



Ramsey County Public Works 2010-2014



Transportation Improvement Program



**RAMSEY COUNTY PUBLIC WORKS DEPARTMENT
2010 - 2014 TRANSPORTATION IMPROVEMENT PROGRAM
AND
DEFICIENT BRIDGE PROGRAM**

RAMSEY COUNTY BOARD OF COMMISSIONERS

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Ramsey County Public Works Department 2010-2014 Transportation Improvement Plan

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Ramsey County Public Works Department 2010-2014 Transportation Improvement Plan

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 driving public and bus-based transit in the County. Ramsey County consists of 108,864 acres of land (170.1 square miles) with a 2000 population of 511,000.

There are two types of roads under the jurisdiction of the County: County State Aid Highways, totaling 271.721 miles and numbered 1 through 79, whose construction and maintenance are funded primarily from the Minnesota Highway User Tax Distribution Fund. County roads, totaling 23.768 miles in length and numbered 80 through 163, which are funded from property taxes. All of these roads and the 91 bridges on them require monitoring and maintenance by the Public Works Department of Ramsey County. The improvements scheduled to be performed to these roads and bridges in the years 2010-2014 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 considered. Priorities were established through community involvement. The need for a project is considered along with technical staff capabilities and funding availability. Scores were developed for projects by assessing these and other factors to determine how projects should be prioritized for implementation.

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 mitigate congestion and improve the efficiency of the system, and to complement transit, will become crucial to 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 identified projects that will be implemented 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 2010, maintenance projects for 2010, capital improvement projects for 2011, 2012, 2013 and 2014 and 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 participation shown is in accordance with the Ramsey County cost participation guidelines (Resolution No. 88-265), which was adopted by the Ramsey County Board of Commissioners on May 10, 1988. A copy of the cost participation guidelines is included as Appendix B.

The Ramsey County Department of Public Works will do an annual review and programming of 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.

A summary of projects from 2009, and of projects from previous years that are not yet completed, is included in Appendix A. With the increasing complexity of road construction, it will become more common for projects to carry over from their starting year into a second, or even third, construction season, so the Transportation Improvement Program will track projects to their completion.

Ramsey County Public Works Department 2010-2014 Transportation Improvement Plan

DEFINITIONS OF HEADINGS AND ABBREVIATIONS USED IN TIP

Location:	Name of road
Rd. #:	County 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 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 in order to qualify for the funding as shown.

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2010 Construction Projects

Location	Road No.	Termini	City	Work Proposed	CSAH	CTB	City	State	Other	Total
White Bear Ave.	65	Radatz Ave. to CR D	MW/WB	reconstruction	6,233		2,075	100	7,441 (1)	15,849
County Road D	19	at I-35W	RV/NB	signal replacement	203		45	203		451
Rice Street	49	at TH 36	RV/LC/MW	reconstruct interchange	250	1,950	900	10,900 (2)	12,300 (1)	26,300
Maryland Avenue	31	at Rice Street	SP	geometrics/signals	2,275	250			675	3,200
County Road H	9	at Silver Lake Rd. (CSAH 44)	NB/MV	geometrics/signals					190 (3)	190
Jackson St.	55	at Arlington Ave.	SP	signals	112		113			225
White Bear Ave.	65	at TH 61	WB	signal revisions	5			70	93	168
County Road F	12	at TH 61	WB	signal revisions	5			76	99	180
Various				signal revisions- APS	50					50
Various				signal revisions- EVP			25			25
Totals					9,133	2,200	3,158	11,349	20,798	46,638

(1) STP Funds; (2) Metro Interchange 5,000, DEED 5,900; (3) Local Road Improvement Program (LRIP) funds (state)

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Ramsey County's pavement management system uses general road inventory information, observed pavement conditions and field measurements to determine types of maintenance required on its roads. The pavement management system also establishes priorities and determines costs for the maintenance work. Projects will be completed pending availability of funds

2010 Maintenance Schedule

Location	Road No.	Termini	City	Work Proposed	County	CSAH	Total
Otter Lake Rd.	60	CR H2 to CR J	WB/WT	overlay	295		295
Northwest Ave.	89	CPRR to Buffalo St.	WT	mill/overlay	48		48
Maryland Ave.	31	Jackson St. to I-35E	SP	mill/overlay	86		86
Randolph Ave.	38	Cleveland Ave. to Davern St.	SP	mill/overlay	243		243
Cleveland Ave.	46	Larpenteur Ave. to Como Ave.	SP	mill/overlay	281		281
Cleveland Ave.	46	CR B2 to CR C	RV	mill/overlay		85	85
Victoria St.	52	Lovell Ave. to CR C	RV	mill/overlay		148	148
Larpenteur Ave.	30	Jackson St. to I-35E west ramp	SP/RV	mill/overlay		119	119
County Road B	25	I-35E to Edgerton St.	MW	mill/overlay		162	162
County Road B	25	Atlantic St. to White Bear Ave.	MW	mill/overlay		260	260
County Road C	23	TH 61 to Hazlewood St.	MW	pavement replacement		568	568
Totals					953	1,342	2,295

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2011 Construction Projects

Location	Road No.	Termini	City	Work Proposed	CSAH	CTB	City	State	Other	Total
Highway 96	96	at Trunk Highway 10	AH	construct interchange		5,714	490	1,756	7,000 (1)	14,960
Hamline Avenue	50	at TH 36/Commerce St	RV	signal replacement	131		34	79		244
Warner Road	36	at Childs Rd.	SP	replace EB bridge	5,389			2,261 (3)	5,350 (1)	13,000
Maryland Avenue	31	at Prosperity Ave.	SP	geometrics/signals	878				722 (2)	1,600
Various				signal revisions- APS	50					50
Various				RR Xing surface	50					50
Totals					6,498	5,714	524	4,096	13,072	29,904

(1) STP; (2) Other; (3) State Bridge Bonds

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2012 Construction Projects

Location	Road No.	Termini	City	Work Proposed	CSAH	CTB	City	State	Other	Total
Rice Street	49	CR B2 to Little Canada Rd.	RV/LC/MW	reconstruction	600	4,190	600			5,390
University Avenue	34	W. County Line to Rice St.	SP	reconstruction		3,000				3,000
County Road B2	78	Snelling to Fairview	RV	reconstruction	3,531		100		2,969 (1)	6,600
Ford Parkway	42	Fairview Ave. to Snelling Ave.	SP	reconstruction		2,850	450			3,300
Various				signal revisions-APS	50					50
Various				RR Xing surface	50					50
Totals					4,231	10,040	1,150		2,969	18,390

(1) STP

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2013 Construction Projects

Location	Road No.	Termini	City	Work Proposed	CSAH	CTB	City	State	Other	Total
CSAH 96	96	at I-35W	AH/NB	interchange improvements	725	1,835		1,075	550 (1)	4185
Rice Street	49	at I-694	VH/SV/LC	interchange const.	2,500		1,200	22,300		26,000
Hamline Ave.	50	at MNRR	RV	RR Xing signal	22				203	225
Lexington Ave.	51	at MNRR	RV	RR Xing signal	22				203	225
County Road B	25	at TH 61	MW	interchange const.	250		1,650		7,000(2)	8,900
Rice Street/ Hodgson Rd	49	Gramsie to Bridge St.	SV/VH	reconstruction		4,358	469			4,827
Maryland Ave.	31	at Arkwright Ave.	SP	geometrics/signals	1,541		300		1,363	3,204
Various				signal revisions- APS	50					50
Various				RR Xing surface	50					50
Totals					5,160	6,193	3,619	23,375	9,319	47,666

(1) Cooperative Agreement funds (state); (2) STP

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2014 Construction Projects

Location	Road No.	Termini	City	Work Proposed	CSAH	CTB	City	State	Other	Total
CSAH 96	96	at I-35E	WB/VH	interchange const.	6,000		1,000	6,000	18,250	31,250
Maryland Ave.	31	at Payne Ave.	SP	geometrics/signals	1,704		300		1,440	3,444
Various				signal revisions- APS	50					50
Various				RR Xing surface	50					50
Totals					7,804		1,300	6,000	19,690	34,794

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2010-2014 Construction Funding

Year	CSAH	County	CTB	City	State	Other	Total
Total 2010 Construction	9,133		2,200	3,158	11,349	20,798	46,638
Total 2010 Maintenance	1,342	953					2,295
Total 2011 Construction	6,498		5,714	524	4,096	13,072	29,904
Total 2012 Construction	4,231		10,040	1,150		2,969	18,390
Total 2013 Construction	5,160		6,193	3,619	23,375	9,319	47,666
Total 2014 Construction	7,804			1,300	6,000	19,690	34,794
Totals	34,168	953	24,147	9,751	44,820	65,848	179,687

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2010-2014 Deficient Bridge Prioritization

Location	Road No.	Termini	Bridge No.	Sufficiency Rating	MN Priority	Fed. Replacement Eligible?	Fed. Rehab. Eligible?	State Eligible?	Year
Warner Road	36	over Childs Rd.	5950	43.1	1166	yes	yes	yes	2010
County Road E	15	at TH 51	62010	81.0					2011
Jackson Street	55	over BNSF RR	5664	47.7		yes	yes	yes	2013
Old Highway 8	77	over MCRR	4533	43.6		yes	yes	yes	2013
Water Street	40	Over Pickeral Outlet	90401	59.9	1416				2014
Rice Street	49	over TH 36	5427	47.9		yes	yes	yes	2010

Appendix A

Status of Previous TIP Projects

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2009 Maintenance Projects

Location	Road No.	Termini	City	Work Proposed	Type	County	CSAH	Total
County Road H	88	West County Line to Silver Lake Rd.	MV/NB	mill/overlay	MNT	67		
Eagle Street	152	Kelly Ct. to Park Ave.	WB/WT	CIR	MNT	48		
Sherwood Road	4	Turtle Lake Rd. to North County Line	SV/WB/NO	overlay	MNT	172		
Lexington Parkway	51	Orchard Ave. to Larpenteur Ave.	SP	mill/overlay	MNT	383		
Park Avenue	85	East Bald Eagle Blvd. to Hugo Ct.	WT	CIR	MNT	48		
County Road B	25	Fairview Ave. to Snelling Ave.	RV	mill/overlay	MNT		178	
Bald Eagle Avenue	67	9 th St. to Bald Eagle Blvd.	WB/WT	mill/overlay	MNT		156	
Rice Street	49	I-694 to Little Canada Rd.	LC/RV	mill/overlay	MNT		414	
County Road B	25	1251' East of Rice St. to I-35E	LC/MW	mill/overlay	MNT		126	
Cleveland Avenue	46	350' North of County Road D to County Road E2	NB	mill/overlay	MNT		477	
McKnight Road	68	Burns Ave. to Minnehaha Ave.	SP/MW	mill/overlay	MNT	431		
5 th Ave. NW	46	County Road E2 to Old Highway 8	NB	mill/overlay	MNT	43		
Totals						1,192	1,351	2,543

Project Status: All 2009 Maintenance Projects are 100% Complete.

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Century Avenue (CSAH 72), Lake Road to Woodbine Avenue- Reconstruction- TIP Year 2008

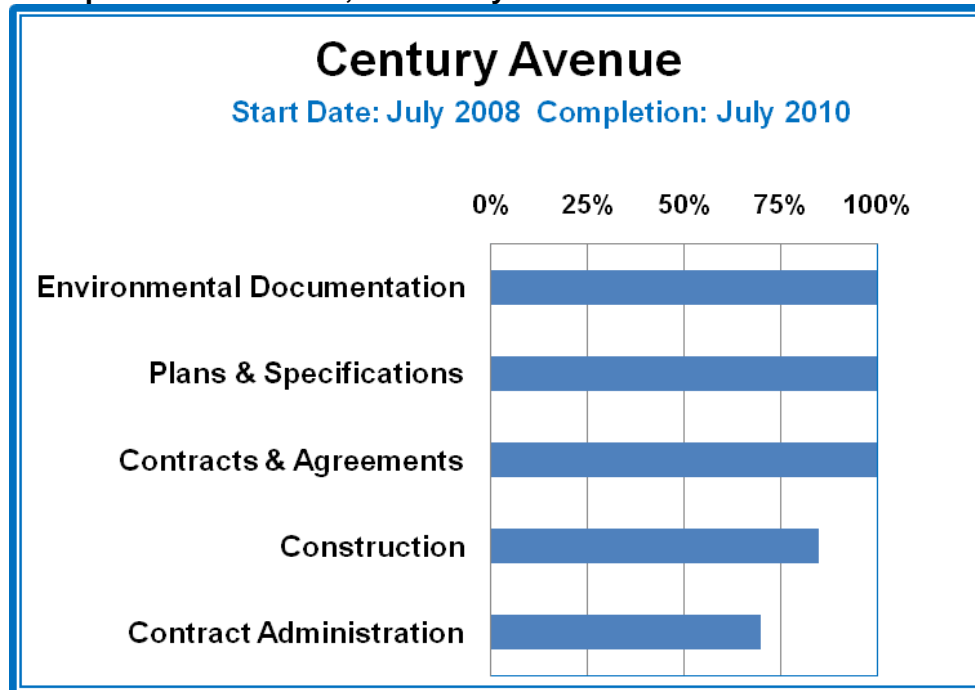
Funding:

CSAH	CTB	City	State	Other	Total
4,979	14,627**	960		3,279***	23,845

*Ramsey County CSAH- 2,466; Washington County CSAH- 2,513

**Ramsey County CTB- 5,551; Washington County CTB- 9,076

***Maplewood MSA- 296; Woodbury MSA & Local- 664



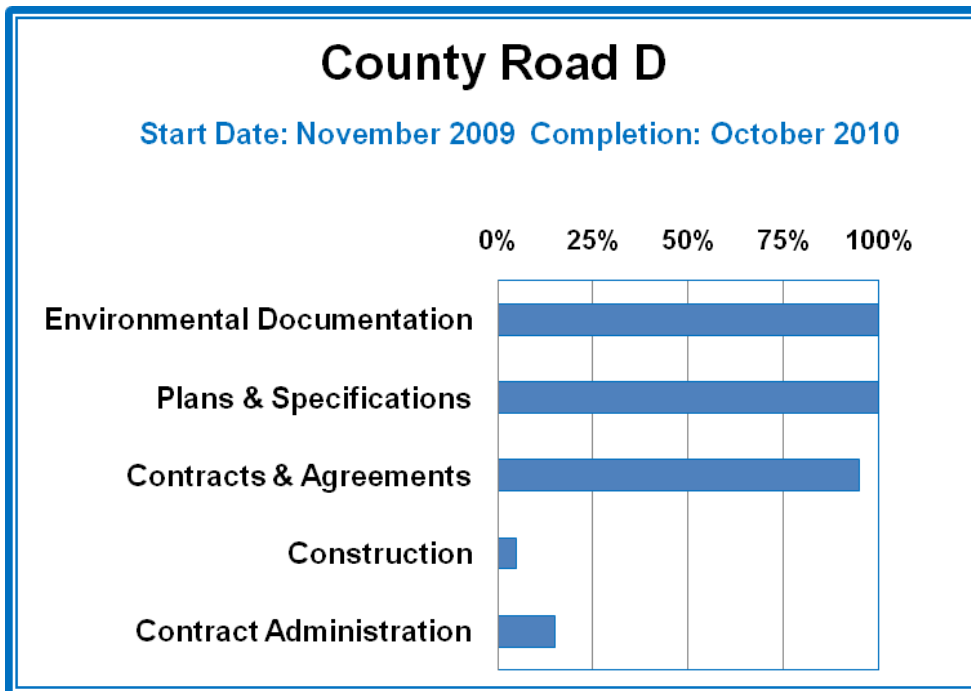
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County Road D (CSAH 19), Southlawn Avenue to White Bear Avenue- Reconstruction- TIP Year 2009

Funding:

<u>CSAH</u>	<u>CTB</u>	<u>City</u>	<u>State</u>	<u>Other</u>	<u>Total</u>
107		215		2,450*	2,665

*American Recovery and Reinvestment Act Funds

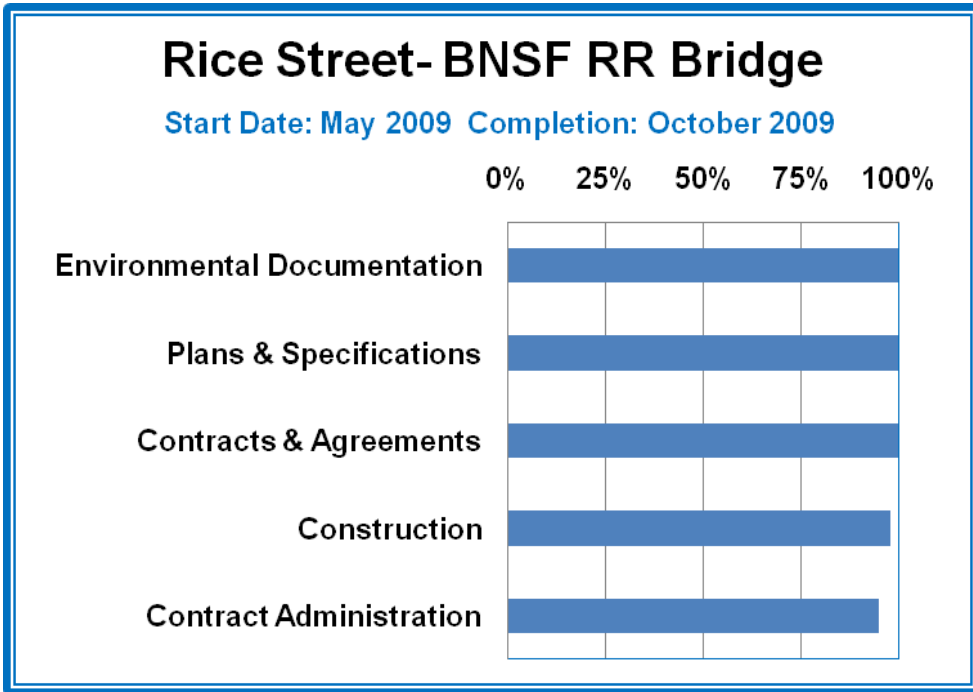


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Rice Street (CSAH 49), Bridge over BNSF RR- Bridge Rehabilitation- TIP Year 2009

Funding:

CSAH	CTB	City	State	Other	Total
	2,860				2,860

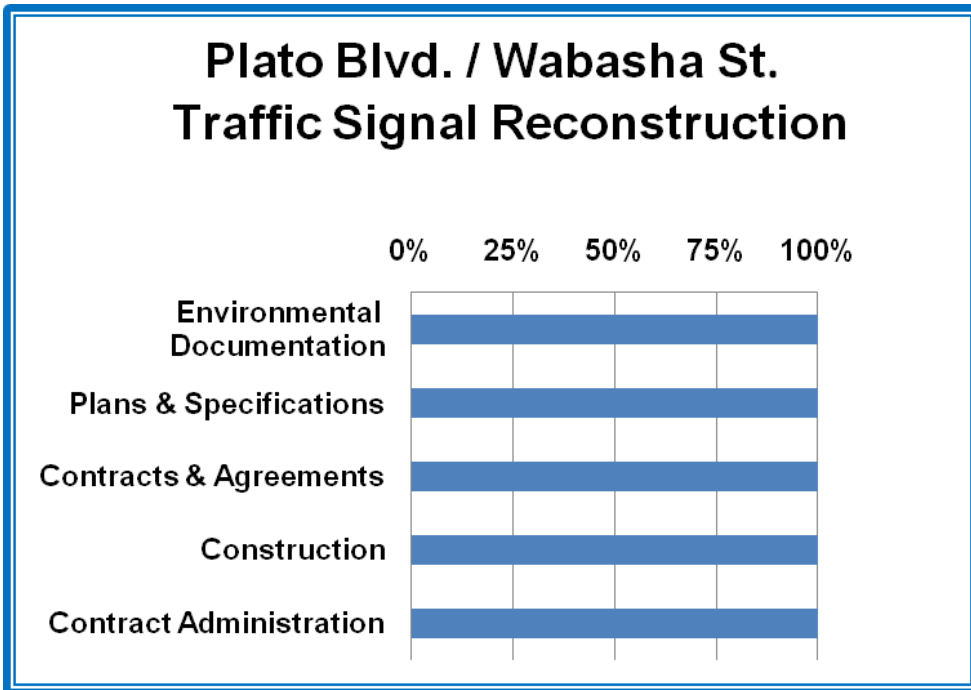


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Plato Boulevard (CSAH 40) at Wabasha Street- Traffic Signal Reconstruction- TIP year 2009

Funding:

<u>CSAH</u>	<u>CTB</u>	<u>City</u>	<u>State</u>	<u>Other</u>	<u>Total</u>
142		142			284

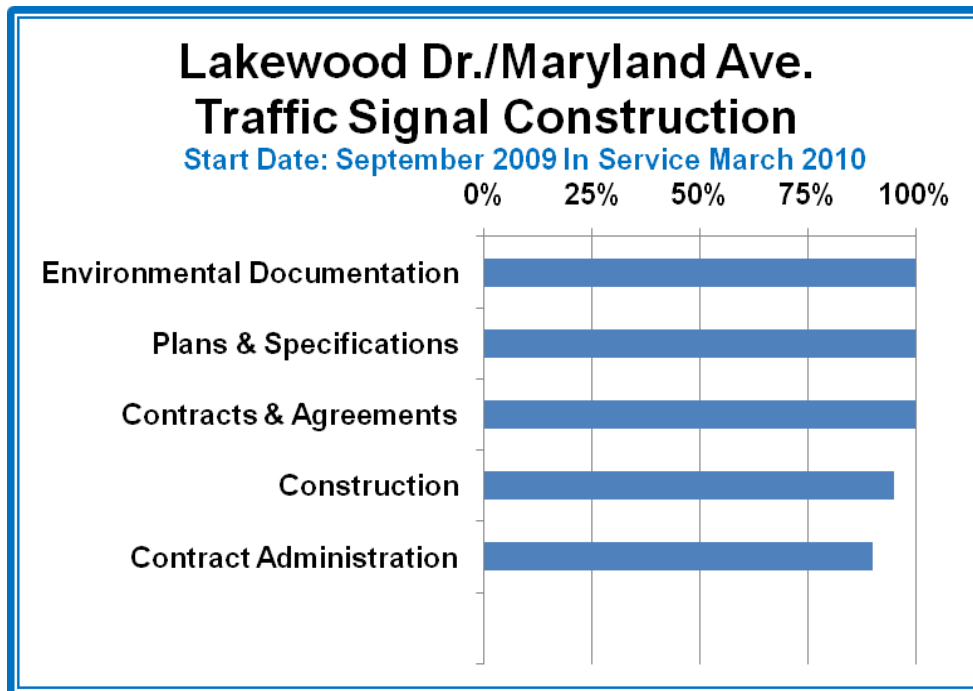


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Lakewood Dr. (CSAH 68) at Maryland Avenue (CSAH 31)- Traffic Signal Construction- TIP year 2009

Funding:

CSAH	CTB	City	State	Other	Total
			205		205

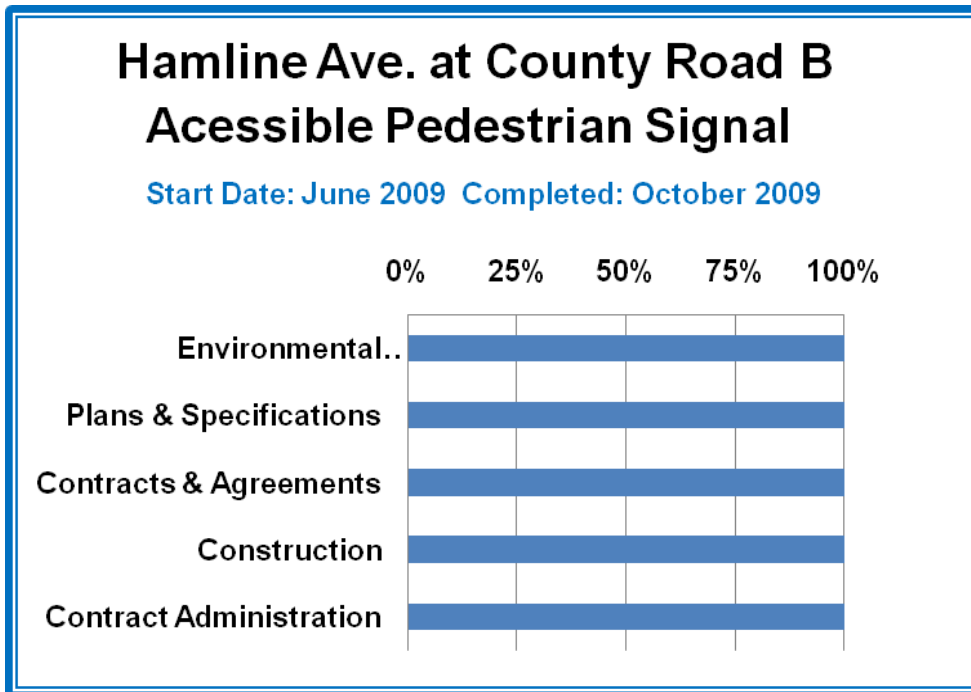


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Hamline Avenue (CSAH 50) at County Road B- Traffic Signal Revision (APS)- TIP Year 2009

Funding:

<u>CSAH</u>	<u>CTB</u>	<u>City</u>	<u>State</u>	<u>Other</u>	<u>Total</u>
30					30

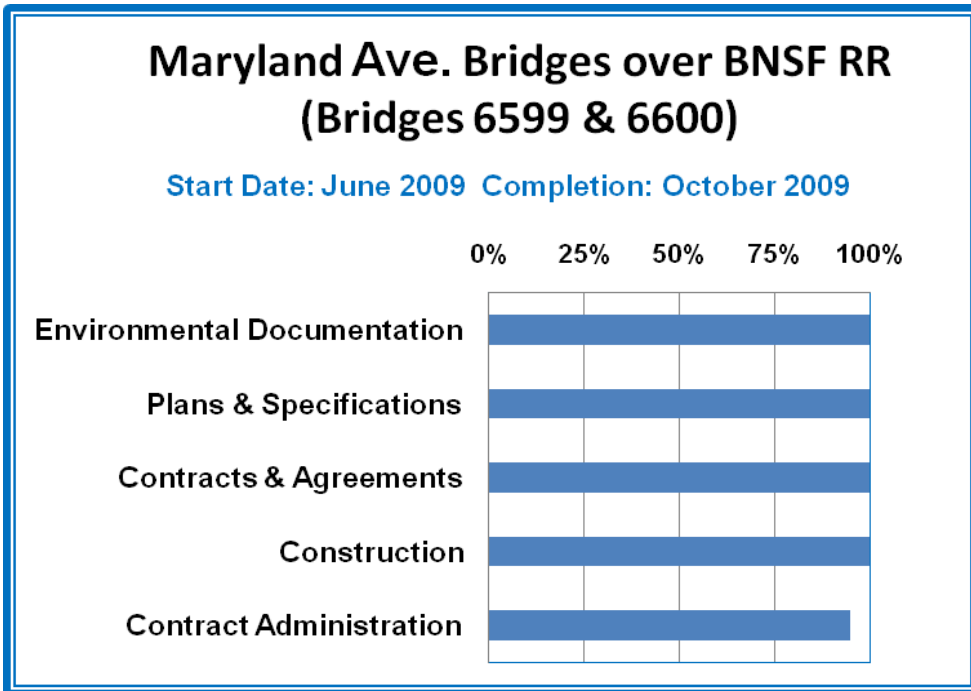


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Maryland Avenue (CSAH 31)- Rehabilitation of Bridges 6599 and 6600, West of I-35E- TIP Year 2009

Funding:

CSAH	CTB	City	State	Other	Total
545		100	1,000	480	2,125

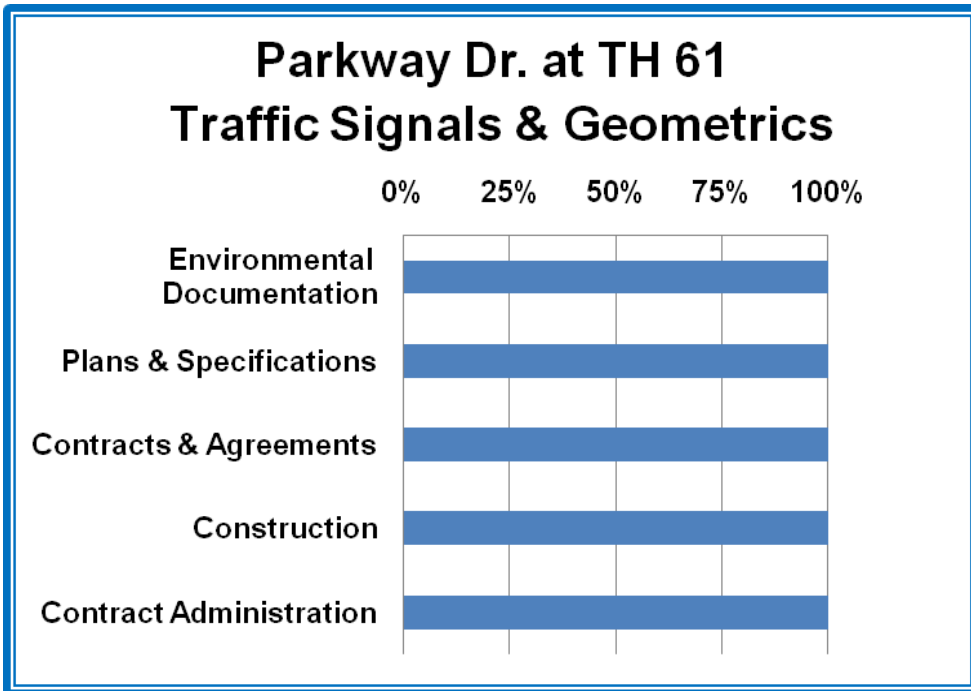


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Beam Avenue (CSAH 19) at Countryview Drive- Traffic Signal & Geometric Improvements- TIP Year 2009

Funding:

CSAH	CTB	City	State	Other	Total
250		330	115	1,900	2,595



Minor Project Progress:

Traffic Signal Revisions- Audible Pedestrian Signals- Various Locations- TIP Year 2009

<u>CSAH</u>	<u>CTB</u>	<u>City</u>	<u>State</u>	<u>Other</u>	<u>Total</u>
50					50

100% Complete

Traffic Signal Revisions- Emergency Vehicle Preemption- Various Locations- TIP Year 2009

<u>CSAH</u>	<u>CTB</u>	<u>City</u>	<u>State</u>	<u>Other</u>	<u>Total</u>
51					51

100% Complete

Wet Reflective Pavement Markings and Sign Upgrades- Various Locations- TIP Year 2009

<u>CSAH</u>	<u>CTB</u>	<u>City</u>	<u>State</u>	<u>Other</u>	<u>Total</u>
				115	115

100% Complete

Railroad Crossing Surface Replacement- CSAH 96 at MNRR- TIP Year 2009

<u>CSAH</u>	<u>CTB</u>	<u>City</u>	<u>State</u>	<u>Other</u>	<u>Total</u>
100					100

100% Complete

APPENDIX B

Ramsey County Public Works Cost Participation Policy

Ramsey County Public Works Department 2010-2014 Transportation Improvement Plan

COST PARTICIPATION POLICY

RAMSEY COUNTY PUBLIC WORKS COST PARTICIPATION GUIDELINES FOR IMPLEMENTATION OF COUNTY POLICY AS OUTLINED IN RESOLUTION 9-1272 FOR THE CONSTRUCTION, RECONSTRUCTION AND MAJOR MAINTENANCE OF ROAD IMPROVEMENTS.

CURRENT STANDARDS FOR THE DESIGN AND CONSTRUCTION OF COUNTY STATE AID HIGHWAYS SHALL APPLY FOR THE INTERPRETATION OF THESE POLICIES. (PERCENT OF COUNTY PARTICIPATION IS LISTED.)

CATEGORY	CSAH > 5000 POPULATION	COUNTY ROAD	CSAH < 5000 POPULATION AND WHITE BEAR TOWNSHIP	COUNTY SHARE OF FEDERAL PROJECT*
Right of Way	0	0	0	100
Removals	100	100	100	100 of non-federal share eligible for State Aid
Travel Lanes	25	100	100	100 of non-federal share
Parking Lanes	25	0	100	25 of non-federal share
Shoulders	25	0	100	25 of non-federal share
Concrete Curb & Gutter (new)	25	0	25	25 of non-federal share
Concrete Curb & Gutter (replacement)	100, if in serviceable condition	0	100, if in serviceable condition	100 of non-federal share
Storm Sewer				

*Federal participation is estimated to be 50 to 77% of eligible items. **Traffic Signal construction is addressed in a separate policy (County Board Resolution 81-1001). ***Retaining walls constructed in lieu of right of way acquisition.

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CATEGORY	CSAH > 5000 POPULATION	COUNTY ROAD	CSAH < 5000 POPULATION*	COUNTY SHARE OF FEDERAL PROJECT**
Storm Sewer	% eligible for State Aid	Assessment Policy	% eligible for State Aid	100 of non-federal share eligible for State Aid
Culverts	100- State Aid	100	100- State Aid	100 of non-federal share
Watermain Modification	100, if required for travel lane construction	100, if required for travel lane construction	100, if required for travel lane construction	100 of non-federal share, if required for travel lane construction
Sanitary Sewer Modification	100, if required for travel lane construction	100, if required for travel lane construction	100, if required for travel lane construction	100 of non-federal share, if required for travel lane construction
Other Utilities (telephone, gas, CATV, Electric, pipelines, etc.)	0, inside of existing R/W; 100, outside of R/W	0	0	0 inside existing R/W; non-federal share outside R/W
Traffic Signals ***	100 of County legs	100 of County legs	100 of County legs	100 of non-federal share of County legs
Roundabouts	100 of County legs	100 of County legs	100 of County legs	100 of non-federal share of County legs
Intersecting Streets	Ratio of surface participation items	Ratio of surface participation items	Ratio of surface participation items	Ratio of surface participation items of non-federal share

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CATEGORY	CSAH > 5000 POPULATION	COUNTY ROAD	CSAH < 5000 POPULATION*	COUNTY SHARE OF FEDERAL PROJECT**
Retaining Walls	25***	0	25***	100 of non-federal share
Grading behind Curb	100	0	100	100 of non-federal share
Pedestrian Grade Separations	25	25	25	0 of non-federal share
Sidewalks (new)	25	25	25	0 of non-federal share
Sidewalks (replacement)	100, if in serviceable condition	0	100, if in serviceable condition and required for travel lane construction	100 of non-federal share, if in serviceable condition and required for travel lane construction
Bituminous Bike Path (new)	25, if on approved system & funds are available	25, if on approved system & funds are available	25, if on approved system & funds are available	0
Bituminous Bike Path (replacement)	100, if in serviceable condition and required for travel lane construction	100, if in serviceable condition and required for travel lane construction	100, if in serviceable condition and required for travel lane construction	100 of non-federal share, if in serviceable condition
Bituminous Overlay	100	100	100	N/A

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CATEGORY	CSAH > 5000 POPULATION	COUNTY ROAD	CSAH < 5000 POPULATION*	COUNTY SHARE OF FEDERAL PROJECT**
Replacing or Transplanting Trees	25	0	100	25 of non-federal share
Replacement Shrubs	0	0	0	0
Fencing Replacement	100, if in serviceable condition; 0 if on County R/W or in poor condition	0	100, if in serviceable condition; 0 if on County R/W or in poor condition	100 of non-federal share, if in serviceable condition; 0 if on County R/W or in poor condition
Seeding, Sodding, Fertilizer	100	0	100	100 of non-federal share eligible for State Aid
Driveway Replacement	100	0	100	100 of non-federal share eligible for State Aid
Preliminary Engineering	% of participation	% of participation	% of participation	% of participation, prior to application of federal funds
Construction	% of participation	% of participation	% of participation	% of participation, prior to application of federal funds

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Ramsey County Public Works Department 2010-2014 Transportation Improvement Plan

APPENDIX C 2010-2014 Transportation Improvement Program Projects

Location	Rd. No.	Termini	City	Work Proposed	Type	Year
County Road B	25	At TH 61	MW	reconstruct interchange	CON	2013
County Road B2	78	Fairview Ave. to Snelling Ave.	RV	reconstruction	CON	2011
County Road D	19	at I-35W	RV/NB	signal replacement	CON	2010
County Road H	9	at Silver Lake Rd. (CSAH 44)	NB/MV	geometrics/signals	CON	2010
Ford Parkway	42	Fairview Ave. to Snelling Ave.	SP	reconstruction	CON	2012
Hamline Avenue	50	at TH 36/Commerce St.	RV	signal replacement	CON	2011
Hamline Avenue	50	at MNRR	RV	RR Xing signal	CON	2013
Highway 96	96	at Trunk Highway 10	AH	construct interchange	CON	2011
Highway 96	96	I-35W to Old Highway 8 (CSAH 77)	AH/NB	construct interchange	CON	2013
Highway 96	96	t I-35E	WB	reconstruct interchange	CON	2014
Jackson Street	55	at Arlington Ave.	SP	signals	CON	2010
Lexington Avenue	51	at MNRR	RV	RR Xing signal	CON	2013
Long Lake Road	45	at MNRR	NB	RR Xing Signal	CON	2013

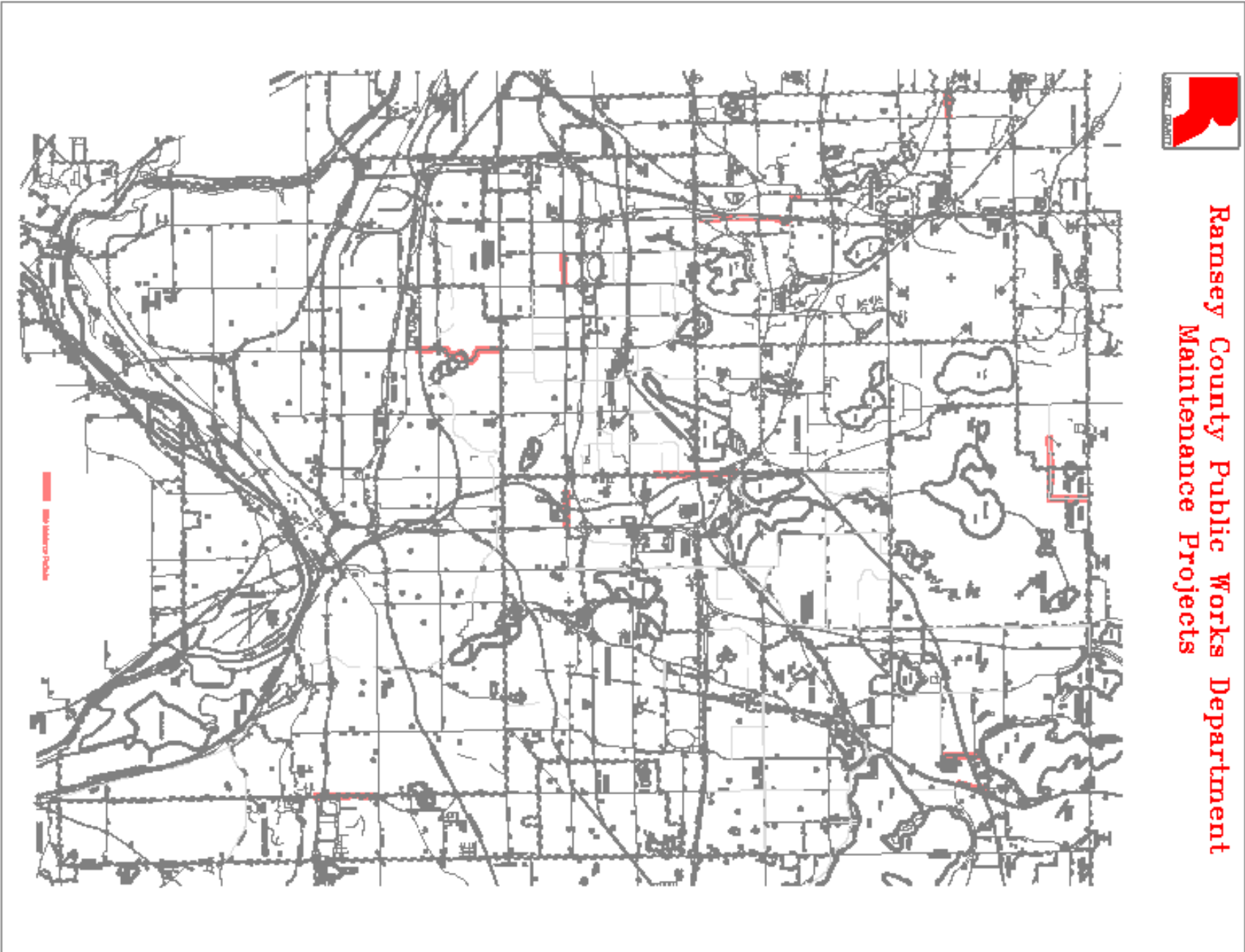
Ramsey County Public Works Department 2010-2014 Transportation Improvement Plan

Maryland Avenue	31	at Rice St.	SP	geometrics/signals	CON	2010
Maryland Avenue	31	at Prosperity Ave.	SP	geometrics/signals	CON	2011
Maryland Avenue	31	at Arkwright Ave.	SP	geometrics/signals	CON	2013
Maryland Avenue	31	at Payne Ave.	SP	geometrics/signals	CON	2014
Rice Street/Hodgson Rd.	49	Gramsie to Bridge St.	AV/VH	reconstruction	CON	2013
Rice Street	49	at TH 36	RV/LC/MW	reconstruct interchange	CON	2010
Rice Street	49	County Road B2 to County Road C	RV/LC/MW	reconstruction	CON	2012
Rice Street	49	N. Owasso Blvd. to Vadnais Blvd.	VH/SV/LC	reconstruct interchange	CON	2013
University Avenue	34	West County line to Rice St.	SP	reconstruction	CON	2012
Warner Road	36	at Childs Rd.	SP	replace EB bridge	CON	2010
White Bear Avenue	65	Radatz Ave. to County Road D	MW/WB	reconstruction	CON	2010

APPENDIX D

Project Location Maps

Ramsey County Public Works Department 2010-2014 Transportation Improvement Plan



Ramsey County Public Works Department 2010-2014 Transportation Improvement Plan

