



County Road F reconstruction project between Hamline Avenue and Lexington Avenue.



2019 - 2023

Transportation Improvement Program and Deficient Bridge Program

RAMSEY COUNTY BOARD OF COMMISSIONERS

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INTRODUCTION

The Ramsey County Department of Public Works is responsible for providing the network of County roads that, combined with the Interstate Highway system, the State Trunk Highway system, and the municipal street system, serves the needs of the travelling public and bus-based transit in the County. Ramsey County consists of 108,864 acres of land (170.1 square miles) with a population of 508,640, based on the 2010 Census.

There are two types of roads under the jurisdiction of the County:

- County State Aid Highways, totaling 264.108 miles and generally numbered from 1 through 79
- Road numbers 88, 96, and 149, whose construction and maintenance are funded primarily from the Minnesota Highway User Tax Distribution Fund.

County roads, totaling 21.031 miles in length, and numbered 80 through 163, are funded primarily by property taxes. These roads and the 59 bridges on them require monitoring and maintenance by the Public Works Department of Ramsey County. The scheduled improvements to be performed on these roads and bridges for the years 2019-2023 are contained in this Transportation Improvement Program.

The Transportation Improvement Program was developed by assessing the condition of the existing system and its ability to meet the public's needs. Deficiencies were analyzed and alternatives to correct them were considered. Priorities were established through community involvement. Technical staff capabilities and funding availability also influenced prioritization. Scores were developed for projects by assessing staff capability, funding availability, and other factors to determine how projects should be prioritized for implementation.

The Department of Public Works reinstated a process to solicit projects from municipalities. Quarterly meetings are held with municipal engineers and their input is used to identify and prioritize projects.

As the population of the Twin Cities metropolitan area grows, it will not be feasible to serve the area's transportation needs by expanding the road systems. Strategic initiatives to complement transit, mitigate congestion, and improve the efficiency of the system, will become crucial for the viability of the road system. As projects are identified to manage traffic, they will be incorporated in the Transportation Improvement Plan.

The Transportation Improvement Program consists of a five-year schedule of projects proposed for implementation by the Ramsey County Department of Public Works. The first year of the Transportation Improvement Program includes projects identified for implementation upon acceptance of the public involvement process and the availability of funds.

There are seven categories of projects included in the Transportation Improvement Program:

- Construction projects for 2019
- Maintenance projects for 2019
- Capital improvement projects for 2020
- Capital improvement projects for 2021
- Capital improvement projects for 2022
- Capital improvement projects for 2023
- A bridge improvement program

The estimated costs identified in this program are based on Ramsey County's experience in the reconstruction of similar roadways. The project estimates include:

- The expected cost of preliminary and construction engineering, estimated at 25% of the total construction cost
- Right of way acquisition, based on current comparable costs

The Ramsey County Cost Participation Policy is included as Appendix A. This policy was revised by the Ramsey County Board of Commissioners as part of the 2013-2017 TIP on May 28, 2013.

A tabulation of deficient bridges is found on Page 19. Bridges are inspected at least biannually to assess their condition.

A tabulation of identified pavement deficiencies is included on Page 20. These will be prioritized to determine subsequent years' maintenance projects.

The Ramsey County Department of Public Works will annually review the projects within the Transportation Improvement Program. Funding for the program will also be reviewed annually. Projects will be added to the program based on the annual funding analysis.

DEFINITIONS OF HEADINGS AND ABBREVIATIONS USED IN TIP

Location:	Name of road
Rd. #:	County Road (CR) or County State Aid Highway (CSAH) number of road
Termini:	Beginning and ending of project
City:	Abbreviation for city or cities in which project is located
Work Proposed:	Type of work to be performed

Funds Types (listed in \$ X 1,000): CSAH - County State Aid Highway; County - County contribution; City – municipal contribution; State - State funds; Other- other funds sources; Total - Total cost of the project.

Implementation of projects contained in this Transportation Improvement Program depends upon acceptance via the required public involvement process and the availability of funds. Funds indicated may be requested, but will not necessarily be received. If the funds are not received from all sources, the projects could be delayed. Projects must address a transportation need and meet acceptable standards to qualify for the funding as shown.

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2019 Construction Projects

Location	Road No.	Termini	Lead Agency	City	Work Proposed	CSAH	County	CTB	City	State	Other	Total
Hamline Avenue	50	at Roseville Library	RV	RV	access management		125		125			250
Jackson Street	55	Pennsylvania Ave. to Acker St.	RC	SP	consultant design	400						400
Rice Street	49	Pennsylvania Ave. to Wheelock Pkwy.	RC	SP	design engineering	500						500
County Road B	25	at Dale St.	RV	RV	drainage	150						150
County Road B	25	at I-35E	RC	LC/MW	drainage		200					200
East County Line Road	72	at South Shore Blvd.	RC	WBT	drainage	60					60	120
Edgerton Street	58	at Centerville Rd.	RC	LC	drainage	220						220
Eustis Street	127	Como Ave. to Idaho St.	CRWD	LD	drainage	31						31
Hamline Avenue	50	north of Clarmar Ave.	RV	RV	drainage		49		49			98
Larpenteur Avenue	30	at Prosperity Ave.	SP	RC	drainage		470					470
Silver Lake Road	44	at Silver Ln.	NB	NB	drainage	195					325	520
Edgerton Street	58	at Roselawn Ave.	MW	MW	intersection reconstruction	160			160		680	1,000
Lexington Parkway	51	at Como Pavilion	SP	SP	pedestrian improvements		49		60			109
Cleveland Avenue	46	Como Ave. to Larpenteur Ave.	RC	FH/SP	R/W acquisition	250			250			500
Jackson Street	55	Pennsylvania Ave. to Acker St.	RC	SP	R/W acquisition	100			100			200

Location	Road No.	Termini	Lead Agency	City	Work Proposed	CSAH	County	CTB	City	State	Other	Total
Lexington Avenue	51	CR E to I-694	RC	AH/SV	R/W acquisition	150			150			300
Lexington Parkway	51	Shepard Rd. to W. 7th St.	RC	SP	R/W acquisition	150			150			300
County Road C	23	west County line to Long Lake Rd.	RC	RV	reconstruction	4,500			1,125			5,625
Dale Street	53	Iglehart Ave. to University Ave.	RC	SP	reconstruction	4,939			800	2,750	6,011	14,500
Lexington Parkway	51	Adrian St. to Albion St.	RC	SP	reconstruction	1,600			300			1,900
McKnight Road	68	Mailand Rd. to Londin Ln.	SP	SP	sidewalk construction	50			55			105
Cleveland Avenue	46	at Randolph Ave.	SP	SP	signal reconstruction	286			95			381
Lexington Parkway	51	at Concordia and St. Anthony Aves.	MnDOT	SP	signal reconstruction	395				395		790
McKnight Road	68	at Conway Ave. and Innovation Blvd.	RC	MW/SP	signal reconstruction	348			252			600
White Bear Avenue	65	at TH 36 Ramps	MnDOT	MW	signal reconstruction	384				384		768
Silver Lake Road	44	at Rice Creek Trail and MNRR	RC	NB	trail and RR Xing upgrade	36					325	361
County Road E	15	Lexington Ave. to Vivian Ave.	SV	SV	trail construction	228			283			511
Highway 96	96	White Bear Pkwy. to Otter Lake Rd.	WB	WB	trail construction	44			44			88
Plato Boulevard	40	Water St. to Fillmore Ave.	SP	SP	trail construction	511			1,492			2,003
White Bear Avenue	65	TH 61 to South Shore Blvd.	WB	WB	trail construction	49			49			98
South Shore Boulevard	94	White Bear Ave. to E. County Line Rd.	WB/WBT	RC	trail study					150		150
Various			RC	RC	jurisdiction study		150					150
Various					bridge consultant services	150						150

Location	Road No.	Termini	Lead Agency	City	Work Proposed	CSAH	County	CTB	City	State	Other	Total
Various					guardrail updates	100						100
Various					pedestrian ramp upgrades	1,500						1,500
Various					pond dredging	26						26
Various					RR Xing surface	60						60
Various					signal revisions- APS	50						50
Various					traffic studies	100						100
Total						17,722	1,043	-	5,289	3,679	7,401	35,384

Implementation of projects contained in this Transportation Improvement Program is dependent upon acceptance via the required public involvement process and the availability of funds. Funds indicated may be requested, but will not necessarily be received. If the funds are not received from all sources, the projects could be delayed. Projects must meet acceptable standards as well as other criteria to qualify for the funding as shown.

2019 Maintenance Projects

Location	Road No.	Termini	City	Work Proposed	CSAH	County	City	Total
County Road C	23	450' E of Cleveland to TH 51	RV	concrete rehabilitation	781			781
CSAH 96	96	I-35E to TH 61	WB	concrete rehabilitation	772			772
Energy Park Drive	32	955' E. of Raymond Ave. to UPRR	SP	concrete rehabilitation	292			292
Larpenteur Avenue	30	TH 280 to 295' W of TH 51	LD/FH	concrete rehabilitation	1,016			1,016
Bald Eagle Boulevard	249	CR H2 to CR J	WBT	mill & overlay		667		667
Century Avenue	72	Carver Ave. to Linwood Ave.	MW	mill & overlay		343		343
Edgerton Street	58	Little Canada Rd. to Centerville Rd.	LC	mill & overlay		474		474
Energy Park Drive	32	UPRR to Raymond Ave.	SP	mill & overlay	213			213
Larpenteur Avenue	30	Hazel St. to TH 120	MW/SP	mill & overlay		880		880
Lexington Avenue	51	CR C2 to CR E	RV/SV	mill & overlay		958		958
McMenemy Street	57	Koehler Rd. to CR F	VH	mill & overlay	211			211
Payne Avenue	58	7th St. to Edgerton St.	SP	mill & overlay		511		511
Silver Lake Rd.	44	CR D to I-694	NB/SA	mill & overlay		2,100		2,100
White Bear Avenue	65	Upper Afton Rd. to I-94	SP	mill & overlay		306		306
Various				bridge consultant	150			150
Various				crack seal	350			350
Various				drainage repair	825	360		1,185
Various				guardrail	500			500
Various				pedestrian ramps	1,300			1,300
Various				retaining walls	750			750
Total					7,160	6,599	-	13,759

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2020 Construction Projects

Location	Road No.	Termini	Lead Agency	City	Work Proposed	CSAH	County	CTB	City	State	Other	Total
County Road J	81	Centerville Rd.to Otter Lake Rd.	RC	NOWBT	consultant design	125				50	125	300
Lexington Parkway	51	Shepard Rd. to W. 7 th St.	RC	SP	consultant design	595						595
County Road E	15	at Old Snelling Ave.	AH	AH	intersection reconstruction	1,125			375			1,500
Hodgson Road	49	Gramsie Rd. to CSAH 96	RC	SV	R/W acquisition	600			600			1,200
Rice Street	49	Pennsylvania Ave. to Wheelock Pkwy.	RC	SP	R/W acquisition	500			500			1,000
Randolph Avenue	38	Toronto St. to Shepard Rd.	SP	SP	sidewalk construction	61			61			122
Maryland Avenue	31	Clark St. to Edgerton St.	RC	SP	signals/geometrics	1,481					1,019	2,500
Various					bridge consultant services	150						150
Various					RR Xing surface	50						50
Various					signal revisions- APS	50						50
Various					traffic studies	100						100
Total						4,837	-	-	1,536	50	1,144	7,567

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2021 Construction Projects

Location	Road No.	Termini	Lead Agency	City	Work Proposed	CSAH	County	CTB	City	State	Other	Total
Jackson Street	55	Pennsylvania Ave. to Acker St.	RC	SP	bridge reconstruction	6,660			500	3,600		10,760
Jackson Street	55	Maryland Ave. to Arlington Ave.	RC	SP	consultant design	600						600
Jackson Street	55	Maryland Ave. to Arlington Ave.	RC	SP	R/W acquisition services	100			100			200
Hodgson Road	49	Gramsie Rd. to Hwy. 96	RC	SV	reconstruction	6,632			3,981			10,613
Lexington Avenue	51	CR E to I-694	RC	AH/SV	reconstruction	4,000			616			4,616
Rice Street	49	Wheelock Pkwy. to 800' S. of CR B	RC	RV/MW	reconstruction	3,060		2,000	400			5,460
Rice Street	49	Pennsylvania Ave. to Maryland Ave.	RC	SP	reconstruction	1,370		2,000	400			3,770
Cleveland Avenue	46	at CR B	MnDOT	RV	signal reconstruction	150			75	300		525
Upper Afton Road	35	Burns Ave. to White Bear Ave.	SP	SP	trail construction	120			120			240
Cleveland Avenue	46	Como Ave. to Larpenteur Ave.	RC	FH/SP	reconstruction	5,580			1,395			6,975
Various					RR Xing surface	50						50
Various					signal revisions- APS	50						50
Various					traffic studies	100						100
Total						28,472	-	4,000	7,587	3,900	-	43,959

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2022 Construction Projects

Location	Road No.	Termini	Lead Agency	City	Work Proposed	CSAH	County	CTB	City	State	Other	Total
Lexington Parkway	51	over Pierce Butler Rt.	RC	SP	bridge consultant services	600						600
Old Highway 8	77	over MN RR	RC	NB	bridge consultant services	210						210
Jackson Street	55	Maryland Ave. to Arlington St.	RC	SP	bridge reconstruction	7,400			1,000	3,600		12,000
County Road B2	78	at Lexington Ave.	RC	RV	intersection reconstruction	83					747	830
Lexington Parkway	51	Shepard Rd. to W. 7th St.	RC	SP	reconstruction	2,016			504		2,240	4,760
Various					signal revisions- APS	50						50
Various					RR Xing surface	50						50
Various					traffic studies	100						100
Total						10,509	-	-	1,504	3,600	2,987	18,600

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2023 Construction Projects

Location	Road No.	Termini	Lead Agency	City	Work Proposed	CSAH	County	CTB	City	State	Other	Total
Old Highway 8	77	Over MNRR	RC	NB	bridge reconstruction	167			200	1,338		1,705
County Road D	19	Edgerton St. to CR D Ct.	RC	LC/MW/VH	reconstruction	750			1,500			2,250
County Road J	81	Centerville Rd. to Otter Lake Rd.	RC	NOWBT	reconstruction	5,000			2,400		5,000	12,400
Various					RR Xing surface	50						50
Various					signal revisions-APS	50						50
Various					traffic studies	100						100
Total						6,117	-		4,100	1,338	5,000	16,555

2019-2023 Road Construction and Maintenance Funding

Location	CSAH	County	CTB	City	State	Other	Total
2019 Construction	17,722	1,043		5,289	3,679	7,401	35,134
2019 Maintenance	7,160	6,599					13,759
2020 Construction	4,837			1,536	50	1,144	7,567
2021 Construction	28,472		4,000	7,587	3,900		43,959
2022 Construction	10,509			1,504	3,600	2,987	18,600
2023 Construction	6,117		6,632	4,100	1,338	5,000	23,187
Total	74,817	7,642	10,632	20,016	12,567	16,532	142,206

2019-2023 Deficient Bridges

Location	Road No.	Termini	Bridge No.	Sufficiency Rating	Fed. Replacement Eligible?	Fed. Rehab. Eligible?	State Eligible?	Year
Jackson Street	55	over BNSF RR	5664	34.5	no	no	yes	2020
Jackson Street	55	over BNSF RR	90408	67.8	no	no	yes	2021
Jackson Street	55	over BNSF RR	90409	30.6	no	no	yes	2021
Old Highway 8	77	over MCRR	4533	43.6	no	no	yes	2022
County Road C	23	over BNSF RR	62519	60.7	yes	yes	yes	TBD
Lexington Avenue	51	over BNSF RR	5583	37.0	yes	yes	yes	TBD

Proposed Pavement Maintenance 2020

Location	Road No.	Termini	Type of Work	City
Century Avenue	72	CR E to CR F	mill & overlay	WB/WBT
Energy Park Drive	32	Lexington Ave. to UPRR	mill & overlay	SP
McKnight Road	68	TH 5 to CR B	mill & overlay	MW/SP/NSP
McKnight Road	68	TH 36 to Mohawk Rd.	mill & overlay	NSP
Plato Boulevard	40	Water St. to Fillmore Ave.	mill & overlay	SP
Selby Avenue	35	Lexington Ave. to Dale St.	mill & overlay	SP
St. Paul Avenue	46	Edgecumbe Rd. to Cleveland Ave.	mill & overlay	SP
South Shore Boulevard	94	White Bear Ave.to CR F	mill & overlay	WB/WBT

Proposed Pavement Maintenance 2021-2023

Location	Road No.	Termini	Type of Work	City
County Road B	25	Snelling Ave. to Hamline Ave.	concrete rehab & pavement replacement	RV
Larpenteur Avenue	30	White Bear Ave. to Van Dyke St.	concrete rehab & pavement replacement	NSP
North St. Paul Road	29	White Bear Ave. to Ripley Ave.	concrete rehab & pavement replacement	NSP
Beam Avenue	20	Hazlewood St. to White Bear Ave.	mill & overlay	MW
Carver Avenue	43	TH 61 to Century Ave.	mill & overlay	SP/MW
Centerville Road	59	Edgerton St. to 491' S. of Horizon St. to CR F to CSAH 96	mill & overlay	VH/WB
Como Avenue	31/75	Raymond Ave. to Snelling Ave.	mill & overlay	SP/MW
County Road B	25	Hamline Ave. to Lexington Ave.	mill & overlay	RV
County Road B2	78	Hamline Ave. to Lexington Ave.	mill & overlay	RV
County Road C	23	Dale St. to Rice St.	mill & overlay	RV
County Road C	23	Hazlewood St. to White Bear Ave.	mill & overlay	MW
County Road C	23	White Bear Ave. to McKnight Rd.	mill & overlay	MW/NSP
County Road C	23	McKnight Rd. to TH 120	mill & overlay	NSP
County Road D	19	Silver Lake Rd. to Highcrest Rd.	mill & overlay	NB/RV
County Road D	19	Highcrest Rd. to CSAH 88	mill & overlay	NB/RV
County Road D	19	CSAH 88 to I-35W	mill & overlay	NB/RV
County Road D	19	I-35W to Cleveland Ave.	mill & overlay	AH/RV
County Road D	19	Cleveland Ave. to Lake Johanna Blvd.	mill & overlay	AH/RV
County Road F	12	Hodgson Rd. to Rice St.	mill & overlay	SV
County Road F	12	Rice St. to Oakcrest Dr.	mill & overlay	VH
County Road F	12	McKnight Rd. to East County Line Rd.	mill & overlay	WB/WBT
County Road F	12	TH 61 to McKnight Rd.	mill & overlay	WB
County Road H	9	Silver Lake Rd. to Long Lake Rd.	mill & overlay	MV/NB
County Road H	9	Long Lake Rd. to Mounds View Blvd.	mill & overlay	MV/NB
County Road H2	5	Centerville Rd. to Bald Eagle Blvd.	mill & overlay	WB/WBT
County Road J	1	Rendova St. to Lexington Ave.	mill & overlay	SV

Location	Road No.	Termini	Type of Work	City
Dale Street	53	University Ave. to Minnehaha Ave.	mill & overlay	SP
Dale Street	53	Minnehaha. Ave. to Front St.	mill & overlay	SP
Energy Park Drive	32	RR to TH 51	mill & overlay	SP
Energy Park Drive	32	TH 51 to Lexington Pkwy.	mill & overlay	SP
Fairview Avenue	48	CR B to 600' N. of Rose Pl. to 2720 Fairview to CR 2	mill & overlay	RV
Fairview Avenue	48	Larpenteur Ave. to CR B	mill & overlay	FH/RV
Hodgson Road	49	Bridge St. to CSAH 96	mill & overlay	SV
Hoffman Road	146	CR E to Cedar Ave.	mill & overlay	WB
Hugo Road	154	Park Ave. to CR J	mill & overlay	WBT
Jackson Street	55	500's. of Arlington Ave. to Larpenteur Ave.	mill & overlay	SP
Labore Road	108	CR E to Goose Lake Rd.	mill & overlay	GL/VH
Labore Road	14	Goose Lake Rd W. to Goose Lake Rd. E.	mill & overlay	GL/VH
Larpenteur Avenue	30	East Shore Dr. to White Bear Ave.	mill & overlay	MW/SP
Larpenteur Avenue	30	Van Dyke St. to Beebe Rd.	mill & overlay	MW/SP
Lexington Avenue	51	CR I to 1785' W. of Hamline Ave. to CR J	mill & overlay	SV
Long Lake Road	45	19th St. to CR H2	mill & overlay	NB
McKnight Road	68	Mohawk Rd. to I-694	mill & overlay	MW/NSP
McKnight Road	68	CR E to CR F	mill & overlay	WB
McKnight Road	68	850' N of I-694 to CR E	mill & overlay	WB/WBT
Minnehaha Avenue	34	McKnight Rd. to TH 120	mill & overlay	MW
New Brighton Road	47	CR D to CR E2	mill & overlay	AH/NB
Old Snelling Avenue	76	CR E to 173' N. of CR F to 480' N. of I-694 to CSAH 96	mill & overlay	AH
Otter Lake Road	60	CSAH 96 to Birch Lake Blvd.	mill & overlay	WB
Otter Lake Road	60	Goose Lake Rd. to CSAH 96	mill & overlay	WB/WBT
Otter Lake Road	148	Scheuneman Rd. to Goose Lake Rd.	mill & overlay	GL
Phalen Boulevard	64	Johnson Pkwy. To Maryland Ave.	mill & overlay	SP
Portland Avenue	71	CSAH 96 to Taylor Ave.	mill & overlay	WBT

Location	Road No.	Termini	Type of Work	City
Randolph Avenue	38	Cleveland Ave. to Snelling Ave.	mill & overlay	SP
Randolph Avenue	38	Snelling Ave. to Brimhall St.	mill & overlay	SP
Rice Creek Road	11	W. County Line to Long Lake Rd.	mill & overlay	NB
Rice Street	49	CP RR bridge to N. Owasso Blvd.	mill & overlay	LC/RV
Rice Street	49	Minnesota St. to CP RR bridge	mill & overlay	LC/RV
Rice Street	49	Vadnais Blvd. to Bridge St.	mill & overlay	VH/SV
Silver Lake Road	44	16th St. to Rice Creek Rd.	mill & overlay	NB
Silver Lake Road	44	I-694 to 16th St.	mill & overlay	NB
Silver Lake Road	44	Rice Creek Rd. to CR H	mill & overlay	NB
Vadnais Boulevard	16	Rice St. to Twin Lakes Blvd.	mill & overlay	VH
Vadnais Boulevard	16	Twin Lakes Blvd. to Edgerton St.	mill & overlay	VH
Victoria Street	52	155' S. of Owasso St. to CR F	mill & overlay	SV
White Bear Avenue	65	263' N. of Frost Ave. to TH 36	mill & overlay	MW
White Bear Avenue	65	TH 36 to Radatz Ave.	mill & overlay	MW

APPENDIX A

Ramsey County Public Works Cost Participation Policy

Approved May 28, 2013

The intent of Ramsey County's Public Works Cost Participation Policy is to equitably distribute the cost of construction and major maintenance projects between the County and its partner communities. The policy recognizes that projects undertaken by the County should benefit the County, and provide local benefits to the communities in which they are completed. The policy also defines the County's contributions to locally-initiated projects. All County cost contributions are subject to project feasibility and availability of funding.

The policy, as amended on May 28, 2013, reflects Ramsey County's commitment to develop a safe, effective, multimodal transportation system for users of all abilities and incomes. It is upon that foundation the Public Works Department will work with partnering agencies to ensure investments in construction and major maintenance accommodate an appropriate mix of motorized and non-motorized travel options. County cost participation levels have been selectively increased in recognition of the growing importance of integrating pedestrian, bicycle, transit and American Disabilities Act (ADA) features into transportation planning and implementation. Amended policy provisions also remove former provisions which identified differing cost participation levels when federal funds have been secured. In the event unique design considerations or project impacts are identified, the Director of Public Works may negotiate mutually beneficial deviations from this policy, subject to review and approval of the County Board.

Department of Public Works Cost Participation Policy

Ramsey County Public Works Cost Participation Policy for the Reconstruction and Major Maintenance of County Roads and County State Aid Highways

ITEM:	COUNTY SHARE:	NOTES:
Right of Way	50%	County cost participation on right of way acquisition may be reduced or eliminated where the acquisition is specifically for detached trails, aesthetics, or special design elements requested by municipalities or other project partners. County participation on right of way acquisition applies only to construction projects and shall be 0% for maintenance projects, except where additional right of way is required to accommodate improvements within the curb or shoulder line.
Removals	100%	
Travel Lanes	100%	
Parking Lanes	25%	100% in cities under 5,000 population or in White Bear Township. 100% on maintenance pavement preservation projects.
Shoulders	100%	100% of the width required to meet State Aid design standards. 100% in cities under 5,000 population or in White Bear Township. 100% on maintenance pavement preservation projects. 50% outside of the required width.

ITEM:	COUNTY SHARE:	NOTES:
Concrete Curb & Gutter (new)	25%	
Concrete Curb & Gutter (replacement)	100%	100% if in serviceable condition, as determined by the County Engineer; otherwise negotiable. 100% of curb and gutter as part of median construction required for traffic channelization or to serve as a pedestrian refuge.
Storm Sewer	% Eligible for State Aid	
Culverts	100%	
Water Main Modification	100%	100%, if required for construction. 0% on betterments.
Sanitary Sewer Modification	100%	100%, if required for construction. 0% on betterments
Private Utility Relocation	0%	
Traffic Signals	100% of County Legs	Traffic Signal construction is addressed in a separate policy (County Board Resolution 81-1001). Electrical power shall be paid by the municipality.

ITEM:	COUNTY SHARE:	NOTES:
Roundabouts	100% of County Legs	
Retaining Walls	50%	50% when retaining walls are constructed in lieu of right of way acquisition or to mitigate impacts; by negotiation when necessitated by design parameters.
Grading Outside of Curb	100%	100% of area required for road construction. 50% of grading required specifically for sidewalks, trails, or other amenities.
Medians	100%	100% of a standard concrete median design, including curb and gutter; municipalities shall pay for the additional cost of any decorative or aesthetic treatments.
Sidewalks (new)	50%	Includes grading, aggregate base, surfacing, and pedestrian ramps.
Sidewalks (replacement)	100%	100% if in serviceable condition, as determined by the County Engineer; otherwise negotiable.
Bituminous Trail (new)	50%	Includes grading, aggregate base, surfacing, and pedestrian ramps.
Bituminous Trail (replacement)	100%	100% if in serviceable condition, as determined by the County Engineer; otherwise negotiable.

ITEM:	COUNTY SHARE:	NOTES:
Trail/Sidewalk Grade Separation	0% to 50%, by negotiation	Bridge or underpass construction.
Street Lighting	0%	Street Lighting as part of a traffic signal shall be paid 100% by County. Electrical power shall be paid by the municipality.
Replacement Trees	100%	100%, if 1:1 replacement; 50%, if greater than 1:1
Fence	100%	100% if serviceable; 0% if in County R/W
Turf Restoration	100%	
Amenities and Aesthetics	0%	Special surface treatments, ground covers, or plantings, ornamental railings, etc.
Driveway Replacement	100%	
Stormwater Treatment	% eligible for State Aid	Maintenance shall be based on contributing flows.

ITEM:	COUNTY SHARE:	NOTES:
Preliminary/Design Engineering	% of Participation	
Construction Engineering	% of Participation	

All County participation is subject to the availability of funds.

On Federal Aid Projects, the federal funds shall be applied to all eligible items before cost participation is calculated. Federal participation is typically 50-80% of the total project cost.

Right of Way (ROW) acquisition continues to grow in cost and complexity. Setting the County Cost share at 50% is intended to make the County an equal partner with the municipality(s), regardless of funding source(s) secured for a project. Early creation of a cooperative partnership helps ensure project scoping and alternatives analysis are comprehensive and consider all benefits and costs -- including right of way cost and impacts. Joint efforts can also identify specific locations where extraordinary ROW impacts are likely. In those cases, the County and City(s) can revisit available options or consider appropriate design changes. Timely recognition of unavoidable impacts can provide additional time for all parties to secure their respective funding sources. Redevelopment and/or future land use changes may also provide an opportunity to reduce conflicts with programmed improvements. Individual parcels which present exceptional challenges may justify an unequal distribution of City/County cost shares for consideration and approval of the County Board.

Retaining Walls are generally constructed to reduce right of way impacts or to protect environmental resources such as wetlands or wooded areas. County cost participation will be at the 50% level for those wall installations similar to ROW cost participation. In situations where wall options are locally preferred or part of a community's aesthetic design goals, County participation will be reduced or eliminated. Resulting County contributions will be limited to benefits reducing impacts to adjoining properties or environmental resources.

Trail/Sidewalk Grade Separations are desirable bike and pedestrian features but can be cost prohibitive in many settings. ADA compliance and mitigating access/safety issues often add substantial construction costs to otherwise straightforward structures - particularly in locations where space is limited. Design options can also vary from simple box culvert underpasses to elaborate bridge structures. The intent of a negotiated cost participation level of 0-50% is an acknowledgement of the enormous range in costs that may be proposed. It is important County participation adhere to sound benefit/cost considerations. County participation levels may also consider the availability of federal or other outside funding sources that materially reduce County and local shares.

APPENDIX B

2019-2023 Transportation Improvement Program Construction Projects

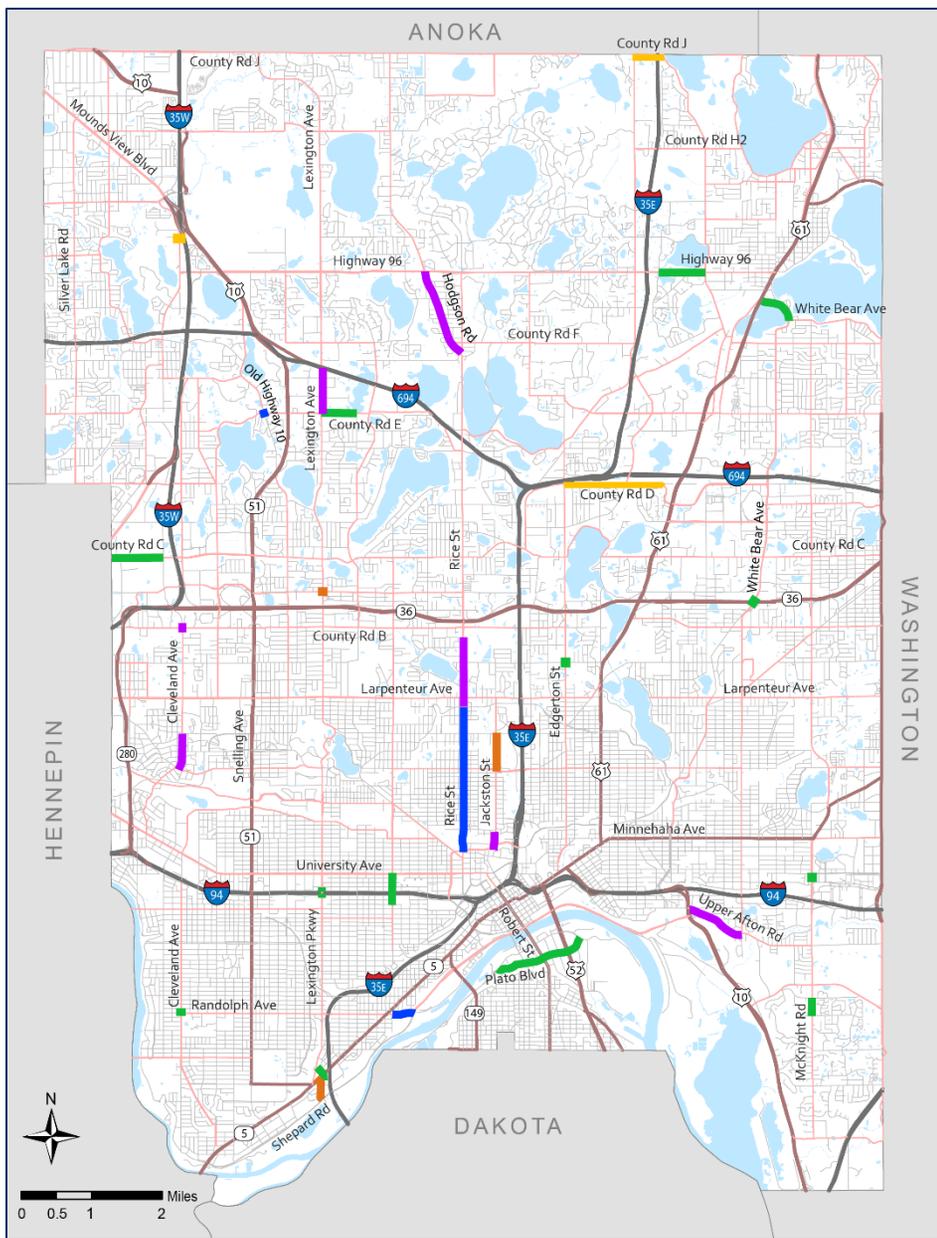
Location	Road No.	Termini	Lead Agency	City	Work Proposed	Year
Hamline Avenue	50	at Roseville Library	RV	RV	access management	2019
Jackson Street	55	Pennsylvania Ave. to Acker St.	RC	SP	consultant design	2019
Rice Street	49	Pennsylvania Ave. to Wheelock Pkwy.	RC	SP	design engineering	2019
County Road B	25	at Dale St.	RV	RV	drainage	2019
County Road B	25	at I-35E	RC	LC/MW	drainage	2019
East County Line Road	72	at South Shore Blvd.	RC	WBT	drainage	2019
Edgerton Street	58	At Centerville Rd.	RC	LC	drainage	2019
Eustis Street	127	Como Ave. to Idaho St.	RC	LC	drainage	2019
Hamline Avenue	50	north of Clarmar Ave.	RV	RV	drainage	2019
Larpenteur Avenue	30	at Prosperity Ave.	SP	RC	drainage	2019
Silver Lake Road	44	At Silver Ln.	NB	NB	drainage	2019
Edgerton Street	58	at Roselawn Ave.	MW	MW	intersection reconstruction	2019
Lexington Parkway	51	At Como Pavilion	SP	SP	pedestrian improvements	2019
Cleveland Avenue	46	Como Ave. to Larpenteur Ave.	RC	FH/SP	R/W acquisition services	2019
Jackson Street	55	Pennsylvania Ave. to Acker St.	RC	SP	R/W acquisition services	2019
Lexington Avenue	51	CR E to I-694	RC	AH/SV	R/W acquisition services	2019
Lexington Parkway	51	Shepard Rd. to W. 7th St.	RC	SP	R/W acquisition services	2019
County Road C	23	west County line to Long Lake Rd.	RC	RV	reconstruction	2019
Dale Street	53	Iglehart Ave. to University Ave.	RC	SP	reconstruction	2019
Lexington Parkway	51	Adrian St. to Albion St.	RC	SP	reconstruction	2019
McKnight Road	68	Mailand Rd. to Londin Ln.	SP	SP	sidewalk construction	2019
Cleveland Avenue	46	at Randolph Ave.	SP	SP	signal reconstruction	2019
Lexington Parkway	51	at Concordia and St. Anthony Aves.	MnDOT	SP	signal reconstruction	2019
McKnight Road	68	at Conway Ave. and Innovation Blvd.	RC	MW/SP	signal reconstruction	2019

Location	Road No.	Termini	Lead Agency	City	Work Proposed	Year
White Bear Avenue	65	at TH 36 Ramps	MnDOT	MW	signal reconstruction	2019
Silver Lake Road	44	at Rice Creek Trail and MNRR	RC	NB	trail and RR Xing upgrade	2019
County Road E	15	Lexington Ave. to Vivian Ave.	SV	SV	trail construction	2019
Highway 96	96	White Bear Pkwy. to Otter Lake Rd.	WB	WB	trail construction	2019
Plato Boulevard	40	Water St. to Fillmore Ave.	SP	SP	trail construction	2019
White Bear Avenue	65	TH 61 to South Shore Blvd.	WB	WB	trail construction	2019
South Shore Boulevard	94	White Bear Ave. to E. County Line Rd.	WB/WBT	RC	trail study	2019
County Road J	81	Centerville Rd. to Otter Lake Rd.	RC	NO/WBT	consultant design	2020
Lexington Parkway	51	Shepard Rd. to W. 7th St.	RC	SP	consultant design	2020
County Road E	15	at Old Snelling Ave.	AH	AH	intersection reconstruction	2020
Hodgson Road	49	Gramsie Rd. to CSAH 96	RC	SV	R/W acquisition services	2020
Rice Street	49	Pennsylvania Ave. to Wheelock Pkwy.	RC	SP	sidewalk reconstruction	2020
Randolph Avenue	38	Toronto St. to Shepard Rd.	SP	SP	sidewalk construction	2020
Maryland Avenue	31	Clark St. to Edgerton St.	RC	SP	signals/geometrics	2020
Jackson Street	55	Pennsylvania Ave. to Acker St.	RC	SP	bridge reconstruction	2021
Jackson Street	55	Maryland Ave. to Arlington Ave.	RC	SP	consultant design	2021
Jackson Street	55	Maryland Ave. to Arlington Ave.	RC	SP	R/W acquisition services	2021
Cleveland Avenue	46	Como Ave. to Buford Ave.	RC	FH/SP	reconstruction	2021
Hodgson Road	49	Gramsie Rd. to Hwy. 96	RC	SV	reconstruction	2021
Lexington Avenue	51	CR E to I-694	RC	AH/SV	reconstruction	2021
Rice Street	49	Wheelock Pkwy. To 800' S of CR B	RC	RV/MW	reconstruction	2021
Rice Street	49	Pennsylvania Ave. to Maryland Ave.	RC	SP	reconstruction	2021
Cleveland Avenue	46	at CR B	RC	RV	signal reconstruction	2021
Upper Afton Road	35	Burns Ave. to White Bear Ave.	SP	SP	trail construction	2021
Lexington Parkway	51	over Pierce Butler Rt.	RC	SP	bridge consultant services	2022
Old Highway 8	77	over MN RR	RC	NB	bridge consultant services	2022
Jackson Street	55	Maryland Ave. to Arlington St.	RC	SP	bridge reconstruction	2022
County Road B2	78	at Lexington Ave.	RC	RV	intersection reconstruction	2022
Lexington Parkway	51	Shepard Rd. to W. 7th St.	RC	SP	reconstruction	2022

Location	Road No.	Termini	Lead Agency	City	Work Proposed	Year
Old Highway 8	77	Bridge No. 4533 / Over MNRR	RC	NB	bridge reconstruction	2023
County Road D	19	Edgerton St. to Walter St.	RC	LC/MW/VH	reconstruction	2023
County Road J	81	Centerville Rd. to Otter Lake Rd.	RC	NOWBT	reconstruction	2023

APPENDIX C

Project Location Maps



2019 - 2023 Road Construction Projects

Produced January 31, 2019 by Ramsey County Public Works

Project Location and Year Expected

- 2019
- 2020
- 2021
- 2022
- 2023