TOTAL PROJECTED 5-YEAR COST

2022	\$ 722,200
2023	\$ 672,000
2024	\$ 606,900
2025	\$ 828,000
2026	Primary or gravel road repair

TOTAL = \$ 2,934,900

The Asset Management process concentrates resources on roads that are relatively easy to maintain then allows resources to be expended on more expensive roads. The above scenario repairs all of the local roads in the township in the next 4 years. This does not take into account the roads that fall further into disrepair from their current rating.