



Aitkin
County

Board of County Commissioners Agenda Request

4A
Agenda Item #

Requested Meeting Date: 8-23-22

Title of Item: 2023 Budget Presentation

<input checked="" type="checkbox"/> REGULAR AGENDA	Action Requested:	<input type="checkbox"/> Direction Requested
<input type="checkbox"/> CONSENT AGENDA	<input type="checkbox"/> Approve/Deny Motion	<input checked="" type="checkbox"/> Discussion Item
<input type="checkbox"/> INFORMATION ONLY	<input type="checkbox"/> Adopt Resolution (attach draft)	<input type="checkbox"/> Hold Public Hearing* <i>*provide copy of hearing notice that was published</i>

Submitted by: John Welle	Department: Highway Department
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Presenter (Name and Title): John Welle, Aitkin County Engineer	Estimated Time Needed: 50 minutes
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Summary of Issue:
Attached are the detailed 2023 budget sheets for the Highway Department Budget including the Operations, Capital Equipment/Facilities, and Capital Infrastructure budgets. The proposed 2023-2027 Capital Facilities-Equipment plan and the 2023-2027 Capital Road Improvement Plan are also included. The budget will be summarized by a brief presentation.

Alternatives, Options, Effects on Others/Comments:
NA

Recommended Action/Motion:
Discussion only, for future action.

Financial Impact:
 Is there a cost associated with this request? Yes No
 What is the total cost, with tax and shipping? \$
 Is this budgeted? Yes No *Please Explain:*

2023 Highway Department Budget Summary

Revenue:

	2020 Actual	2021 Actual	Adopted 2022 Budget	2022 As of 5/31/2022	Proposed 2023 Budget
Operating	\$ 4,959,470	\$ 5,196,610	\$ 5,505,221	\$ 2,633,036	\$ 5,994,196
Capital Equipment/Facilities	\$ 516,400	\$ 547,885	\$ 576,000	\$ 576,000	\$ 577,300
Capital Infrastructure	\$ 6,032,164	\$ 4,439,677	\$ 4,023,600	\$ 1,248,281	\$ 7,930,200
Total:	\$ 11,508,034	\$ 10,184,172	\$ 10,104,821	\$ 4,457,317	\$ 14,501,696

Expenditures:

Operating	\$ 4,520,375	\$ 5,124,918	\$ 4,745,041	\$ 2,590,188	\$ 5,994,196
Capital Equipment/Facilities	\$ 787,050	\$ 911,937	\$ 576,000	\$ 794,739	\$ 577,300
Capital Infrastructure	\$ 6,016,514	\$ 6,345,450	\$ 4,023,600	\$ 190,038	\$ 7,930,200
Total:	\$ 11,323,939	\$ 12,382,305	\$ 9,344,641	\$ 3,574,965	\$ 14,501,696

2023 Highway Department Budget Levy Revenue Summary

	2020 Actual	2021 Actual	Adopted 2022 Budget	2022 As of 5/31/2022	Proposed 2023 Budget
Operating	\$ 1,337,007	\$ 1,223,681	\$ 1,310,691	\$ 208,729	\$ 1,788,321
Capital Equipment/Facilities	\$ 516,400	\$ 547,885	\$ 576,000	\$ 547,885	\$ 577,300
Capital Infrastructure	\$ 600,000	\$ 600,000	\$ 650,000	\$ 600,000	\$ 750,000
Total:	\$ 2,453,407	\$ 2,371,566	\$ 2,536,691	\$ 1,356,614	\$ 3,115,621
% Increase Over Previous Year's Budget:					22.82%

Highway Department Operations Budget Fund 003

Revenue:

	2020 Actual	2021 Actual	Adopted 2022 Budget	2022 As of 5/31/2022	Proposed 2023 Budget
5001 Current/Delinquent Taxes	1,356,950	1,223,681	1,310,691	208,729	1,788,321
5201 MV Credit MS Statute 273.1384		30,578	-	-	
5209 Disparity Aid Reduction		1,688	-	-	
5216 Taconite Credit		102,713	-	-	
5227 Twp Road Allotment Gas Tax	455,617	419,081	458,000	624,272	643,000
5233 State-aid: Regular Construction Funds	139,008	182,212	420,000	-	100,000
5234 State-aid: Municipal Construction Funds	46,798	2,492	10,000	-	-
5235 State-aid: Regular Maintenance Funds	2,229,073	2,022,687	2,212,320	1,217,897	2,474,000
5236 State-aid: Municipal Maintenance Funds	126,245	107,354	120,000	67,618	136,000
5251 In Lieu Apportionments and Receipts		22,514	-	2,765	
5330 State Grants - Disaster Funds	-	11,200	-	-	-
5425 Federal Grants - FEMA	-	31,241	-	-	-
5505 Culverts (Individual) Receipts	3,440	16,141	3,000	2,545	5,000
5507 Wetland Bank Credits	41,948	58,265	-	34,599	-
5517 Individual Receipts	23,552	22,963	13,500	62,547	17,800
5526 Township/City/Public Drainage Ditch Receipts	448,158	553,810	525,710	53,278	542,075
5840 Misc. Refunds and Reimbursements	75,398	134,086	335,000	349,498	158,000
5910 Transfer In	-	192,800	-	-	-
5920 Auction Receipts	13,283	28,218	5,000	9,288	10,000
5948 County Ditch/County Development Funds		32,885	92,000	-	120,000
Total Revenue:	\$ 4,959,470	\$ 5,196,610	\$ 5,505,221	\$ 2,633,036	\$ 5,994,196

Highway Department Operations Budget Fund 003

Department 301 (Administration) Expenditures:

	2020 Actual	2021 Actual	Adopted 2022 Budget	2022 As of 5/31/2022	Proposed 2023 Budget
6101 Salaries, Full Time	374,431	369,040	388,462	143,243	406,822
6108 Meals Reimbursed	11	22	100	-	100
6124 Medicare - Employer (1.45%)	5,104	5,121	5,633	1,974	5,899
6148 Employer Deductible Contribution- H.S.A.	12,040	11,040	11,040	4,600	11,040
6150 Health Insurance - Employer	50,272	46,653	50,098	20,874	56,699
6152 Life Insurance - Employer	322	372	372	155	372
6154 Long Term Disability - Employer	854	865	1,061	369	1,100
6159 PERA - Employer	26,185	25,677	27,168	10,358	28,156
6165 FICA - Employer (6.2%)	20,967	21,898	24,085	8,441	25,223
6171 Workers Compensation Insurance	3,981	8,832	4,172	4,172	4,380
6205 Postage	296	1,206	500	-	500
6240 Membership/Dues/Association Fees	3,111	3,396	3,200	2,665	3,200
6241 Meeting/Conference Registration Fee	1,642	10,924	1,500	2,085	2,000
6296 Meeting Expense/Physicals (INACTIVE 2022)	(64)	1,965	1,500	-	-
6300 Maintenance/Service Contracts	4,837	21,101	14,000	2,484	12,000
6330 Highway Travel	-	-	-	92	500
6332 Hotel/Motel Lodging	-	-	-	257	1,500
6339 Meals (Overnight)	-	-	-	105	200
6342 Office Equipment Rental/Contracts	-	-	-	1,319	4,000
6352 Insurance	51,620	57,099	49,427	48,954	51,400
6405 Office Supplies	7,558	9,509	6,000	2,953	8,000
6422 Janitorial Services/Supplies	-	149	-	47	500
6500 R&B Supplies & Materials	-	-	-	13	500
6900 Transfers to Other Funds	80,800	-	-	-	-
Total Administration Expenditures:	\$ 643,968	\$ 594,869	\$ 588,318	\$ 255,160	\$ 624,091

Highway Department Operations Budget Fund 003

Department 302 (Engineering) Expenditures:

	2020 Actual	2021 Actual	Adopted 2022 Budget	2022 As of 5/31/2022	Proposed 2023 Budget
6101 Salaries	351,590	334,532	397,504	148,410	423,542
6108 Meals Reimbursed	43	-	100	-	100
6109 Overtime	51,551	39,065	46,470	470	49,581
6124 Medicare - Employer (1.45%)	5,679	5,193	6,438	2,059	6,860
6148 Employer Deductible Contribution- H.S.A.	2,260	1,130	2,260	942	2,260
6150 Health Insurance - Employer	67,342	71,584	75,909	31,904	78,244
6152 Life Insurance - Employer	427	476	522	218	522
6154 Long Term Disability - Employer	900	896	1,140	444	1,217
6159 PERA - Employer	29,555	27,571	32,675	11,166	34,862
6165 FICA - Employer (6.2%)	24,142	22,205	27,527	8,803	29,335
6171 Workers Compensation Insurance	1,749	2,511	1,965	1,965	2,060
6181 Safety Footwear	525	559	725	189	725
6241 Registration Fee	-	-	-	299	3,000
6296 Meeting Expense/Physicals (INACTIVE 2022)	9,247	3,478	6,000	-	-
6300 Maintenance/Service Contracts	-	12,417	6,000	-	7,000
6330 Highway Travel	-	-	-	92	250
6332 Hotel/Motel Lodging	-	-	-	257	1,500
6339 Meals (Overnight)	-	-	-	39	250
6550 Engineering Supplies	5,327	10,692	6,000	5,136	8,000
Total Engineering Expenditures:	\$ 550,335	\$ 532,310	\$ 611,235	\$ 212,393	\$ 649,307

Highway Department Operations Budget Fund 003

Department 303 (Road Maintenance) Expenditures:

	2020 Actual	2021 Actual	Adopted 2022 Budget	2022 As of 5/31/2022	Proposed 2023 Budget
6101 Salaries, Full Time	1,034,736	1,052,604	1,198,262	453,331	1,272,268
6108 Meals Reimbursed	14	46	100	30	100
6109 Overtime	41,513	32,539	57,173	42,903	60,526
6124 Medicare - Employer (1.45%)	15,186	15,069	18,205	6,895	19,327
6148 Employer Deductible Contribution- H.S.A.	2,260	2,260	2,260	942	2,260
6150 Health Insurance - Employer	246,930	250,515	265,749	112,894	271,444
6152 Life Insurance - Employer	1,516	1,749	1,860	754	1,860
6154 Long Term Disability - Employer	2,749	2,822	3,439	1,317	3,645
6159 PERA - Employer	80,091	79,974	92,302	36,486	97,849
6165 FICA - Employer (6.2%)	64,193	64,436	77,835	29,484	82,633
6171 Workers Compensation Insurance	34,504	40,785	36,930	36,930	38,800
6181 Safety Footwear	2,530	2,203	2,610	1,094	2,610
6199 Employee Recognition		(225)	-	-	400
6220 Telephone		-	-	3,514	8,500
6241 Registration Fee		-	-	184	2,000
6254 Utilities - Gas & Electric	55,006	57,558	57,000	28,601	60,000
6296 Meeting Expense/Physicals (INACTIVE 2022)	772	2,740	2,500	-	
6352 Insurance	5,672	7,283	9,143	9,108	9,600
6360 Services, Labor, Contracts		-	-	41,423	38,000
6417 Shop Maintenance and supplies	49,502	63,044	55,000	43,780	60,000
6423 Fuel for Buildings	18,635	18,145	24,000	30,978	40,000
6514 Pavement Striping	51,961	48,076	63,000	-	58,275
6515 Culverts	98,695	82,540	60,000	-	90,000
6516 Signs and Posts	14,619	23,683	20,000	1,846	20,000
6517 Asphalt, Crack Sealant, Etc	49,722	47,747	73,000	44,165	55,000
6518 De-icing Salt	105,426	84,670	136,000	109,201	125,600
6519 Gravel & Royalty	51,012	285,782	170,000	192,268	210,000
6520 Calcium Chloride	311,517	438,158	522,000	-	693,500
6521 Maintenance Supplies (Road only)	40	322,938	340,500	6,034	10,500
6524 Winter Sand	33,855	8,580	10,000	-	10,000
6570 Motor Fuel and Lubricants	187,997	220,126	266,800	130,380	419,100
6590 Repair and Maintenance of Equipment	269,000	289,693	240,000	133,821	270,000
6825 Municipal Maintenance Agreements	40,804	33,119	42,000	-	44,000
6830 Twp Road Allotment Gas Tax	455,617	419,081	458,000	624,272	643,000
Total Road Maintenance Expenditures:	\$ 3,326,072	\$ 3,997,740	\$ 4,305,668	\$ 2,122,635	\$ 4,720,798
Grand Total Operations Expenditures:	\$ 4,520,375	\$ 5,124,918	\$ 5,505,221	\$ 2,590,188	\$ 5,994,196

Highway Department Capital Equipment and Facilities Budget Fund 308

	2020 Actual	2021 Actual	Adopted 2022 Budget	2022 As of 5/31/2022	Proposed 2023 Budget
Revenue:					
5001 Taxes, Aids, etc.	516,400	547,885	576,000	576,000	577,300
5840 Miscellaneous Receipts	-	-	-	-	-
5947 Transfer from Fund Balance			\$ -	\$ -	\$ -
Total Revenue:	\$ 516,400	\$ 547,885	\$ 576,000	\$ 576,000	\$ 577,300
Expenditures:					
6374 Auto & Trailer License		\$ 505		\$ 2,966	\$ -
6605 Capital Outlay - Facilities	156,631	803,397	90,000	33,608	120,000
6610 Capital Outlay - Equipment	630,419	108,036	486,000	758,165	457,300
Total Expenditures:	\$ 787,050	\$ 911,937	\$ 576,000	\$ 794,739	\$ 577,300

Highway Department Capital Infrastructure Budget Fund 307

	2020 Actual	2021 Actual	Adopted 2022 Budget	2022 As of 5/31/2022	Proposed 2022 Budget
Revenue:					
5001 Taxes, Aids, etc.	600,000	600,000	650,000	650,000	750,000
5230 State Park Funds	-	-	-	255,541	-
5231 State Aid - Town Bridge	-	-	50,000	-	485,300
5232 LRIP/LBRP Bonding	-	825,832	546,417	59,208	1,410,000
5233 State Aid - Regular Construction	5,078,460	2,754,515	1,883,910	170,466	3,219,900
5234 State Aid - Municipal Construction	131,196	11,919	-	113,066	-
5410 Federal Grants	217,513	195,804	399,090	-	1,820,000
5526 Township/City/Private Funds	-	-	48,300	-	140,000
5840 Misc Receipts	4,994	23,293	-	-	-
5947 Planned Use of Fund Balance	-	-	445,883	-	5,000
5948 County Ditch/County Development Funds	-	28,314	-	-	100,000
Total Revenue:	\$ 6,032,164	\$ 4,439,677	\$ 4,023,600	\$ 1,248,281	\$ 7,930,200
Expenditures:					
6230 Printing and Publishing	1,091	1,090	1,500	566	1,200
6262 Contract Payments	5,779,615	6,186,399	3,827,100	42,528	7,675,000
6269 Professional Services	189,007	65,916	20,000	47,804	106,000
6295 Utility Moves	17,790	62,611	-	-	40,000
6311 Transfer to Fund Balance	-	-	-	-	-
6362 Right of Way	29,011	29,434	175,000	99,140	108,000
Total Expenditures:	\$ 6,016,514	\$ 6,345,450	\$ 4,023,600	\$ 190,038	\$ 7,930,200

Notes: Revenue line item 5001 based on proposed 2023-2027 Capital Road Improvement Program average per year.

2023 Disbursements						2023 Receipts										Notes
Project	Printing and Publishing	Professional Services	Contract Payments	Utility Moves	Right of Way	Property Tax Revenue	Federal Transportation Funds	State Park Funds	State-aid Disaster Funds	Town Bridge Funds	LRRP/LRIP Funds	State-aid Regular Construction	State-aid Municipal Construction	Township/City/State/Other Funds		
2022 Projects																
S.P. 001-090-003			\$ 150,000				\$ 120,000							\$ 30,000	\$240,300 budgetted previous years	
C.P.001-076-002			\$ 70,000			\$ 70,000									\$680,300 budgetted previous years	
C.P. 001-77W-001			\$ 125,000			\$ 125,000										
2023 Projects																
S.A.P. 001-599-041															\$120,250 budgetted previous years	
S.A.P. 001-599-043	\$ 300	\$ 45,000	\$ 450,000							\$ 485,300				100000		
S.A.P. 001-605-016	\$ 300		\$ 950,000		\$ 4,000					\$ 410,000	\$ 544,300				\$50,000 budgetted previous years	
S.P. 001-611-003	\$ 300	\$ 10,000	\$ 3,560,000	\$ 40,000			\$ 1,700,000			\$1,000,000	\$ 910,300				\$205,000 budgetted previous years	
S.A.P. 001-631-003	\$ 300	\$ 5,000	\$ 680,000								\$ 663,300					
S.A.P. 001-640-003		\$ 10,000	\$ 930,000								\$ 940,000					
C.P. 001-062-004		\$ 5,000	\$ 455,000			\$ 480,000										
S.A.P. 001-030-008			\$ 150,000								\$ 150,000					
MnDOT Coop. Const. Agrmt. CH 54/56 Intersection		\$ 6,000	\$ 75,000			\$ 81,000										
C.P. 001-470-001			\$ 100,000											\$ 100,000		
Future Projects																
S.A.P 001-605-014															\$225,000 budgetted previous years	
S.A.P. 001-605-015															\$50,000 budgetted previous years	
S.A.P. 001-598-016					\$ 4,000	\$ 4,000									\$35,000 budgetted previous years	
CH 22 Bridge Replacement		\$ 10,000									\$ 10,000					
CH 62/71 Reconstruction		\$ 15,000			\$ 100,000	\$ 115,000										
Totals:	\$ 1,200	\$ 106,000	\$ 7,675,000	\$ 40,000	\$ 108,000	\$ 855,000	\$ 1,820,000	\$ -	\$ -	\$ 485,300	\$1,410,000	\$ 3,219,900	\$ -	\$ 140,000		

Notes: Total professional service expenditures/revenues for a given project are listed in first anticipated year of the expenditure.
Total right of way expenditures/revenues for a given project are listed in first anticipated year of the expenditure.
Total contract, utility move, and printing and publishing expenditures/revenue are all listed in anticipated year of contract letting.

Aitkin Area Maintenance Facility:

- constructed 1975
- addition constructed in 2000, 2020, salt shed 2012

DESCRIPTION	PROJ LIFE	2023	2024	2025	2026	2027	5 YEAR TOTAL	FUNDING SOURCE	COMMENTS
Shop Reconfiguration/Addition			100,000	100,000	100,000	100,000	400,000		To address shortage of bay length for trucks w/plows
Total:		\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 400,000		

Jacobson Area Maintenance Facility:

- constructed 1992

DESCRIPTION	PROJ LIFE	2023	2024	2025	2026	2027	5 YEAR TOTAL	FUNDING SOURCE	COMMENTS
							-		
Total:		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		

McGrath Area Maintenance Facility:

- constructed 1973
- new roof, siding, and insulation 2011

DESCRIPTION	PROJ LIFE	2023	2024	2025	2026	2027	5 YEAR TOTAL	FUNDING SOURCE	COMMENTS
Diesel Fuel Tank Replacement			40,000				40,000		Installed 1988
Total:		\$ -	\$ 40,000	\$ -	\$ -	\$ -	\$ 40,000		

McGregor Area Maintenance Facility:

- constructed 1974
- addition, new roof, siding, and insulation 2008

DESCRIPTION	PROJ LIFE	2023	2024	2025	2026	2027	5 YEAR TOTAL	FUNDING SOURCE	COMMENTS
Diesel Fuel Tank Replacement		45,000					45,000		Installed 1988
Replace Fabric Salt Shed Roof		5,000			16,000		0		
Total:		\$ 50,000	\$ -	\$ -	\$ 16,000	\$ -	\$ 45,000		

Palisade Area Maintenance Facility:

- constructed 2004

DESCRIPTION	PROJ LIFE	2023	2024	2025	2026	2027	5 YEAR TOTAL	FUNDING SOURCE	COMMENTS
Cold Storage Building		70,000					70,000		
Gate			5,000						\$50,000 budgetted in 2022
Total:		\$ 70,000	\$ 5,000	\$ -	\$ -	\$ -	\$ 70,000		

Swatara Area Maintenance Facility:

- constructed 2006

DESCRIPTION	PROJ LIFE	2023	2024	2025	2026	2027	5 YEAR TOTAL	FUNDING SOURCE	COMMENTS
Gate			5,000				5,000		
Total:		\$0	\$5,000	\$0	\$0	\$0	\$5,000		
Grand Total Capital Facilities:		\$120,000	\$150,000	\$100,000	\$116,000	\$100,000	\$560,000		

ADMIN
Aitkin County Highway Department

EQUIPMENT DESCRIPTION	SERIAL # MILEAGE	AQ. DATE AQ. COST	PROJ. LIFE	2023	2024	2025	2026	2027	5 YEAR TOTAL	FUNDING SOURCE
Unit #631 Office Desk - Maintenance Foreman		03/06/00 \$ 3,031.74	10							
Unit #632 Office Desk - Asst Maint. Foreman		03/06/00 \$ 2,323.78	10							
Unit #644 Computer - Maintenance Foremen		1/22/2020 \$ 867.00	4							
John's Laptop Surface Book 2 - 13.5" Display	420174254	12/28/17 \$ 2,089.07	4			2,000			2,000	
Unit #653 (Carol) Office Assistant Computer		1/22/2020 \$ 867.00	4			1,200			1,200	
Unit #657 (John) Engineer Computer		7/2/2018 \$ 1,376.00	4	1,300					1,300	
Unit #658 Maintenance Employees Computer #2		12/7/2016 \$ 910.00	4							
Unit #659 (Butch) Assistant Maint Supervisor Computer		12/7/2016 \$ 1,288.00	4							
Unit #661 Mechanic Computer		1/22/2020 \$ 867.00	4							
Unit #662 Maintenance Employees Computer #1		1/22/2020 \$ 867.00	4							
Unit #663 Aitkin Office Furniture		4/16/2021 \$ 60,966.81	20							
Unit #664 (Mike) Asst. Engineer Computer		05/21/21 \$ 1,699.00	4				1,800		1,800	
Unit #665 (Dave) ROW - Permitting Agent Computer		05/21/21 \$ 1,699.00	4				1,800		1,800	
Unit #666 (Sarah) Accountant Computer		5/21/2021 \$ 1,095.00	4				1,300		1,300	
Unit #785 NewRoads ACS Software		10/1/2013 \$ 9,084.38	30							
Sarah's Laptop Latitude 5511 - Dell	4TDRZ53	09/01/20 \$ 2,300.00	4							
Mike's Laptop Precision 7750 - Dell	B5BK063	09/01/20 \$ 3,410.00	4							
Carol's Laptop Latitude 5511 - Dell	2QDRZ53	09/01/20 \$ 2,300.00	4							
Conference Room Projector Panasaonic LCD Projector	GA0661968	06/30/21 \$ 2,500.00	4							
Total:				\$ 1,300	\$ -	\$ 3,200	\$ 4,900	\$ -	\$ 9,400	R&B levy

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Aitkin County Highway Department

EQUIPMENT DESCRIPTION	SERIAL # MILEAGE	AQ. DATE AQ. COST	PROJ. LIFE	2023	2024	2025	2026	2027	5 YEAR TOTAL	FUNDING SOURCE
Unit #13 2011 Polaris 500 Ranger ATV	4XARH50A6BB070008 2,323 miles	4/15/2011 \$ 9,894.94	8						-	
Total:				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	R&B levy

BELLY DUMPS

Aitkin County Highway Department

EQUIPMENT DESCRIPTION	SERIAL # MILEAGE	AQ. DATE AQ. COST	PROJ. LIFE	2023	2024	2025	2026	2027	5 YEAR TOTAL	FUNDING SOURCE
Unit #499 1995 Red River Belly Dump	1R9BD423XS1051056 151,944 miles	05/04/95 \$ 26,417.80	20				22,000		22,000	
Unit #501 2001 Red River Belly Dump	4ZYBD42311000233 122,004 miles	05/22/01 \$ 28,462.32	20						-	
Unit #503 2015 CPS Belly Dump	5MC434214F3149962	4/3/2020 \$ 21,400.00	20						-	
Total:				\$ -	\$ -	\$ -	\$ 22,000	\$ -	\$ 22,000	R&B levy

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Aitkin County Highway Department

EQUIPMENT DESCRIPTION	SERIAL # MILEAGE	AQ. DATE AQ. COST	PROJ. LIFE	2023	2024	2025	2026	2027	5 YEAR TOTAL	FUNDING SOURCE
Unit #709: Pin Finder Locator FT150	45B9086F	01/01/89 \$ 500.00	10						-	
Unit #711: Concrete Air Tester	P116	04/07/95 \$ 575.18	20						-	
Unit #718: Laser Level	14165	06/06/97 \$ 2,337.68	10						-	
Unit #726: Course Sieve Shaker		06/19/01 \$ 3,522.26	5						-	
Unit #727 Digital Scale		03/27/02 \$ 1,452.00	5						-	
Unit #731 One Office DataBase/Egram		9/2/2005 \$ 15,763.93	10						-	
Unit #738 HP Laserjet 5200 DTN Printer		11/27/2012 \$ 2,396.00	8						-	
Unit #739 Autocad Civil 3D 2017		1/12/2017 \$ 41,224.62	5						-	
Unit #740 Trimble Survey Equipment 2019	5834F00202	5/28/2019 \$ 67,863.01	8						-	
Unit #769 Toughbooks #1		9/21/2011 \$ 1,757.03	5						-	
Unit #772 IPAD - Sign Truck		9/2/2015 \$ 930.97	4						-	
Unit #777 Nikon Auto Level		6/3/2009 \$ 1,050.94	1						-	
Unit #778 E-TimeCard		12/24/2009 \$ 9,570.00							-	
Unit #784 Engineer Tech Computer #5		4/14/2013 \$ 1,159.59	4						-	
Unit #786 Eng. Tech Desktop Computers - 4		1/1/2018 \$ 6,664.36	4	7,000					7,000	
Unit #787 Eng. Tech Laptop's - 4		1/1/2018 \$ 7,210.80	4			7,000			7,000	
Upgrade R8 GPS Receivers				25,000					25,000	
Total:				\$ 32,000	\$ -	\$ 7,000	\$ -	\$ -	\$ 39,000	R&B levy

DUMP TRUCKS

Aitkin County Highway Department

EQUIPMENT DESCRIPTION	SERIAL # MILEAGE	AQ. DATE AQ. COST	PROJ. LIFE	2023	2024	2025	2026	2027	5 YEAR TOTAL	FUNDING SOURCE
Unit #127: (Spare) 2000 Ford Single Axle	2FZHOJBB2YAB12882 117,819 miles	10/22/99 \$ 93,834.69	8							
Unit #135 (Aitkin - Greg) 2012 International Tandem	1HTGRSJT1CJ634654 181,261 miles	2/13/2012 \$ 180,115.33	8	240,000					240,000	
Unit #136 (Aitkin - Randy) 2012 International Tandem	1HTGRSJT1CJ634655 183,766 miles	2/13/2012 \$ 180,115.32	8		130,000	110,000			240,000	
Unit 137 (Scott - McGregor) 2012 International Tandem	1HTGRSJT1CJ634656 127,309 miles	2/13/2012 \$ 181,528.21	8			190,000	50,000		240,000	
Unit 138 (Aitkin - Al) 2012 International Tandem	1HTGRSJT1CJ634657 149,745 miles	2/13/2012 \$ 181,837.07	8				240,000		240,000	
Unit 139 (McGrath - Ben) 2016 Mack GU 713	1M2AX09C5GM031563 84,451 miles	11/25/2015 \$ 182,454.37	8					245,000	245,000	
Unit 140 (Palisade - Gary) 2016 Mack GU 713	1M2AX09C7GM031564 69,086 miles	11/25/2015 \$ 182,454.37	8							
Unit 141 (McGrath - Randy) 2016 Mack GU 713	1M2AX09C9GM031565 66,825 miles	11/25/2015 \$ 182,454.37	8							
Unit 142 (Jacobson) 2010 Mack GU812 Single Axle	1M2AX11C0AM001296 113,655 miles	10/30/2018 \$ 93,234.00	8							
Unit 143 (Palisade - Don) 2019 Mack GR64F	1M2GR3C1KM011697 42,256 miles	5/2/2019 \$ 192,262.32	8							
Unit 144 (Aitkin - Rick) 2020 Mack GR64F	1M2GR3GC1LM011698 64,739 miles	5/2/2019 \$ 192,262.32	8							
Unit 145 (McGregor - Dave) 2019 Mack GR64F	1M2GR3GC5KM011699 66,411 miles	5/2/2019 \$ 192,262.32	8							
Unit 146 (Chassis Only) 2015 International ProStar	1HSDJAPR1FH528155 351,536 miles	3/27/2020 \$ 51,707.50	8							
Unit 147 (McGregor - Kyle) 2022 MACK GR64F	1M2GR3GC1NM028908 1,762 miles	4/25/2022 \$ 217,254.73	8							
Unit 148 (Palisade - Josh) 2022 MACK GR64F	1M2GR3GCXMN028907 1,356 miles	5/9/2022 \$ 215,259.73	8							
Unit 149 (Swatara - Florian) 2022 MACK GR64F	1M2GR3GC3NM028909 696 miles	5/18/2022 \$ 222,161.99	8							
Chassis Only Tandem Truck							52,000		52,000	
Total:				\$ 240,000	\$ 130,000	\$ 300,000	\$ 342,000	\$ 245,000	\$ 1,257,000	R&B levy

LOADERS

Aitkin County Highway Department

DESCRIPTION	SERIAL # MILEAGE	AQ. DATE AQ. COST	PROJ. LIFE	2023	2024	2025	2026	2027	5 YEAR TOTAL	FUNDING SOURCE
Unit #010 1989 Case 1840 Skidsteer	JAF 0046781 1,889 hours	06/30/91 \$ 14,320.00	5						-	
Unit #020 Bobcat Skidsteer	519025062 1,891 hours	8/21/2009 \$12,500	6						-	
Unit #366: 1985 John Deere Tractor-Loader	4S6575 7,690 hours	06/01/85 \$ 27,895.00	7						-	
Unit #371 (Aitkin) 2008 John Deere 624J Loader	DW624J2620150 3,619 hours	5/15/2008 \$ 102,623.40	10						-	
Unit #386: (Swatara) 2003 JD 410E Wheel Loader Backhoe	T0410EX885689 378 hours	11/21/2013 \$ 30,459.38	10						-	
Unit #389: (Jacobson) 1994 Ford Loader/Backhoe	A428046 3,498 hours	11/01/94 \$ 49,456.05	10			80,000			80,000	
Unit #391: (Palisade) 1997 Cat 938F Loader	1KM02373 5,501 hours	06/09/97 \$ 121,976.00	10					150,000	150,000	
Unit #397 (McGrath) John Deere Loader/Backhoe	T0310SG927807 2,820 hours	12/22/2003 \$ 45,382.85	12						-	
Unit #398 (McGregor) John Deere 624J Loader	DW624JZ591593 3,101 hours	4/8/2004 \$ 114,444.90	12						-	
Total:				\$ -	\$ -	\$ 80,000	\$ -	\$ 150,000	\$ 230,000	R&B levy

MAINT

Aitkin County Highway Department

EQUIPMENT DESCRIPTION	SERIAL # MILEAGE	AQ. DATE AQ. COST	PROJ. LIFE	2023	2024	2025	2026	2027	5 YEAR TOTAL	FUNDING SOURCE
Unit #016 Stow VPC80E Plate Compactor	9301000	10/01/93 \$ 1,618.80	8							
Unit #018 Graco Pavement Marker	3003	06/17/94 \$ 6,704.18	8							
Unit #019 Roscoe SweepPro	4820-44017 2,372 hours	3/21/2006 \$ 30,625.14	10							
Unit #041 2014 Cimline 230DH Gen IV Melter	1,094 hours	3/26/2015 \$ 36,495.00	5							
Unit #042 Ingersoll Rand Compressor	327328UBM288 1,146 hours	02/26/02 \$ 11,762.93	5							
Unit #43 Pavement Compactor CATCB24	24001325 497 hours	10/15/2012 \$ 27,787.50	10							
Unit #048: Hydro Tek Steamer	201400566	3/13/2014 \$ 6,478.90	8							
Unit #50 STEPP Pothole Patch Trailer	4S9PH15Y1ES127059	5/29/2014 \$ 15,572.00	8							
Unit #066 Honda Water Pump		8/15/2003 \$ 2,628.51	5							
Unit #067 Pull-type Pneumatic Roller	190604	11/15/2004 \$ 11,182.50	5							
Unit #096 All American Disk	105DH	12/11/95 \$ 4,473.00	7							
Unit #098 Ford Tandem Wheel Disc		07/25/88 \$ 1,600.00	4							
Unit #300 PT100G Terex Track Brush Machine	ASVPT100LDWF00338 2,232 hours	6/27/2011 \$ 71,832.83	10				110,000		110,000	
Unit #306 2013 LB Performance RW35 Road Wick	91161 623 hours	3/27/2020 \$ 38,500.00	10							
Unit #369 1999 Self-propelled Steel Drum Roller	3TM01311 2,076 hours	11/16/2004 \$ 43,665.00	5							
Unit #372 2020 Volvo Excavator	EC140EL 1,067 hours	5/28/2020 \$145,406	10							
Unit #399 Caterpillar D5NLGP Dozer	ADK01236 3,360 hours	12/29/2004 \$ 107,649.54	12							
Unit #498 Water Tanker Trailer	OMA102901	6/11/2003 \$ 2,500.00	2							
Unit #815 Turfmaker 325 - Hydroseeder		3/17/2021 \$ 11,075.00	10							
Snow Blower Attachment				14,000					14,000	
Mastic Patch Trailer						70,000			70,000	
Total:				\$ 14,000	\$ -	\$ 70,000	\$ 110,000	\$ -	\$ 194,000	R&B levy

MOTOR GRADERS

Aitkin County Highway Department

EQUIPMENT DESCRIPTION	SERIAL # MILEAGE	AQ. DATE AQ. COST	PROJ. LIFE	2023	2024	2025	2026	2027	5 YEAR TOTAL	FUNDING SOURCE
Unit 200 (McGregor) Caterpillar 120M Motor Grader	CAT0120MJD9W00208 6,125 hours	2/28/2013 \$ 193,743.00	15							
Unit 201 (McGrath - Randy) Caterpillar 120M Motor Grader	CAT0120MPD9W00206 5,000 hours	2/28/2013 \$ 193,743.00	15							
Unit 205: (Swatara) 2016 John Deere 670GP	1DW670GPCGF678041 3,275 hours	11/17/2016 \$ 208,090.00	15							
Unit #208: (McGrath-Ben) 2016 John Deere 670GP	1DW670GPAGF678048 3,011 hours	11/17/2016 \$ 208,090.00	15							
Unit #211: (Jacobson) Caterpillar 140G Motor Grader	72V11844: Rebuilt '06 16,987 hours	04/19/89 \$ 118,166.00	7		230,000				230,000	
Unit #213: (Palisade) Caterpillar 120M2 Motor Grader	CAT0120MKM9C01011 2,609 hours	11/27/2018 \$ 207,780.00	7							
Unit #214: (Aitkin) 2020 John Deere 670GP Motor Grader	1DW670GPCLF707211 1,286 hours	7/15/2020 \$ 296,120.00	7							
Total:				\$ -	\$ 230,000	\$ -	\$ -	\$ -	\$ 230,000	R&B levy

PICKUPS

Aitkin County Highway Department

EQUIPMENT DESCRIPTION	SERIAL # MILEAGE	AQ. DATE AQ. COST	PROJ. LIFE	2023	2024	2025	2026	2027	5 YEAR TOTAL	FUNDING SOURCE
Unit #440: (Mower) 1999 Ford Pickup	1FTSF30S7XEE77886 245,657 miles	06/24/99 \$ 27,307.66	5							
Unit #448 (mower) 2004 Ford F-150 4x4	2FTRF18W04CA57284 148,733 miles	9/9/2004 \$ 18,264.12	5							
Unit #454 (Randy) 2008 Ford F-150	1FTRX14W58FC 133,622 miles	5/13/2008 \$ 20,588.85	5	30,000					30,000	
Unit #456 (Maint.) 2008 Ford F-350 Flatbed	1FDWF36Y88EE41635 76,462 miles	8/21/2008 \$ 25,893.33	5	60,000					60,000	
Unit #458 (McGregor) 2010 Ford F150 CrewCab	1FTW1E82AFC37178 127,579 miles	5/21/2010 \$ 26,065.86	5			34,000			34,000	
Unit #459 (Austin) 2010 Ford F150	1FTEX1E81AKE10754 67,014 miles	5/14/2010 \$ 23,704.75	5					38,000	38,000	
Unit #460 (Survey) 2011 Ford F350 SD	1FD8W3B66BEA79874 132,290 miles	8/4/2010 \$ 39,336.40	5		45,000				45,000	
Unit #462 (Swatara) 2012 Chevy 4DR Ext.	IGC2KXCG3CZ177243 219,240 miles	12/19/2011 \$ 24,912.00	5		32,000				32,000	
Unit 464 (Dave Banta) 2012 Ford F150 Ext Cab	IDRPX12VX8FB81383 56,292 miles	6/4/2012 \$ 12,000.00	5					38,000	38,000	
Unit #466: (Paul K) 2014 Ford F-150	1FTEX1EM3EKE13609 50,485 miles	04/10/2014 \$ 25,382.88	8							
Unit #468 (McGrath) 2007 Ford F-150	1FTPX14V37KD14388 162,478 miles	10/6/2015 \$ 17,895.95	5	30,000					30,000	
Unit #470 (Palisade Shop) 2006 GMC Sierra 150	1GTEK19B26Z186669 134,850 miles	5/26/2016 \$ 16,867.75	5							
Unit #471 (Sign Truck) 2017 Ford F-450 Super Duty	1FOUF4GY5HED18824 122,438 miles	5/12/2017 \$ 47,292.13	5					70,000	70,000	
Unit #472 (Butch) 2018 Ford F-250 SuperDuty	1FT7X2B63JEC64325 124,035 miles	6/5/2018 \$ 26,631.91	5		50,000				50,000	
Unit #473 (Maintenance w/lift) 2018 Ford F-250 SuperDuty	1FT7X2B61JEC64324 126,065 miles	6/11/2018 \$ 33,554.41	5							
Unit #474 (Dave Babcock) 2020 F-150 4x4 Extended Cab	1FTEX1EB2LKF17679 15,385 miles	8/31/2020 \$ 28,675.14	5							
Unit #475 (Mechanic) 2020 Ford F550 Super Duty	1FD0W5HT2LEE47703 23,670 miles	12/21/2020 \$ 98,293.73	5							
Unit #476 (Quale) 2021 GMC Sierra	3GTU9AEFXMG244525 8,218 miles	3/19/2021 \$ 30,433.83	5							
Unit #477 (Jacobson) 2015 Ford F-150 Supercab	1FTFX1EFXFFD08825 63,249 miles	3/22/2022 \$ 30,532.50	5							
Unit #478 (Kellerman) 2022 Chevy Silverado	1GCRYDED2NZ177560 7,095	3/25/2022 \$ 44,915.00	5							
Total:				\$ 120,000	\$ 127,000	\$ 34,000	\$ -	\$ 146,000	\$ 427,000	R&B levy

SHOP

Aitkin County Highway Department

EQUIPMENT DESCRIPTION	SERIAL # MILEAGE	AQ. DATE AQ. COST	PROJ. LIFE	2023	2024	2025	2026	2027	5 YEAR TOTAL	FUNDING SOURCE
Unit #802: Airco Welder Outfit	DH911005	01/01/80 \$ 1,758.88	10						-	
Unit 803 Gray Wireless Portable Life System		1/30/2020 \$ 38,233.00	10						-	
Unit #804: (Aitkin) Pressure Washer	118215	01/01/80 \$ 750.49	10						-	
Unit #806: John Deere Snowblower	TY0522A003004	01/11/76 \$ 800.00	10						-	
Unit 807: Sears Portable Generator		03/17/95 \$ 1,124.24	10						-	
Unit #809 Plasma Cutter		1/12/2007 \$ 2,343.00	4						-	
Unit #811 Husqvarna Chop Saw K760		9/11/2013 \$ 1,916.92	4						-	
Unit #812 AC/DC 225/115 Welder		6/12/2018 \$ 701.87	1						-	
Unit #813 Power Mig 256 Mig Welder		6/12/2018 \$ 2,483.40	1						-	
Unit #814 2020 John Deere Z7E Trak	32 hours	3/1/2021 \$ 5,345.00	4						-	
Total:				-	-	-	-	-	-	

TRACTORS

Aitkin County Highway Department

EQUIPMENT DESCRIPTION	SERIAL # MILEAGE	AQ. DATE AQ. COST	PROJ. LIFE	5 YEAR					FUNDING SOURCE	
				2023	2024	2025	2026	2027		TOTAL
Unit #350 (Aitkin) John Deer Tractor/Mower	L06430H520378 6,989 hours	4/19/2007 \$ 75,268.00	10	50,000					50,000	
Unit #351 New Holland Tractor Mower	NT01172M 2,626 hours	10/6/2016 \$ 66,121.56	10							
Unit #352 New Holland - Guardrail Mower	1,245 hours	7/12/2019 \$ 103,838.50	10							
Total:				\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	R&B levy

TRAILERS

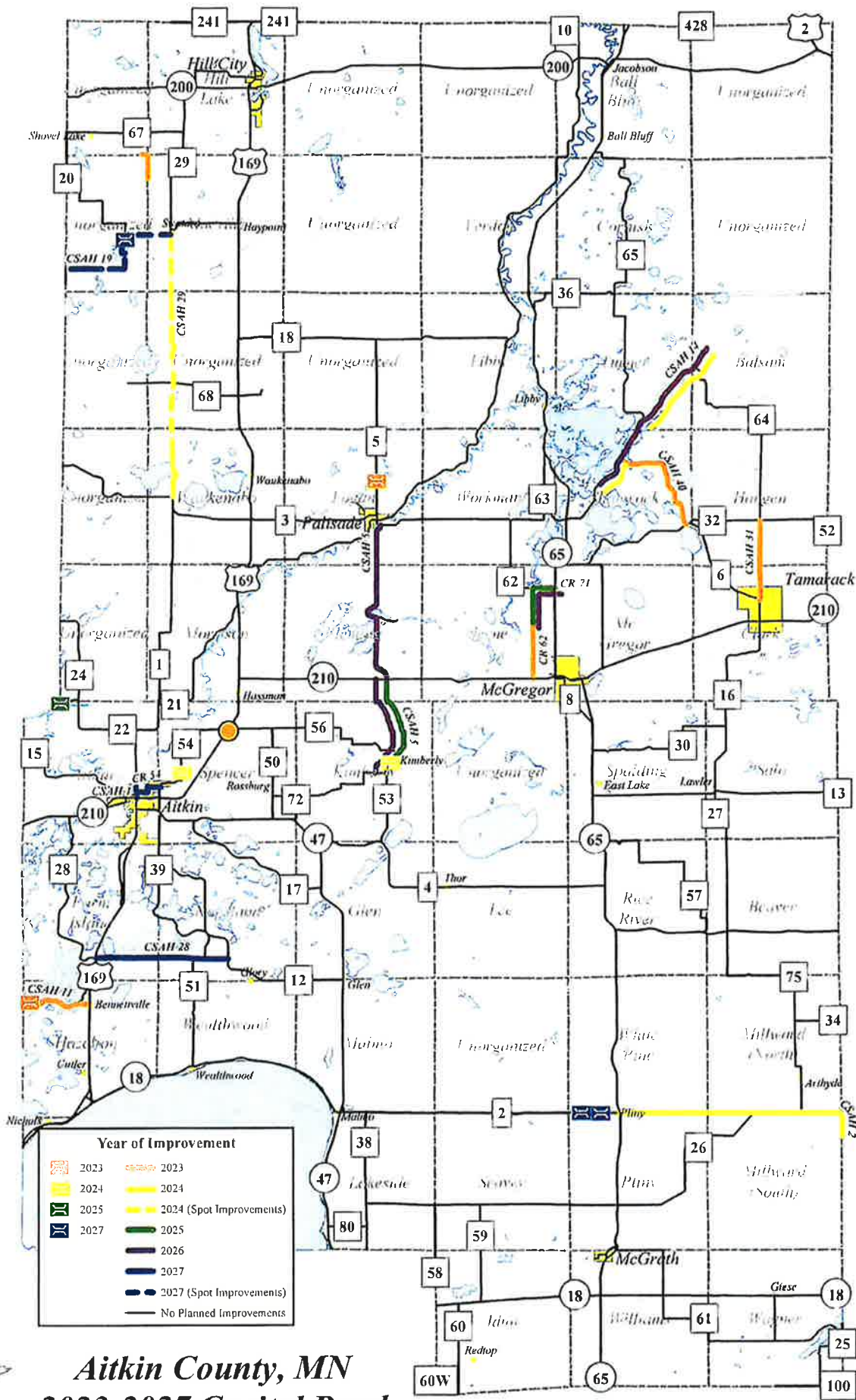
Aitkin County Highway Department

EQUIPMENT DESCRIPTION	SERIAL # MILEAGE	AQ. DATE AQ. COST	PROJ. LIFE	5 YEAR					FUNDING SOURCE	
				2023	2024	2025	2026	2027		TOTAL
Unit #028 (McGrath) Felling Trailer	5FTDA292871027973	6/21/2006 \$ 15,819.88	8							
Unit #029 (HydroSeeder) Felling Trailer	1F9FS1425M1072074	05/08/91 \$ 9,400.00	8							
Unit #031 Survey Trailer	4P5671213B2160170	4/1/2011 \$ 1,760.25	8							
Unit #033 Homemade Culvert Trailer	DPWMN890722	01/01/90 \$ -	5							
Unit #034 (Jacobson) Towmaster Trailer	2471	06/21/86 \$ 10,705.35	8				32,000.0		32,000	
Unit #035 Homemade 6X8 Trailer	DPSMN890723	03/14/86 \$ 100.00	8							
Unit #051 (Aitkin) Towmaster Trailer T-50	4KNFT2431EL162184	05/30/2014 \$ 26,005.96	10							
Unit #52 Continental Cargo 6x10 Trailer	5NHUVH019FN079008	4/14/2016 \$ 3,243.93	10							
Unit #53 (Skid Loader) Kaufman Trailer	5SHFD222XMB001728	7/6/2021 \$ 6,780.30	10							
Unit #54 (Trackhoe) 2022 TM T-50 Trailer	4KNBF3432NL162626	2/2/2022 \$ 28,041.00	10							
Unit #97 (pipe trailer) Home Made Trailer	DSPMN890724	03/10/89 \$ 694.34	8							
Total:				\$ -	\$ -	\$ -	\$ 32,000	\$ -	\$ 32,000	R&B levy
Grand Total Capital Equipment:				\$ 457,300	\$ 487,000	\$ 494,200	\$ 510,900	\$ 541,000	\$ 2,490,400	

Proposed 2023 through 2027 Capital Road Improvement Plan

(*projects added from previous program*)

	Length	Location	Pavement Age/2021 RQI	Estimated Construction Cost
2023				
SAP 001-605-016 - CSAH 5 Bridge No. 01509 Replacement	0.1	CSAH 5 over Willow River	LPI 44	\$ 950,000
SP 001-611-003 - CSAH 11 Widening/Resurfacing/Bridge No. 88100 Replacement	3.2		2003/2.8-2.9	\$ 3,556,725
SAP 001-631-003 - CSAH 31 Resurfacing	3.53		2002/2.2	\$ 660,000
SAP 001-640-003 - CSAH 40 Resurfacing	4.9		2002/2.6-2.7	\$ 930,000
CP 001-062-004 - CR 62 Resurfacing	2.64	TH 210 to 435th Street	2002/2.3-2.5	\$ 455,000
*SAP 001-030-008 (CH 6, 14 Culvert Rep, CH 1 SG repair, CH 8,12 Patch, others)				\$ 150,000
Intersection Improvements on CH 54/56/US Hwy 169				\$ 81,000
C.P. 001-470-001 - UT 470 (400th Place) improvements	1.2	630th Lane to 1.2 miles northwest		\$ 100,000
			Total:	\$ 6,882,725
2024				
SP 001-602-014 Resurfacing	10.4	TH 65 to Pine County Line	2004/3.2	\$ 2,125,000
SAP 001-605-015 - CSAH 5 Bridge No. 01508 Replacement	0.1	CSAH 5 over Rice River	LPI 38	\$ 780,000
CSAH 14 Culvert Replacements (6)	1.88	2.3 miles NE of TH 65 to CSAH 40		\$ 515,000
CSAH 14 Culvert Replacements (16)	4.44	CSAH 36 to State Park		\$ 800,000
SAP 001-598-016 - CR 54 Bridge No. 7375 Replacement	0.5	CR 54 over Sissabagamah Creek	LPI 52	\$ 510,000
CSAH 29 Gravel Road Spot Improvements (2.8 of 6.6 miles)	2.8	CR 68 to CSAH 19		\$ 590,000
			Total:	\$ 5,320,000
2025				
SAP 001-605-014 - CSAH 5 Reconstruction (Grading and Agg. Base)	4.7	CR 53 to TH 210		\$ 4,000,000
CSAH 22 Bridge No. 01502 Replacement	0.1	CSAH 22 over Wakefield Brook	LPI 61	\$ 400,000
CR 62 Reconstruction (Grading and Agg. Base)	1.36	435th Street to CR 71		\$ 755,000
CR 71 Reconstruction (Grading and Agg. Base)	1			\$ 555,000
			Total:	\$ 5,710,000
2026				
CSAH 5 Resurfacing	7.5	TH 210 to CSAH 3	2009/2.5-2.6	\$ 1,800,000
CSAH 5 Bituminous Paving	4.7	CR 53 to TH 210		\$ 1,600,000
CSAH 14 Resurfacing	1.88	2.3 miles NE of TH 65 to CSAH 40	2001/2.8-3.0	\$ 400,000
CSAH 14 Resurfacing	4.44	CSAH 36 to State Park	2001/2.8-3.0	\$ 780,000
CSAH 14 Reconstruction	1.92	CSAH 40 to CSAH 36	2001/2.8-3.0	\$ 2,000,000
CR 62/71 Bituminous Paving	2.36			\$ 780,000
SP 001-070-009 HSIP Pavement Markings	33.2			\$ 306,000
			Total:	\$ 7,666,000
2027				
CSAH 1 Resurfacing	0.45	US Hwy 169 to Mississippi River	2005/1.9-2.2	\$ 160,000
CSAH 2 Bridge No. 7215/7216 Replacement	0.2	CSAH 2 over Snake/Unnamed River	LPI 58/61	\$ 1,700,000
CSAH 28 Resurfacing	5.8	CSAH 12 to US Hwy 169	2003/3.2-3.3	\$ 1,200,000
CR 54 Resurfacing (length expanded from previous program)	1.3	CSAH 1 to CR 83	2003-13/2.5-2.6	\$ 250,000
CSAH 19 Gravel Road Improvements (2.1 of 6.8 miles)	2.1	Cass County Line to CSAH 29		\$ 490,000
CSAH 19 Bridge No. 88102 Replacement	0.1	CSAH 19 over Moose River		\$ 220,000
			Total:	\$ 4,020,000
Five Year Total:				\$ 29,598,725



Aitkin County, MN
2023-2027 Capital Road
Improvement Plan

0 1.5 3 4.5 6 7.5 9 10.5 12 Miles

Map prepared by Aitkin County GIS for graphic display purposes only

Project Selection Process

Identified improvements fall into one of four construction categories. Those categories, listed in priority order are as follows.

1. Bridge Replacement
2. Pavement Resurfacing/Shoulder Widening
3. Gravel Road Reconstruction to Paved Road Standards
4. Gravel Road Improvement

1. Bridge Replacement

Bridge replacement projects are selected based on calculated sufficiency ratings that are the result of bridge safety inspections conducted on each bridge under the County's jurisdiction. See attached listing of all local highway bridges in Aitkin County. Highlighted bridges on the attachment are included in the current 5-year capital improvement program.

2. Pavement Resurfacing/Shoulder Widening

Pavement resurfacing projects are selected based on pavement condition data collected on a two-year frequency. In addition, observed pavement conditions and geographical grouping of projects for lower construction costs are considered when scheduling resurfacing projects. See attached listing of Ride Quality Index (RQI) information for all of Aitkin County's paved highway segments. Highlighted segments on the attachment are included in the current 5-year capital improvement program.

The specific type of pavement resurfacing project is determined during the design stage of the project based on the project's individual characteristics. Chipseal, overlay, mill and overlay, reclaim and pave, and cold in-place recycle are included in this construction category.

For segments that have deficient shoulder width, slopes, or culverts, additional work to correct these deficiencies may be added to the resurfacing project.

3. Gravel Road Reconstruction to Paved Road Standards

Projects in this category are programmed for existing gravel roads to reconstruct them as improved, paved highways. Projects are chosen based on a prioritization worksheet that ranks the various gravel road segments based on annual average daily traffic (AADT) count, residence density, functional classification, sight distance deficiencies, improved route system layout, and private land ownership. The resulting priority ratings are updated with each Capital Road Improvement Plan update. See attached priority rating worksheet. Highlighted segments on the attachment are included in the current 5-year capital improvement program.

4. Gravel Road Improvement

Projects in this category involve drainage and roadbed improvements on roads that will remain as gravel surfaced roads. Projects constructed under this category are programmed based on observed deficiencies of gravel road segments.

**AITKIN COUNTY
BRIDGE ROSTER**

(Highlighted Bridges replaced in 2022 or included in 2023-2027 Capital Road Improvement Plan)

08/15/2022

Bridge Number	Roadway Name	Feature Crossed	Main Span Type	Deficiency Status	Sufficiency Rating	Status
01502	CSAH 22	WAKEFIELD BROOK	TIMB SLAB SPAN	S.D.	62.0	OPEN
01513	CSAH 29	WILLOW RIVER	TIMB SLAB SPAN	S.D.	67.8	LOAD POSTED
01508	CSAH 5	RICE RIVER	TIMB SLAB SPAN	S.D.	68.3	LOAD POSTED
01505	CSAH 18	WILLOW RIVER	TIMB SLAB SPAN	S.D.	68.4	LOAD POSTED
01509	CSAH 5	WILLOW RIVER	TIMB SLAB SPAN	S.D.	69.9	LOAD POSTED
88100	CSAH 11	RIPPLE RIVER	STEEL PIPE ARCH	ADEQ	73.5	OPEN
7375	CR 54	SISSABAGAMAH CREEK	TIMB SLAB SPAN	ADEQ	73.9	LOAD POSTED
7216	CSAH 2	SNAKE RIVER	TIMB BEAM SPAN	ADEQ	75.6	OPEN
7215	CSAH 2	STREAM	TIMB BEAM SPAN	ADEQ	78.0	OPEN
94156	CSAH 16	SANDY RIVER TRIB	TIMB BOX CULV	ADEQ	78.1	OPEN
94157	CSAH 16	SANDY RIVER	TIMB BOX CULV	ADEQ	78.1	OPEN
94154	CSAH 16	SANDY RIVER TRIB	TIMB BOX CULV	ADEQ	78.2	OPEN
94155	CSAH 16	RICE LAKE OUTLET	TIMB BOX CULV	ADEQ	79.2	OPEN
88102	CSAH 19	MOOSE RIVER	STEEL PIPE CULV	ADEQ	82.6	OPEN
L9181	CNTY 67	WILLOW RIVER	TIMB SLAB SPAN	ADEQ	85.0	OPEN
R0716	CSAH 3 FIELD ENT	DRAINAGE DITCH	STEEL PIPE ARCH	ADEQ	89.8	OPEN
R0717	CSAH 3 350TH PL. ENT	DRAINAGE DITCH	STEEL PIPE ARCH	ADEQ	89.8	OPEN
01516	CSAH 23	CHAN BETWEEN TWO LAKES	PRESTR QUAD TEE	ADEQ	90.1	OPEN
01512	CSAH 28	RIPPLE RIVER	PRESTR QUAD TEE	ADEQ	91.3	OPEN
92699	CSAH 21	DITCH	STEEL PIPE CULV	ADEQ	94.8	OPEN
01506	CSAH 1	MISSISSIPPI RIVER	PRESTR BM SPAN	ADEQ	95.9	OPEN
01518	CSAH 26	SNAKE RIVER	PRESTR DOUB TEE	ADEQ	96.9	OPEN
01011	CSAH 3	CHAN BETWEEN TWO LAKES	PRESTR BM SPAN	ADEQ	97.2	OPEN
01515	CR 54	RIPPLE RIVER	PRESTR QUAD TEE	ADEQ	97.9	OPEN
01521	CR 56	RICE RIVER	TIMB SLAB SPAN	ADEQ	98	OPEN
01012	CSAH 3	MISSISSIPPI RIVER	PRESTR BM SPAN	ADEQ	98.4	OPEN
01J36	CSAH 32	CO DITCH #13	PRECST BOX CULV	ADEQ	98.9	OPEN
01526	CSAH 22	MISS R DIVERSION CHANNEL	PRESTR BM SPAN	ADEQ	99.3	OPEN
01530	CSAH 3	BIG WILLOW RIVER	PRESTR BM SPAN	ADEQ	99.3	OPEN
93455	CSAH 4	DAM BROOK	PRECST PIPE ARCH	ADEQ	99.3	OPEN
01J35	CSAH 3	WHITE ELK BROOK	PRECST BOX CULV	ADEQ	99.4	OPEN
01J04	CSAH 39	RIPPLE RIVER	PRECST BOX CULV	ADEQ	99.5	OPEN
01J08	CSAH 3	Little Willow River	PRECST BOX CULV	ADEQ	99.5	OPEN
01J28	CSAH 28	CHAN BETWEEN TWO LAKES	PRECST BOX CULV	ADEQ	99.5	OPEN
01531	CSAH 14	PRAIRIE RIVER	PRESTR BM SPAN	ADEQ	99.6	OPEN
01532	CSAH 4	RICE RIVER	PRESTR BM SPAN	ADEQ	99.6	OPEN
01533	CSAH 12 (RIPPLE RIVER	CCONC SLAB SPAN	ADEQ	99.6	OPEN
01J33	CSAH 10	POKEGAMA CREEK	PRECST BOX CULV	ADEQ	99.6	OPEN
01J39	CSAH 15	CEDAR CREEK	PRECST BOX CULV	ADEQ	99.6	OPEN
01J45	CSAH 5	FLEMING LAKE INLET	PRECST BOX CULV	ADEQ	99.6	OPEN
92844	CSAH 3	DITCH	PRECST PIPE ARCH	ADEQ	99.6	OPEN
96703	CSAH 4	CREEK	PRECST BOX CULV	ADEQ	99.6	OPEN
01534	CR 62	SANDY RIVER	CCONC SLAB SPAN	ADEQ	99.8	OPEN
93178	CSAH 38	SEVENTEEN CREEK	PRECST PIPE ARCH	ADEQ	99.8	OPEN
96811	CSAH 2	SNAKE RIVER	PRECST PIPE ARCH	ADEQ	99.8	OPEN
01527	CSAH 1	Miss. R. Diversion Chan.	PRESTR BM SPAN	ADEQ	99.9	OPEN
01528	CSAH 32	TAMARACK RIVER	PRESTR BM SPAN	ADEQ	99.9	OPEN
01J07	CSAH 1 (LITTLE WILLOW RIVER	PRECST BOX CULV	ADEQ	99.9	OPEN
01J22	CSAH 29	MOOSE RIVER	PRECST BOX CULV	ADEQ	99.9	OPEN
01J26	CSAH 26	STREAM	PRECST BOX CULV	ADEQ	99.9	OPEN
01J27	CR 73	MINNEWAWA CREEK	PRECST BOX CULV	ADEQ	99.9	OPEN
01J31	CR 73	SANDY RIVER	PRECST BOX CULV	ADEQ	99.9	OPEN
01J43	CSAH 14	SAVANNA RIVER	PRECST BOX CULV	ADEQ	99.9	OPEN
91895	CNTY 64	PRAIRIE RIVER	PRECST PIPE ARCH	ADEQ	99.9	OPEN
91896	CNTY 64	TAMARACK RIVER	PRECST PIPE ARCH	ADEQ	99.9	OPEN
92917	CSAH 12	RIPPLE RIVER	PRECST PIPE ARCH	ADEQ	99.9	OPEN
93122	CSAH 26	DITCH	PRECST PIPE ARCH	ADEQ	99.9	OPEN
95330	CSAH 36	STREAM	PRECST PIPE ARCH	ADEQ	99.9	OPEN
95331	CSAH 1	LITTLE WILLOW RIVER	PRECST PIPE ARCH	ADEQ	99.9	OPEN
95332	CSAH 5	SISSABAGAMAH CREEK	PRECST PIPE ARCH	ADEQ	99.9	OPEN
95612	CNTY 51	RIPPLE RIVER	PRECST PIPE ARCH	ADEQ	99.9	OPEN
01517	CSAH 10	WILLOW RIVER	PRESTR DOUB TEE	ADEQ	100.0	OPEN
01524	CR 62	SANDY RIVER	CCONC SLAB SPAN	ADEQ	100.0	OPEN
01J01	CNTY 74	MORRISON BROOK	PRECST PIPE ARCH	ADEQ	100.0	OPEN
01J02	CSAH 10	WHITE ELK BROOK	PRECST PIPE ARCH	ADEQ	100.0	OPEN
01J11	CSAH 9	Bear Creek	PRECST BOX CULV	ADEQ	100.0	OPEN
01J14	CSAH 34	BIRCH CREEK	PRECST BOX CULV	ADEQ	100.0	OPEN
01J29	CR 75	BIRCH CREEK	PRECST BOX CULV	ADEQ	100.0	OPEN
92918	CNTY 61	CHESLEY BROOK	PRECST PIPE ARCH	ADEQ	100.0	OPEN
92924	CSAH 23	STREAM	PRECST PIPE ARCH	ADEQ	100.0	OPEN
93123	CNTY 75	SPLIT ROCK RIVER	PRECST PIPE ARCH	ADEQ	100.0	OPEN
93424	CNTY 67	LITTLE HILL RIVER	PRECST PIPE ARCH	ADEQ	100.0	OPEN
94221	CNTY 61	STREAM	PRECST PIPE ARCH	ADEQ	100.0	OPEN
96142	CSAH 29	LITTLE HILL RIVER	PRECST PIPE ARCH	ADEQ	100.0	OPEN

Bituminous Pavements - Age and RQI Data

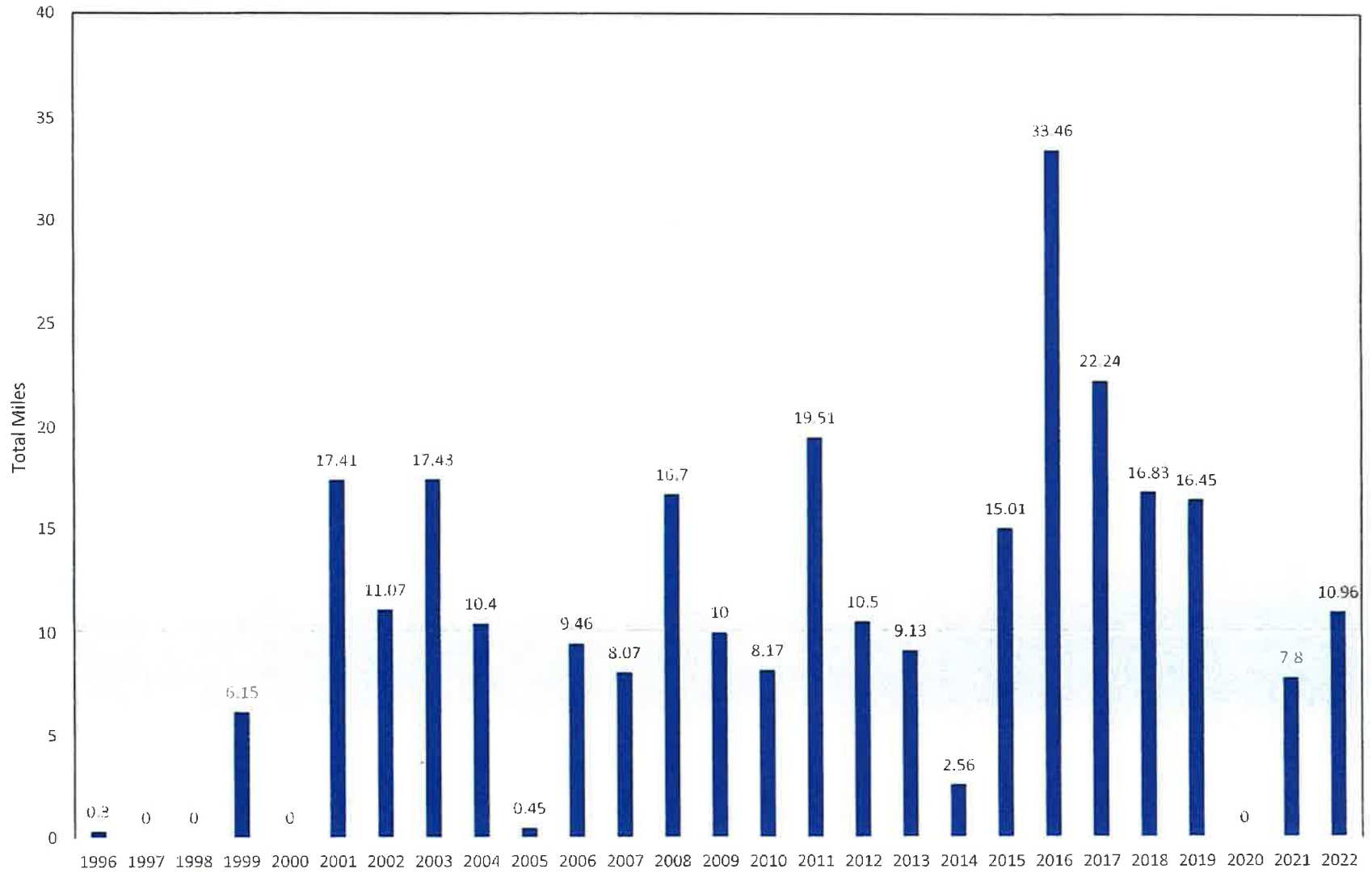
(Highlighted Segments Included in 2023-2027 Capital Road Improvement Program)

		Length	2019 RQI	2021 RQI		Length	2019 RQI	2021 RQI
1996					2013			
CR 69		0.3			CSAH 12 from .35 m. E. of N. jct. CSAH 39 to TH 47 (NW)			
					CR 54 from CSAH 1 to .47 miles east	0.47	2.3/2.5	1.9-2.3
1997					CR 54 from CR 83 to end of pavement	0.56	2.4/2.8	2.7/2.8
					CR 60	3.98	3.6/3.7	3.6
1998					CR 66 from 0.26 miles east of US 169 to US 169	0.83	2.3/2.4	2.1
					CR 77	0.57		
1999					CR 82	1.03	2.1/2.4	1.8-2.1
CSAH 39 (2021 Chipseal)		5.1	3.5	3.4	CR 83	0.49	3.3/3.4	3.1/3.2
CR 81 (2020 Chipseal)		1.05	2.9/3.1	3.0/3.1	CR 85	1.2	2.9	2.7/2.8
2000					2014			
					CSAH 12 from .35 m. E. of N. jct. CSAH 39 to TH 47 (Wear)	2.56	3.4	3.5
2001					2015			
CSAH 14 from 2.3 m. northeast of TH 65 to Slate Park		8.61		2.8-3.0	CSAH 10 from US Hwy 169 to CSAH 3	7.01	3.7	3.1
CSAH 22 (2022 Chipseal)		4.6		3.3/3.4	CSAH 28 from TH 210 to TH 169	8	3.6	
CSAH 24 (2022 Chipseal)		4.2						
2002					2016			
CSAH 31		3.53	2.3	2.2	CSAH 2 from TH 47 to TH 65	12.38		
CSAH 40		4.9	2.8/2.9	2.6/2.7	CSAH 3 from north jct. CSAH 5 to 6.36 miles east	6.2		
CR 82 from TH 210 to 435th Street		2.64	2.5/2.7	2.3-2.5	CSAH 12 from TH 47 to TH 210	0.58		
					CSAH 12 from TH 47 to 375th Avenue	6.88		
2003					CSAH 13 from TH 65 to CSAH 16	5.39		
CSAH 11		3.2	2.8/3.0	2.8/2.9	CSAH 41 from 1st Street to west jct. TH 210	1.01		3.1/3.2
CSAH 23 (2022 Chipseal)		5.3			CR 88	1.02		2.8/3.3
CSAH 28 from TH 169 to CSAH 12		5.8		3.2/3.3				
CSAH 37		2.3	2.6/2.9	2.5/2.7	2017			
CR 54 from .47 miles east of CSAH 1 to CR 83		0.83	2.4/2.5	2.5/2.6	CSAH 1 from CSAH 22 to 3.6 miles north	3.6		
					CSAH 10 from CSAH 3 to CSAH 18	11.06		
2004					CSAH 15 from Crow Wing County Line to CSAH 1	6.08		
CSAH 2 from TH 65 to Pine County Line		10.4		3.3 3.2	CR 74	1.5	3.5/3.7	
2005					2018			
CSAH 1 from TH 210 to beginning of Mississippi River B		0.45	2.2/2.4	1.9-2.2	CSAH 6 from TH 65 to 5.3 miles east	4.9	4.1	4.0
					CSAH 8 from TH 210 to old Soo Line RR	0.87	3.0	2.9/3.0
2006					CSAH 12 from 375th Avenue to Lanie's corner	2.74		3.5/3.6
CSAH 3 from Crow Wing County Line to CSAH 29		5.74		3.2	CSAH 12 from Lanie's Corner to n. jct. CSAH 39	1.95		
CSAH 7		3.2		2.8/2.9	CSAH 32 from CSAH 6 to CSAH 31	3.29		
CR 66 from US 169 to 0.26 miles east		0.26		3.1/3.2	CR 53 from CSAH 4 to 0.78 mile north	3.08		
CSAH 29 from CSAH 19 to CSAH 7		0.26						
2007					2019			
CSAH 8 from old Soo Line RR to TH 65		1.97		3.3 3.1	CSAH 3 from CSAH 29 to TH 169	4.15		
CSAH 38		6.1	3.2/3.3	3.2	CSAH 10 from TH 200 to Itasca County Line	2.25		
					CSAH 16	8.9		
2008					CSAH 41 from east jct. TH 210 to 1st Street	0.07		
CSAH 4 from TH 47 to TH 65		14.4	3.2/3.3	3.0/3.1	CR 70	1.08		
CSAH 29 from CSAH 3 to 509th Lane		2.3	2.6/2.7	2.6	2020			
2009					2021			
CSAH 1 from beginning of Mississippi River Bridge to CS		2.5		3.2 3.2/3.3	CSAH 3 from 6.36 miles east of north jct CSAH 5 to TH 65	3.2		
CSAH 5 from TH 210 to TH 232		7.5	2.6/2.7	2.5/2.6	CSAH 9	0.77		
					CSAH 25	3.29		
2010					CR 79	0.54		
CSAH 10 from CSAH 18 to 8.2 miles south of TH 200		6.88		3.5 3.4	2022			
CSAH 33		0.29	1.3/2.0	2.0/2.1	CSAH 17	7.1		
CR 62 from TH 232 to 1.0 mile south		1.0		3.4	CR 76	2.82		
					CR 77W	1.04		
2011					Subtotal:	134.44		
CSAH 6 from 5.27 miles est of TH 65 to TH 210		8.08	2.8/3.0	2.7-3.0	Grand Total:	280.06		
CSAH 10 from TH200 to 8.12 miles south		8.12		3.2 2.9				
CSAH 32 from CSAH 31 to Carlton County Line		3.01	3.6/3.7	3.5				
CR 241		0.3						
2012								
CSAH 3 from US Hwy 169 to n. jct. CSAH 5		5.6	3.3/3.5	3.1-3.5				
CSAH 5 from TH 47 to CR 50		1		3-3.4				
CSAH 14 from TH 65 to 2.3 miles northeast		2.3						
CSAH 36 from CSAH 14 to 1.6 mile north		1.6	2.6/2.9	2.6-2.8				
Sub-total:		145.62						

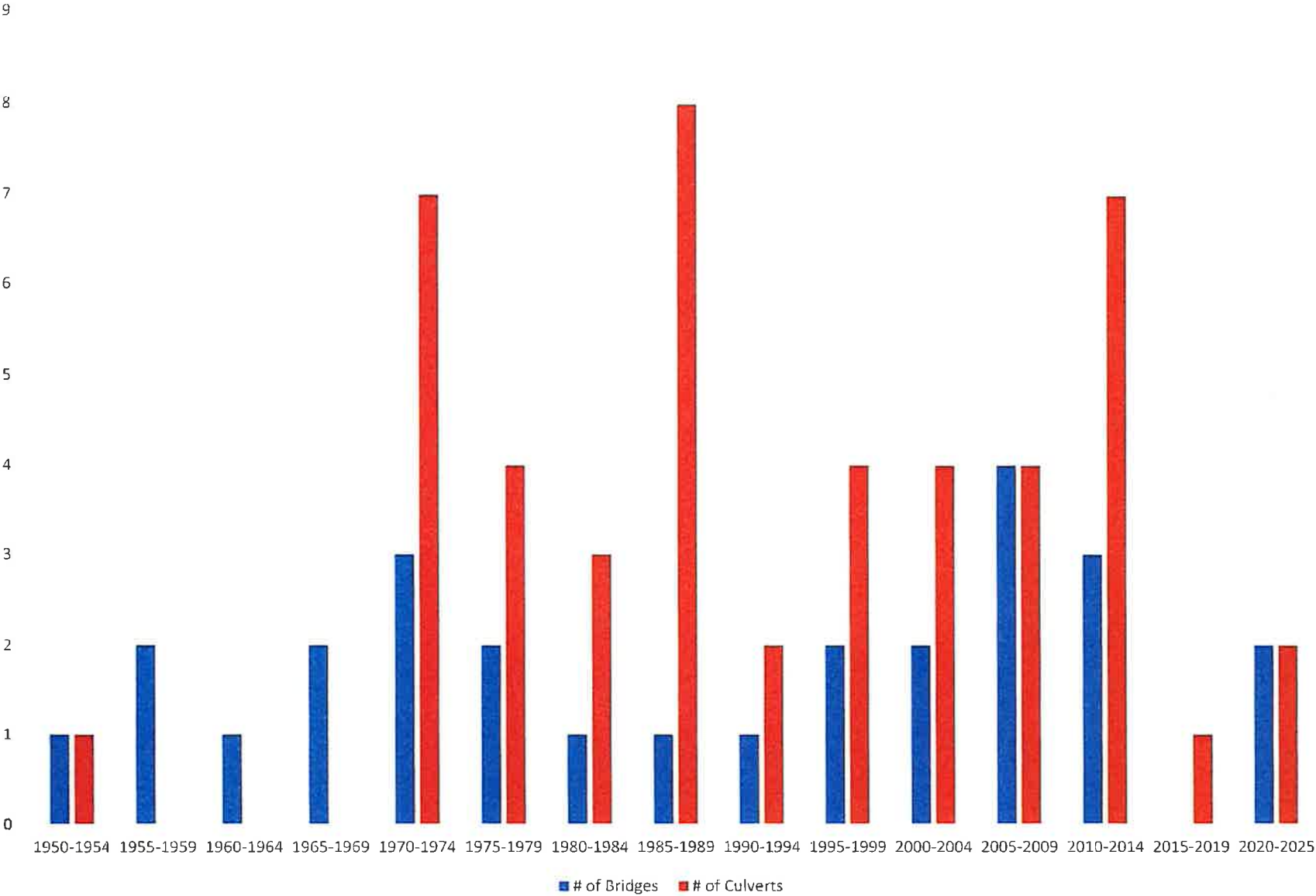
Updated: 8-15-22

2021 Pavement Quality Summary		
	Good (RQI≥3)	Poor (RQI<3)
MnDOT District 1 (non-NHS)*	65.2%	5.9%
MnDOT District 3 (non-NHS)*	71.4%	0.7%
Aitkin County Roads and County State-Aid Highways	80.0%	0.4%
<i>*Based on 2020 Report</i>		

Pavement Age of Aitkin County Highways



Bridge Age of Bridges on Aitkin County Highways



Priority Rating Worksheet

(Highlighted Segments Included in 2023-2027 Capital Road Improvement Program)

8/15/2022

Road Number	Segment Description	Length	2016 ADT (20 point decile)	Residence Density (20 point decile)	Functional Classification (10 points)	Sight Distance Deficiency (10 point decile)	Improved Route System Layout (10 points)	Privately-Owned Land (10 point decile)	Priority Rating (80 points)
5.2	CR 53 to TH 210	4.7	12	20	10	6	10	7	58.7
71		1	20	12	4	1	10	10	48.0
1	3.6 miles N of CSAH 22 to CSAH 3	7.4	16	6	10	2	10	6	44.6
30	TH 65 to CSAH 16	7	16	14	7	6	0	10	44.0
51	TH 18 to CSAH 28	4.77	12	14	4	3	10	8	43.8
62.1	2 miles N of TH 210 to CR 71	1.36	20	6	4	1	10	10	42.0
64.2	CSAH 32 to 5 miles North	5	16	16	4	3	0	3	39.3
50	CSAH 5 to CR 58	2.95	18	2	4	3	10	10	38.0
13	CSAH 16 to Carlton County Line	5.6	12	2	7	4	10	5	35.5
62.2	CR 71 to 1 mile south of TH 232	3	10	8	4	1	10	10	34.0
19.2	CSAH 20 to CSAH 29	2	14	4	10	5	0	3	33.3
19.1	Cass County Line to CSAH 20	4.8	6	10	10	7	0	2	33.2
5.1	CR 50 to CR 53	5.9	8	10	10	4	0	10	33.0
57.1	TH 65 to 5 miles east	5	14	8	4	5	0	10	32.0
27	CSAH 13 to TH 27	6.6	4	6	7	4	10	9	31.9
74		2.07	4	6	4	4	10	10	29.0
36.2	CR 65 to 1.5 miles N of CSAH 14	5.2	8	6	7	7	0	5	28.5
59		4.28	16	4	4	3	0	10	28.0
63		2.69	6	8	4	9	0	10	28.0
54	End of Blacktop to TH 210	4.88	8	2	4	3	10	10	28.0
29.3	CSAH 7 to CR 67	4.54	10	6	7	4	0	6	27.6
36.1	TH 65 to CR 65	4.2	8	4	7	8	0	3	27.3
65		8.96	6	6	4	10	0	3	26.3
61.1	TH 65 to TH 18	4.23	6	10	4	5	0	10	26.0
72		1.2	8	8	4	5	0	10	26.0
64.1	5 miles N of CSAH 32 to CSAH 14	4.49	6	10	4	5	0	6	25.6
21	CSAH 1 to TH 169	6.9	6	4	10	4	0	10	25.0
75	TH 27 to CSAH 34	6.9	4	8	7	5	0	6	24.6
73		5.1	14	4	4	2	0	6	24.6
5.3	CSAH 3 to CSAH 18	7.81	10	6	7	1	0	5	24.5
26.3	TH 65 to CSAH 2	9.1	8	4	7	4	0	3	23.3
29.4	CR 67 to TH 200	2	10	4	7	2	0	2	23.2
26.1	CSAH 38 to CR 59	5	8	4	7	3	0	10	23.0
60W		1.08	10	6	4	2	0	10	23.0
35	TH 65 to Itasca County Line	0.4	8	4	7	1	0	10	21.0
20	Cass County Line to CSAH 19	5.9	6	4	7	3	0	6	20.6
61.2	TH 18 to CSAH 23	7	4	6	4	5	0	9	19.9
68.1	CSAH 29 to dead end west	2	4	6	4	5	0	8	19.8
26.2	CR 59 to TH 65	6	4	6	7	2	0	7	19.7
29.2	CR 68 to CSAH 7	6.3	6	4	7	2	0	1	19.1
34	CSAH 2 to CR 75	6.3	4	4	7	3	0	6	18.6
80		1.7	6	4	4	3	0	10	18.0
29.1	2.3 miles N of CSAH 3 to CR 68	3.3	6	2	7	2	0	3	17.3
57.2	TH 27 to 4 miles North	4.04	2	4	4	6	0	10	17.0
58		2.67	4	4	4	4	0	8	16.8
67		5.17	2	4	4	6	0	8	16.7
56.1	TH 210 to CR 50	2	8	2	4	1	0	6	15.6
68.2	CSAH 29 to TH 169	3.3	4	4	4	3	0	2	15.2
68.3	TH 169 to dead end east	1.2	4	4	4	2	0	8	14.8
18.2	CSAH 5 to CSAH 10	6.1	2	2	7	2	0	10	14.0
56.2	CR 50 to CSAH 5	6.4	2	2	4	5	0	8	13.7
18.1	TH 169 to CSAH 5	6.1	2	2	7	1	0	3	12.3

2016 ADT: Up to 20 points in ten decile ranges based on actual 2016 Average Annual Daily Traffic Count

Residence Density: Up to 20 points in ten decile ranges based on total number of residences on segment and adjacent road segments

Functional Classification: 10 points for major collector classification, 7 points for minor collector classification, 4 points for local road classification

Sight Distance Safety Rating: Up to 10 points in ten decile ranges based on horizontal and vertical curve sight distance deficiency

Improved Route System Layout: 10 points if either a) part of route is improved or b) does not have parallel improved route within 4 miles for 50% of segment length, and segment connects two improved routes within a distance of less than 8 miles

Privately Owned Land: Up to 10 points based on percentage of privately-owned land adjacent to segment