



Board of County Commissioners Agenda Request

5B
Agenda Item #

Requested Meeting Date: 8-24-21

Title of Item: 2022 Budget Presentation

<input checked="" type="checkbox"/> REGULAR AGENDA <input type="checkbox"/> CONSENT AGENDA <input type="checkbox"/> INFORMATION ONLY	Action Requested: <input type="checkbox"/> Approve/Deny Motion <input type="checkbox"/> Adopt Resolution (attach draft) <i>*provide copy of hearing notice that was published</i>	<input type="checkbox"/> Direction Requested <input checked="" type="checkbox"/> Discussion Item <input type="checkbox"/> Hold Public Hearing*
Submitted by: John Welle		Department: Highway Department
Presenter (Name and Title): John Welle, Aitkin County Engineer		Estimated Time Needed: 40 minutes
Summary of Issue: Attached are the detailed 2022 budget sheets for the Highway Department Budget including the Operations, Capital Equipment/Facilities, and Capital Infrastructure budgets. The 2022-2026 capital facilities-equipment plan and the 2022-2026 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? <input type="checkbox"/> Yes <input type="checkbox"/> No What is the total cost, with tax and shipping? \$ Is this budgeted? <input type="checkbox"/> Yes <input type="checkbox"/> No <i>Please Explain:</i>		

2022 Highway Department Budget Summary

Revenue:		2019 Actual	2020 Actual	Adopted 2021 Budget	2021 As of 6-30-21	Proposed 2022 Budget
Operating	\$	4,678,462	\$ 4,959,470	\$ 4,745,041	\$ 1,872,233	\$ 5,468,164
Capital Equipment/Facilities	\$	605,000	\$ 516,400	\$ 793,885	\$ 547,885	\$ 576,000
Capital Infrastructure	\$	4,124,791	\$ 6,032,164	\$ 5,542,450	\$ 1,702,276	\$ 4,023,600
Total:	\$	9,408,253	\$ 11,508,034	\$ 11,081,376	\$ 4,122,394	\$ 10,067,764
Expenditures:						
Operating	\$	4,891,474	\$ 4,520,375	\$ 4,745,041	\$ 2,290,399	\$ 5,468,164
Capital Equipment/Facilities	\$	770,600	\$ 787,050	\$ 793,885	\$ 811,441	\$ 576,000
Capital Infrastructure	\$	4,210,865	\$ 6,016,514	\$ 5,542,450	\$ 1,543,765	\$ 4,023,600
Total:	\$	9,872,939	\$ 11,323,939	\$ 11,081,376	\$ 4,645,606	\$ 10,067,764

2021 Highway Department Budget Levy Revenue Summary

		2019 Actual	2020 Actual	Adopted 2021 Budget	2021 As of 6-30-21	Proposed 2022 Budget
Operating	\$	1,260,780	\$ 1,337,007	\$ 1,344,701	\$ 280,946	\$ 1,323,634
Capital Equipment/Facilities	\$	605,000	\$ 516,400	\$ 547,885	\$ 547,885	\$ 576,000
Capital Infrastructure	\$	600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 650,000
Total:	\$	2,465,780	\$ 2,453,407	\$ 2,492,586	\$ 1,428,831	\$ 2,549,634
% Increase Over Previous Year's Budget:						2.29%

Highway Department Operations Budget Fund 003

Revenue:

	2019 Actual	2020 Actual	Adopted 2021 Budget	2021 As of 6-30-21	Proposed 2022 Budget
5001 Taxes, Aids, etc.	1,260,780	1,356,950	1,344,701	280,946	1,323,634
5227 Twp Road Allotment Gas Tax	437,020	455,617	418,200	419,081	458,000
5251 In Lieu Apportionments and Receipts				2,422	
5330 State Grants - Disaster Funds	-	-	-	-	
5425 Federal Grants - FEMA	114,348	-	-	-	
5430 Federal FHWA - ER Funds	-	-	-	-	
5840 Misc. Refunds and Reimbursements	54,079	75,398	50,000	3,547	285,000
5846 State-aid: Town Bridge Funds	16,371	-	-	-	
5848 County Bridge Bonding	-	-	-	-	
5850 State-aid: Regular Construction Funds	135,545	139,008	90,000		420,000
5851 State-aid: Municipal Construction Funds	-	46,798	10,000	2,492	10,000
5852 State-aid: Regular Maintenance Funds	1,990,841	2,229,073	2,151,560	1,011,344	2,212,320
5853 State-aid: Municipal Maintenance Funds	116,761	126,245	100,000	53,677	120,000
5854 Township/City/Public Drainage Ditch Receipts	449,984	448,158	358,450	40,345	525,710
5855 Individual Receipts	24,294	23,552	14,330	14,597	13,500
5857 Culverts (Individual) Receipts	13,368	3,440	2,000	8,621	3,000
5866 Auction Receipts	107	13,283	3,000	19,250	5,000
5881 Wetland Bank Credits	64,965	41,948	10,000	15,911	-
5947 Transfer In	-	-	-	-	
5948 County Ditch/County Development Funds			192,800		92,000
Total Revenue:	\$ 4,678,462	\$ 4,959,470	\$ 4,745,041	\$ 1,872,233	\$ 5,468,164

Highway Department Operations Budget Fund 003

Department 301 (Administration) Expenditures:

	2019 Actual	2020 Actual	Adopted 2021 Budget	2021 As of 6-30-21	Proposed 2022 Budget
6101 Salaries, Full Time	345,927	374,431	370,201	165,216	388,462
6108 Meals Reimbursed	62	11	150	7	100
6124 Medicare - Employer (1.45%)	4,693	5,104	5,367	2,281	5,633
6148 Employer Deductible Contribution- H.S.A.	12,040	12,040	11,040	5,520	11,040
6150 Health Insurance - Employer	47,819	50,272	46,339	23,170	49,701
6152 Life Insurance - Employer	318	322	372	186	399
6154 Long Term Disability - Employer	603	854	945	433	1,061
6159 PERA - Employer	24,270	26,185	25,853	11,827	27,168
6165 FICA - Employer (6.2%)	19,794	20,967	22,953	9,755	24,085
6205 Postage	1,296	296	1,200	574	500
6240 Dues	3,060	3,111	3,070	3,186	3,200
6241 Registration Fees/Prof. Serv./Printing	1,354	1,642	1,500	593	1,500
6296 Meeting Expenses	3,030	(64)	1,000	1,085	1,500
6300 Service Contracts	12,636	4,837	13,790	11,190	14,000
6352 Insurance	51,324	51,620	56,590	56,154	58,960
6353 Workers Compensation Insurance	5,114	3,981	4,180	4,197	4,410
6400 Supplies and Materials	6,787	7,558	6,000	5,975	6,000
6900 Transfers to Other Funds	\$ -	80,800	-	-	-
Total Administration Expenditures:	\$ 540,127	\$ 643,968	\$ 570,550	\$ 301,348	\$ 597,719

Highway Department Operations Budget Fund 003

Department 302 (Engineering) Expenditures:

	2019 Actual	2020 Actual	Adopted 2021 Budget	2021 As of 6-30-21	Proposed 2022 Budget
6101 Salaries	316,029	351,003	372,892	137,051	389,203
6102 Salaries, Part Time	-	587	-		8,301
6108 Meals Reimbursed	59	43	100		100
6109 Overtime	18,978	51,551	31,982	5,905	46,470
6124 Medicare - Employer (1.45%)	4,715	5,679	5,872	1,968	6,438
6148 Employer Deductible Contribution- H.S.A.	2,260	2,260	3,260		2,260
6150 Health Insurance - Employer	63,571	67,342	84,173	33,600	75,736
6152 Life Insurance - Employer	442	427	594	206	483
6154 Long Term Disability - Employer	823	900	1,027	405	1,140
6159 PERA - Employer	25,124	29,555	29,774	10,614	32,675
6165 FICA - Employer (6.2%)	20,162	24,142	25,103	8,416	27,527
6296 Meeting Expense/Physicals	8,340	9,247	6,000	873	6,000
6300 Service Contracts				5,799	6,000
6353 Workers Compensation Insurance	2,452	1,749	1,840	1,775	1,860
6411 Safety Footwear	347	525	725	145	725
6449 Engineering Supplies	4,276	5,327	6,000	6,652	6,000
6820 Health Insurance Fund	-	-	-		
Total Engineering Expenditures:	\$ 467,578	\$ 550,336	\$ 569,342	\$ 213,409	\$ 610,918

Highway Department Operations Budget Fund 003

Department 303 (Road Maintenance) Expenditures:

	2019 Actual	2020 Actual	Adopted 2021 Budget	2021 As of 6-30-21	Proposed 2022 Budget
6101 Salaries, Full Time	961,831	1,034,736	1,063,751	470,867	1,179,296
6102 Salaries, Part Time	20,885	-	-	-	18,966
6108 Meals Reimbursed	15	14	-	17	100
6109 Overtime	52,165	41,513	55,488	19,555	57,173
6124 Medicare - Employer (1.45%)	14,481	15,186	16,232	6,785	18,205
6148 Employer Deductible Contribution- H.S.A.	2,260	2,260	2,260	1,130	2,260
6150 Health Insurance - Employer	241,389	246,930	249,337	124,669	265,576
6152 Life Insurance - Employer	1,451	1,516	1,749	875	1,995
6154 Long Term Disability - Employer	2,448	2,749	2,842	1,411	3,439
6159 PERA - Employer	75,146	80,091	81,964	36,414	92,302
6165 FICA - Employer (6.2%)	61,921	64,193	69,391	29,014	77,835
6199 Employee Recognition				(225)	
6254 Utilities	57,481	55,006	55,000	35,250	57,000
6296 Meeting Expense/Physicals	2,762	772	2,000	2,296	2,500
6297 Shop Fuel	24,149	18,635	22,000	12,491	24,000
6298 Shop Maintenance and supplies	64,202	49,502	54,000	30,927	55,000
6352 Insurance	5,297	5,672	6,240	7,283	7,650
6353 Workers Compensation Insurance	48,441	34,504	36,230	33,638	35,320
6411 Safety Footwear	2,356	2,530	2,465	570	2,610
6513 Motor Fuel and Lubricants	225,541	187,997	210,000	81,232	266,800
6514 Pavement Striping	45,995	51,961	49,000	-	54,000
6515 Culverts	75,658	98,695	57,000	43,328	60,000
6516 Signs and Posts	24,424	14,619	15,000	14,394	20,000
6517 Asphalt, Crack Sealant, Etc	37,371	49,722	54,000	47,747	73,000
6518 De-icing Salt	126,725	105,426	148,000	84,670	136,000
6519 Gravel & Royalty	292,758	51,012	120,000	3,750	170,000
6520 Calcium Chloride	228,430	311,517	335,000	90,674	522,000
6521 Other Maintenance Supplies/Services(Road only)	415,774	40	185,000	48,419	306,500
6524 Sand for Salt Mixture	27,544	33,855	25,000	-	10,000
6590 Repair and Maintenance of Equipment	272,746	269,000	240,000	106,934	240,000
6825 Municipal Maintenance Agreements	35,103	40,804	28,000	22,447	42,000
6830 Twp Road Allotment Gas Tax	437,020	455,617	418,200	419,081	458,000
Total Road Maintenance Expenditures:	\$ 3,883,769	\$ 3,326,072	\$ 3,605,149	\$ 1,775,643	\$ 4,259,527
Grand Total Operations Expenditures:	\$ 4,891,474	\$ 4,520,375	\$ 4,745,041	\$ 2,290,399	\$ 5,468,164

Highway Department Capital Equipment and Facilities Budget Fund 308

	2019 Actual	2020 Actual	Adopted 2021 Budget	2021 As of 6-30-21	Proposed 2021 Budget
Revenue:					
5001 Taxes, Aids, etc.	605,000	516,400	547,885	547,885	576,000
5840 Miscellaneous Receipts	-	-	-	-	-
5947 Transfer from Fund Balance			\$ 246,000		\$ -
Total Revenue:	\$ 605,000	\$ 516,400	\$ 793,885	\$ 547,885	\$ 576,000
Expenditures:					
6600 Capital Outlay - Facilities	8,216	156,631	366,000	663,975	90,000
6600 Capital Outlay - Equipment	762,384	630,419	427,885	147,466	486,000
Total Expenditures:	\$ 770,600	\$ 787,050	\$ 793,885	\$ 811,441	\$ 576,000

Highway Department Capital Infrastructure Budget Fund 307

	2019 Actual	2020 Actual	Adopted 2021 Budget	2021 As of 6-30-21	Proposed 2022 Budget
Revenue:					
5001 Taxes, Aids, etc.	600,000	600,000	600,000	600,000	650,000
5330 State Disaster Funds				10,414	
5425 Federal Disaster Funds				31,241	
5840 Misc. Receipts	-	4,994	-	-	-
5841 Federal Transportation Funds	133,042	217,513	91,000	871	399,090
5842 State Park Funds	19,018	-	284,000	-	-
5844 State-aid Disaster Funds	-	-	-	-	-
5846 Town Bridge Funds	163,770	-	75,000	-	50,000
5848 LBRP (Local Bridge Replacement Program)	-	-	691,785	-	546,417
5849 LRIP (Local Road Improvement Funds)	-	-	-	-	-
5850 State-aid Regular Construction Funds	3,169,344	5,078,460	3,800,665	1,047,833	1,883,910
5851 State-aid Municipal Construction Funds	39,618	131,196	-	11,919	-
5854 Township/City/Private/Other Funds	-	-	-	-	48,300
5864 Trunk Highway Turnback	-	-	-	-	-
5865 DEED Money	-	-	-	-	-
5947 Transfer from Fund Balance	-	-	-	-	445,883
Total Revenue:	\$ 4,124,792	\$ 6,032,164	\$ 5,542,450	\$ 1,702,277	\$ 4,023,600
Expenditures:					
6230 Printing and Publishing	1,692	1,091	2,300	904	1,500
6260 Professional Services	166,298	189,007	137,000	5,789	20,000
6262 Contract Payments	3,660,406	5,779,615	5,330,650	1,474,461	3,827,100
6295 Utility Moves	-	17,790	30,000	62,611	-
6362 Right of Way	382,469	29,011	-	-	175,000
6311 Transfer to Fund Balance	-	-	42,500	-	-
Total Expenditures:	\$ 4,210,865	\$ 6,016,514	\$ 5,542,450	\$ 1,543,765	\$ 4,023,600

Notes: Revenue line item 5001 based on proposed 2019-2023 Capital Road Improvement Program average per year.

2022 Disbursements						2022 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	LBRP/LRIP Funds	State-aid Regular Construction	State-aid Municipal Construction	Township/City/State/Other Funds		
2021 Projects																
C.P. 001-027-001			\$ 200,000			\$ 200,000									\$800,200 budgetted previous years	
C.P. 001-079-002			\$ 32,000			\$ 32,000									\$130,100 budgetted previous years	
S.A.P. 001-598-014			\$ 730,000			\$ 183,583					\$ 546,417				\$45,000 budgetted previous years	
2022 Projects																
S.A.P. 001-599-042			\$ 50,000							\$ 50,000					\$235,250 budgetted previous years	
S.A.P. 001-617-004	\$ 300		\$ 1,200,000									\$ 1,200,300				
C.P. 001-076-002	\$ 300		\$ 680,000			\$ 680,300										
S.A.P. 001-618-005															\$930,300 budgetted previous years	
CH 22, 23, 24 Chip Seal	\$ 300		\$ 465,000									\$ 465,300				
S.P. 001-070-007	\$ 300		\$ 230,100				\$ 207,090					\$ 23,310				
S.P. 001-090-003	\$ 300		\$ 240,000				\$ 192,000							\$ 48,300		
S.A.P. 001-599-041															\$120,250 budgetted previous years	
Future Projects																
S.A.P. 001-605-014					\$175,000							\$ 175,000			\$50,000 budgetted previous years	
S.A.P. 001-611-003															\$205,000 budgetted previous years	
S.A.P. 001-605-015		\$ 10,000										\$ 10,000			\$40,000 budgetted previous years	
S.A.P. 001-605-016		\$ 10,000										\$ 10,000			\$40,000 budgetted previous years	
S.A.P. 001-598-016															\$35,000 budgetted previous years	
Totals:	\$ 1,500	\$ 20,000	\$ 3,827,100	\$ -	\$ 175,000	\$ 1,095,883	\$ 389,090	\$ -	\$ -	\$ 50,000	\$ 546,417	\$ 1,883,910	\$ -	\$ 48,300		

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

DESCRIPTION	PROJ LIFE	2022	2023	2024	2025	2026	5 YEAR TOTAL	FUNDING SOURCE	COMMENTS
Shop Reconfiguration/Addition		-		100,000	100,000	100,000	300,000		To address shortage of bay length for trucks w/plows
Total:		\$ -	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 300,000		

Jacobson Area Maintenance Facility:

- constructed 1992

DESCRIPTION	PROJ LIFE	2022	2023	2024	2025	2026	5 YEAR TOTAL	FUNDING SOURCE	COMMENTS
							-		
Total:		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		

McGrath Area Maintenance Facility:

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

DESCRIPTION	PROJ LIFE	2022	2023	2024	2025	2026	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	2022	2023	2024	2025	2026	5 YEAR TOTAL	FUNDING SOURCE	COMMENTS
Diesel Fuel Tank Replacement			40,000				40,000		Installed 1988
Total:		\$ -	\$ 40,000	\$ -	\$ -	\$ -	\$ 40,000		

Palisade Area Maintenance Facility:

- constructed 2004

DESCRIPTION	PROJ LIFE	2022	2023	2024	2025	2026	5 YEAR TOTAL	FUNDING SOURCE	COMMENTS
Cold Storage Building		50,000	20,000				70,000		
Diesel Fuel Tank Replacement		40,000					40,000		
Total:		\$ 90,000	\$ 20,000	\$ -	\$ -	\$ -	\$ 110,000		

Swatara Area Maintenance Facility:

- constructed 2006

DESCRIPTION	PROJ LIFE	2022	2023	2024	2025	2026	5 YEAR TOTAL	FUNDING SOURCE	COMMENTS
Total:		\$0	\$0	\$0	\$0	\$0	\$0		
Grand Total Capital Facilities:		\$90,000	\$100,000	\$100,000	\$100,000	\$100,000	\$490,000		

ADMIN
Aitkin County Highway Department

EQUIPMENT DESCRIPTION	SERIAL # MILEAGE	AQ. DATE AQ. COST	PROJ. LIFE	2022	2023	2024	2025	2026	5 YEAR TOTAL	FUNDING SOURCE	COMMENTS
Unit #631		03/06/00									
Office Desk - Maintenance Foreman		\$ 3,031.74	10								
Unit #632		03/06/00									
Office Desk - Asst Maint. Foreman		\$ 2,323.78	10								
Unit #644		1/22/2020									
Computer - Maintenance Foremen		\$ 867.00	4								
Unit #646		11/27/2007									
NEC Projector		\$ 1,261.73	0								
Unit #652 (John)		12/28/17									
Laptop Thinkpad W500- Engineer		\$ 2,089.07	4				2,000		2,000		
Unit #653 (Carol)		1/22/2020									
Office Assistant Computer		\$ 867.00	4				1,200		1,200		
Unit #657 (John)		7/2/2018									
Engineer Computer		\$ 1,376.00	4		1,300				1,300		
Unit #658		12/7/2016									
Maintenance Employees Computer #2		\$ 910.00	4								
Unit #659 (Butch)		12/7/2016									
Assistant Maint Supervisor Computer		\$ 1,288.00	4								
Unit #661		1/22/2020									
Mechanic Computer		\$ 867.00	4								
Unit #662		1/22/2020									
Maintenance Employees Computer #1		\$ 867.00	4								
Unit #663		4/16/2021									
Aitkin Office Furniture		\$ 60,966.81	20								
Unit #664 (Mike)		05/21/21									
Asst. Engineer Computer		\$ 1,699.00	4					1,800	1,800		
Unit #665 (Dave)		05/21/21									
ROW - Permitting Agent Computer		\$ 1,699.00	4					1,800	1,800		
Unit #666 (Sarah)		5/21/2021									
Accountant Computer		\$ 1,095.00	4					1,300	1,300		
Unit #785		10/1/2013									
NewRoads ACS Software		\$ 9,084.38	30								
Total:				\$ -	\$ 1,300	\$ -	\$ 3,200	\$ 4,900	\$ 9,400	R&B levy	

ATV

Aitkin County Highway Department

EQUIPMENT DESCRIPTION	SERIAL # MILEAGE	AQ. DATE AQ. COST	PROJ. LIFE	2022	2023	2024	2025	2026	5 YEAR TOTAL	FUNDING SOURCE	COMMENTS
Unit #13 2011 Polaris 500 Ranger ATV	4XARH50A6BB070008 2,252 miles	4/15/2011 \$ 9,894.94	8						-		
Unit #720 1998 Polaris ATV	4XAACH2A2WB052100 1,942 miles	05/13/98 \$ 4,897.94	8						-		
Total:				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	R&B levy	

BELLY DUMPS

Aitkin County Highway Department

EQUIPMENT DESCRIPTION	SERIAL # MILEAGE	AQ. DATE AQ. COST	PROJ. LIFE	2022	2023	2024	2025	2026	5 YEAR TOTAL	FUNDING SOURCE	COMMENTS
Unit #499 1995 Red River Belly Dump	1R9BD423XS1051056 151,927 miles	05/04/95 \$ 26,417.80	20		22,000				22,000		Acquire used.
Unit #501 2001 Red River Belly Dump	4ZYBD42311000233 121,376 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	

CONST
Aitkin County Highway Department

EQUIPMENT DESCRIPTION	SERIAL # MILEAGE	AQ. DATE AQ. COST	PROJ. LIFE	2022	2023	2024	2025	2026	5 YEAR TOTAL	FUNDING SOURCE	COMMENTS
Unit #435: (Drill Rig) 1986 Ford Pickup	1FTEF26N9GP886481 135,702 miles	02/20/96 \$ 5,872.50	5								
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 776 Extra Engineer Station Computer		5/13/2009 \$ 1,039.44	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 \$ 6,654.36	4		7,000				7,000		
Unit #787 Eng. Tech Laptop's - 4		1/1/2018 \$ 7,210.80	4				7,000		7,000		
Total:				\$ -	\$ 7,000	\$ -	\$ 7,000	\$ -	\$ 14,000	R&B levy	

DUMP TRUCKS

Aitkin County Highway Department

EQUIPMENT DESCRIPTION	SERIAL # MILEAGE	AQ. DATE AQ. COST	PROJ. LIFE	2022	2023	2024	2025	2026	5 YEAR TOTAL	FUNDING SOURCE	COMMENTS
Unit #126: (Swatara - Florian) 2000 Ford Single Axle	2FZHDJBB0YAB12881 111,369 miles	10/22/99 \$ 89,105.34	8	22,000					22,000		\$195k bud. in 2021
Unit #127: (Spare) 2000 Ford Single Axle	2FZHOJBB2YAB12882 114,872 miles	10/22/99 \$ 93,834.69	8						-		Keep as spare.
Unit #128: (Palisade - Josh) 2001 Sterling LT9511	2FZHAZAS31AJ37253 307,943 miles	04/17/01 \$ 110,632.06	8	127,000					127,000		\$90k bud. in 2021.
Unit #131: (McGregor - Kyle) 2001 Sterling LT9511	2FZHAZAS91AJ37256 224,766 miles	04/17/01 \$ 109,972.80	8	217,000					217,000		
Unit #135 (Aitkin - Greg) 2012 International Tandem	1HTGRSJT1CJ634654 167,076 miles	2/13/2012 \$ 180,115.33	8					230,000	230,000		Acquire in 2024.
Unit #136 (Aitkin - Randy) 2012 International Tandem	1HTGRSJT1CJ634655 167,858 miles	2/13/2012 \$ 180,115.32	8				195,000	35,000	230,000		Acquire in 2024.
Unit 137 (Scott - McGregor) 2012 International Tandem	1HTGRSJT1CJ634656 117,233 miles	2/13/2012 \$ 181,528.21	8			195,000	35,000		230,000		Acquire in 2024.
Unit 138 (Aitkin - Al) 2012 International Tandem	1HTGRSJT1CJ634657 139,585 miles	2/13/2012 \$ 181,837.07	8				230,000		230,000		Acquire in 2024.
Unit 139 (McGrath - Ben) 2016 Mack GU 713	1M2AX09C5GM031563 72,450 miles	11/25/2015 \$ 182,454.37	8					220,000	220,000		Acquire in 2027.
Unit 140 (Palisade - Gary) 2016 Mack GU 713	1M2AX09C7GM031564 59,765 miles	11/25/2015 \$ 182,454.37	8						-		Acquire in 2027.
Unit 141 (McGrath - Randy) 2016 Mack GU 713	1M2AX09C9GM031565 58,343 miles	11/25/2015 \$ 182,454.37	8						-		Acquire in 2027.
Unit 142 (Jacobson) 2010 Mack GU812 Single Axle	1M2AX11C0AM001296 105,491 miles	10/30/2018 \$ 93,234.00	8						-		
Unit 143 (Palisade - Don) 2019 Mack GR64F	1M2GR3C1KM011697 30,935 miles	5/2/2019 \$ 192,262.32	8						-		
Unit 144 (Aitkin - Rick) 2020 Mack GR64F	1M2GR3GC1LM011698 52,739 miles	5/2/2019 \$ 192,262.32	8						-		
Unit 145 (McGregor - Dave) 2019 Mack GR64F	1M2GR3GC5KM011699 46,842 miles	5/2/2019 \$ 192,262.32	8						-		
Unit 146 (Chassis Only) 2015 International ProStar	1HSDJAPR1FH528155 338,223 miles	3/27/2020 \$ 51,707.50	8						-		
Chassis Only Tandem Truck					52,000				52,000		Acquire used.
Total:				\$ 366,000	\$ 52,000	\$ 195,000	\$ 460,000	\$ 485,000	\$ 1,558,000	R&B levy	

LOADERS

Aitkin County Highway Department

DESCRIPTION	SERIAL # MILEAGE	AQ. DATE AQ. COST	PROJ. LIFE	2022	2023	2024	2025	2026	5 YEAR TOTAL	FUNDING SOURCE	COMMENTS
Unit #010 1989 Case 1840 Skidsteer	JAF 0046781 1,881 hours	06/30/91 \$ 14,320.00	5						-		
Unit #020 Bobcat Skidsteer	519025062 1,847 hours	8/21/2009 \$12,500	6						-		
Unit #366: 1985 John Deere Tractor-Loader	4S6575 7,659 hours	06/01/85 \$ 27,895.00	7						-		
Unit #371 (Aitkin) 2008 John Deere 624J Loader	DW624J2620150 3,387 hours	5/15/2008 \$ 102,623.40	10						-		
Unit #386: (Swatara) 2003 JD 410E Wheel Loader Backhoe	T0410EX885689 350 hours	11/21/2013 \$ 30,459.38	10						-		
Unit #389: (Jacobson) 1994 Ford Loader/Backhoe	A428046 3,443 hours	11/01/94 \$ 49,456.05	10			50,000			50,000		
Unit #391: (Palisade) 1997 Cat 938F Loader	1KM02373 5,359 hours	06/09/97 \$ 121,976.00	10						-		
Unit #397 (McGrath) John Deere Loader/Backhoe	T0310SG927807 2,756 hours	12/22/2003 \$ 45,382.85	12						-		
Unit #398 (McGregor) John Deere 624J Loader	DW624JZ591593 2,968 hours	4/8/2004 \$ 114,444.90	12						-		
Total:				\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ 50,000	R&B levy	

MAINT

Aitkin County Highway Department

EQUIPMENT DESCRIPTION	SERIAL # MILEAGE	AQ. DATE AQ. COST	PROJ. LIFE	2022	2023	2024	2025	2026	5 YEAR TOTAL	FUNDING SOURCE	COMMENTS
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 2,233 hours	3/21/2006 \$ 30,625.14	10								
Unit #041 2014 Cimline 230DH Gen IV Melter	974 hours	3/26/2015 \$ 36,495.00	5								
Unit #042 Ingersoll Rand Compressor	327328UBM288 1,124 hours	02/25/02 \$ 11,762.93	5								
Unit #43 Pavement Compactor CATCB24	24001325 496 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								\$4k buget 2021.
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 1,896 hours	6/27/2011 \$ 71,832.83	10		80,000				80,000		
Unit #306 2013 LB Performance RW35 Road Wid	91161 596 hours	3/27/2020 \$ 38,500.00	10								
Unit #369 1999 Self-propelled Steel Drum Roller	3TM01311 2,075 hours	11/16/2004 \$ 43,665.00	5								
Unit #372 2020 Volvo Excavator	EC140EL 632 hours	5/28/2020 \$145,406	10								
Unit #399 Caterpillar D5NLGP Dozer	ADK01236 3,329 hours	12/29/2004 \$ 107,649.54	12								
Unit #498 Water Tanker Trailer	OMA102901	6/1 1/2003 \$ 2,500.00	2								55k budget 2021 - Replace with dump box tank
Unit #815 Turfmaker 325 - Hydroseeder		3/17/2021 \$ 11,075.00	10								
Mastic Patch Trailer					70,000				70,000		
Total:				\$ -	\$ 150,000	\$ -	\$ -	\$ -	\$ 150,000	R&B levy	

MOTOR GRADERS

Aitkin County Highway Department

EQUIPMENT DESCRIPTION	SERIAL # MILEAGE	AQ. DATE AQ. COST	PROJ. LIFE	2022	2023	2024	2025	2026	5 YEAR TOTAL	FUNDING SOURCE	COMMENTS
Unit 200 (McGregor)	CAT0120MJD9W00208	2/28/2013									
Caterpillar 120M Motor Grader	5,560 hours	\$ 193,743.00	15								\$30k budget 2021
Unit 201 (McGrath - Randy)	CAT0120MPD9W00206	2/28/2013									Add wing
Caterpillar 120M Motor Grader	4,361 hours	\$ 193,743.00	15								
Unit 205: (Swatara)	1DW670GPCGF678041	11/17/2016									
2016 John Deere 670GP	2,620 hours	\$ 208,090.00	15								
Unit #206: (McGrath-Ben)	1DW670GPAGF678048	11/17/2016									
2016 John Deere 670GP	2,616 hours	\$ 208,090.00	15								
Unit #211: (Jacobson)	72V11844: Rebuilt '06	04/19/89									
Caterpillar 140G Motor Grader	16,520 hours	\$ 118,166.00	7		135,000	95,000			230,000		
Unit #213: (Palisade)	CAT0120MKM9C01011	11/27/2018									
Caterpillar 120M2 Motor Grader	1,897 hours	\$ 207,780.00	7								
Unit #214: (Aitkin)	1DW670GPCLF707211	7/15/2020									
2020 John Deere 670GP Motor Grader	636 hours	\$ 296,120.00	7								
Total:				\$ -	\$ 135,000	\$ 95,000	\$ -	\$ -	\$ 230,000	R&B levy	

PICKUPS

Aitkin County Highway Department

EQUIPMENT DESCRIPTION	SERIAL # MILEAGE	AQ. DATE AQ. COST	PROJ. LIFE	2022	2023	2024	2025	2026	5 YEAR TOTAL	FUNDING SOURCE	COMMENTS
Unit #440: (Mower) 1999 Ford Pickup	1FTSF30S7XEE77886 239,658 miles	06/24/99 \$ 27,307.66	5								
Unit #448 (mower) 2004 Ford F-150 4x4	2FTRF18W04CA57284 137,039 miles	9/9/2004 \$ 18,264.12	5								
Unit #453 (Maint.) (with lift) 2008 Ford F-250	1FTNF215X8ED 129,418 miles	1/2/2008 \$ 21,153.03	5	40,000					40,000		Crewcab diesel.
Unit #454 (Randy) 2008 Ford F-150	1FTRX14W58FC 123,637 miles	5/13/2008 \$ 20,588.85	5		28,000				28,000		
Unit #456 (Maint.) 2008 Ford F-350 Flatbed	1FDWF36Y88EE41635 71,220 miles	8/21/2008 \$ 25,893.33	5	40,000					40,000		Crewcab diesel.
Unit #458 (McGregor) 2010 Ford F150 CrewCab	1FTW1E82AFC37178 115,008 miles	5/21/2010 \$ 26,065.86	5				30,000		30,000		
Unit #459 (Austin) 2010 Ford F150	1FTEX1E81AKE10754 60,064 miles	5/14/2010 \$ 23,704.75	5				30,000		30,000		
Unit #460 (Survey) 2011 Ford F350 SD	1FD8W3B66BEA79874 120,910 miles	8/4/2010 \$ 39,336.40	5			45,000			45,000		
Unit #462 (Swatara) 2012 Chevy 4DR Ext.	1GC2KXCG3CZ177243 210,739 miles	12/19/2011 \$ 24,912.00	5		28,000				28,000		
Unit #464 (Dave) 2012 Ford F150 Ext Cab	1DRPX12VX8FB81383 52,998 miles	6/4/2012 \$ 12,000.00	5			29,000			29,000		
Unit #466: (Paul K) 2014 Ford F-150	1FTEX1EM3EKE13609 44,697 miles	04/10/2014 \$ 25,382.88	8								
Unit #468 (McGrath) 2007 Ford F-150	1FTPX14V37KD14388 145,366 miles	10/6/2015 \$ 17,895.95	5		28,000				28,000		
Unit #469: (Jacobson Shop) 2005 Ford F150	1FTRF145X5NA52845 124,854 miles	3/23/2016 \$ 12,795.75	5								
Unit #470 (Palisade Shop) 2006 GMC Sierra 150	1GTEK19B26Z186669 124,736 miles	5/26/2016 \$ 16,867.75	5								
Unit #471 (Sign Truck) 2017 Ford F-450 Super Duty	1FOUF4GY5HED18824 95,733 miles	5/12/2017 \$ 47,292.13	5					50,000	50,000		
Unit #472 (Butch) 2018 Ford F-250 SuperDuty	1FT7X2B63JEC64325 94,417 miles	6/5/2018 \$ 26,631.91	5			34,000			34,000		Keep for Palisade shop.
Unit #473 (Scott) 2018 Ford F-250 SuperDuty	1FT7X2B61JEC64324 96,919 miles	6/11/2018 \$ 33,554.41	5			34,000			34,000		Keep for Jacobson shop.
Unit #474 (Babcock) 2020 F-150 4x4 Extended Cab	1FTEX1EB2LKF17679 5,811 miles	8/31/2020 \$ 28,675.14	5								
Unit #475 (Mechanic) 2020 Ford F550 Super Duty	1FD0W5HT2LEE47703 6,610 miles	12/21/2020 \$ 98,293.73	5								
Unit #476 (Quale) 2021 GMC Sierra	3GTU9AEFXMG244525 1,891 miles	3/19/2021 \$ 30,433.83	5								
Total:				\$ 80,000	\$ 84,000	\$ 142,000	\$ 60,000	\$ 50,000	\$ 416,000	R&B levy	0.00

TRACTORS

Aitkin County Highway Department

EQUIPMENT DESCRIPTION	SERIAL # MILEAGE	AQ. DATE AQ. COST	PROJ. LIFE	2022	2023	2024	2025	2026	5 YEAR TOTAL	FUNDING SOURCE	COMMENTS
Unit #350 (Aitkin) John Deer Tractor/Mower	L06430H520378 6,794 hours	4/19/2007 \$ 75,268.00	10	40,000	50,000				90,000		
Unit #351 New Holland Tractor Mower	NT01172M 2,131 hours	10/6/2016 \$ 66,121.56	10						-		
Unit #352 New Holland - Guardrail Mower	946 hours	7/12/2019 \$ 103,838.50	10						-		
Total:				\$ 40,000	\$ 50,000	\$ -	\$ -	\$ -	\$ 90,000	R&B levy	

TRAILERS

Aitkin County Highway Department

EQUIPMENT DESCRIPTION	SERIAL # MILEAGE	AQ. DATE AQ. COST	PROJ. LIFE	2022	2023	2024	2025	2026	5 YEAR TOTAL	FUNDING SOURCE	COMMENTS
Unit #028 (Dozer) Felling Trailer	5FTDA292871027973	6/21/2006 \$ 15,819.88	8						-		
Unit #029 (Skid Loader) Felling Trailer	1F9FS1425M1072074	05/08/91 \$ 9,400.00	8						-		\$8k budget 2021
Unit #031 Survey Trailer	4P5671213B2160170	4/1/2011 \$ 1,760.25	8						-		
Unit #032 (McGrath) Felling Trailer	5FTDA242321017075	06/07/01 \$ 11,988.86	8						-		\$30k budget 2021
Unit #033 Homemade Culvert Trailer	DPWMN890722	01/01/90 \$ -	5						-		
Unit #034 (Jacobson) Towmaster Trailer	2471	06/21/88 \$ 10,705.35	8			32,000			32,000		
Unit #035 Homemade 6X8 Trailer	DPSMN890723	03/14/86 \$ 100.00	8						-		
Unit #051 (Trackhoe) 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 #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:

\$ 486,000 \$ 501,300 \$ 514,000 \$ 530,200 \$ 539,900 \$ 2,571,400

Proposed 2022 through 2026 Capital Road Improvement Plan

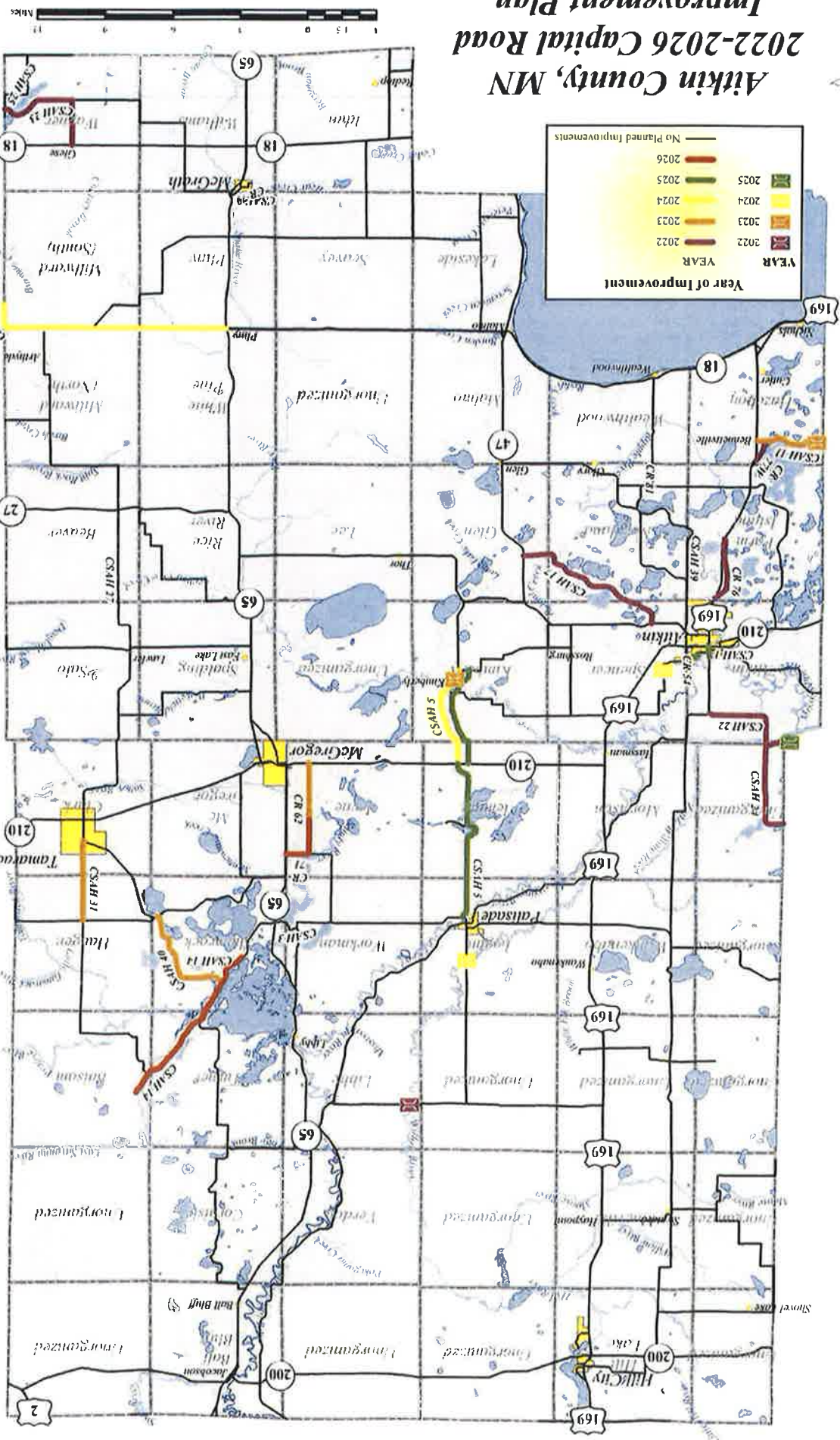
(*projects added from previous program*)

	Length	Location	Pavement Age/2019 RQI	Estimated Construction Cost
2022				
SAP 001-617-004 - CSAH 17 Resurfacing	7.1	CSAH 18 over Willow River	1997/2.9-3.0	\$ 1,200,000
SAP 001-618-005 - CSAH 18 Bridge Replacement	0.2		\$ 874,928	
CSAH 22 Chipseal	4.6		2001/3.4-3.5	\$ 155,000
CSAH 23 Chipseal	5.3		2003/3.3-3.8	\$ 180,000
CSAH 24 Chipseal	4.2		2001/3.6	\$ 145,000
CP 001-076-002 - CR 76 Resurfacing	2.82		1999/2.4-2.5	\$ 680,000
CR 77W Resurfacing	1.04		1999/2.5-2.6	\$ 170,000
SP 001-070-007 HSIP Pavement Markings				\$ 230,000
		Total:	\$ 3,634,928	
2023				
SAP 001-605-015 - CSAH 5 Bridge Replacement over Rice River	0.1	CSAH 5 over Rice River		\$ 850,000
SP 001-611-003 - CSAH 11 Widening/Resurfacing/Bridge Replacement	3.2		2003/2.8-3.0	\$ 3,400,000
SAP 001-631-003 - CSAH 31 Resurfacing	3.53		2002/2.3	\$ 600,000
SAP 001-640-003 - CSAH 40 Resurfacing	4.9		2002/2.8-2.9	\$ 850,000
CP 001-062-004 - CR 62 Resurfacing	2.64	TH 210 to 435th Street	2002/2.5-2.7	\$ 450,000
		Total:	\$ 6,150,000	
2024				
CSAH 2 Overlay	10.4	TH 65 to Pine County Line	2004/3.3	\$ 1,900,000
SAP 001-605-014 - CSAH 5 Reconstruction (Grading and Agg. Base)	4.7	CR 53 to TH 210		\$ 2,600,000
SAP 001-605-016 - CSAH 5 Bridge Replacement over Willow River	0.1			\$ 950,000
SAP 001-598-016 - CR 54 Bridge Replacement	0.5	CR 54 over Sissabagamah Creek		\$ 455,000
		Total:	\$ 5,905,000	
2025				
CSAH 1 Resurfacing	0.45	US Hwy 169 to Mississippi River	2005/2.2-2.4	\$ 180,000
CSAH 5 Bituminous Paving	4.7	CR 53 to TH 210		\$ 1,500,000
CSAH 5 Resurfacing	7.5	TH 210 to CSAH 3	2009/2.6-2.7	\$ 1,350,000
CSAH 22 Bridge Replacement over Wakefield Brook	0.1			\$ 400,000
CR 54 Resurfacing	0.83	7th Avenue NE to CR 83	2003/2.4-2.5	\$ 180,000
		Total:	\$ 3,610,000	
2026				
CSAH 14 Resurfacing/Culvert Replacements	1.88	2.3 miles NE of TH 65 to CSAH 40	2001/3.2	\$ 550,000
CSAH 14 Reconstruction	1.92	CSAH 40 to CSAH 36	2001/3.1-3.2	\$ 2,000,000
CSAH 14 Resurfacing/Culvert Replacements	4.44	CSAH 36 to State Park	2001/2.9	\$ 1,325,000
CR 62 Reconstruction (Grading and Agg. Base)	1.36	435th Street to CR 71		\$ 700,000
CR 71 Reconstruction (Grading and Agg. Base)	1			\$ 580,000
		Total:	\$ 5,155,000	
Five Year Total:				\$ 24,454,928



Aitkin County, MN 2022-2026 Capital Road Improvement Plan

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 2021 or included in 2022-2026 Capital Road Improvement Plan)

08/17/2021

Bridge Number	Roadway Name	Feature Crossed	Main Span Type	Deficiency Status	Sufficiency Rating	Status
7367	CSAH 12	RIPPLE RIVER	TIMB BEAM SPAN	S.D.	54.0	CLOSED
01502	CSAH 22	WAKEFIELD BROOK	TIMB SLAB SPAN	S.D.	62.0	OPEN
01503	CSAH 14	SAVANNA RIVER	TIMB SLAB SPAN	S.D.	65.7	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
01507	CSAH 12	RIPPLE RIVER	TIMB SLAB SPAN	S.D.	70.5	LOAD POSTED
01510	CR 82	SANDY RIVER	TIMB SLAB SPAN	S.D.	71.6	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
01513	CSAH 29	WILLOW RIVER	TIMB SLAB SPAN	ADEQ	85.9	LOAD POSTED
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
01518	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
92899	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	98.0	OPEN
01012	CSAH 3	MISSISSIPPI RIVER	PRESTR BM SPAN	ADEQ	98.4	OPEN
01J38	CSAH 32	CO DITCH #13	PRECST BOX CULV	ADEQ	98.8	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
01J33	CSAH 10	POKEGAMA CREEK	PRECST BOX CULV	ADEQ	99.6	OPEN
01J39	CSAH 15	CEDAR CREEK	PRECST BOX CULV	ADEQ	99.6	OPEN
92844	CSAH 3	DITCH	PRECST PIPE ARCH	ADEQ	99.6	OPEN
98703	CSAH 4	CREEK	PRECST BOX CULV	ADEQ	99.6	OPEN
93178	CSAH 38	SEVENTEEN CREEK	PRECST PIPE ARCH	ADEQ	99.8	OPEN
98811	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
91895	CNTY 64	PRAIRIE RIVER	PRECST PIPE ARCH	ADEQ	99.9	OPEN
91898	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 82	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 87	LITTLE HILL RIVER	PRECST PIPE ARCH	ADEQ	100.0	OPEN
94221	CNTY 81	STREAM	PRECST PIPE ARCH	ADEQ	100.0	OPEN
96142	CSAH 29	LITTLE HILL RIVER	PRECST PIPE ARCH	ADEQ	100.0	OPEN

74 BRIDGES

Bituminous Pavements - Age and RQI Data

(Highlighted Segments Included in 2022-2026 Capital Road Improvement Program)

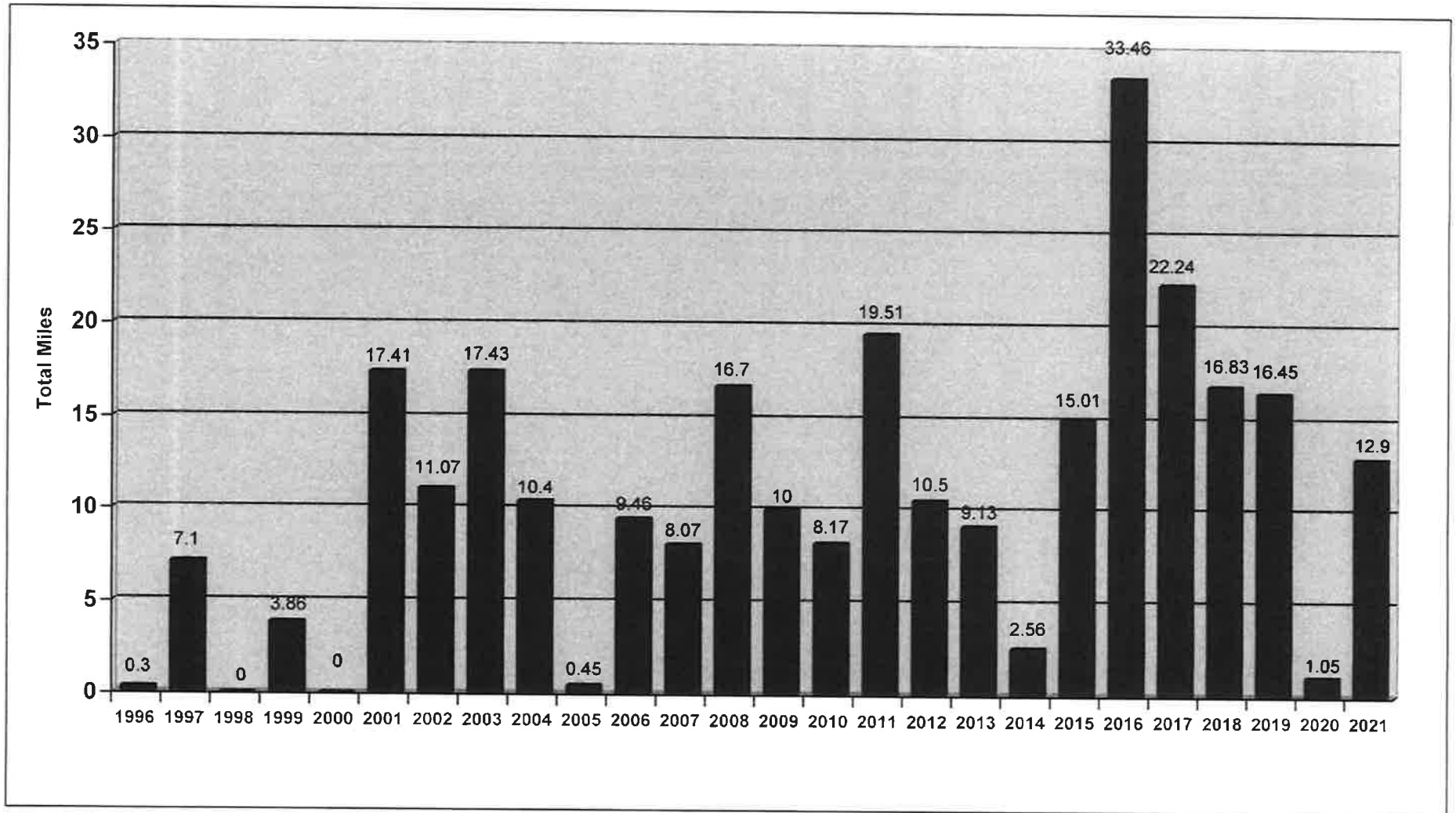
	Length	2019	RQI		Length	2019	RQI
1996				2013			
CR 69	0.3			CSAH 12 from .35 m. E. of N. jct. CSAH 39 to TH 47 (NW)	0.47	2.3	2.5
1997				CR 54 from CSAH 1 to 47 miles east	0.56	2.4	2.8
CSAH 17	7.1	2.9	3.0	CR 54 from CR 83 to end of pavement	3.98	3.6	3.7
1999				CR 60	0.83	2.3	2.4
CR 76	2.82	2.4	2.5	CR 66 from 0.26 miles east of US 169 to US 169	0.57	3.5	3.7
CR 77W	1.04	2.5	2.6	CR 77	1.03	2.1	2.4
2000				CR 82	0.49	3.3	3.4
2001				CR 85	1.2	2.9	
CSAH 14 from 2.3 m. northeast of TH 65 to State Park	8.61	2.9	3.2	2014			
CSAH 22	4.6	3.4	3.5	CSAH 12 from .35 m. E. of N. jct. CSAH 39 to TH 47 (Wear)	2.56	3.4	
CSAH 24	4.2	3.6		2015			
2002				CSAH 10 from US Hwy 169 to CSAH 3	7.01	3.7	
CSAH 31	3.53	2.3		CSAH 28 from TH 210 to TH 169	8	3.6	
CSAH 40	4.9	2.8	2.9	2016			
CR 62 from TH 210 to 435th Street	2.64	2.5	2.7	CSAH 2 from TH 47 to TH 65	12.38	3.5	3.6
2003				CSAH 3 from north jct. CSAH 5 to 6.36 miles east	6.2	3.7	
CSAH 11	3.2	2.8	3.0	CSAH 12 from TH 47 to TH 210	0.58	3.0	3.2
CSAH 23	5.3	3.3	3.8	CSAH 12 from TH 47 to 375th Avenue	6.88	3.7	3.8
CSAH 28 from TH 169 to CSAH 12	5.8	3.4		CSAH 13 from TH 65 to CSAH 16	5.39	3.8	3.7
CSAH 37	2.3	2.6	2.9	CSAH 41 from 1st Street to west jct. TH 210	1.01	3.2	3.3
CR 54 from .47 miles east of CSAH 1 to CR 83	0.83	2.4	2.5	CR 88	1.02	2.9	3.5
2004				2017			
CSAH 2 from TH 65 to Pine County Line	10.4	3.3		CSAH 1 from CSAH 22 to 3.6 miles north	3.6	3.5	3.6
2005				CSAH 10 from TH 232 to CSAH 18	11.06	3.8	3.9
CSAH 1 from TH 210 to beginning of Mississippi River B	0.45	2.2	2.4	CSAH 15 from Crow Wing County Line to CSAH 1	6.08	2.9	3.8
2006				CR 74	1.5	3.5	3.7
CSAH 3 from Crow Wing County Line to CSAH 29	5.74	3.3	3.4	2018			
CSAH 7	3.2	3.1		CSAH 6 from TH 65 to 5.3 miles east	4.9	4.1	
CR 66 from US 169 to 0.26 miles east	0.26	1.9		CSAH 6 from TH 210 to old Soo Line RR	0.87	3.0	
CSAH 29 from CSAH 19 to CSAH 7	0.26	3.4		CSAH 12 from 375th Avenue to Lanie's corner	2.74	3.9	
2007				CSAH 12 from Lanie's Corner to n. jct. CSAH 39	1.95	3.4	
CSAH 8 from old Soo Line RR to TH 65	1.97	3.3		CSAH 32 from CSAH 6 to CSAH 31	3.29	4.1	
CSAH 38	6.1	3.2	3.3	CR 53 from CSAH 4 to 0.78 mile north	3.08	3.7	
2008				2019			
CSAH 4 from TH 47 to TH 65	14.4	3.2	3.3	CSAH 3 from CSAH 29 to TH 169	4.15		
CSAH 29 from CSAH 3 to 509th Lane	2.3	2.6	2.7	CSAH 10 from TH 200 to Itasca County Line	2.25		
2009				CSAH 16	8.9		
CSAH 1 from beginning of Mississippi River Bridge to C	2.5	3.2		CSAH 41 from east jct. TH 210 to 1st Street	0.07		
CSAH 5 from TH 210 to TH 232	7.5	2.6	2.7	CR 70	1.08		
2010				2020			
CSAH 10 from CSAH 18 to 8.2 miles south of TH 200	6.88	3.5		CR 81 (1999 Original Pavement, 2020 Chipseal)	1.05	2.9	3.1
CSAH 33	0.29	1.9	2.9	2021			
CR 62 from TH 232 to 1.0 mile south	1.0	3.4		CSAH 3 from 6.36 miles east of north jct. CSAH 5 to TH 65	3.2		
2011				CSAH 9	0.77		
CSAH 6 from 5.27 miles east of TH 65 to TH 210	8.08	2.8	3.0	CSAH 25	3.29		
CSAH 10 from TH 200 to 8.12 miles south	8.12	3.2		CSAH 39 (199 Original Pavement, 2021 Chipseal)	5.1		
CSAH 32 from CSAH 31 to Carlton County Line	3.01	3.6	3.7	CR 79	0.54		
CR 241	0.3			Subtotal:	129.63		
2012				Grand Total:	280.06		
CSAH 3 from US Hwy 169 to n. jct. CSAH 5	5.6	3.3	3.5				
CSAH 5 from TH 47 to CR 50	1	3.4	3.5				
CSAH 14 from TH 65 to 2.3 miles northeast	2.3	3.3	3.4				
CSAH 36 from CSAH 14 to 1.6 mile north	1.6	2.6	2.9				
Sub-total:	150.43						

Updated: 8-17-21

Updated: 11-21-16

2021 Pavement Quality Summary		
	Good (RQI>3)	Poor (RQI<=2)
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	80.8%	0.2%

Pavement Age of Aitkin County Highways



Priority Rating Worksheet

(Highlighted Segments Included in 2022-2026 Capital Road Improvement Program)

8/17/2020

Road Number	Segment Description	Length	2016 ADT (20 points 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
80W		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