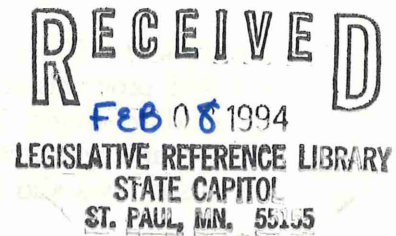


TRANSPORTATION ADVISORY BOARD
Mears Park Centre, 230 E. Fifth St., St. Paul, Minnesota 55101

ACTION TRANSMITTAL

No. 94-4

DATE: January 12, 1994
TO: Transportation Advisory Board
FROM: Technical Advisory Committee



MOTION: That the Transportation Advisory Board approve the attached amendments to the 1994-1996 Transportation Improvement Program

BACKGROUND AND PURPOSE OF ACTION: Attached are replacement tables to the Twin Cities 1994-96 TIP, which was adopted by the TAB on July 28, 1993, and approved by the Metropolitan Council on August 12, 1993. The TIP was conditionally approved by the Minnesota Department of Transportation on October 22, 1993, and transmitted to U.S. DOT for approval and incorporation into the State Transportation Improvement Program (STIP). The conditions of the state approval of the TIP require this amendment to the TIP, along with other necessary changes at this time. The content and reasons the proposed amendment is necessary are explained below.

1. A need for approximately \$50 million of deferrals of Mn/DOT projects was identified shortly after the TIP was approved in July. These adjustments to Mn/DOT projects were necessary due to the need to balance the state budget and to account for projects within the state fiscal year timeframe. These project deferrals were announced in August, but have yet to be formally approved as part of the TIP. Approval of the TIP by Mn/DOT and incorporation into the STIP was conditional on this action. Attachment 1 describes the shifts that were required to major projects scheduled for lettings in 1994 to 1996. The specific projects appear in the amended tables that follow. Table 3-B from the TIP has been modified to reflect these deferrals.
2. Mn/DOT's accounting of projects identified in the TIP indicates that the projects total more than the "targeted" amount identified for 1994-96 for the Twin Cities area. Reconciling these figures was also part of the condition for approval of the TIP. Therefore, an effort has been made to identify those projects shown in the TIP for 1994 which in fact will not be ready for lettings in federal fiscal year 1994. Those projects have been moved to 1995 and 1996. For now, amounts identified for future STP and CMAQ projects for 1995 and 1996 can be used for balancing within the annual targets. When future STP and CMAQ projects are identified, other projects in the TIP may have to be removed in order to balance the area's target. This strategy was selected by the Funding and Programming Committee because the process to develop the 1995-97 TIP will begin within the next two months, at which time all funding assumptions will be reviewed.

3. TAB solicited STP and CMAQ projects in May, 1993, and concurred with TAC project recommendations for funding in September, 1993. The 1994-96 TIP included a setaside of funds for STP and CMAQ projects. This amendment identified those projects now recommended for funding (tables 3-X and 3-Y) which utilize those funds.
4. The 1994-96 TIP included tables identifying small area FAU and FAS projects. The FAU and FAS programs no longer exist, but there is still a commitment to the projects within a specified timeframe. This amendment deletes projects already authorized in 1993, identifies current funding source (STP) and a sunset date (April, 1994) for the remaining projects. This clarification was also a condition of the state for TIP approval.
5. Changes to Table 3-U are necessary in order to delete the city of Richfield bus purchase through the FTA Section 16 program, since Richfield has purchased the bus itself. Also, two projects have been added, a mid-sized bus purchase by the Ebenezer Ridges Care Center in Burnsville, and a passenger van purchase by the Vinland National Center in Loretto. These additional projects are possible due to the deletion of the Richfield project and availability of more program funds than originally anticipated.
6. A number of changes need to be made relative to transit projects (the attached memorandum from the MTC explains these changes in some detail). Modifications or additions have been provided to TIP tables 3-S, 1994 Transit Projects by Source of Federal Funds, and Table 3-T 1994-96 FTA Section 9 Capital and Operating Assistance. Appropriate changes are also needed to the tables in Appendix B, Conformity of the 1994-1996 Transportation Improvement Program with the 1990 Clean Air Act Amendments. These changes are attached.
7. All programmed projects will be reviewed for conformity with the requirements of the 1990 Clean Air Act Amendments. The TAC's adoption is made conditional on a finding of conformity. The analysis will be complete prior to TAB adoption.

<u>Table</u>	<u>Changes in TIP Amendment</u>
3-A	No changes
3-B	Summary table; updated as appropriate
3-C	FAU projects incorporated into Table 3-X; project status updated, sunset date identified
3-D	FAS projects incorporated into Table 3-X; project status updated, sunset date identified
3-E	Bikeway/Walkway projects incorporated into Table 3-X; project status updated, sunset date identified
3-F	Enhancements project status updated, sunset date identified
3-G	Demonstration projects, add P.E. and R/W projects from Table 3-R; also add 77th St. in Richfield
3-H	IVHS, no change
3-I	Bridge projects - Mn/DOT and local bridge projects merged into one table
3-J	Preservation projects - all program category entries have been incorporated into other tables as specific projects, with the exception of 1996 bridge improvements and 94-96 Road Repair (state funded), and 95-96 Municipal Agreements
3-K	Mn/DOT CMAQ/NHS - delete table, include projects in NHS table

3-L	Interstate Maintenance - project information updated (including deferrals)
3-M	Mn/DOT NHS - project information updated (including deferrals)
3-N	Mn/DOT STP - add "Any Area" to title, delete Hazard Elimination Safety (HES) projects from table, add to Table 3-O, project information updated, including deferrals
3-O	STP Safety - add HES projects
3-P	State funded projects - no change
3-Q	Mn/DOT 1993 projects - delete table, add projects to be let in state fiscal 1994 to appropriate tables
3-R	Delete table, add projects to Table 3-G
3-S	Changes will be made to reflect approved projects as illustrated
3-T	Changes will be made to reflect increased 1994 funds as illustrated
3-U	Delete one project, add two projects as described above
3-V	No change
3-W	Updated to reflect current tables
3-X	New table, STP Urban Guarantee, including Bikeway/Walkway projects
3-Y	New table, CMAQ projects
4-A	Modify to reflect changes
B-2	Revise Carbon Monoxide Emission Values
B-5	Update Wright County Projects
B-6	Add I-94 St. Croix River Bridge Replacement

ROUTING

TO	ACTION REQUESTED	DATE COMPLETED
Funding & Programming	Review & Recommend	11/18/93
TAC	Review & Recommend	12/01/93
TAB/ISTEA Program Comm.	Review & Recommend	
TAB	Review and Adopt	
Metropolitan Council	Approve	

MAJOR PROJECT SCHEDULE CHANGES PROJECT LEVEL INFORMATION

December 8, 1993

T.H.	DESCRIPTION	\$ (M)	JULY 15		NOVEMBER AMENDMENT	
			TIP	WORK PROGRAM	TIP	WORK PROGRAM
3	Lafayette Freeway	8.0	November, 1993		December, 1993	
5	TH 25 to 284	2.2		June, 1998		November, 1998
	TH 284 to TH 41	3.9		June, 1999		November, 1999
	TH 41 to CSAH 17	5.2		June, 1997		January, 1998
10	In Anoka County					
	Stage 2	20.7	June, 1995		November, 1995	
	Stage 3	18.1	June, 1996			November, 1996
	Stage 4	14.6		November, 1996		December, 1997
10	TH 61 to Prescott	6.6		November, 1997		December, 1997
13	In Prior Lake	6.0		November, 1999		November, 1999
35	TH 50 to Scott CSAH 2	7.5		June, 1997		November, 1997
35	S. Jct. 35E/35W to TH 50	6.2	June, 1994		January, 1995	
35W	TH 13 to I-494 - HOV Lane					
	TH 13 to MN River	10.8	November, 1993		November, 1993	
	MN River to I-494	6.0	November, 1993		February, 1994	
35W	Mega Project (1st Stage)	25.0		June, 1999		November, 2001

T.H.	DESCRIPTION	\$ (M)	JULY 15		NOVEMBER AMENDMENT	
			TIP	WORK PROGRAM	TIP	WORK PROGRAM
35W	I-494 to Minneapolis (Preservation)	13.0	November, 1994		November, 1994	
	I-494 to Minneapolis (HOV)	10.0	June, 1995		June, 1995	
	I-494 to Minneapolis (HOV)	20.0	November, 1995		November, 1995	
36	I-35W to TH 51	6.0		November, 2000		November, 2000
36	At TH 5	4.9		November, 1997		November, 1997
36	Washington to River Bridge	14.0		June, 1997		January, 1999
36	Stillwater River Bridge	5.5	June, 1996			November, 1996
	(MN Share)	21.5	June, 1996			November, 1997
41	TH 212 to TH 5	4.4		January, 1999		December, 1999
47	University, St. Anthony, RR Bridges	5.5		November, 1996		November, 1996
52	At TH 3, 52, 55	5.0	April, 1994		May, 1994	
13, 55 110	Mendota Interchange	18.4	May, 1993		May, 1993	
55	Hiawatha Avenue in Minneapolis					
	31st to I-94	12.0	June, 1994		June, 1994	
	31st to I-94	5.5	November, 1995		January, 1995	
	31st to I-94	13.0	June, 1995		June, 1995	
	31st to I-94	3.0		November, 1996		November, 1996
	46th to TH 62	11.0		June, 1998		June, 1998
	46th to TH 62	11.0		November, 1998		June, 1999

T.H.	DESCRIPTION	\$ (M)	JULY 15		NOVEMBER AMENDMENT	
			TIP	WORK PROGRAM	TIP	WORK PROGRAM
94	Dartmouth Bridge, etc	23.5	February, 1995		August, 1994	
94	CSAH 152 to I-494, Brooklyn Center	10.0		June, 1999	November, 1995	
		15.0		June, 1999		December, 1999
94	Ruth to TH 120 & TMS	10.0		June, 1998		December, 1998
		2.0		June, 1998		December, 1998
94	EB over St. Croix at Hudson	7.0	July, 1994		July, 1994	
	WB Redeck, etc.	4.5	May, 1996		October, 1995	
96	TH 35E to TH 61	3.55		June, 1998		March, 1999
100	TH 7 to I-394	25.0		November, 2000		November, 2000
	39th to Indiana	10.0		March, 2000		March, 2000
	29th to 39th	7.0		November, 1999		November, 1999
101	Grays Bay	2.54		June, 1997		January, 1998
101	Elk River to Rogers					
	River Bridges	4.5	September, 1993		September, 1993	
	CSAH 42 to TH 10	4.3	February, 1994		February, 1994	
	I-94 to CSAH 42	8.2	February, 1995			November, 1996
101	Shakopee Bypass					
	TH 101 to CSAH 17	14.0	November, 1993		November, 1994	
	CSAH 17 to TH 169	8.4	November, 1994		November, 1995	

T.H.	DESCRIPTION	\$ (M)	TIP	JULY 15	NOVEMBER AMENDMENT
				WORK PROGRAM	TIP WORK PROGRAM
169	Champlin - River Bridge	6.8		June, 1997	January, 1998
169	Osseo Bypass	6.0	June, 1994		June, 1994
212	I-494 to TH 41				
	Stage 1	15.0		November, 1996	December, 1997
	Stage 2	15.6		June, 1998	November, 1998
	Stage 3	8.9		November, 1998	December, 1999
	Stage 4	22.0		November, 1999	November, 2000
	Stage 5	10.9		June, 2000	April, 2001
280	Kasota to I-35W	12.0		November, 1999	November, 1999
494	Mega Project (1st Stage)	30.0		June, 2000	March, 2001
610	TH 252 to I-94				
	Stage 1	5.0	June, 1996		November, 1996
	Stage 2	10.0		November, 1997	November, 1997
	Stage 3	30.0		March, 1998	November, 1998 & April, 1999
	Stage 4	15.0		November, 1998	November, 1999



METROPOLITAN TRANSIT COMMISSION —

560-6th Avenue North, Minneapolis, Minnesota 55411-4398 612/349-7400

MEMORANDUM

TO : Chair and Members of the Funding and Programming Committee

FROM: Hank Imm *HE*

DATE: November 16, 1993

SUBJECT: Request of 1994-1996 TIP Amendments

The MTC just received the official announcement of FY-1994 Transit Funding apportionments as follows;

1. Section 9 Annual Grant:

	Actual	Estimate
Operating Assistance :	\$ 7,281,433	\$ 7,350,000
Capital Assistance :	\$ 11,966,338	\$ 7,625,000
Total :	\$ 19,247,771	\$14,975,000

- Section 9 grant is an annual grant to the MTC based on the formula, i.e. the combination of population and service miles of the preceding 2 year's operation.
- The funding ratio is 80 - 20 and the FY-1994 apportionment is higher than the estimate.
- The application has been submitted and under the FTA's review which requires the corresponding TIP elements.
- The operating assistance portion is for the MTC's CY-1993 operating expenses and the entire amount will be reimbursed to the MTC early 1994.
- The capital assistance portion of \$ 9.2 million will be used for up to 51-40 ft buses (project 3312) during 1994 and 1995. The remainder will be allocated for future capital projects.
- : Amendments needed in Tables : 3-S, 3-T, B4 and B5.

2. Section 3 Discretionary Grant

- This is a discretionary grant of \$ 7 million earmarked for the MTC's bus project(3312).
- It will be used to pay for 41-40 ft buses together with the above Section 9 grant during during 1994 and 1995.
- The funding ratio is 75-25 and the application is being prepared for submission to FTA.
- : Amendments needed in Tables : 3-S, 3-T, B4 and B5.

3. Section 26(b) grant for Team Transit Projects

- This is also another type of discretionary grant of \$ 500,000 for the MTC's Team Transit Project, which is a multi-agency cooperative project to implement solutions to mass transportation mobility and congestions in the urban and suburban area in and around Minneapolis-St. Paul.
- This grant is an operating grant to be expended during 1994 and does not require a local match.
- The application has already submitted.
- : Amendments needed in Tables : 3-T and B5.

The revised tables shall be as attached;

Table 3B
MAJOR PROJECTS SUPPORTIVE OF THE REGIONAL TRANSPORTATION PLAN
IN THE 1994-96 TRANSPORTATION IMPROVEMENT PROGRAM

PROJECT		TOTAL (000s)	FEDERAL PARTICIPATION (000s)
<u>Highway And Bridge</u>			
1.	TH 3, Lafayette	\$8,200	\$6,600
2.	TH 10, Anoka County	20,700	16,600
3.	I-35W, Temporary (HOV) Lane and Preservation from TH 13 to Minneapolis	39,800	31,800
4.	TH 55, Mendota Interchange & Bridge	16,400	13,100
5.	TH 55, Hiawatha Avenue	30,500	24,400
6.	I-94 Dartmouth Bridge/U of M Interchange	23,500	18,800
7.	TH 101, Rogers to Elk River	8,800	7,000
8.	TH 101, Shakopee Bypass	22,400	17,900
9.	TH 169, Osseo Bypass	6,000	4,800
10.	CR 18, Bridge & Approaches, Reconstruct from 102 St. to I-494	50,800	35,800
TOTAL HIGHWAY AND BRIDGE		\$227,100	\$176,800
<u>Transit</u>			
1.	Bus Replacement	30,425	24,340
2.	Bus Shelters	1,173	938
3.	St. Paul Transit Hub	692	553
4.	Minneapolis River City Trolley	2,500	1,400
5.	Nicollet Mall North Terminal and Buses	10,000	8,000
6.	Park-and-Ride Lots	2,263	1,810
7.	System-Wide Bus Top Signage	1,500	1,200
8.	Regular-Route Operating Costs	199,285	21,600
9.	I-394 Corridor Transit Service Start-up	3,000	2,400
10.	Central Corridor EIS and Preliminary Engineering	4,000	3,200
11.	Section 18 Operating Assistance	238	51
TOTAL TRANSIT		\$255,076	\$65,492

Twin Cities Metropolitan Area
1994-1996 Transportation Improvement Program
Table 3-F ENHANCEMENT PROJECTS

11-24-1993

Year	STIP Seq	Route	Prt	Project Number	Prg	Total \$ (000's)	Fed \$ (000's)	State \$ (000's)	Local \$ (000's)	Possible Funds	Category	Description	MI	Agency	A.Q. Excl.	Sunset
1994	1305	EN		138-080-01	EN	189	95	0	95	EN	OTHER	CITY HALL/COMMUNITY CENTER TRAIL IN MAPLEWOOD	.75	CITY OF MAPLEWOOD	D-2	9/1/94
1994	1306	EN		160-080-01	EN	375	300	0	75	EN	OTHER	COUNTY ROAD C PATHWAY ENHACEMENT IN ROSEVILLE	3.5	CITY OF ROSEVILLE	D-2	9/1/94
1994	1307	EN		164-080-04	EN	742	594	0	148	EN	OTHER	BURLINGTON NORTHERN REGIONAL TRAILWAY IN ST. PAUL	3	CITY OF ST PAUL	D-2	9/1/94
1994	1309	EN		189-080-02	EN	591	296	0	296	EN	OTHER	E FISH LAKE ROAD PEDESTRIAN BR IN MAPLE GROVE	.5	CITY OF MAPLE GROVE	D-2	9/1/94
1994	1310	EN		194-090-02	EN	400	280	0	120	EN	OTHER	TH 5 PED/BIKE BR IN CHANHASSEN	0	CITY OF CHANHASSEN	D-2	9/1/94
1994	1314	EN		92-100-26	EN	120	95	0	25	EN	OTHER	INTERSTATE STATE PARK TRAIL DEV AND SCENIC BEAUT - MN DNR	1	MN DNR	D-2	9/1/94
1995	1302	EN		02-590-02	EN	213	160	0	53	EN	OTHER	ANOKA CO PARKS: E RIVER RD TO CAMDEN BR -- PED/BIKEWAY	.5	ANOKA CO	D-2	9/1/94
1995	1303	EN		103-080-01	EN	226	113	0	113	EN	OTHER	ANOKA & RAMSEY CITIES: CONSTRUCT LIGHTING & FACILITIES FOR PATH	2.6	CITY OF ANOKA	A-20	9/1/94
1995	1304	EN		127-090-04	EN	120	60	0	60	EN	OTHER	CITY OF FRIDLEY: UNIVERSITY AVE BIKE/PED PROJECT	2.3	CITY OF FRIDLEY	D-2	9/1/94
1995	1308	EN		167-080-01	EN	155	77	0	77	EN	OTHER	COUNTY ROAD J TRAIL IN SHOREVIEW	.32	CITY OF SHOREVIEW	D-2	9/1/94
1995	1311	EN		27-600-07	EN	100	75	0	25	EN	OTHER	CSAH 12 - CLOQUET ISLAND SCENIC OVERLOOK	0	HENNEPIN CO	F-3	9/1/94
1995	1312	EN		91-100-06	EN	159	111	0	48	EN	OTHER	ST. ALBANS BAY BIKEWAY BR IN HENNEPIN COUNTY	0	HENNEPIN PARKS	D-2	9/1/94
1995	1313	EN		91-110-05	EN	150	105	0	45	EN	OTHER	VALLEY VIEW ROAD BIKE/PEDESTRIAN BR IN HENNEPIN COUNTY	0	HENNEPIN PARKS	D-2	9/1/94
1995	1522	EN		91-110-04	EN	300	150	0	150	EN	OTHER	NORTH MISSISSIPPI REGIONAL TRAIL IN HENNEPIN COUNTY	2.5	HENNEPIN PARKS	D-2	9/1/94

Project approvals are specifically limited to the federal fund amount identified here for purposes of plan specification and estimate approval as well as project authorization. The federal fund amount listed for each project may be used to fully fund any identifiable useable element of the project described or to fund the entire project with a flexible federal/nonfederal participation. The federal fund amount listed is the total which may be authorized for all advertisements of the project described. Any federal fund amounts authorized of placed under agreement in years prior to November 15, 1991 should be deducted from the amount identified in this annual llement.

Twin Cities Metropolitan Area
1994-1996 Transportation Improvement Program
Table 3-G MN/DOT AND OTHER DEMONSTRATION PROJECTS

11-24-1993

Year	STIP Seq	Route	Pri	Project Number	Prg	Total \$	Fed \$	State \$	Local \$	Possible Funds	Category	Description	MI	Agency	A.Q. Excl.	Sunset
1994	1261	77TH ST		157-108-15	MC	10,350	8,280	1,552	517	DEMO	EXPANSION	PORTLAND AVE TO CEDAR AVE	0	CITY OF RICHFIELD	NO	
1994	1281	CR 18		27-618-XX	RC	30,256	19,01	0	11,240	DEMO	EXPANSION	BLOOMINGTON FERRY BR. - STAGE 6 - RECONSTR CR 18 FROM 102ND ST TO I-494		HENNEPIN CO	NO	
1994	1282	CR 18		70-618-18	RC	20,560	16,81	0	3,743	DEMO	EXPANSION	BLOOMINGTON FERRY BR. - STAGE 5 - SHAKOPEE BYPASS TO 0.18 MI S OF TH 101		SCOTT CO	NO	
1994	1426	TH 55		2724-454B	MC	100	80	20	0	DEMO	OTHER	RELOCATE "LONGFELLOW HOUSE" IN MINNEHAHA PARK IN MINNEAPOLIS	0	MNDOT	F-2	
1995	1581	TH 55	6	2724-27063	MC	460	414	46	0	DEMO	EXPANSION	TH 55 (HIAWATH AVE.) OVER CEDAR AVE. - CONST.BR.27063	0	MNDOT	GR	
1995	1582	TH 55	6	2724-27071	MC	1,100	990	110	0	DEMO	EXPANSION	TH 55 (HIAWATH AVE.) OVER FRANKLIN AVE. - CONST.BR. 27071	0	MNDOT	GR	
1995	1583	TH 55	6	2724-99	MC	10,440	7,110	790	2,500	DEMO	EXPANSION	LAKE ST. INTERCHANGE TO T.H.94 IN MPLS.-GRADE, SURFACE AND LIGHTING-PHASE 1B	0	MNDOT	GR	
1995		TH 55		2724-103	MC	5,500	4,950	550	0	DEMO	EXPANSION	TH 55 (HIAWATHA AVE) AT LAKE ST, OVERPASS, BYPASS ROADS, UTILITY RELOCATION	0	MNDOT	GR	
1996		TH 55		2724-104	MC	800	720	80	0	DEMO	EXPANSION	EAST 26TH ST TO CEDAR AVE. - PED BRIDGE 27202	0	MNDOT	GR	
1996	1685	TH 55	6	2724-8802	MC	13,000	11,70	1,300	0	DEMO	EXPANSION	LAKE ST. INTERCHANGE TO T.H.94 IN MPLS.-GRADE, SURFACE & LIGHTING PHASE 2	0	MNDOT	GR	
1996		TH 212		1013	MC	5,000	4,000	1,000	0	DEMO	EXPANSION	TH 212-EDEN PRAIRIE TO COLOGNE - PRELIM ENGR AND R/W ACQUISITION	0	MNDOT	F-1	
1996		TH 610		2771	MC	5,000	4,000	1,000	0	DEMO	EXPANSION	TH 610-TH 252 TO TH 169 - PRELIM ENGR AND R/W ACQUISITION	0	MNDOT	F-1	

Twin Cities Metropolitan Area
1994-1996 Transportation Improvement Program
Table 3-H MN/DOT AND GUIDESTAR IVHS PROJECTS

11-24-1993

Year	STIP Seq	Route	Prt	Project Number	Prg	Total \$ (000's)	Fed \$ (000's)	State \$ (000's)	Local \$ (000's)	Possible Funds	Category	Description	MI	Agency	A.Q. Excl.	Sunset
1994	1507	TH 999		8809-145		800	720	80	0	IVH	SAFETY	METROWIDE COMMUNICATION LINK (IVHS)	0	MNDOT	A-18	
1995	1617	TH 169		2772-5		2,000	1,600	400	0	IVH	SAFETY	I-394 TO I-94 -- TRAFFIC MANAGEMENT SYSTEM	7.58	MNDOT	A-18	
1996	1724	TH 999		8809-72		3,000	2,400	600	0	IVH	SAFETY	ON I94 FROM TH 280 TO I35E & ON I35E FROM MISSISSIPPI RIVER TO I94-TRAFFIC MANAGEMENT SYSTEMS	0	MNDOT	A-18	
1996	1725	TH 999		8809-74		3,500	2,800	700	0	IVH	SAFETY	ON I35W FROM CRYSTAL LAKE RD TO MINN RIVER, ON I35E FROM S JCT I35W TO YANKEE DOODLE RD, & ON TH 77 FROM I35E TO MINN	0	MNDOT	A-18	

MN GUIDESTAR - INTELLIGENT VEHICLE HIGHWAY SYSTEM OPERATION TASKS

Project	State Project Number	County	Letting Date	Year Operational	Objective	Estimated Cost (000s)					
						Total	Federal	State	Other Local	Private	Neural Project
ITMS Scoping Study		Seven-County Region	1993	1994	To build consensus on the Twin Cities Integrated Traffic Management (ITMS) design and to develop preliminary engineering details for the recommended options	500	400	100	0	0	F-1
ITMS Operations and Maintenance Study		Seven-County Region	1993	1994	To develop an Operations and Maintenance Program for the Twin Cities' Integrated Traffic Management System (ITMS)	50	35	10	5	0	F-1
Advanced Parking Information System		Ramsey	1993	1994	To examine the feasibility of an automated real-time parking information and guidance system	750	600	75	75	0	F-1
Rosedale		Ramsey	1993	1995	To evaluate the use of ATMS & ATIS technologies to improve access to and from a major activity center thus reducing congestion	549	269	140	140	0	F-1
St. Paul Incident Management		Ramsey	1993	1994	To manage incidents in the I-94/I-35E corridor area making use of comprehensive data communication between Mn/DOT's traffic management center (TMC) and the City of St. Paul	564	360	90	70	0	A-18
Trilogy		Seven-County Region	1992	1993	To develop and evaluate an advanced traveler information service using the Radio Data System - Traffic Message Channel (RDS-TMC)	280	0	280	0	44	A-18
Portable Traffic Management System		Anoka	1993	1994	To demonstrate and evaluate a fully portable traffic management and control system	670	358	159	155		A-18
Smart DARTS		Dakota	1993	1994	To improve existing transportation systems for seniors and persons with disabilities	562	272	20	244	26	F-1
ICTM		Seven-County Region	1993	1994	To demonstrate that more efficient corridor transportation movement can be achieved through cooperative jurisdictional efforts, freeway and arterial integration, real-time adaptive control strategies, advanced technologies and a comprehensive motorist information system	7,250	3,750	3,500	0	0	F-1
Cruise		Hennepin	1994	1995	To develop and test sensor systems which apply advanced detection technologies to traffic management and control	1,600	328	2	0	1,190	A-18
Third Avenue Distributor (TAD)		Hennepin	1994	1994	To define and develop strategies for coordinated corridor-based traffic management and to evaluate these strategies in a real-world environment.	2,095	1,090	30	1,600	175	F-1

IVHS-10

Twin Cities Metropolitan Area
1994-1996 Transportation Improvement Program
Table 3-1 FEDERALLY FUNDED BRIDGE PROJECTS

11-30-1993

Year	STIP Seq	Route	Prt	Project Number	Prg	Total \$ (000's)	Fed \$ (000's)	State \$ (000's)	Local \$ (000's)	Possible Funds	Category	Description	MI	Agency	A.Q. Excl.	Sunset
1994	1278	CITY		152-102-10		440	352	0	88	BROS	REPLACE	REPL BR 27680, OLD CRYSTAL BAY RD NORTH OVER BNRR	0	CITY OF ORONO	A-13	
1994	1374	I-35W		1981-6583		1,027	822	205	0	BHI	PRESERVATION	OVER C & NW RY & CLIFF RD-REDECK,WIDEN,APPROACH TO BR 6583 & HEAT.	0	MNDOT	A-13	
1994	1416	TH 55		1909-19087		1,182	946	236	0	BRNH	REPLACE	OVER SOO LINE RR & RELOCATED TH 13-BR 19087 & 19088(REP 19029 & 19030) (JULY AWARD)	0	MNDOT	A-13	
1994	1421	TH 55		1909-72	5	200	160	40	0	BHMH	REPLACE	MENDOTA BR-LIGHTING	0	MNDOT	A-20	
1994	1445	TH 95		1306-30		435	348	87	0	BRSTP	REPLACE	OVER SUNRISE RIVER 6.8 MI NE OF NO BRANCH-BR 13005 & APPROACHES (REPLACE BR 5681)	.1	MNDOT	A-13	
1995		CSAH 36		27-636-04		2,900	2,320	0	580	BROS	REPLACE	UNIVERSITY (CSAH 36) AND 14TH AVE SE OVER BNRR - REPLACE BR 90422 & 92353	0.1	HENNEPIN COUNTY	A-13	
1995	1277	CITY		141-080-15		1,168	934	0	234	BROS	REPLACE	REPL NICOLLET ST BR L-8924 WITH BR #27695	0	CITY OF MINNEAPOL	A-13	
1995	1283	CR 63		70-598-02		150	120	0	30	BROS	REPLACE	REPL BR L-3046 OVER SAND CREEK, 1 MI N OF JORDAN	0	SCOTT CO	A-13	
1995	1294	CSAH 68		19-668-02		920	736	0	184	BROS	REPLACE	REPL BR OVER VERMILLION RIVER	0	DAKOTA CO	A-13	
1995	1296	CSAH 9		02-609-04		160	128	0	32	BROS	REPLACE	REPL BR #7157 OVER CEDAR CREEK	0	ANOKA CO	A-13	
1995	1409	TH 52		1907-54		5,000	4,000	1,000	0	BRNH	REPLACE	AT TH 3,52,55 IN INVER GROVE-BR 19045 (REP BR 5820),RECONST INTERCHANGE,LIGHTING,SIGNING	1.75	MNDOT	A-13	
1995	1574	TH 52		6217-9036		400	320	80	0	BRNH	PRESERVATION	ROBERT ST OVER MISSISSIPPI RIVER-SCOUR PROTECTION ON BR 9036	0	MNDOT	A-13	
1996		CITY		164-235-09		0	0	0	0	BROS	REPLACE	WABASHA STREET BRIDGE REPLACEMENT IN ST PAUL		CITY OF ST PAUL	A-13	
1996		COUNTY		10-653-05		0	0	0	0	BROS	REPLACE	CARVER COUNTY BRIDGE		CARVER COUNTY	A-13	

Twin Cities Metropolitan Area
1994-1996 Transportation Improvement Program

Table 3-J PRESERVATION AND AGREEMENT PROGRAM SET-ASIDES

11-24-1993

Year	STIP Seq	Route	Prt	Project Number	Prg	Total \$ (000's)	Fed \$ (000's)	State \$ (000's)	Local \$ (000's)	Possible Funds	Category	Description	MI	Agency	A.Q. Excl.	Sunset
1994	1509	TH 999		ROAD REPAIR 94		685	0	685	0	SF	PRESERVATION	METRO SET ASIDE FOR ROAD REPAIR FY 94	0	MNDOT	A-12	
1995	1634	TH 999		AGREEMENTS 95		4,300	0	4,300	0	SF	OTHER	METRO SET ASIDE FOR MUNICIPAL AGREEMENTS FY 95	0	MNDOT	A-8	
1995	1635	TH 999		ROAD REPAIR 95		1,500	0	1,500	0	SF	PRESERVATION	METRO SET ASIDE FOR ROAD REPAIR FY 95	0	MNDOT	A-12	
1996	1728	TH 999		BRIDGE IMPR 96		9,000	0	9,000	0	SF	PRESERVATION	SET ASIDE FOR BRIDGE IMPROVEMENTS - FY 96	0	MNDOT	A-13	
1996	1729	TH 999		AGREEMENTS 96		6,000	0	6,000	0	SF	OTHER	METRO SET ASIDE FOR MUNICIPAL AGREEMENTS	0	MNDOT	A-8	
1996	1730	TH 999		ROAD REPAIR 96		1,500	0	1,500	0	SF	PRESERVATION	METRO SET ASIDE FOR ROAD REPAIR	0	MNDOT	A-12	

Twin Cities Metropolitan Area
1994-1996 Transportation Improvement Program
Table 3-L INTERSTATE MAINTENANCE PROJECTS

11-24-1993

Year	STIP Seq	Route	Prt	Project Number	Prg	Total \$ (000's)	Fed \$ (000's)	State \$ (000's)	Local \$ (000's)	Possible Funds	Category	Description	MI	Agency	A.Q. Excl.	Sunset
1994	1365	I-35E		0282-24	RS	4,201	3,780	420	0	IM	PRESERVATION	FROM 0.5 MI S OF CO RD E TO JCT I35W/I35E-BITUMINOUS OVERLAY & EDGE DRAINS	12.7	MNDOT	A-12	
1994	1371	I-35E		6281-9567	BI	365	329	37	0	IM	PRESERVATION	AT GOOSE LAKE ROAD-OVERLAY BRS 9567 & 9568	.1	MNDOT	A-12	
1994	1372	I-35W		0280-44	TM	3,179	3,179	0	0	IM	SAFETY	ON I35W FROM TH 36 TO LEXINGTON AVE-TRAFFIC MANAGEMENT SYSTEM	11	MNDOT	A-18	
1994	1375	I-35W	3	1981-88	MC	6,469	5,822	647	0	IM	EXPANSION	TH13 TO MINN RIVER-BIT.OVERLAY & ADD TEMP 3RD LANE,SIGNING,LIGHTING;S JCT I35E/I35W TO MINN RIVER-TMS INSTALLATION--(H	1.6	MNDOT	NO	
1994	1376	I-35W		1981-90	RS	724	652	72	0	IM	PRESERVATION	S JCT I35/35E TO SB EXIT RAMP TO BURNSVILLE PKWY-BITUMINOUS OVERLAY	2.3	MNDOT	A-12	
1994	1378	I-35W	3	2782-250	MC	7,000	6,300	700	0	IM	EXPANSION	MINN RIVER TO I-494 - BIT OVERLAY, SIGN, LIGHT & ADD INTERMEDIATE 3RD LANE--(HOV)	4.1	MNDOT	NO	
1994	1379	I-35W		2782-27932	BI	351	316	35	0	IM	PRESERVATION	60TH ST TO TH 121-O'LAY BRS.27932,37,38,41, ALSO GUARD RAIL & JOINT WORK	0	MNDOT	A-12	
1994	1380	I-35W		2783-8802	RS	900	810	90	0	IM	PRESERVATION	UNIV AVE TO HENN CO LINE - CONCRETE REPAIR & JT RESEAL	3	MNDOT	A-12	
1994	1381	I-35W		2783-95	SC	120	108	12	0	IM	SAFETY	TH 122 TO RAMSEY-ANOKA CO LINE-REPLACE SIGN LIGHTING	12.6	MNDOT	A-20	
1994	1382	I-35W		6284-116	RS	700	630	70	0	IM	PRESERVATION	W RAMSEY CO LINE TO CO RD C-JOINT REHABILITATION	1.8	MNDOT	A-12	
1994	1439	I-94		2781-371	RD	743	668	75	0	IM, SF	PRESERVATION	TH35W S.B.TO TH94 W.B.- RAMP MOD,RETAIN WALL,SIGN,LIGHT	.8	MNDOT	F-4	
1994	1440	I-94		2781-373	SC	1,092	983	109	0	IM	SAFETY	UPGRADE LIGHTING IN LOWRY HILL TUNNEL.	0	MNDOT	A-20	
1994	1441	I-94		2781-375	RS	5,216	4,633	583	0	IM, SF	PRESERVATION	11TH AVE IN MPLS TO WESTERN IN ST PAUL-MILL & OVERLAY 11TH TO SNELLING;OVERLAY FROM SNELLING TO WESTERN-LOW SLUMP OVER	7.4	MNDOT	A-12	
1994	1444	I-94		6282-9381	BI	950	855	95	0	IM	PRESERVATION	UNDER HAMLINE & CLEVELAND IN ST PAUL-REDECK BRS 9381,9457	0	MNDOT	A-12	
1994	1494	I-394		2789-95	MC	280	224	56	0	IM, NH	OTHER	0.3 MI W TH 100 TO W LIM MPLS-LANDSCAPING	.9	MNDOT	F-4	
1995	1373	I-35W		0280-9607	BI	600	540	60	0	IM	PRESERVATION	UNDER SB ON RAMP FROM LAKE DRIVE-REDECK/WIDEN BR 9607, WIDEN RAMP, LIGHTING, GUARDRAIL/BARRIER	0	MNDOT	A-13	
1995	1539	I-35		1380-13801	BI	580	522	58	0	IM	PRESERVATION	UNDER TH 61,CSAH 19,CSAH 17,TH 95,CSAH 9,CSAH 3, & CSAH 7-MILL & L.S. OVERLAY ON BRS. 13801,13802,13803,13804,13807,13	0	MNDOT	A-13	
1995	1542	I-35		1980-57	RC	4,390	3,951	439	0	IM	REPLACE	TH 50 TO S JCT I35E&35W-RECONSTRUCT NB & SB-REMOVE WEIGH STATION	3.6	MNDOT	A-12	
1995	1544	I-35E		0282-02802	BI	315	284	32	0	IM	PRESERVATION	UNDER 80TH ST IN LINO LAKES, CO RD J, CO RD H2, & EDGERTON-MILL & L.S. OVERLAY BRS. 02802,62836,62835,9561	0	MNDOT	A-13	
1995	1545	I-35E		1982-118	RS	800	720	80	0	IM	PRESERVATION	S JCT I35E & I35W TO TH 77-JOINT REHABILITATION	4.4	MNDOT	A-12	
1995	1546	I-35E		1982-119	RS	594	535	59	0	IM	PRESERVATION	CSAH 26 TO TH 110-BITUMINOUS OVERLAY	2.7	MNDOT	A-12	
1995	1547	I-35E		1982-120	RS	400	360	40	0	IM	PRESERVATION	TH 110 TO TH 5-SAW & SEAL CONCRETE JOINTS	2.5	MNDOT	A-12	
1995	1551	I-35W		2782-255	RS	7,300	6,570	730	0	IM	PRESERVATION	66TH ST TO 31ST ST--MILL & OVERLAY, CONC.REPAIR & RESEAL	8.7	MNDOT	A-12	

Table 3-L INTERSTATE MAINTENANCE PROJECTS

11-24-1993

Year	STIP Seq	Route	Prt	Project Number	Prg	Total \$	Fed \$ (000's)	State \$ (000's)	Local \$ (000's)	Possible Funds	Category	Description	MI	Agency	A.Q. Excl.	Sunset
1995	1552	I-35W		2782-27867A	BI	900	810	90	0	IM	PRESERVATION	OVER SOO LINE RR, 1.3 MI S OF I94--REPL DECK BR 27867	0	MNDOT	A-12	
1995	1554	I-35W		2782-6850	BI	3,375	3,038	338	0	IM	PRESERVATION	94TH ST. TO 26TH ST.-OVERLAY BRS. 9039,9053,9213,9611,9617: REDECK BRS. 6850,6851,9041,9615,27869,27870	0	MNDOT	A-13	
1995	1555	I-35W		2782-9613	BI	2,000	1,800	200	0	IM	PRESERVATION	SB BR 9613 & NB BR 9614 OVER MINNHAHA PKWY-REPLACE SUPERSTRUCTURE & WIDEN	0	MNDOT	A-13	
1995	1556	I-35W		2782-9613A	BI	1,000	900	100	0	IM	PRESERVATION	SB BR 9613 & NB BR 9614 OVER MINNIHAHA PKWY - STEEL GIRDERS	0	MNDOT	A-13	
1995	1557	I-35W		2782-9731A	BI	600	540	60	0	IM	PRESERVATION	OVER 31ST ST, 1.5 MI S OF I-94	0	MNDOT	A-13	
1995	1558	I-35W		2782-9733A	BI	750	675	75	0	IM	PRESERVATION	OVER LAKE ST, 1.4 MI S OF I94--REPLACE DECK BR 9733	0	MNDOT	A-13	
1995	1559	I-35W		6284-9570	BI	450	405	45	0	IM	PRESERVATION	UNDER CR E2 & UNDER TH 96, OVER CR I--MILL & OVERLAY BRS 9570,9577, & 9603	0	MNDOT	A-13	
1995	1590	I-94		2781-27843	BI	580	522	58	0	IM	PRESERVATION	UNDER TH 65 IN MPLS. - REPLACE DECK BR. 27843	0	MNDOT	A-13	
1995	1591	I-94	7	2781-27860	MC	1,350	1,215	135	0	IM	REPLACE	LOV BR-RAMP D OVER TH 94 AT U OF M INTERCHANGE-BR 27860	0	MNDOT	A-13	
1995	1592	I-94	7	2781-27981	BR	900	810	90	0	IM	REPLACE	EAST RIVER RD. OVER TH 94 - BR 27981(REP BR 27951)	0	MNDOT	A-13	
1995	1593	I-94	7	2781-289	MC	5,500	4,950	550	0	IM	REPLACE	RIVERSIDE TO 1000'E OF FRANKLIN AVE.-GR,SURF,LT,TM,SIGNING	.52	MNDOT	A-12	
1995	1595	I-94		2781-27856	BR	1,250	1,125	125	0	IM	REPLACE	TH 94 UNDER 27TH AVE SE-BR 27856(REP BR 27954)& APPROACHES	0	MNDOT	A-13	
1995	1596	I-94		2781-27998	BR	1,100	990	110	0	IM	REPLACE	EB TH 94 TO U OF M RAMP OVER TH 94-BR 27998(REP BR 27953)	0	MNDOT	A-13	
1995	1597	I-94	7	2781-9350	BR	12,550	11,295	1,255	0	IM	REPLACE	TH 94 OVER W RIVER RD/MISS R - REPL SUPERSTRUCTURE ON BR 9350	0	MNDOT	A-13	
1995	1598	I-94		2781-9420	BI	615	554	62	0	IM	PRESERVATION	UNDER PORTLAND,PARK,CHICAGO,25TH ST, RIVERSIDE-OVERLAY BRS. 27851,27852,27853,9420,9421	0	MNDOT	A-13	
1995	1599	I-94	7	2781-9893	BI	850	765	85	0	IM	PRESERVATION	TH 94 OVER FRANKLIN TERRACE - REDECK,WIDEN BR 9893	0	MNDOT	A-13	
1995	1600	I-94		2786-96	TM	500	450	50	0	IM	SAFETY	I-494 TO TH 169 ---TRAFFIC MANAGEMENT SYSTEM	2.62	MNDOT	A-18	
1995	1602	I-94		6282-9379	BI	1,385	1,247	139	0	IM	PRESERVATION	UNDER PRIOR, PASCAL, VICTORIA-REDECK BRS. 62845,9379,9663	0	MNDOT	A-13	
1995	1604	I-94		8281-82800	BR	7,000	6,300	700	0	IM	REPLACE	OVER ST CROIX AT WISC STATE LINE-BR 82800(REP BR 5999) & APPROACHES(WISCONSIN LET)	0	MNDOT	NO	
1995	1605	I-94		8282-83	SC	200	180	20	0	IM	SAFETY	AT TH 95 NORTH & SOUTH RAMPS-INSTALL TRAFFIC SIGNALS	0	MNDOT	T-2	
1995	1623	I-494		2785-272	TM	2,000	1,800	200	0	IM	SAFETY	I-394 TO I-94--TRAFFIC MANAGEMENT SYSTEM	8.5	MNDOT	A-18	
1995	1624	I-494		2785-8810	SC	280	252	28	0	IM	SAFETY	AT 12TH AVE.S.& AT PORT.AVE.-REM./REPL.SIGS @ RAMP TERMINALS	0	MNDOT	A-18	
1995	1625	I-494		2785-8811	SC	280	252	28	0	IM	SAFETY	AT NIC.AVE. & AT LYN.AVE.-REM./REPL. SIGS.@ RAMP TERMINALS	0	MNDOT	A-18	
1995	1626	I-494		2785-8812	SC	140	126	14	0	IM	SAFETY	AT E.BUSH LAKE ROAD - NEW SIGNALS AT RAMP TERMINALS	0	MNDOT	T-2	
1995	1627	I-494		2785-9137	BI	1,300	1,170	130	0	IM	PRESERVATION	AT TH 169 - REDECK BRS. 9137,9138,27568	0	MNDOT	A-13	
1995	1629	I-694		6285-9196	BI	1,075	968	108	0	IM	PRESERVATION	UNDER 5TH ST NW,TH 51 RAMPS,OVER BN RR,UNDER LABORE RD,MCKNIGHT,TH 120,HARVESTER, & 4TH ST-MILL & OVERLAY BRS. 9389,94	0	MNDOT	A-13	

Table 3-L INTERSTATE MAINTENANCE PROJECTS

11-24-1993

Year	STIP Seq	Route	Prt	Project Number	Prg	Total \$	Fed \$ (000's)	State \$ (000's)	Local \$ (000's)	Possible Funds	Category	Description	MI	Agency	A.Q. Excl.	Sunset
1996	1669	I-35		0283-20	RS	1,536	1,382	154	0	IM	PRESERVATION	N JCT I35E & I35W TO TH 8-MILL & OVERLAY	4.78	MNDOT	A-12	
1996	1673	I-35W		1981-9779	BI	720	648	72	0	IM	PRESERVATION	UNDER TH13 -REPL.DECK,WIDEN & PAINT BRS.W.B.9779 & E.B.9780	0	MNDOT	A-13	
1996	1674	I-35W		2782-255A	RC	10,000	9,000	1,000	0	IM	REPLACE	TH 494 TO MPLS.-INTERIM HOV LANES (STRUCTURES)	0	MNDOT	NO	
1996	1675	I-35W		2782-255B	RC	20,000	18,000	2,000	0	IM	REPLACE	TH 494 TO MPLS.-INTERIM HOV LANES (GRADING & SURFACING)	0	MNDOT	NO	
1996	1676	I-35W		6284-117	RS	480	432	48	0	IM	PRESERVATION	1.0 MI S OF TO 0.2 MI N OF I694-MILL & OVERLAY	1.2	MNDOT	A-12	
1996	1694	I-94		2781-8801	RS	1,300	1,170	130	0	IM	PRESERVATION	TH694 TO 0.5 MI.N.OF LOWRY TUNNEL-MINOR CONC.REPAIR & RESEAL JOINTS	8	MNDOT	A-12	
1996	1697	I-94		2786-88	BI	844	760	84	0	IM	PRESERVATION	UND.TH169 (OLD CSAH 18)-WIDEN & REPLACE DECKS BRS.27979 & 27980, SIGNING & LIGHTING	0	MNDOT	A-13	
1996	1698	I-94		2786-93	RC	10,000	9,000	1,000	0	IM	REPLACE	TH494 TO CSAH 152(BROOK.CENT.)-GRADE,SURF,BRS.,SIGN., LIGHT,SIGNALS (3RD LANE) - STAGE 1	6.2	MNDOT	A12	
1996	1699	I-94		2786-99	RS	575	518	58	0	IM	PRESERVATION	0.7 M.I.E. OF I 494 TO 0.2 MI.W. OF CSAH 81 (LAKELAND AVE.)-MILL & OVERLAY	2.71	MNDOT	A-12	
1996	1701	I-94	8	8282-82	BR	4,500	4,050	450	0	IM	REPLACE	ST CROIX RIVER BR. EB APPROACH/WB REDECK	0	MNDOT	NO	
1996	1723	I-694		6285-881	BR	1,200	1,080	120	0	IM	REPLACE	VICTORIA ST INTERCHANGE-BR REPLACEMENT(PAYBACK TO RAMSEY COUNTY)	0	MNDOT	A-13	

Twin Cities Metropolitan Area
1994-1996 Transportation Improvement Program
Table 3-M NATIONAL HIGHWAY SYSTEM PROJECTS

11-24-1993

Year	STIP Seq	Route	Prt	Project Number	Prg	Total \$ (000's)	Fed \$ (000's)	State \$ (000's)	Local \$ (000's)	Possible Funds	Category	Description	MI	Agency	A.Q. Excl.	Sunset
1994	1333	TH 3	1	1928-35	MC	7,400	5,644	1,756	0	NH, SF	EXPANSION	TH 52 & TH 55 TO CSAH 28-GRADING & SURFACING	1	MNDOT	GR	
1994	1334	TH 3	1	1928-40	MC	90	90	0	0	NH	EXPANSION	CSAH 28 TO TH 52 & TH 55-LIGHTING	0	MNDOT	A-20	
1994	1335	TH 3	1	1928-41	MC	185	185	0	0	NH	EXPANSION	CSAH 28 TO TH 52 & TH 55-SIGNING	0	MNDOT	A-18	
1994	1336	TH 3	1	1928-42	MC	266	213	53	0	NH	EXPANSION	75TH ST TO 0.3 MI S OF CSAH 18-LANDSCAPING	1.5	MNDOT	F-4	
1994	1385	TH 36		6212-138	RS	1,640	1,312	328	0	NH	PRESERVATION	I35W TO 0.2 MI E OF EDGERTON-BITUMINOUS OVERLAY	6	MNDOT	A-12	
1994	1417	TH 55	5	1909-19089	MC	689	551	138	0	NH	EXPANSION	WB TH 55 OVER EB TH 110-BR 19089 (JULY AWARD)	0	MNDOT	NO	
1994	1418	TH 55	5	1909-19090	MC	600	480	120	0	NH	EXPANSION	CSAH 31 OVER TH 55-BR 19090 (JULY AWARD)	0	MNDOT	NO	
1994	1419	TH 55	5	1909-65	MC	15,966	11,347	2,851	1,768	NH, EN	EXPANSION	AT INTERSECTION OF TH'S 13,55,110-MENDOTA INTERCHANGE & BIKETRAIL ENHANCEMENT (JULY AWARD)	5.2	MNDOT	NO	
1994	1420	TH 55	5	1909-71	RC	500	500	0	0	NH	REPLACE	MENDOTA INTERCHANGE-SIGNING	0	MNDOT	A-13	
1994	1435	TH 62		2774-2	SC	1,400	1,120	280	0	NH	SAFETY	BTWN.T.H.121 & PENN-INTERCHANGE MOD.,TEMP.BR.99147, CD RD. FOR ACCESS TO W.B.TH 62	0	MNDOT	A-13	
1994	1453	TH 100		2735-158	MC	190	152	38	0	NH	EXPANSION	MTKA.BLVD.TO GLENWOOD AVE.--LANDSCAPING	1.3	MNDOT	F-4	
1994	1462	TH 101	10	2738-27019	MC	616	493	123	0	NH	EXPANSION	TH 101 S.B. OVER CROW RIVER-CONSTRUCT BR. 27019	0	MNDOT	NO	
1994	1464	TH 101	10	8608-13	MC	424	339	85	0	NH	EXPANSION	AT CROW R. & AT MISS.R. - BR APPROACH GRADING	0	MNDOT	NO	
1994	1465	TH 101	10	8608-14	MC	1,400	1,120	280	0	NH	EXPANSION	AT TH 10 IN ELK RIVER - GR. & SURF. INTERCHANGE, SIGN,LIGHT,SIGNAL	0	MNDOT	NO	
1994	1466	TH 101	10	8608-15	MC	2,600	2,080	520	0	NH	EXPANSION	CSAH 42 TO MISS.R. IN OTSEGO-G&S,SIGN,LIGHT,SIG.	1.75	MNDOT	NO	
1994	1468	TH 101		8608-71002	MC	300	240	60	0	NH	EXPANSION	TH 101 NB OVER TH 10 - WIDEN BR. 71002	0	MNDOT	NO	
1994	1469	TH 101	10	8608-86005	MC	2,811	2,249	562	0	NH	EXPANSION	TH 101 S.B. OVER MISS.RIVER-CONSTRUCT BR. 86005	0	MNDOT	NO	
1994	1476	TH 212		1013-58	RD	2,500	2,000	500	0	NH	PRESERVATION	1.2 MI W TH 284 (COLOGNE BYPASS) TO 2.2 MI E TH 284-RECONDITION	3.36	MNDOT	A-12	
1994	1477	TH 212		1013-60	RS	911	729	182	0	NH	PRESERVATION	FROM 2.2 MI E OF TH 284 TO 0.4 MI W OF TH 41-MILL & OVERLAY	6.76	MNDOT	A-12	
1994	1479	TH 212		1013-8802	AM	240	192	48	0	NH	OTHER	AT CSAH 15 - INTERSECTION RELOCATION & SIGNAL	0	MNDOT	T-2	
1994	1481	TH 212		2762-15	MC	375	300	75	0	NH	EXPANSION	ON TECHNOLOGY DRIVE FROM WALLACE RD. TO 0.4 MI.E.-GRADE & SURFACE	0	MNDOT	NO	
1994	1493	I-394		2789-94	MC	345	276	69	0	NH	EXPANSION	G.M.BLVD. TO 0.3 MI.W. TH100-LANDSCAPING	1.9	MNDOT	F-4	
1994	1495	I-394		2789-96	MC	330	264	66	0	NH	EXPANSION	DUNWOODY BLVD TO WASHINGTON AVE (INCLUDES TAD AND AT BASILICA)-LANDSCAPING	1.4	MNDOT	F-4	
1995	1480	TH 212		2762-14	MC	2,000	1,380	345	275	NH, LF	OTHER	TECHNOLOGY DRIVE FROM PRAIRIE CENT.DR. TO 2000' W. OF PRAIRIE CENT.DR.-SURCHARGE--CITY LETTING	0	MNDOT	NO	
1995	1531	TH 5		6201-70	RS	500	400	100	0	NH	PRESERVATION	WHEELER AVE TO KELLOGG BLVD-MILL & OVERLAY	4.7	MNDOT	A-12	
1995	1536	TH		0202-73	RS	1,370	1,096	274	0	NH	PRESERVATION	E. OF FAIROAK TO 0.5 MI.S. OF TH 242 - MILL & OVERLAY	3.88	MNDOT	A-12	

Table 3-M NATIONAL HIGHWAY SYSTEM PROJECTS

11-24-1993

Year	STIP Seq	Route	Prt	Project Number	Prg	Total \$	Fed \$ (000's)	State \$ (000's)	Local \$ (000's)	Possible Funds	Category	Description	MI	Agency	A.Q. Excl.	Sunset
1995	1538	TH 12		2713-64	SC	1,050	840	210	0	NH	SAFETY	FROM MARTHA LANE TO OLD CRYSTAL BAY RD.-CONTINUOUS REGRADE, CHANNELIZE & SIGNAL	1.39	MNDOT	T-2	
1995	1560	TH 36		6212-62006	BI	390	312	78	0	NH	PRESERVATION	UNDER EDGERTON, ARCADE, VICTORIA, & HAMLINE AVES.-MILL & L.S. OVERLAY BRS. 62006, 62007, 62035, 62069	0	MNDOT	A-13	
1995	1571	TH 52		1905-24	RS	760	608	152	0	NH	PRESERVATION	CO RD 86 IN HAMPTON TO TH 50-MILL & OVERLAY	4.9	MNDOT	A-12	
1995	1587	TH 61		8205-96	RS	1,640	0	1,640	0	NH	PRESERVATION	CR 19 TO 12TH(NB) & 80TH ST TO 12TH ST(SB)-CONCRETE REHABILITATION	5.6	MNDOT	A-12	
1995	1609	TH 101	11	7005-53	MC	12,200	9,760	2,440	0	NH	EXPANSION	0.4 MI W OF CSAH 17 TO JCT OLD TH 101-GRADE & SURFACE	5.5	MNDOT	NO	
1995	1610	TH 101	11	7005-70008	MC	520	416	104	0	NH	EXPANSION	CR 18 OVER SHAK. BYPASS - BR #70008	0	MNDOT	NO	
1995	1611	TH 101	11	7005-70037	MC	600	480	120	0	NH	EXPANSION	EB SHAK. BYPASS OVER CSAH 16 - BR #70037	0	MNDOT	NO	
1995	1612	TH 101	11	7005-70038	MC	650	520	130	0	NH	EXPANSION	WB SHAK. BYPASS OVER CSAH 16 - BR #70038	0	MNDOT	NO	
1995	1616	TH 169	12	2750-42	MC	6,000	4,800	1,200	0	NH	EXPANSION	0.1MI.N.OF 93RD AVE.N TO 0.1MI.N.OF HAYDEN LK.RD.-STAGE 3	4	MNDOT	NO	
1996	1645	TH 3	1	1928-882	MC	300	240	60	0	NH	EXPANSION	75TH ST TO TH 52-LANDSCAPING	0	MNDOT	F-4	
1996	1648	TH 5		2732-40	RS	415	332	83	0	NH	PRESERVATION	1.7 MI. NE OF I 494 (NEAR POST RD.) TO W. OF JCT. TH 55 - MILL & OVERLAY	1.21	MNDOT	A-12	
1996	1649	TH 7		1004-22	RS	2,100	1,680	420	0	NH/STP	PRESERVATION	0.6 MI.E. OF E. LIM.OF ST.BONI TO 0.1 MI.E. OF TH 41-RECONDITION; AND SIGNAL AT TH 41	7.9	MNDOT	A-18	
1996	1653	TH 7		2706-186	RS	340	272	68	0	NH	PRESERVATION	0.2 MI.W. OF I 494 TO 0.1 MI.W. OF CSAH 61 (SHADY OAK RD.)-MILL & OVERLAY	1.25	MNDOT	A-12	
1996	1655	TH 10	2	0214-02027	MC	250	200	50	0	NH	EXPANSION	TH 610 WB OVER COON RAPIDS BLVD-BR.02027-(STAGE 2)	0	MNDOT	GR	
1996	1656	TH 10	2	0214-02031	MC	1,000	800	200	0	NH	EXPANSION	TH 10 UNDER EGRET BLVD - BR.02031 - (STAGE 2)	0	MNDOT	GR	
1996	1657	TH 10	2	0214-02033	MC	2,000	1,600	400	0	NH	EXPANSION	TH 10 UNDER CSAH 11 (FOLEY BLVD.)-BR.02033-(STAGE 2)	0	MNDOT	GR	
1996	1658	TH 10	2	0214-02034	MC	1,700	1,360	340	0	NH	EXPANSION	SE CSAH 11 (FOLEY BLVD.) RAMP OVER TH 47 SB-BR.02034-(STAGE 2)	0	MNDOT	GR	
1996	1659	TH 10	2	0214-02035	MC	4,000	3,200	800	0	NH	EXPANSION	TH 10 EB & WB OVER TH 47 NB - BR.02035-(STAGE 2)	0	MNDOT	GR	
1996	1660	TH 10	2	0214-11	MC	11,000	8,800	2,200	0	NH	EXPANSION	900' S.OF TH610 TO 2,200'N.W.OF EGRET BLVD.-- GRADE,SURFACE,SIGNALS,NOISE WALLS (STAGE 2)	2.2	MNDOT	GR	
1996	1661	TH 10	2	0214-16	MC	400	320	80	0	NH	EXPANSION	FROM 900'S. OF TH 610 TO 2200' NW OF EGRET BLVD.-SIGNING- (STAGE 2)	0	MNDOT	F-4	
1996	1662	TH 10	2	0214-17	MC	350	280	70	0	NH	EXPANSION	900'S. OF TH 610 TO 2200' NW OF EGRET BLVD.-LIGHTING- (STAGE 2)	0	MNDOT	A-20	
1996	1663	TH 10	2	0214-22	MC	225	180	45	0	NH	EXPANSION	0.5 MI.W. OF TH 35W TO 0.2 MI.E. OF TH 65	0	MNDOT	GR	
1996	1679	TH 52		1907-55	RS	785	628	157	0	NH	PRESERVATION	S JCT TO N JCT TH 52/55/56-CONCRETE REHABILITATION	3	MNDOT	A-12	
1996	1682	TH 55		1909-8801	MC	500	400	100	0	NH	EXPANSION	MENDOTA INTERCHANGE - LANDSCAPING	0	MNDOT	F-4	
1996	1683	TH 55		2723-96	RS	2,450	1,960	490	0	NH	PRESERVATION	I 494 TO THOMAS AVE. - MILL & OVERLAY	7.85	MNDOT	A-12	
1996	1688	TH 62		2763-27085	BI	1,400	1,120	280	0	NH	PRESERVATION	OVER MN&S R/R-0.6MI. W. OF TH 100-REPL. DECK BR.S 27085 & 27086	0	MNDOT	A-13	
1996	1706	TH 101	11	7005-57	MC	6,000	4,800	1,200	0	NH	EXPANSION	TH169 TO 0.4 MI.W.OF CSAH 17-GRADE, SURFACE, SIGNAL	2.6	MNDOT	NO	
1996	1707	TH 101	11	7005-67	MC	200	160	40	0	NH	EXPANSION	SHAKOPEE BYPASS, TH 169 TO TH 13--LIGHTING	9	MNDOT	A-20	

Table 3-M NATIONAL HIGHWAY SYSTEM PROJECTS

11-24-1993

Year	STIP Seq	Route	Prt	Project Number	Prg	Total \$	Fed \$ (000's)	State \$ (000's)	Local \$ (000's)	Possible Funds	Category	Description	MI	Agency	A.Q. Excl.	Sunset
1996	1708	TH 101	11	7005-68	MC	300	240	60	0	NH	EXPANSION	SHAKOPEE BYPASS TH 169 TO JCT. OLD TH 101 - FENCING	8	MNDOT	A-15	
1996	1709	TH 101	11	7005-69	MC	300	240	60	0	NH	EXPANSION	SHAKOPEE BYPASS, TH 169 TO TH 13 - SIGNING	9	MNDOT	F-4	
1996	1710	TH 101	11	7005-70011	MC	1,380	1,104	276	0	NH	EXPANSION	CSAH 15 OVER SHAK.BYPASS - BR.70011	0	MNDOT	NO	
1996	1711	TH 101	11	7005-70012	MC	500	400	100	0	NH	EXPANSION	CO.RD.77 OVER SHAK.BYPASS - BR.70012	0	MNDOT	NO	
1996	1712	TH 101	11	7005-70013	MC	500	400	100	0	NH	EXPANSION	CO.RD.79 OVER SHAK.BYPASS - BR.70013	0	MNDOT	NO	
1996	1719	TH 212		1013-63	SC	375	300	75	0	NH	SAFETY	AT TH 101 - SIGNAL & CHANNELIZATION	0	MNDOT	T-2	
1996	1726	TH 999		8809-8801	MC	1,000	800	200	0	NH	EXPANSION	HOV RAMPS & METERS-LOCATIONS TO BE DETERMINED	0	MNDOT	T-2	

Twin Cities Metropolitan Area
1994-1996 Transportation Improvement Program
Table 3-N STP-ANY AREA PROJECTS

11-24-1993

Year	STIP Seq	Route	Prt	Project Number	Prg	Total \$ (000's)	Fed \$ (000's)	State \$ (000's)	Local \$ (000's)	Possible Funds	Category	Description	MI	Agency	A.Q. Excl.	Sunset
1994	1338	TH 5		6201-65	RS	575	460	115	0	STP	PRESERVATION	KELLOGG BLVD TO MINNEHAHA AVE IN ST PAUL-MILL & OVERLAY	2.2	MNDOT	A-12	
1994	1432	TH 61		6222-122	RD	2,500	2,000	500	0	STP	PRESERVATION	N JCT TH 96 TO N JCT TH 97-BITUMINOUS OVERLAY, TURN LANES, RR X-OVER, ETC	11.8	MNDOT	A-12	
1994	1449	TH 96		6224-50	RS	747	598	149	0	STP	PRESERVATION	CSAH 77(OLD TH 8) TO 2000' E OF JCT TH 49-MILL & OVERLAY	2.8	MNDOT	A-12	
1995	1529	TH 3		1921-60	SC	250	200	50	0	STP	SAFETY	AT CSAH 32(CLIFF RD)-TRAFFIC SIGNAL & PAINTED CHANNELIZATION	0	MNDOT	T-2	
1995	1566	TH 49		0204-13	RS	590	472	118	0	STP	PRESERVATION	TH 96 TO THE CORRECTIONAL FACILITY-MILL & OVERLAY	8.6	MNDOT	A-12	
1995	1568	TH 50		1904-14	RD	400	320	80	0	STP	PRESERVATION	E OF VERMILLION RIVER TO HAMPTON-MILL, WIDEN, & OVERLAY	3.3	MNDOT	A-12	
1995	1586	TH 56		1912-51	SC	150	120	30	0	STP	SAFETY	FROM I494 S RAMP TO WENTWORTH AVE-SIGNAL REVISIONS & INTERCONNECT	1.7	MNDOT	A-18	
1995	1613	TH 149		1916-19	SC	100	80	20	0	STP	SAFETY	AT YANKEE DOODLE ROAD-INSTALL TRAFFIC SIGNAL	0	MNDOT	T-2	
1995	1620	TH 242		0212-36	RS	570	456	114	0	STP	PRESERVATION	W. RAMPS TH 10 TO 0.3 MI.W. OF UNIVERSITY - MILL & OVERLAY	3.4	MNDOT	A-12	
1996	1528	TH 3		1921-57	SC	485	388	97	0	STP	SAFETY	AT CSAH 71(RICH VALLEY BLVD)-RECONSTRUCT CURVE, REALIGN INTERSECTION	.4	MNDOT	A-10	
1996	1644	TH 3		1920-29	RD	2,455	1,560	895	0	STP, S	PRESERVATION	RICE-DAKOTA CO LINE TO 1.3 MI N OF N JCT TH 50 IN FARMINGTON-MILL & OVERLAY; EXTEND CULVERTS 3913,3914,8454,8455,8456,	13.3	MNDOT	A-12	
1996	1646	TH 5		1002-57	MC	200	160	40	0	STP	EXPANSION	CSAH 17 TO CSAH 4 IN CHAN. & EDEN P.-LANDSCAPING	0	MNDOT	A-20	
1996	1652	TH 7		2706-185	RS	400	320	80	0	STP	PRESERVATION	0.4 MI.W. TO 0.5 MI.E. OF TH 169 - MILL & OVERLAY	.88	MNDOT	A-12	
1996	1702	TH 95		1305-19	RS	635	508	127	0	STP	PRESERVATION	W JCT TH 8 TO 0.2 MI N OF TH 97-MILL & OVERLAY	10.2	MNDOT	A-12	
1996	1704	TH 101		1010-8	RS	330	264	66	0	STP	PRESERVATION	0.3 MI.W. OF TH 5 TO 0.4 MI.S. OF TH 7 - MILL & OVERLAY	3.78	MNDOT	A-12	

Twin Cities Metropolitan Area
1994-1996 Transportation Improvement Program
Table 3-O STP SAFETY PROJECTS

11-30-1993

Year	STIP Seq	Route	Prt	Project Number	Prg	Total \$ (000's)	Fed \$ (000's)	State \$ (000's)	Local \$ (000's)	Possible Funds	Category	Description	MI	Agency	A.Q. Excl.	Sunset
1994		RR		62-00162	SR	27	22	5	0	RRS	SAFETY	OTTER LAKE ROAD IN WHITE BEAR LAKE	0	MNDOT	A-1	
1994		RR		6222-125	SR	47	38	9	0	RRS	SAFETY	TH 61 IN WHITE BEAR LAKE	0	MNDOT	A-1	
1994	1287	CSAH 102		27-00212	SR	75	60	0	15	RRS	SAFETY	SOO RR AT CSAH 102 - CANTILEVERS	0	MNDOT RR	A-1	
1994	1325	RR		27-00210	SR	75	60	0	15	RRS	SAFETY	BN RR AT ZACHERY LANE - CANTILEVERS	0	MNDOT RR	A-1	
1994	1326	RR		27-00213	SR	67	54	0	13	RRS	SAFETY	MC RR AT BROADWAY ST NE - CANTILEVERS	0	MNDOT RR	A-1	
1994	1327	RR		62-00161	SR	134	107	0	27	RRS	SAFETY	SOO RR AT OTTO AVE IN ST PAUL - GATES	0	MNDOT RR	A-1	
1994	1328	RR		8809-62	SR	199	179	20	0	RRS	SAFETY	MINNESOTA COMMERCIAL RAILROAD (METRO) (JULY AWARD)	0	MNDOT	A-1	
1994	1329	RR		8809-88	SR	314	281	33	0	RRS, S	SAFETY	RAIL CROSSINGS METRO AREA - CNW RR	0	MNDOT	A-1	
1994	1330	RR		8809-90	SR	345	311	35	0	RRS	SAFETY	ST CLOUD TO COLD SPRING & TWIN CITIES TO MONTICELLO - BN RR(JULY AWARD)	88	MNDOT	A-1	
1994	1350	TH 7		2706-175	SH	480	384	48	48	STP	SAFETY	TH7 @ VINEHILL RD.- NEW SIGNAL AND CHANNELIZATION	0	MNDOT	T-2	
1994	1351	TH 7		2706-178	SH	460	368	92	0	STP	SAFETY	INTERCONNECT FROM SHADY OAK RD. TO LOUISIANA;REBUILD SIGS. AT 12TH AVE.,BLAKE RD., TEXAS AVE.,WILLISTON, 5TH ST. & TH 1	3.4	MNDOT	A-3	
1994	1354	TH 10		0202-67	SH	245	196	49	0	STP	SAFETY	AT THURSTON AVE IN ANOKA-REBUILD SIG. & CHANNEL.AND AT FAIROAK AVE.- REFURB.SIG.; FAIROAK TO CSAH 56-INTERCONNECT	0	MNDOT	A-3	
1994	1359	TH 13		1901-127	SH	200	160	40	0	STP	SAFETY	FROM CSAH 5 TO RAMP FROM SB TH 35W-NEW CONN. TO N.FR.RD.	0	MNDOT	A-3	
1994	1383	TH 36		6211-75	SH	470	470	0	0	STP	SAFETY	I35E TO MCKNIGHT RD-LIGHTING	4.2	MNDOT	A-20	
1994	1384	TH 36		6211-76	SH	270	270	0	0	STP	SAFETY	MCKNIGHT RD TO I694-LIGHTING	2.4	MNDOT	A-20	
1994	1386	TH 36		6212-140	SH	485	485	0	0	STP	SAFETY	HAMLIN AVE TO I35E-LIGHTING	3.3	MNDOT	A-20	
1994	1402	TH 51		6215-74	SH	437	349	87	0	STP	SAFETY	ON SNELLING AVE FROM TAYLOR AVE TO COMMONWEALTH AVE-INSTALL MEDIAN BARRIER	.9	MNDOT	A-11	
1994	1423	TH 55		2722-51	SH	135	108	14	13	STP	SAFETY	AT CSAH 50 - SIGNAL (JULY AWARD)	0	MNDOT	T-2	
1994	1472	TH 169		2750-46	SH	100	80	20	0	STP	SAFETY	AT 85TH AVE N - INSTALL TURN LANE & SIGNAL REVISION	0	MNDOT	A-3	
1994	1486	TH 252		2748-43	SH	250	200	50	0	STP	SAFETY	AT 85TH AVE N-NB DOUBLE LT TURN LN AND SB FREE RT TURN	0	MNDOT	A-3	
1994	1506	TH 999		8809-79	SH	120	96	24	0	STP	SAFETY	DISTRICTWIDE ADVANCE WARNING FLASHERS	0	MNDOT	F-4	
1995	1524	RR		8809-112	SR	300	240	60	0	RRS	SAFETY	BN RR METRO	0	MNDOT	A-1	
1995	1525	RR		8809-113	SR	25	20	5	0	RRS	SAFETY	MN TRANSPORTATION MUSEUM - STILLWATER AREA	0	MNDOT	A-1	
1995	1526	RR		8809-114	SR	875	700	175	0	RRS	SAFETY	SOO RR METRO	0	MNDOT	A-1	
1995	1527	RR		8809-63	SR	40	32	8	0	RRS	SAFETY	WC RR - WITHROW TO MARINE ON ST. CROIX, WITHROW TO WISCONSIN BORDER	23	MNDOT	A-1	
1995	1530	TH 5		1002-60	SH	120	96	24	0	STP	SAFETY	EDEN PRAIRIE RD. - PRAIRIE CENTER DR. (78TH ST.)-COORD. SIGNALS	0	MNDOT	A-3	
1995	1532	TH 7		2704-22	SR	175	140	35	0	RRS	SAFETY	IN MINNETRISTA, CANTILEVER AND RUBBER CROSSING	0	MNDOT	A-1	
1995	1534	T		2706-181	SH	150	120	30	0	STP	SAFETY	FROM TH41 THRU WILLISTON RD. - INTERCONNECT	6.1	MNDOT	A-3	

Table 3-O STP ETY PROJECTS

11-30-1993

Year	STIP Seq	Route	Prt	Project Number	Prg	Total \$	Fed \$ (000's)	State \$ (000's)	Local \$ (000's)	Possible Funds	Category	Description	MI	Agency	A.Q. Excl.	Sunset
1995	1537	TH 10		0203-8801	SH	50	40	10	0	STP	SAFETY	FROM W. RAMPS TH 47 TO ABLE - INTERCONNECT	0	MNDOT	A-3	
1995	1585	TH 56		1912-49	SH	90	72	18	0	STP	SAFETY	AT RICHMOND/DALE PLACE-REBUILD SIGNAL	0	MNDOT	A-3	
1995	1589	TH 65		0208-84	SH	400	320	80	0	STP	SAFETY	AT 85TH AVE NE- REVISE INTERSECTION & SIGNAL	0	MNDOT	T-2	
1995	1607	TH 100		2755-72	SH	140	112	28	0	STP	SAFETY	CSAH 10 RAMPS - REFURBISH 2 SIGNALS	0	MNDOT	A-3	
1996		CR B		HES-RAMSEY-1	SH	350	280	0	70	STP	SAFETY	CR B-HAMLINE AVE TO DALE ST - STRIPING AND SIGNAL MODIFICATIONS		RAMSEY COUNTY	A-3	
1996		CR C		HES-RAMSEY-2	SH	323	258	0	65	STP	SAFETY	CR C-HAMLINE AVE TO LITTLE CANADA RD - STRIPING AND SIGNAL MODIFICATIONS		RAMSEY COUNTY	A-3	
1996		CSAH 109		HES-HENN-8	SH	100	80	0	20	STP	SAFETY	CSAH 109 AT JEFFERSON HWY - REBUILD SIGNAL		HENNEPIN COUNTY	A-3	
1996		CSAH 130		HES-HENN-6	SH	600	480	0	120	STP	SAFETY	CSAH 130 (62ND AVE N) AT E JCT CSAH 152 - REBUILD SIGNAL AND CHANNELIZE		HENNEPIN COUNTY	A-3	
1996		CSAH 152		HES-HENN-3	SH	100	80	0	20	STP	SAFETY	CSAH 152 AT JOLLY LANE - NEW SIGNAL		HENNEPIN COUNTY	A-3	
1996		CSAH 16		HES-HENN-5	SH	100	80	0	20	STP	SAFETY	CSAH 16 AT LOUISIANA AVE S - REBUILD SIGNAL		HENNEPIN COUNTY	A-3	
1996		CSAH 17		HES-HENN-4	SH	100	80	0	20	STP	SAFETY	CSAH 17 AT 102ND ST. - REBUILD SIGNAL		HENNEPIN COUNTY	A-3	
1996		CSAH 3		HES-HENN-1	SH	520	416	0	104	STP	SAFETY	CSAH 3 - WOODALE TO FRANCE - REBUILD 4 SIGNALS W/COORDINATION		HENNEPIN COUNTY	A-3	
1996		CSAH 5		HES-HENN-7	SH	100	80	0	20	STP	SAFETY	CSAH 5 AT LOUISIANA AVE S - REBUILD SIGNAL		HENNEPIN COUNTY	A-3	
1996		CSAH 81		HES-HENN-2	SH	100	80	0	20	STP	SAFETY	CSAH 81 AT CSAH 130/CSAH 152 - REBUILD SIGNAL		HENNEPIN COUNTY	A-3	
1996	1647	TH 5		1002-62	SH	100	80	20	0	STP	SAFETY	AT TH 284 - SIGNAL REVISION	0	MNDOT	A-3	
1996	1651	TH 7		2706-164	SH	950	760	190	0	STP	SAFETY	CHRISTMAS LK.RD.- REVISE INTERSECTION & SIGNAL	0	MNDOT	A-3	
1996	1654	TH 10		0202-74	SH	90	72	18	0	STP	SAFETY	AT ARMSTRONG BLVD - SIGNAL INSTALLATION	0	MNDOT	A-3	
1996	1665	TH 10		0215-48	SH	160	128	32	0	STP	SAFETY	AT HANSON BLVD. RAMPS - SIGNAL REVISION	0	MNDOT	A-3	
1996	1677	TH 41		1008-48	SH	100	80	20	0	STP	SAFETY	AT TH 212 - TURN LANE AND SIGNAL REVISIONS	0	MNDOT	A-3	
1996	1692	TH 65		0207-63	SH	255	204	51	0	STP	SAFETY	W MOORE LK DR TO TH 118 - SKID CORRECTION	1.45	MNDOT	A-3	
1996	1715	TH 169		2744-49	SH	400	320	80	0	STP	SAFETY	EDEN PRAIRIE RD. TO CSAH 4 - NB AUX. LANE	.25	MNDOT	A-3	
1996	1717	TH 169		2772-17	SH	100	80	20	0	STP	SAFETY	63RD AVE.N. TO RAMP TO EB I 94 - NB AUX.LA.	.7	MNDOT	A-3	

Twin Cities Metropolitan Area
1994-1996 Transportation Improvement Program
Table 3-P 100% STATE FUNDED PROJECTS

11-30-1993

Year	STIP Seq	Route	Prt	Project Number	Prg	Total \$ (000's)	Fed \$ (000's)	State \$ (000's)	Local \$ (000's)	Possible Funds	Category	Description	MI	Agency	A.Q. Excl.	Sunset
1994		TH 61		8206	SC	70	0	70	0	SF	SAFETY	AT CSAH 8 IN HUGO - TEMPORARY SIGNAL	0	MNDOT	A-8	
1994	1297	DA		8809-115	RS	82	0	82	0	SF	PRESERVATION	IN SOUTHEAST PORTION OF METRO AREA-PEDESTRIAN CURB RAMPS(JULY AWARD)	0	MNDOT	D-3	
1994	1298	DA		8809-116	RS	80	0	80	0	SF	PRESERVATION	SOUTHEAST PORTIONS OF METRO DIVISION-PEDESTRIAN CURB RAMPS (JULY AWARD)	0	MNDOT	D-3	
1994	1299	DA		8809-117	RS	116	0	116	0	SF	PRESERVATION	NORTHEASTERN PORTION OF METRO DIVISION-PEDESTRIAN CURB RAMPS	0	MNDOT	D-3	
1994	1300	DA		8809-118	RS	119	0	119	0	SF	PRESERVATION	IN HENNEPIN COUNTY-PEDESTRIAN CURB RAMPS	0	MNDOT	D-3	
1994	1301	DA		8809-119	RS	71	0	71	0	SF	PRESERVATION	IN CARVER AND SCOTT COUNTIES-PEDESTRIAN CURB RAMPS	0	MNDOT	D-3	
1994	1331	TH 3		1921-58	RS	458	0	458	0	SF	PRESERVATION	CONNEMARA TRAIL TO JCT TH 149-MILL & OVERLAY, TURN LANES, GUARDRAIL	4.5	MNDOT	A-12	
1994	1332	TH 3		1921-61	AM	382	0	382	0	SF	OTHER	CONNEMARA TRAIL TO CAMBRIAN AVE-RECONSTRUCTION, MILL AND OVERLAY (AGREEMENT #70971)	1.2	MNDOT	F-4	
1994	1337	TH 5		6201-64	AM	850	0	850	0	SF	OTHER	EDGECUMBE/BAYARD-SEWER SEPARATION (AGREEMENT # 68180)	0	MNDOT	F-4	
1994	1339	TH 5		6201-67	AM	290	0	290	0	SF	OTHER	PALACE/TORONTO-7TH, WATSON/JEFFERSON N. SEWER SEPARATION	0	MNDOT	F-4	
1994	1340	TH 5		6201-68	AM	160	0	160	0	SF	OTHER	EDGECUMBE/ST. DENNIS-SEWER SEPARATION	0	MNDOT	F-4	
1994	1341	TH 5		6201-69	AM	402	0	402	0	SF	OTHER	MAY STREET TO TUSKARARA AVE. (SEWER SEPARATION).	0	MNDOT	F-4	
1994	1342	TH 5		6201-882	AM	15	0	15	0	SF	OTHER	DAVERN OUTLET-SEWER SEPARATION	0	MNDOT	F-4	
1994	1343	TH 5		6201-886	AM	400	0	400	0	SF	OTHER	MAYNARD/STEWART-SEWER SEPARATION	0	MNDOT	F-4	
1994	1344	TH 5		6201-888	AM	85	0	85	0	SF	OTHER	EDGECUMBE/BAY-SEWER SEPARATION	0	MNDOT	F-4	
1994	1346	TH 5		6218-881	AM	735	0	735	0	SF	OTHER	TROUT BROOK PHASE B-SEWER SEPARATION	0	MNDOT	F-4	
1994	1347	TH 5		6229-881	AM	70	0	70	0	SF	OTHER	AT KENNARD/BEACH-SEWER SEPARATION	0	MNDOT	F-4	
1994	1348	TH 5		6229-882	AM	24	0	24	0	SF	OTHER	MINNEHAHA/WHITE BEAR-SEWER SEPARATION	0	MNDOT	F-4	
1994	1349	TH 7		2704-20	AM	350	0	350	0	SF	OTHER	AT CSAH 44 - INTERSECTION REALIGNMENT	0	MNDOT	A-10	
1994	1352	TH 8		1301-73	SC	100	0	67	33	SF, LF	SAFETY	AT TH 95-TRAFFIC SIGNAL INSTALLATION	0	MNDOT	F-4	
1994	1353	TH 8		1301-77	AM	4	0	4	0	SF	OTHER	WORK PERFORMED BY WYOMING TOWNSHIP	0	MNDOT	A-12	
1994	1355	TH 10		0215-44	SC	50	0	50	0	SF	SAFETY	TH 969 (MAIN ST) TO S. JCT TH 47 - GUARDRAIL	8.9	MNDOT	A-11	
1994	1356	TH 10		6204-8801	SC	89	71	18	0	WTHR	SAFETY	TH 65 TO TH 694--ALL WEATHER PAVEMENT MARKING STUDY.	5.1	MNDOT	A-18	
1994	1357	TH 12		2714-133	TM	102	0	102	0	SF	SAFETY	AT CO. RD. 15 IN WAYZATA-RAMP METER BYPASS TO E.B. TH 12	0	MNDOT	A-18	
1994	1358	TH 12		2714-134	AM	240	0	240	0	SF	OTHER	GLEASON CREEK AREA-DRAINAGE	0	MNDOT	F-4	
1994	1360	TH 13		7001-71	AM	160	0	160	0	SF	OTHER	LYNN TO GLENHURST (S. SIDE) - FR. RD. DETACHMENT	0	MNDOT	A-11	
1994	1361	I-35		1380-55	RB	25	0	25	0	SF	OTHER	AT THE INTERCHANGE WITH TH 361 IN RUSH CITY-LANDSCAPING	0	MNDOT	F-4	
1994	1362	I-35		1980-882	AM	100	0	100	0	SF	OTHER	BUCKHILL/CRYSTAL LAKE RD-TRAFFIC SIGNAL INSTALLATIONS	0	MNDOT	T-2	

Table 3-P 100% ST/ FUNDED PROJECTS

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Year	STIP Seq	Route	Prt	Project Number	Prg	Total \$	Fed \$ (000's)	State \$ (000's)	Local \$ (000's)	Possible Funds	Category	Description	MI	Agency	A.Q. Excl.	Sunset
1994	1363	I-35		8280-881	AM	100	0	100	0	SF	OTHER	AT CSAH 2 IN FOREST LAKE-TRAFFIC SIGNAL INSTALLATION AT RAMP TERMINI	0	MNDOT	T-2	
1994	1364	I-35E		0282-02803	BI	90	0	90	0	SF	PRESERVATION	UNDER CSAH 14 IN LINO LAKES-OVERLAY B4 02803	0	MNDOT	A-12	
1994	1366	I-35E		6280-289	AM	858	0	858	0	SF	OTHER	I35E/UNIVERSITY-SEWER SEPARATION	0	MNDOT	F-4	
1994	1367	I-35E		6280-290	AM	75	0	75	0	SF	OTHER	I35E RAMPS AT SHEPARD ROAD IN ST PAUL-OVERLAY	.2	MNDOT	A-12	
1994	1368	I-35E		6280-886	AM	980	0	980	0	SF	OTHER	TROUT BROOK PHASE A-SEWER SEPARATION	0	MNDOT	A-11	
1994	1369	I-35E		6280-890	AM	25	0	25	0	SF	OTHER	GRAND/ST ALBANS-SEWER SEPARATION	0	MNDOT	F-4	
1994	1370	I-35E		6281-62834	BI	170	0	170	0	SF	PRESERVATION	UNDER TH 96 IN WHITE BEAR LAKE-OVERLAY BR 62834	0	MNDOT	A-12	
1994	1377	I-35W		1981-91	SC	414	0	368	46	SF, LF	SAFETY	I35W UNDER BURNSVILLE PARKWAY-SIGNAL REVISIONS, TURN LANES, OVERLAY BR 19863 (JULY AWARD)	0	MNDOT	T-2	
1994	1387	TH 36		6212-882	AM	100	0	100	0	SF	OTHER	TH 36/49 VIKING DRIVE-FR RD IMPROVEMENTS	0	MNDOT	A-8	
1994	1388	TH 36		8204-42	SC	250	0	250	0	SF	SAFETY	AT HILTON TRAIL & AT MANNING AVE-TRAFFIC SIGNAL INSTALLATION & TURN LANE EXTENSIONS	0	MNDOT	T-2	
1994	1389	TH 36		8214-8801	SC	30	0	30	0	SF	SAFETY	AT WASHINGTON ST. IN STILLWATER-SIGNAL REVISION	0	MNDOT	A-18	
1994	1390	TH 41		1008-8807	AM	35	0	35	0	SF	OTHER	AT CO.RD. 18 - TEMP. SIGNAL INSTALLATION	0	MNDOT	A-12	
1994	1391	TH 47		0205-454A	RX	17	0	17	0	SF	PRESERVATION	35TH AVE. TO 53RD AVE. N.E. - BIT. CRACK SEAL. (CAT-3, FY 94). (JULY AWARD)	2.3	MNDOT	A-12	
1994	1392	TH 47		0205-67	RS	267	0	267	0	SF	PRESERVATION	FROM 0.1 MI S OF 73RD AVE TO N OF 79TH AVE IN FRIDLEY-MILL & OVERLAY	.86	MNDOT	A-12	
1994	1394	TH 49		6213-38	RS	367	0	367	0	SF	PRESERVATION	UNIVERSITY AVE(TH 52) TO HOYT AVE-MILL & OVERLAY	2.2	MNDOT	A-12	
1994	1395	TH 49		6213-40	AM	179	0	179	0	SF	OTHER	ACKER TO JESSAMINE. (SEWER SEPARATION)	0	MNDOT	F-4	
1994	1396	TH 49		6213-881	AM	60	0	60	0	SF	OTHER	SYLVAN/ACKER-SEWER SEPARATION	0	MNDOT	F-4	
1994	1397	TH 49		6213-884	AM	140	0	140	0	SF	OTHER	AT ALBEMARLE/NEBRASKA-SEWER SEPARATION	0	MNDOT	F-4	
1994	1398	TH 49		6214-454	RX	224	37	187	0	SF, DE	PRESERVATION	MARIE ST TO TH 96-MILL AND OVERLAY. (CAT-1, FY 94)	2.2	MNDOT	A-12	
1994	1399	TH 49		6214-881	AM	120	0	120	0	SF	OTHER	AT TH 96-FR RD IMPROVEMENTS	0	MNDOT	A-8	
1994	1400	TH 50		1904-454	RX	14	0	14	0	SF	PRESERVATION	ON TH 50 FROM 2.1 MI E OF TH 3 TO 2.1 MI W OF VERMILLION RIVER AND ON BUCK HILL RD FROM CRYSTAL LAKE RD TO CSAH 42-BIT	3.14	MNDOT	A-12	
1994	1401	TH 50		1914-41	AM	50	0	50	0	SF, LF	OTHER	AT CSAH 9 IN LAKEVILLE-TRAFFIC SIGNAL INSTALLATION	0	MNDOT	T-2	
1994	1403	TH 51		6215-76	RS	409	0	409	0	SF	PRESERVATION	MONTREAL AVE TO DAYTON AVE-MILL & OVERLAY	2.3	MNDOT	A-12	
1994	1404	TH 51		6215-77	AM	45	0	45	0	SF	OTHER	SYNDICATE/FAIRMONT-SEWER SEPARATION	0	MNDOT	F-4	
1994	1405	TH 51		6215-78	AM	116	0	116	0	SF	OTHER	AT PORTLAND/ALDINE-SEWER SEPARATION	0	MNDOT	F-4	
1994	1406	TH 51		6215-79	AM	0	0	0	0	SF	OTHER	CLEVELAND/PORTLAND-SEWER SEPARATION	0	MNDOT	F-4	
1994	1407	TH 51		6215-900	AM	240	0	240	0	SF	OTHER	ALBERT/ELEANOR-SEWER SEPARATION	0	MNDOT	F-4	
1994	1408	TH 52		1907-53	MC	2,000	0	2,000	0	SF	OTHER	AT CAHILL RD IN INVER GROVE HTS-CONSTRUCT INTERCHANGE, BR, ETC	.5	MNDOT	A-13	
1994	1410	TH 52		6208-32	AM	120	0	60	60	SF, LF	OTHER	ON UNIVERSITY AVE FROM PARK ST TO VICTORIA ST IN ST PAUL-SIGNAL REVISIONS	0	MNDOT	A-12	

Table 3-P 100% STATE FUNDED PROJECTS

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Year	STIP Seq	Route	Prt	Project Number	Prg	Total \$	Fed \$ (000's)	State \$ (000's)	Local \$ (000's)	Possible Funds	Category	Description	MI	Agency	A.Q. Excl.	Sunset
1994	1411	TH 52		6208-881	AM	75	0	75	0	SF	OTHER	UNIVERSITY/MISSISSIPPI-SEWER SEPARATION	0	MNDOT	F-4	
1994	1412	TH 52		6208-882	AM	140	0	140	0	SF	OTHER	EUSTIS/PRIOR-TRAFFIC SIGNAL REVISIONS	0	MNDOT	F-4	
1994	1413	TH 52		6208-900	AM	200	0	200	0	SF	OTHER	HAMPDEN/UNIVERSITY-SEWER SEPARATION	0	MNDOT	F-4	
1994	1414	TH 52		6217-883	AM	201	0	201	0	SF	OTHER	STARKEY/PLATO-SEWER SEPARATION	0	MNDOT	F-4	
1994	1415	TH 52		6217-885	AM	210	0	210	0	SF	OTHER	AT CONCORD/CONGRESS-SEWER SEPARATION	0	MNDOT	F-4	
1994	1422	TH 55		2722-454A	RX	100	0	100	0	SF	PRESERVATION	ROCKFORD TO FERNBROOK LANE - REPAIR CULVERTS & SEWERS. (CAT-1)	14.9	MNDOT	F-4	
1994	1424	TH 55		2723-8805	AM	50	0	50	0	SF	OTHER	AT CSAH 24 - SIGNAL INSTALLATION	0	MNDOT	T-2	
1994	1427	TH 55		2751-47	RS	175	0	175	0	SF	PRESERVATION	DUPONT AVE. TO 7TH ST. - MILL & OVERLAY	.44	MNDOT	A-12	
1994	1429	TH 55		8607-46	AM	173	0	173	0	SF	OTHER	AT AUTUMN OAKS DRIVE - INTERSECTION IMPROVEMENT	0	MNDOT	T-2	
1994	1430	TH 56		1912-454	RX	121	0	121	0	SF	PRESERVATION	COURTHOUSE BLVD TO 66TH ST-MILL AND OVERLAY.(CAT-1 FY 94). (JULY AWARD)	3.1	MNDOT	A-12	
1994	1431	TH 56		6219-05	AM	253	0	253	0	SF	OTHER	ON CONCORD ST. FROM GEORGE ST. TO STARKEY. (SEWER SEPARATION)	0	MNDOT	F-4	
1994	1433	TH 61		6222-124	RS	271	0	271	0	SF	PRESERVATION	800' S OF WHITE BEAR AVE TO N JCT TH 96-MILL & OVERLAY	1.9	MNDOT	A-12	
1994	1434	TH 61		6222-881	AM	120	0	120	0	SF	OTHER	SHADY TO 4TH-INTERSECTION/MEDIAN IMPROVEMENTS	0	MNDOT	A-11	
1994	1436	TH 65		0208-91	RS	1,238	0	1,238	0	SF	PRESERVATION	SB FROM 0.1 MI N OF ANDOVER BLVD TO 0.2 MI S OF CR 60 & NB FROM 0.1 MI S OF CR 61 TO N.OF 217TH AVE.NE-MILL & O'LAY	8.6	MNDOT	A-12	
1994	1437	TH 77		1929-881	AM	50	0	50	0	SF	OTHER	AT GALAXIE AVE-TRAFFIC SIGNAL INSTALLATION	0	MNDOT	T-2	
1994	1438	I-94		2780-8804	AM	50	0	50	0	SF	OTHER	AT WEAVER LK.RD. IN MAPLE GROVE - ADD SW TO BR. 27950	0	MNDOT	D-3	
1994	1442	I-94		2781-379	SC	46	0	46	0	SF	SAFETY	FROM LASALLE TO 11TH IN MPLS-SIGN LIGHTING (JULY AWARD)	0	MNDOT	A-18	
1994	1443	I-94		6282-885	AM	255	0	255	0	SF	OTHER	MARSHALL/HAMLIN-SEWER SEPARATION	0	MNDOT	F-4	
1994	1446	TH 95		1306-32	AM	650	0	650	0	SF, LF	OTHER	LINDEN ST TO 1ST ST IN TAYLORS FALLS-GRADING,SURFACING,SEWER,ETC	.4	MNDOT	A-12	
1994	1447	TH 95		8208-454	RX	220	18	201	0	SF, DE	PRESERVATION	194 TO AFTON-MILL AND OVERLAY. (CAT-1. FY 94)	3.7	MNDOT	A-12	
1994	1448	TH 95		8208-950	AM	15	0	15	0	SF	OTHER	ON TH 95 AT 15TH ST S IN LAKE ST CROIX BEACH-CHANNELIZATION	0	MNDOT	A-8	
1994	1450	TH 96		6224-51	RS	300	0	300	0	SF	PRESERVATION	135E TO 200' W OF HEDMAN WAY	.5	MNDOT	A-12	
1994	1452	TH 100		2734-8803	AM	140	0	140	0	SF	OTHER	AT EXCELSIOR BLVD. IN ST. LOUIS PK.-REBUILD 2 SIGNALS AT RAMP TERMINI-(CO TO LET)	0	MNDOT	A-18	
1994	1454	TH 100		2735-162	BR	250	0	250	0	SF	REPLACE	W.FR.RD. OVER C & NW RR - RECONSTRUCT BR. 90667 & OVERLAY FR RD.(JULY AWARD)	0	MNDOT	A-13	
1994	1455	TH 100		2735-163	TM	99	0	99	0	SF	SAFETY	AT MTKA. BLVD. IN ST.LOUIS PK.-RAMP METER BYPASS FROM MTKA.BLVD. TO N.B.TH 100	0	MNDOT	A-18	
1994	1456	TH 100		2735-8802	AM	80	0	80	0	SF	OTHER	DULUTH ST. TO RR BR. - FRONTAGE RD. IMPROVEMENTS	0	MNDOT	A-12	
1994	1457	TH 101		1009-454	RX	22	0	22	0	SF	PRESERVATION	0.7 M.I.S. OF TH 5 - CULVERT REPLACEMENT. (CAT-1)	0	MNDOT	A-13	
1994	1458	TH 101		2736-37	RS	407	0	407	0	SF	PRESERVATION	FROM 0.4 M.I.S. OF TH 7 TO 0.1 M.I.N. OF LK.ST.EXTENSION-MILL & OVERLAY	1.5	MNDOT	A-12	
1994	1459	TH		2736-38	SC	20	0	20	0	SF	SAFETY	AT MCGINTY RD. - INSTALL OVERHEAD FLASHER	0	MNDOT	A-18	

Table 3-P 100% ST/ FUNDED PROJECTS

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Year	STIP Seq	Route	Prt	Project Number	Prg	Total \$	Fed \$ (000's)	State \$ (000's)	Local \$ (000's)	Possible Funds	Category	Description	MI	Agency	A.Q. Excl.	Sunset
1994	1460	TH 101		2736-454b	RX	49	0	49	0	SF	PRESERVATION	AT GRAY'S BAY BR TO 150' NORTH - EROSION REPAIR. (CAT-1).	0	MNDOT	A-12	
1994	1461	TH 101		2736-454c	RX	52	0	52	0	SF	PRESERVATION	AT GRAY'S BAY BR TO 150' NORTH IN MINNETONKA- (CAT-1).	0	MNDOT	A-12	
1994	1463	TH 101		7005-62	MC	1,434	0	1,434	0	SF	OTHER	SHAK. BYPASS-UPPER V. DRAINAGE-STORM SEWER CONN.-STAGE III (CITY LET)	0	MNDOT	F-4	
1994	1467	TH 101		8608-16	AM	400	0	400	0	SF	OTHER	W.SIDE OF C.R. R6 TO 60TH CONST. FR.RD.	0	MNDOT	A-8	
1994	1470	TH 149		1917-30	AM	51	0	51	0	SF	OTHER	0.25 MI N OF N JCT TH 55 TO 1494-CHANNELIZE.ETC(AGREEMENT #71102)	.5	MNDOT	T-2	
1994	1473	TH 169		2772-12	TM	117	0	117	0	SF	SAFETY	AT 36TH AVE N IN PLYMOUTH-RAMP METER BYPASS FROM 36TH AVE TO SB TH 169	0	MNDOT	T-2	
1994	1474	TH 169		2772-14	SC	200	0	200	0	SF	SAFETY	AT BETTY CROCKER DR., AT CSAH 9 (ROCKFORD RD.) AND AT CSAH 10 (BASS LK.RD.)-MODIFY WEAVE AREAS	0	MNDOT	A-13	
1994	1475	TH 169		2772-8801	SC	100	0	100	0	SF	SAFETY	AT 77TH AVE N - 2 TEMP SIGNALS	0	MNDOT	A-18	
1994	1478	TH 212		1013-62	AM	85	0	85	0	SF	OTHER	AT CSAH 33 IN NORWOOD - NEW SIGNAL	0	MNDOT	T-2	
1994	1482	TH 212		6228-56	AM	51	0	51	0	SF	OTHER	CLEVELAND/PORTLAND-SEWER SEPARATION	0	MNDOT	F-4	
1994	1483	TH 212		6228-882	AM	45	0	45	0	SF	OTHER	AT MARSHALL/OTIS-SEWER SEPARATION	0	MNDOT	F-4	
1994	1484	TH 244		8219-454	RX	105	0	105	0	SF	PRESERVATION	CSAH 12 IN MAHTOMEDI TO TH 96-MILL AND OVERLAY. (CAT-1, FY 94) (JULY AWARD)	3.3	MNDOT	A-12	
1994	1485	TH 252		2748-40	SC	200	0	200	0	SF	SAFETY	FROM 73RD AVE N TO 1000' N OF BROOKDALE DR-EXTEND NB 3RD LN. AND DROP RIGHT	0	MNDOT	A-6	
1994	1487	TH 280		6241-881	AM	190	0	190	0	SF	OTHER	EUSTIS/FRANKLIN-SEWER SEPARATION	0	MNDOT	F-4	
1994	1488	TH 282		7011-16	AM	220	0	220	0	SF	OTHER	AT TH 169-CHANNELIZE ON TH 282	0	MNDOT	A-8	
1994	1489	TH 284		1014-8802	AM	30	0	30	0	SF	OTHER	TH 5 TO 10TH - DRAINAGE IMPROVEMENTS	0	MNDOT	F-4	
1994	1490	TH 291		1924-19010	BI	100	0	100	0	SF	PRESERVATION	OVER VERMILLION RIVER 0.6 MI E OF TH 61 IN HASTINGS-OVERLAY & SLOPE REPAIR ON BR 19010	0	MNDOT	A-12	
1994	1491	TH 316		1926-881	AM	3	0	3	0	SF	OTHER	AT CSAH 91-INTERSECTION REVISIONS	0	MNDOT	A-8	
1994	1492	I-394		2789-103	RS	110	0	110	0	SF	PRESERVATION	AT LOUISIANA AVE.(SE QUAD.)IN ST.LOUIS PARK-PARK & RIDE LOT	0	MNDOT	T-2	
1994	1496	I-494		2785-275	SC	160	0	160	0	SF	SAFETY	PENN AVE RAMPS - REBUILD 2 SIGNALS (JULY AWARD)	0	MNDOT	A-18	
1994	1497	I-494		2785-999	SC	65	0	65	0	SF	SAFETY	FRONTAGE RD- 24TH AVE TO CEDAR AVE & 24TH AVE TO 34TH AVE (PAVEMENT MARKINGS) (NEGOTIATED CONTRACT)	0	MNDOT	A-2	
1994	1498	I-694		8286-454	RX	107	0	107	0	SF	PRESERVATION	AT TH 5 IN OAKDALE-REPL WATERPROOF JTS ON BRS 82807,82808(CAT-1 FY 94)	0	MNDOT	A-12	
1994	1499	I-694		8286-49	RS	107	0	107	0	SF	PRESERVATION	ON TH 694 (FOUR LANES) 0.6 MI E OF TH 120	0	MNDOT	A-12	
1994	1500	I-694		8286-50	AM	70	0	70	0	SF	OTHER	UNDER 15TH ST IN OAKDALE-WIDEN, OVERLAY, ETC BR 82803	0	MNDOT	A-13	
1994	1501	I-694		8286-881	AM	100	0	100	0	SF	OTHER	AT CSAH 10 IN OAKDALE-TRAFFIC SIGNAL INSTALLATION	0	MNDOT	T-2	
1994	1502	TH 999		2700-881	AM	20	0	20	0	SF	OTHER	NATIONAL POLLUTION DISCHARGE ELIMINATION STUDY IN MINNEAPOLIS	0	MNDOT	F-1	
1994	1503	TH 999		8809-127	SC	149	0	149	0	SF	SAFETY	ON TH 62 FROM TH 169 TO TH 100; ON TH 77 FROM TH 62 TO 66TH ST; ON TH 100 FROM 1494 TO 36TH AVE; ON I35W FROM LAKE ST	0	MNDOT	A-18	
1994	1504	TH 999		8809-128	SC	110	0	110	0	SF	SAFETY	HIGH INTENSITY SIGN REPLACEMENT-CHISAGO COUNTY	0	MNDOT	F-4	
1994	1505	TH 999		8809-31	SC	447	0	447	0	SF	SAFETY	IN RAMSEY COUNTY-HIGH INTENSITY SIGN REPLACEMENT	0	MNDOT	F-4	

Table 3-P 100% STATE FUNDED PROJECTS

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Year	STIP Seq	Route	Prt	Project Number	Prg	Total \$	Fed \$ (000's)	State \$ (000's)	Local \$ (000's)	Possible Funds	Category	Description	MI	Agency	A.Q. Excl.	Sunset
1994	1508	TH 999		IVHS 94	TM	2,250	0	2,250	0	SF	SAFETY	STATE MATCH FOR IVHS PROJECTS NOT SHOWN IN METRO TIP	0	MNDOT	A-18	
1994	1509	TH 999		ROAD REPAI	RX	685	0	685	0	SF	PRESERVATION	METRO SET ASIDE FOR ROAD REPAIR FY 94	0	MNDOT	A-12	
1994	1664	TH 10		0215-45	RS	500	0	500	0	SF	PRESERVATION	0.2 MILE OF FOLEY BLVD. TO E. JCT. TH 47 - MILL & OVERLAY	1.01	MNDOT	A-12	
1995		TH 36		8214	AM	600	0	600	0	SF	OTHER	AT NORELL ROAD - FRONTAGE ROAD CONSTRUCTION	0	MNDOT	A-12	
1995		TH 55		2723	SC	70	0	70	0	SF	SAFETY	AT HENNEPIN CSAH 101 - TEMPORARY SIGNAL	0	MNDOT	A-18	
1995	1517	DA		8809-120	RS	100	0	100	0	SF	PRESERVATION	EASTERLY PORTION OF ST PAUL METRO AREA-PEDESTRIAN CURB RAMPS	0	MNDOT	D-3	
1995	1518	DA		8809-121	RS	100	0	100	0	SF	PRESERVATION	WESTERLY PORTION OF ST PAUL METRO AREA-PEDESTRIAN CURB RAMPS	0	MNDOT	D-3	
1995	1519	DA		8809-910	RS	200	0	200	0	SF	PRESERVATION	IN HENNEPIN COUNTY-PEDESTRIAN CURB RAMPS	0	MNDOT	D-3	
1995	1520	DA		8809-911	RS	125	0	125	0	SF	PRESERVATION	IN NORTHERN HENNEPIN/SOUTHERN ANOKA COUNTIES-PEDESTRIAN CURB RAMPS	0	MNDOT	D-3	
1995	1521	DA		8809-912	RS	125	0	125	0	SF	PRESERVATION	IN ANOKA COUNTY-PEDESTRIAN CURB RAMPS	0	MNDOT	D-3	
1995	1533	TH 7		2704-8801	SC	25	0	25	0	SF	SAFETY	AT CSAH 92 IN ST.BONIFACIUS - PEDESTAL MOUNTED WARNING FLASHERS	0	MNDOT	A-18	
1995	1535	TH 8		1308-881	AM	250	0	250	0	SF	OTHER	AT CSAH 23-TURN LANE,BYPASS LANE LIGHTING	0	MNDOT	A-20	
1995	1540	I-35		1980-19802	AM	2,000	0	2,000	0	SF	OTHER	AT CO RD 46-CONSTRUCT INTERCHANGE, BR 19802, ETC	0	MNDOT	T-2	
1995	1541	I-35		1980-19841	BI	200	0	200	0	SF	PRESERVATION	UNDER 195TH ST, CSAH 29, CR 62-MILL & L.S. OVERLAY BRS. 19841,70802,70805	0	MNDOT	A-13	
1995	1543	I-35		8280-82801	BI	135	0	135	0	SF	PRESERVATION	UNDER CSAH 2 IN FOREST LAKE-OVERLAY BR 82801	0	MNDOT	A-12	
1995	1548	I-35E		6280-881	AM	25	0	25	0	SF	OTHER	AT GRAND AVE-SIGNAL	0	MNDOT	T-2	
1995	1549	I-35W		0280-9608	BI	375	0	375	0	SF	PRESERVATION	UNDER LEXINGTON AVE,TC ARSENAL ENTRANCE,LOVELL RD,SUNSET AVENUE-OVERLAY BR 9608,9582,9829 & 9831.	0	MNDOT	A-12	
1995	1550	I-35W		0280-9830	BI	160	0	160	0	SF	PRESERVATION	UNDER CSAH 14 & UNDER CSAH 21-MILL & L.S. OVERLAY BRS 9830 & 02801	0	MNDOT	A-13	
1995	1553	I-35W		2782-27871B	BI	760	0	760	0	SF	PRESERVATION	SB 35W OVER NB TH 65 - OVERLAY & REPAIR BR.27871, ALSO BRS.27930,31,33,34,35,36,39,41,9088	0	MNDOT	A-13	
1995	1561	TH 41		1008-47	RS	290	0	290	0	SF	PRESERVATION	0.2 MI.N. OF TH 5 TO TH 7 - MILL & OVERLAY	1.93	MNDOT	A-12	
1995	1562	TH 47		0205-8812	AM	110	0	110	0	SF	OTHER	AT CR 116 - SIGNAL & INTERSECTION	0	MNDOT	T-2	
1995	1563	TH 47		2726-56	RS	230	0	230	0	SF	PRESERVATION	BROADWAY TO 27TH AVE.N.E.--- MILL & BIT.O'LAY	1.25	MNDOT	A-12	
1995	1564	TH 47		2726-58	RS	30	0	30	0	SF	PRESERVATION	CENT.AVE.TO 1ST AVE.N.E.-MILL & BIT.O'LAY	.16	MNDOT	A-12	
1995	1565	TH 49		0204-12	AM	650	0	650	0	SF	OTHER	AT CSAH 23-RECONSTRUCTION	0	MNDOT	A-12	
1995	1567	TH 49		6214-81	RS	175	0	175	0	SF	PRESERVATION	0.3 MI N OF CO RD B2 TO WOODLYN AVE-MILL & OVERLAY	1.1	MNDOT	A-12	
1995	1569	TH 51		6216-109	RS	180	0	180	0	SF	PRESERVATION	0.3 MI S OF CO RD C2 TO N LIMITS OF ROSEVILLE-MILL & OVERLAY	1	MNDOT	A-12	
1995	1570	TH 51		6216-62010	BI	70	0	70	0	SF	PRESERVATION	UNDER CO RD E IN ROSEVILLE-OVERLAY BR 62010	0	MNDOT	A-12	
1995	1572	TH 52		6208-33	RS	860	688	172	0	SF	PRESERVATION	JULY AWARD--RICE ST TO W LIMITS ST PAUL-MILL & OVERLAY	5.2	MNDOT	A-12	
1995	1573	TH 52		6217-37	RS	125	0	125	0	SF	PRESERVATION	KELLOGG BLVD TO RICE ST-MILL & OVERLAY	1.2	MNDOT	A-12	

Table 3-P 100% STATE FUNDED PROJECTS

11-30-1993

Year	STIP Seq	Route	Prt	Project Number	Prg	Total \$	Fed \$ (000's)	State \$ (000's)	Local \$ (000's)	Possible Funds	Category	Description	MI	Agency	A.Q. Excl.	Sunset
1995	1575	TH 52		6217-90381	BI	180	0	180	0	SF	PRESERVATION	UNDER GEORGE ST IN ST PAUL-REPLACE SUPERSTRUCTURE ON BR 90381	0	MNDOT	A-13	
1995	1588	TH 61		8205-97	RS	180	0	180	0	SF	PRESERVATION	12TH ST IN NEWPORT TO 0.3 MI S OF I494-MILL & OVERLAY	1	MNDOT	A-12	
1995	1601	I-94		2786-97	SC	160	0	160	0	SF	SAFETY	CSAH 152 RAMPS--REBUILD 2 SIGNALS	0	MNDOT	A-18	
1995	1603	I-94		6283-9147	BI	200	0	200	0	SF	PRESERVATION	UNDER RUTH ST & UNDER WHITE BEAR AVE IN ST PAUL-OVERLAY BR 9147,9148	0	MNDOT	A-12	
1995	1606	TH 100		2733-8802	SC	80	0	80	0	SF	SAFETY	TH 100 UNDER TH 494 - MODIFY WEAVE AREA	0	MNDOT	A-8	
1995	1608	TH 101		1009-454A	RX	80	0	80	0	SF	PRESERVATION	TH 212 TO TH 12 - MILL & OVERLAY (PORTIONS). (CAT-1).	0	MNDOT	A-12	
1995	1614	TH 169		0209-91	SC	100	0	100	0	SF	SAFETY	AT MAIN ST. IN ANOKA - REBUILD SIGNAL	0	MNDOT	A-18	
1995	1615	TH 169		2744-48	RS	75	0	75	0	SF	PRESERVATION	0.2 MI.S. TO 0.2 MI.N. OF CSAH 1 - MILL & OVERLAY	.43	MNDOT	A-12	
1995	1618	TH 169		2772-6	SC	100	0	100	0	SF	SAFETY	VALLEY VIEW RD. RAMPS--INSTALL 2 SIGNALS	0	MNDOT	T-2	
1995	1619	TH 212		1013-56	SC	150	0	150	0	SF	SAFETY	FROM E.OF WALNUT AVE. THRU CO.RD.17-CONTINUE LEFT TURN LANE	1	MNDOT	A-13	
1995	1621	TH 288		0213-7	RS	45	0	45	0	SF	PRESERVATION	S.RAMP TH 10 TO ANOKA STATE HOSPITAL - MILL & OVERLAY	1.37	MNDOT	A-12	
1995	1622	I-494		1985-115	RS	860	0	860	0	SF	PRESERVATION	TH 149 TO MINNESOTA RIVER-BIT OVERLAY,OVERLAY BR 19825(OVER TH 13,ETC)	3	MNDOT	A-12	
1995	1628	I-494		8285-9344	BI	90	0	90	0	SF	PRESERVATION	UNDER BAILEY RD-OVERLAY BR 9344	0	MNDOT	A-12	
1995	1632	TH 999		8809-80	SC	255	0	255	0	SF	SAFETY	ON TH 13,35E,55,61,77,96,110-DISTRICTWIDE SIGNAL REVISIONS	0	MNDOT	A-18	
1995	1633	TH 999		IVHS 95	TM	2,750	0	2,750	0	SF	SAFETY	STATE MATCH FOR IVHS PROJECTS NOT SHOWN IN METRO TIP	0	MNDOT	A-18	
1995	1634	TH 999		AGREEMENT	AM	4,300	0	4,300	0	SF	OTHER	METRO SET ASIDE FOR MUNICIPAL AGREEMENTS FY 95	0	MNDOT	A-8	
1995	1635	TH 999		ROAD REPAI	RX	1,500	0	1,500	0	SF	PRESERVATION	METRO SET ASIDE FOR ROAD REPAIR FY 95	0	MNDOT	A-12	
1995	1680	TH 52		1907-56	SH	120	0	120	0	SF	SAFETY	AT 117TH ST IN INVER GROVE HTS-TRAFFIC SIGNAL INSTALLATION	0	MNDOT	T-2	
1996	1650	TH 7		2704-23	SC	375	0	375	0	SF	SAFETY	AT CSAH 92 IN ST.BONIFACIOUS - SIGNAL CHANNELIZATION	0	MNDOT	T-2	
1996	1666	TH 13		1902-45	RS	120	0	120	0	SF	PRESERVATION	0.1 MI N OF TO 0.7 MI N OF I35E-MILL & OVERLAY	.8	MNDOT	A-12	
1996	1667	TH 13		7001-73	SC	250	0	250	0	SF	SAFETY	AT CSAH 12 IN PRIOR LAKE - SIGNAL, CHANNELIZATION	0	MNDOT	T-2	
1996	1670	I-35E		1982-122	SH	50	0	50	0	SF	SAFETY	WB TH 110 TO NB I35E-RIGHT TURN MODIFICATION	0	MNDOT	A-8	
1996	1671	I-35E		6280-291	SC	180	0	180	0	SF	SAFETY	AT MARYLAND AVE-REBUILD SIGNALS	0	MNDOT	A-18	
1996	1672	I-35E		6281-36	BR	2,000	0	2,000	0	SF	REPLACE	I694 TO CO RD E-BR 62895-REPLACE BR 9838;RECONSTRUCT INTERCHANGE AT CO RD E; AUXILIARY LANE ON I35E(LET BY CITY 1992-P	1.3	MNDOT	A-13	
1996	1681	TH 55		1909-74	SC	100	0	100	0	SF	SAFETY	AT S JCT TH 149-CONSTRUCT DUAL LEFT TURN LANE	0	MNDOT	A-8	
1996	1686	TH 61		6221-38	RS	170	0	170	0	SF	PRESERVATION	W JCT I94 TO W JCT TH 5/61-MILL & OVERLAY	.7	MNDOT	A-12	
1996	1687	TH 61		6222-127	SC	250	0	250	0	SF	SAFETY	AT BEAM AVE IN MAPLEWOOD-SIGNAL AND INTERSECTION REVISIONS	0	MNDOT	A-8	
1996	1689	TH 62		2774-3	SH	55	0	55	0	SF	SAFETY	TH 62 UNDER TH 100 - MODIFY WEAVE AREA	0	MNDOT	A-8	
1996	1690	TH 62		2774-4	SH	180	0	180	0	SF	SAFETY	AT FRANCE AVE. - SIGNAL RECONSTRUCTION	0	MNDOT	A-18	

Table 3-P 100% STATE FUNDED PROJECTS

11-30-1993

Year	STIP Seq	Route	Prt	Project Number	Prg	Total \$	Fed \$ (000's)	State \$ (000's)	Local \$ (000's)	Possible Funds	Category	Description	MI	Agency	A.Q. Excl.	Sunset
1996	1691	TH 62		2775-7	RS	190	0	190	0	SF	PRESERVATION	FROM W. OF TH 77 TO 0.2 MI.W. OF 28TH AVE. - MILL & OVERLAY	.75	MNDOT	A-12	
1996	1693	TH 65		0208-92	RS	195	0	195	0	SF	PRESERVATION	FROM 2.4 MI S OF N ANOKA CO LINE (226TH AVE NE) TO CSAH 24-MILL & OVERLAY	1.33	MNDOT	A-12	
1996	1695	I-94		2786-100	SC	160	0	160	0	SF	SAFETY	AT CSAH 81 - REBUILD SIGNALS	0	MNDOT	A-18	
1996	1696	I-94		2786-101	SH	55	0	55	0	SF	SAFETY	I 94 UNDER TH 169 - MODIFY WEAVE AREA	0	MNDOT	A-8	
1996	1700	I-94		6283-157	SC	40	0	40	0	SF	SAFETY	ON TH 94 RAMP TERMINI WITH TH 120-SIGNAL REVISIONS	0	MNDOT	A-18	
1996	1703	TH 101		1009-11	RS	330	0	330	0	SF	PRESERVATION	TH 212 TO 0.1 MI.S. OF TH 5 - MILL & OVERLAY	3.61	MNDOT	A-12	
1996	1705	TH 101		2736-40	RS	290	0	290	0	SF	PRESERVATION	0.1 MI.N. OF LAKE ST. TO CSAH 101 WB (OLD TH 12)-MILL & OVERLAY	3.54	MNDOT	A-12	
1996	1713	TH 120		6227-53	SC	110	0	110	0	SF	SAFETY	AT I94 NO FR RD-GEOMETRIC & SIGNAL REVISIONS	0	MNDOT	A-18	
1996	1714	TH 149		1917-31	RS	135	0	135	0	SF	PRESERVATION	MENDOTA HTS RD TO TH 110-MILL & OVERLAY	1.2	MNDOT	A-12	
1996	1716	TH 169	12	2750-50	MC	80	0	80	0	SF	EXPANSION	FROM 93RD AVE.N. TO HAYDEN LK.RD.(OSSEO BYPASS) LANDSCAPING	3.2	MNDOT	A-20	
1996	1718	TH 169		2772-16	SC	150	0	150	0	SF	SAFETY	AT LONDONDERRY RD.-WIDEN NB EXIT RAMP AND SIGNAL REVISION	0	MNDOT	A-18	
1996	1720	I-494		1985-118	SC	220	0	220	0	SF	SAFETY	EB AT HARDMAN AVE-RESTRIPE,OVERLAY,RAMP METER,ETC	0	MNDOT	A-12	
1996	1721	I-494		1985-119	SC	200	0	200	0	SF	SAFETY	EB EXIT TO TH 149-RAMP MODIFICATIONS	0	MNDOT	A-8	
1996	1722	I-494		2785-276	SH	50	0	50	0	SF	SAFETY	I 494 UNDER TH 7 - MODIFY WEAVE AREA	0	MNDOT	A-8	
1996	1727	TH 999		IVHS 96	TM	3,500	0	3,500	0	SF	SAFETY	STATE MATCH FOR IVHS PROJECTS NOT SHOWN IN METRO TIP	0	MNDOT	A-18	
1996	1728	TH 999		BRIDGE IMPR	BI	9,000	0	9,000	0	SF	PRESERVATION	SET ASIDE FOR BRIDGE IMPROVEMENTS - FY 96	0	MNDOT	A-13	
1996	1729	TH 999		AGREEMENT	AM	6,000	0	6,000	0	SF	OTHER	METRO SET ASIDE FOR MUNICIPAL AGREEMENTS	0	MNDOT	A-8	
1996	1730	TH 999		ROAD REPAI	RX	1,500	0	1,500	0	SF	PRESERVATION	METRO SET ASIDE FOR ROAD REPAIR	0	MNDOT	A-12	

Twin Cities Metropolitan Area
1994-1996 Transportation Improvement Program
Table 3-X STP-URBAN GUARANTEE PROJECTS

11-24-1993

Year	STIP Seq	Route	Prt	Project Number	Prg	Total \$ (000's)	Fed \$ (000's)	State \$ (000's)	Local \$ (000's)	Possible Funds	Category	Description	MI	Agency	A.Q. Excl.	Sunset
1994		BIKE		141-090-XX	TR	500	400	0	100	STP-UG	OTHER	CEDAR LAKE BIKE TRAIL CONSTRUCTION - PHASE II		CITY OF MPLS	D-2	
1994		CSAH 18		27-618-67	MC	25,026	5,500	0	0	STP-UG	EXPANSION	CSAH 18 - CSAH 1 (102ND ST) TO I-494 - RECONSTRUCT		HENNEPIN CO	NO	
1994		NON STD		97-XXX-XX	TR	148	119	0	30	STP-UG	OTHER	U OF M INTERMODAL TRANSPORTATION PLAN AND MAPS		U OF M	F-1	
1994	1280	CR 15		MRP 8037	RS	60	46	0	14	STP-UG	PRESERVATION	ANOKA CR 15: FROM 213TH AV NE TO 229TH AV NE, RESURF	0	ANOKA CO	A-12	4/15/94
1994	1286	CSAH 1		02-601-36	RC	1,460	1,170	0	290	STP-UG	REPLACE	ANOKA CSAH 1 (E RIVER RD) HARTMAN CIRCLE TO GLEN CREEK RD; RECONSTR	0	ANOKA CO	T-2	1/1/95
1994	1288	CSAH 14		MRP 6396	RS	90	69	0	21	STP-UG	PRESERVATION	ANOKA CSAH 14: CSAH 21 TO E ANOKA CO LINE - RESURF	0	ANOKA CO	A-12	4/15/94
1994	1289	CSAH 15		MRP	RC	530	407	0	123	STP-UG	REPLACE	SCOTT CSAH 15: TH 101 TO TH 300 IN SHAKOPEE, RECONSTRUCTION	0	SCOTT CO	A-12	4/15/94
1994	1290	CSAH 22		MRP 6371	RS	335	257	0	78	STP-UG	PRESERVATION	ANOKA CSAH 22: E LIM E BETHEL TO E ANOKA CO LINE, RESURF	0	ANOKA CO	A-12	4/15/94
1994	1291	CSAH 22		MRP 8041	RS	225	173	0	52	STP-UG	PRESERVATION	ANOKA CSAH 22: TH 65 TO E LIM OF E BETHEL; RESURF	0	ANOKA CO	A-12	4/15/94
1994	1292	CSAH 42		MRP	RS	182	139	0	42	STP-UG	PRESERVATION	DAKOTA CSAH 42: CSAH 71 TO 145TH ST IN ROSEMOUNT, RESURF	0	DAKOTA CO	A-12	4/15/94
1994	1295	CSAH 74		MRP 8038	RS	30	23	0	7	STP-UG	PRESERVATION	ANOKA CSAH 74: E LIM E BETHEL TO E ANOKA CO LINE; RESURF	0	ANOKA CO	A-12	4/15/94
1994	1316	METRO C		BIKE/WALK	AM	300	240	0	60	STP-UG	OTHER	BURLINGTON/NORTHERN REGIONAL TRAIL CORR: BEAM AVE TO WILLARD MUNGER STATE TRAIL	0	RAMSEY CO	D-2	4/15/94
1994	1317	METRO C		BIKE/WALK	AM	45	36	0	9	STP-UG	OTHER	4 BUS & BIKE SHELTERS ALONG TH 49 IN SHOREVIEW	0	CITY OF SHOREVIEW	D-2	4/15/94
1994	1318	METRO C		BIKE/WALK	AM	573	458	0	115	STP-UG	OTHER	ROSEVILLE NON-MOTORIZED PATHWAY ALONG CR C FROM FAIRVIEW TO RICE	0	CITY OF ROSEVILLE	D-2	4/15/94
1994	1319	METRO C		BIKE/WALK	AM	255	200	0	55	STP-UG	OTHER	OVER BURLINGTON/NORTHERN RR @ I-494	0	CITY OF MINNETONK	D-2	4/15/94
1994	1320	METRO C		BIKE/WALK	AM	1,000	500	0	500	STP-UG	OTHER	CEDAR LAKE PARK TRANSPORTATION CORRIDOR	0	CITY OF MINNEAPOLI	D-2	4/15/94
1994	1321	METRO C		BIKE/WALK	AM	65	52	0	13	STP-UG	OTHER	DAKOTA CO: INSTALL DIRECTIONAL & INFO SIGNS THROUGHOUT BIKEWAY SYSTEM	0	DAKOTA CO	D-2	4/15/94
1994	1322	METRO C		BIKE/WALK	AM	100	80	0	20	STP-UG	OTHER	DOWNTOWN ST PAUL: PURCHASE/PLACE 100 BIKE LOCKERS	0	CITY OF ST PAUL	D-2	4/15/94
1994	1323	METRO C		BIKE/WALK	AM	219	174	0	45	STP-UG	OTHER	BLOOMINGTON BIKE & RIDE SYSTEM TO AND AT MALL OF AMERICA TRANSIT HUB	0	CITY OF BLOOMINGT	D-2	4/15/94
1994	1425	TH 55		2723-94	SH	420	336	84	0	STP-UG	SAFETY	FERNBROOK LA TO IND. BLVD. (INCL. XENIUM LA.) - G&S AUX. & TURN LANES, CHANNEL & SIG. REV.	1.	MNDOT	T-2	
1994	1428	TH 55		2752-37	SH	80	64	16	0	STP-UG	SAFETY	AT THEO. WIRTH PKWY. - REFURBISH SIGNALS	0	MNDOT	A-3	
1995		BIKE		92-090-XX	TR	1,200	950	0	250	STP-UG	OTHER	GATEWAY BIKEWAY TRAIL - ARLINGTON AVE TO CAYUGA ST		DNR	D-2	
1995		BIKE		97-090-XX	TR	547	437	0	109	STP-UG	OTHER	U OF M - TRANSITWAY BIKEWAY CONSTRUCTION		U OF M	D-2	
1995		CSAH 30		62-630-XX	RC	5,000	4,000	0	1,000	STP-UG	EXPANSION	CSAH 30 (LARPENTEUR AVE) - TH 280 TO CSAH 53 (DALE ST) - RECONSTRUCT		RAMSEY CO	A-12	
1995		CSAH 4		27-604-12	RC	1,451	1,161	0	290	STP-UG	EXPANSION	CSAH 4 - CSAH 1 TO TERREY PINE DR - RECONSTRUCT		HENNEPIN CO	NO	

Table 3-X STP-URBAN GUARANTEE PROJECTS

11-24-1993

Year	STIP Seq	Route	Prt	Project Number	Prg	Total \$	Fed \$ (000's)	State \$ (000's)	Local \$ (000's)	Possible Funds	Category	Description	MI	Agency	A.Q. Excl.	Sunset
1995		CSAH 51		62-651-XX	RC	1,445	1,156	0	289	STP-UG	EXPANSION	CSAH 51 (LEX. AVE) - CSAH 30 (LARP. AVE) TO CSAH 15 (CR E) - MILL/OVERLAY, TURN LANES, SIGNAL REV.		RAMSEY CO	A-12	
1995		CSAH 53		27-653-XX	RC	692	554	0	138	STP-UG	EXPANSION	CSAH 53 (66TH ST) - CSAH 17 TO CSAH 31 - RECONSTRUCT		HENNEPIN CO	A-12	
1995		TRANSIT		XXX-XXX-XE	TR	5,040	3,528	0	1,512	STP-UG	OTHER	EDEN PRAIRIE TRANSIT HUB CONSTRUCTION		SW TRANSIT COMM.	NO	
1995		WALK		141-080-XX	TR	600	480	0	120	STP-UG	OTHER	MINNEAPOLIS PEDESTRIAN TUNNEL - UNDER 4TH ST		CITY OF MPLS	D-3	
1995	1285	CSAH 1		02-601-35	RC	1,994	1,595	0	399	STP-UG	REPLACE	ANOKA CSAH 1 (E RIVER RD) TH 610 TO MISS BLVD: RECONSTR	0	ANOKA CO	T-2	1/1/95
1995	1293	CSAH 44		62-644-13	RC	2,935	2,348	0	587	STP-UG	REPLACE	RAMSEY CSAH 44 (SILVER LAKE RD) SILVER LAKE TO I-694: RECONSTR	0	RAMSEY CO	T-2	1/1/95
1995	1576	TH 55		2723-8808	SH	480	384	96	0	STP-UG	SAFETY	AT FERNBROOK, CSAH 6, CSAH 154, CSAH 73 & GLENWOOD-REBUILD SIGNALS	5	MNDOT	A-3	
1995	1577	TH 55		2723-89	SH	120	96	24	0	STP-UG	SAFETY	AT VICKSBURG, NIAGARA, BOONE, RHODE ISLAND & MEADOW LANE-SIGNAL REVISION	8	MNDOT	A-3	
1995	1578	TH 55		2723-90	SH	150	120	30	0	STP-UG	SAFETY	FROM VICKSBURG LANE TO QUAKER LANE & FROM BOONE AVE. THRU THEO. WIRTH PKWAY - INTERCONNECT	4	MNDOT	A-3	
1995	1579	TH 55		2723-91	SH	80	64	16	0	STP-UG	SAFETY	AT WINNETKA AVE. - REFURBISH SIGNAL	0	MNDOT	A-3	
1995	1580	TH 55		2723-93	SC	50	0	50	0	STP-UG	SAFETY	AT 18TH AVE. N. IN PLYMOUTH-CHANNEL. & CLOSE CROSSOVER	0	MNDOT	T-2	
1995	1584	TH 55		2752-34	SH	820	576	144	100	STP-UG	SAFETY	AT OTTAWA AVE. IN GOLDEN VALLEY-CONST.FR.RD., CHANNEL. & SIGNAL	0	MNDOT	T-2	
1996		CSAH 152		27-752-XX	RC	2,000	1,600	0	400	STP-UG	EXPANSION	CSAH 152 - 64TH AVE TO 71ST AVE N - RECONSTRUCT		HENNEPIN CO	NO	
1996		CSAH 21		70-621-XX	MC	2,775	2,220	0	555	STP-UG	EXPANSION	CSAH 21-5 MI W OF CR 87 (PRIOR LK) TO 185TH ST (CREDIT RIVER TWSHP)-NEW ALIGNMENT		SCOTT CO	NO	
1996		CSAH 65		62-665-XX	SC	1,000	800	0	200	STP-UG	SAFETY	CSAH 65 (WHITE BEAR AVE) - CSAH 23 (CR C) TO I-694 - GEOMETRIC/SIGNAL REVISIONS		RAMSEY CO	A-18	
1996	1684	TH 55		2723-97	SH	90	72	18	0	STP-UG	SAFETY	AT INDUSTRIAL PARK BLVD. - TRAFFIC SIGNAL INSTALLATION	0	MNDOT	A-3	

Project approvals are specifically limited to the federal fund amount identified here for purposes of plan specification and estimate approval as well as project authorization. The federal fund amount listed for each project may be used to fully fund any identifiable useable element of the project described or to fund the entire project with a flexible federal/nonfederal participation. The federal fund amount listed is the total which may be authorized for all advertisements of the project described. Any federal fund amount authorized or placed under agreement in years prior to November 15, 1991 should be deducted from the amount identified in this annual element. Metropolitan Council approval of those projects which include interchange construction/reconstructions is conditioned on those interchanges including provisions for meters and high occupant vehicle bypasses consistent with the HOV Facilities Plan.

Twin Cities Metropolitan Area
1994-1996 Transportation Improvement Program
Table 3-Y CONGESTION MITIGATION/AIR QUALITY PROJECTS

11-24-1993

Year	STIP Seq	Route	Prt	Project Number	Prg	Total \$ (000's)	Fed \$ (000's)	State \$ (000's)	Local \$ (000's)	Possible Funds	Category	Description	MI	Agency	A.Q. Excl.	Sunset
1994		CMAQ		141-XXX-XA		170	118	0	52	CMAQ	OTHER	DOWNTOWN MINNEAPOLIS TRANSPORTATION MANAGEMENT ORGANIZATION	0	CITY OF MPLS	D-1	
1994		CMAQ		141-XXX-XB		150	120	0	30	CMAQ	OTHER	THIRD AVE DISTRIBUTOR - CHANGEABLE MESSAGE SIGNS	0	CITY OF MPLS	A-18	
1994		CMAQ		141-XXX-XC		520	416	0	104	CMAQ	OTHER	CONVERT SOV TO HOV PARKING AT 2 MPLS PARKING FACILITIES	0	CITY OF MPLS	D-1	
1994		CMAQ		XXX-XXX-XA		1,062	850	0	212	CMAQ	OTHER	RTB TRAVEL DEMAND MANAGEMENT PROGRAM	0	RTB	D-1	
1994		CMAQ		XXX-XXX-XC		96	79	0	17	CMAQ	OTHER	I-494 CORRIDOR COMMISSION - TRAVEL DEMAND MANAGEMENT PROGRAM	0	I-494 CORR. COMM.	D-1	
1995		CMAQ		141-XXX-XD		691	400	0	291	CMAQ	OTHER	MPLS PRIORITY VEHICLE CONTROL SYSTEM FOR TRANSIT BUSES	0	CITY OF MPLS	A-18	
1995		CMAQ		XXX-XXX-XB		3,000	2,400	0	600	CMAQ	OTHER	I-394 TRANSIT SERVICE EXPANSION	0	MTC	C-4	
1995		CMAQ		XXX-XXX-XD		96	79	0	17	CMAQ	OTHER	I-494 CORRIDOR COMMISSION - TRAVEL DEMAND MANAGEMENT PROGRAM	0	I-494 CORR. COMM.	A-18	

Project approvals are specifically limited to the federal fund amount identified here for purposes of plan specification and estimate approval as well as project authorization. The federal fund amount listed for each project may be used to fully fund any identifiable useable element of the project described or to fund the entire project with a flexible federal/nonfederal participation. The federal fund amount listed is the total which may be authorized for all advertisements of the project described. Any federal fund amounts authorized of placed under agreement in years prior to November 15, 1991 should be deducted from the amount identified in this annual Ielment. Metropolitan Council approval of those projects which include interchange construction/reconstructions is conditioned on those interchanges including provisions for meters and high occupancy vehicle bypasses consistent with the HOV Facilities Plan.

Table 3-S
1994 Transit Projects by Sources of Federal Funds

Recipient	Local Project No.	Contract Letting Year in Service	Project Description	Grant I.D.	Federal Share (\$1,000's)	Federal Share Plus Local Match*	Grant Status	CAAA Code
<u>Fleet Improvements</u>								
MTC	3312	1994/1995	Purchase 97 40-foot buses to replace existing buses	FTA-- 1993-94, Sec. 9/CMAQ/STP	\$17,600	\$22,000	Fall 1993; Applications to FTA	C11
				<u>FTA:</u> <u>Sec. 9 - 1993</u> <u>Sec. 9 - 1994</u> <u>Sec. 3 - 1994</u>	<u>\$17,412</u>	<u>\$23,348</u>	<u>Sec. 9 -1993;</u> <u>(approved)</u>	

Table 3-T
1994-1996 Multi-Year Element
FTA Section 9 Capital and Operating Assistance

Operating Assistance

Recipient	Description	Total (\$1,000s)	Requested Federal (\$1,000s)	Funds	Grant
MTC	Operating Assistances FFY 1994 (MTC CY 1993)	\$74,500	\$7,200	FTA Section 9	Fall 1993 Applications to FTA
	Team Transit (MTC CY 1993)	\$500	\$500	Section 26(b)	--

Capital Assistance

Recipient	Description	Total (\$1,000s)	Requested Federal (\$1,000s)	Funds	Grant
MTC	Capital Assistance FFY 1994 (CY 1993)	\$9,000 \$14,957	\$7,200 \$11,966	FTA Section 9	Fall 1993 Applications to FTA
	Capital Assistance FFY 1994 (CY 1994)	\$9,333	\$7,000	Section 3	

Amendments to Table 3-U
Twin Cities Metropolitan Area Fiscal Year 1994
Section 16 Program of Projects

Action	Recipient	Description	Federal	Local	Total
Delete	City of Richfield Richfield (Hennepin Co.)	22 passenger large bus	35,600	8,900	44,500
Add	Ebenezer Ridges Care Center Burnsville (Dakota Co.)	18 passenger mid-sized bus	32,400	8,100	40,500
Add	Vinland National Center Loretto (Hennepin Co.)	5 passenger standard van	22,240	5,560	27,800

Table 3-W TIP Tables Key

The tables are broken into the various "most likely" funding categories and are sorted by: Federal Fiscal Year, Trunk Highway, and State Project Numbers. The contents of each of these columns is as follows:

1. Year - the federal fiscal year the project is scheduled to be let.
2. STIP Seq - the sequence number from the Statewide Transportation Improvement Program if the project was included in the October 1993 printing of the 1994-1996 STIP.
3. Route - the route this project is located on. A "999" means multiple routes or a location has yet to be determined.
4. Prt - the major project this project is a part of - see attached list of Parent projects.
5. Project Number - the MN/DOT or State-Aid project number for the project.
6. Prg - the MN/DOT program designation of the project.

AM - agreements	BI - bridge improvement
BR - bridge replacement	MC - Major Construction
RC - reconstruction	RD - reconditioning
RS - resurfacing	RX - road repair
SC - safety-capacity improvements	SH - safety-hazard elimination
SR - railroad safety projects	TM - traffic management
7. Total \$ - the total project cost (in thousands) including federal, state and local funds. This figure excludes right-of-way.
8. Fed \$ - the total Federal funds (in thousands) being applied to the project (generally 80% of the total project cost).
9. State \$ - the total State funds (in thousands) being applied to the project.
10. Local \$ - the total Local jurisdiction funds (in thousands) being applied to the project.
11. Possible Funds - the highest ISTEA program the project is eligible for funding: BRIDGE, CMAQ, DEMONSTRATION, ENHANCEMENTS, INTERSTATE MAINT, IVHS, NHS, STP-ANY AREA, STP-SAFETY, STP-URBAN GUARANTEE, STATE FUNDS.
12. Category - the STIP category of the project - EXPANSION, PRESERVATION, OTHER, REPLACE and SAFETY.
13. Description - the location and work to be accomplished by the project
14. MI - the length of the project in miles
15. Agency - the lead agency for the project.
16. A.Q. Excl - TIP air quality category. NO = not excluded from air quality analysis, GR = the project is grandfathered under a previously conforming TIP, and T-2 = the project is required to be analyzed using a "Table 2" analysis. All others are neutral and indicate the applicable air quality exclusions.
17. Sunset - the date the federal funds are no longer available for this project.

Amendments to
Table 4-A
TITLE 1 FUNDS AND ALLOCATIONS FOR 1994, 1995 and 1996
(in millions)

	1994	1995	1996	Totals
Federal and State Funds Available to Region	\$174.4	\$154.2	\$142.9	\$471.5
<u>Expenditures</u>				
Other Mn/DOT and Local Projects	112.15	125.57	131.94	369.66
Demonstration Projects (Federal & State Money Only)	45.77	14.96	23.8	84.53
STP Regional Guarantee	12.76	17.81*	2.49*	33.06
CMAQ	1.58	2.88*	0.0*	4.46
Enhancements	1.66	0.85*	0.0*	2.51
Total Allocation of Title I Funds	\$173.92	\$162.07	\$158.23	494.22
Overage	-0.48	+7.87	+15.33	22.72
% over target	0%	+5.1%	+10.7%	4.8%

*Project selection to be completed 4/94.

Table B4
Annual Element by Federal Funding Sources From TIP Table 3-R_S

Grant ID.	Project Description	Neutral	Comment
FTA-1993-94 Section 9 (MTC) <u>Section 3</u> (MTC)	Purchase 97 40-foot buses	C-11	Mass Transit- Replacement of older buses to reduce average fleet age to six years and equipment to maintain current levels of service.

APPENDIX B

CONFORMITY OF THE 1994-96 TRANSPORTATION IMPROVEMENT PROGRAM WITH THE 1990 CLEAN AIR ACT AMENDMENTS

The Environmental Protection Agency's Criteria and Procedures for Determining Conformity to State or Federal Implementation Plans of Transportation Plans, Programs, and Projects Funded or Approved Under Title 23 U.S.C. or the Federal Transit Act(Criteria), requires the Metropolitan Council to prepare an impact analysis of the Transportation Plans and the Transportation Improvement Plan (TIP). Based on the air quality analysis, the Council must determine the conformity of these plans to meet the 1990 Clean Air Act Amendments (CAAA) schedule to attain carbon monoxide (CO) standards. The appendix describes the procedures used to perform the analysis, list findings and conclusions, and contains statements of conformity.

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I. LIST OF PLANS

Pursuant to the Criteria, the Metropolitan Council used the following adopted transportation plans in making a finding of conformity:

- Metropolitan Investment Framework Policy Plan
- Transportation Development Guide/Policy Plan
- Transportation Air Quality Control Plan (supplement to the Transportation Development Guide/Policy Plan)

A description of the plans is in Section 2. of the 1994-96 Transportation Improvement Plan.

II. EXPEDITIOUS IMPLEMENTATION OF THE TRANSPORTATION CONTROL PLAN

Pursuant to Section 5.3.1 of the Guidance, the Council reviewed the 1994-96 TIP and certifies that the TIP conforms to the requirement to expedite implementation of the Transportation System Management (TSM) strategies. Table B2 is a summary and status of the TSM's found in the Transportation Air Quality Control Plan that describes the status of each TSM. Except for TSM's not completed for the reasons cited, the majority of the TSM's are completed or in the final stages of completion. Implementation of the TIP will not affect the schedules for completing the remaining TSM projects. It is anticipated that the Transportation Air Quality Control Plan will be revised in 1994 as part of a request to the U.S. EPA to designate the Twin Cities Area as an attainment area for CO.

There are no fully adopted regulatory TCM's or fully funded nonregulatory TCMS that will be implemented as part of the TIP over the course of the TIP period. There are no prior TCMS that were adopted since November 15, 1990, nor any prior TCM's that have been amended since that date.

TABLE B1

TWIN CITIES AREA TSM STRATEGIES	STATUS
Vehicle Inspection/Maintenance (Listed in Transportation Control Plan as a TSM Strategy) <ul style="list-style-type: none">• Establish VIM program	<ul style="list-style-type: none">• Program became operational in July, 1991.

<p>Improved Public Transit</p> <ul style="list-style-type: none"> • Reduced MTC Fares • MTC Downtown Fare Zone • Community Centered Transit • Flexible Transit • Total Commuter Service demonstration, Elderly, Handicapped Service • Responsiveness in Routing and Scheduling • CBD Parking Shuttle • Simplified Fare Structure • Bus Shelters • Rider Information • Transit Marketing • Cost Accounting, Transit Performance Funding • Transit Maintenance Program • "Real-time" monitoring • Park and Ride 	<ul style="list-style-type: none"> • Special marketing concepts continue to be introduced and tested by the MTC to increase ridership. • Special reduce fares for Mpls. and St. Paul downtowns introduced. • "Opt Out" provisions now allow communities to develop local service. • Alternative modes introduced to provide specialized transit services. • Implementing accessible route service in addition to metro mobility service. • Transit agencies have active planning and communication program with communities. • Parking shuttles found not feasible. • Difficult to implement due to changing economic conditions. • Established ongoing program of installing and maintaining bus shelters. • Region wide transit information is available through CBD Transit Stores and a computerized phone system. • Transit marketing remains an integral part of transit planning. • Developed computer models to assess transit costs and establish performance measures. • Construction of new maintenance garages and bus overhaul facilities. • Planning of IVHS "real time" programs implemented • Joint program with Mn/DOT for the planning and construction of park-and-ride facilities
<p>Exclusive Bus/Car Pool Lane</p> <ul style="list-style-type: none"> • I-35W Bus/Metered Freeway Project • Reserved transit Lanes in 3rd Ave. distributor in Minneapolis 	<ul style="list-style-type: none"> • Metered freeway access locations have bus and carpool bypass lanes at strategic intersection on I-35W and I-394. • 3rd Ave. Distributor project includes exclusive bus/carpool lanes available for use in 1992
<p>Area-wide Car Pool Programs</p> <ul style="list-style-type: none"> • Expand existing Area-wide shared-ride programs 	<ul style="list-style-type: none"> • Minnesota Rideshare program is actively marketed and continues to expand its computerized match list each year

On-street Parking Controls <ul style="list-style-type: none"> • Enforcement of parking, idling and traffic ordinances 	<ul style="list-style-type: none"> • Ongoing enforcement aggressively pursued by Minneapolis and St. Paul.
Park and Ride/Fringe Parking <ul style="list-style-type: none"> • CBD Fringe Parking Programs in Minneapolis and St. Paul 	<ul style="list-style-type: none"> • Minneapolis and St. Paul developed and are implementing programs for fringe parking and incentives to encourage carpooling.
Pedestrian Malls <ul style="list-style-type: none"> • Nicollet Mall (Minneapolis) • Pedestrian facilities/Skyway systems • CBD housing and related pedestrian way 	<ul style="list-style-type: none"> • Nicollet Mall renovations and extension completed. • Extension of Mpls. skyway system to the fringe parking in the 3rd Ave. Distributor is completed. • Mpls. and St. Paul encourage the expansion of their skyway system as part of the CBD development process
Employer Programs for Transit, Paratransit and Bicycles <ul style="list-style-type: none"> • Shared-ride programs implemented and underway in the Metropolitan Area 	<ul style="list-style-type: none"> • A number of Twin Cities employers have van and car pool programs and participate in Minnesota Rideshare program. • Transportation Management Organizations established in downtown Minneapolis and I-494 strip in Bloomington.
Bicycle Lanes and Storage <ul style="list-style-type: none"> • Bicycles facilities implemented by various cities in Metropolitan Area. 	<ul style="list-style-type: none"> • Provisions for bicycle parking are included in fringe parking facilities for downtown Minneapolis.
Staggered Work Hours <ul style="list-style-type: none"> • Variable work hours-implemented by various agencies 	<ul style="list-style-type: none"> • City, county and state employees have flex time programs available. Other employers allow flextime and help support van and car pooling programs.
Traffic Flow Improvements <ul style="list-style-type: none"> • Minneapolis Computerized Traffic Management System • St. Paul Computerized Traffic Management System • New Construction - Mpls., 3rd Ave. Distributor; I-35E, St. Paul • University and Snelling Aves.- St. Paul; traffic flow improvements 	<ul style="list-style-type: none"> • Mpls. system installed. New hardware and software installation to be completed in late 1992. • St. Paul system completed in 1991. • 3rd Ave. Distributor signals computerized • Improvements completed in 1990
Alternative Fuels or Engines <ul style="list-style-type: none"> • Gasohol demonstration project 	<ul style="list-style-type: none"> • MTC is implementing alternatives fuel testing program for buses in 1992; Mpls. is testing its vehicles.
Cold Start Emissions Reductions <ul style="list-style-type: none"> • Auto plug-in program for cold-start reductions 	<ul style="list-style-type: none"> • Strategy found not to be feasible

III. CONFORMITY OF 1994-96 TRANSPORTATION IMPROVEMENT PROGRAM

Pursuant to Section 5.3.1 of the Guidance, the Council reviewed the 1994-96 TIP document and TIP certifies that the TIP conforms to the recent estimates of mobile source emissions based on the most current transportation models population, employment, travel, and congestion forecasts:

- A. The Council is required by Minnesota statute to prepare regional population and employment forecasts for the Seven County Twin Cities Metropolitan Area and the air quality analysis of CO emissions for Wright County is prepared under the guidance of the Metropolitan Council as part of an intergovernmental agreement between the county and the Council.
- B. The published source of socioeconomic data is the Metropolitan Investment Framework Policy Plan. This is the planning document used by the Council to develop long range forecasts of highway and transit facilities needs.
- C. The Minnesota Pollution Control Agency reviewed the 1994-1996 TIP document for acceptability to meet the state and federal conformity requirements
- D. A quantitative analysis of the emissions impact of the TIP projects listed in Tables B6 and B7 to account for the emissions impact of all transportation projects, was conducted using the MOBILE5a and SAPOLLUT mobile source emissions models. The analysis estimates annual reduction of 8324 tons/year of CO in 1995 if the "New TIP Scenario" (build) is implemented.
- E. The CO reductions are estimated to be sustained for a reasonable period beyond the design year of 1995. Estimates of CO emissions for the years 2000 and 2005 were included in the analysis and the results are shown in Table B2 and includes the estimate of emissions from Wright County projects.
- F. Neutral projects were identified and classified in accordance with the EPA guidance in Appendix C.

A new version of the EPA emission analysis software was used, MOBILE5a as required by the agency. This is the third in a series of software improvements used in the analysis of the TIPs adopted since the enactment of the CAAA. Each version increases the 1990 baseline emissions and emissions for each subsequent period to be analyzed; although the pattern of CO reductions for the analysis period continues to indicate an improvement. Further discussion as the effects of changes to the EPA emission analysis model is in Section VII.

TABLE B2

**TIP SCENARIOS (TOTAL TWIN CITIES AND WRIGHT COUNTY) ANNUAL
CARBON MONOXIDE EMISSIONS FOR YEARS 1995, 2000, AND 2005 (TONS/YEAR)**

NETWORK	1990	1995	2000	2005
BASELINE TIP SCENARIO	884,915	487,811	416,671	390, 814
NEW TIP SCENARIO (BUILD)	-	406,468	467,460	379,253
<i>TIP CO Reduction</i>	-	8,324	10,203	11,561

IV. 1994-96 TIP CONTRIBUTIONS TO ANNUAL EMISSIONS REDUCTIONS

A. TIP ANALYSIS

Pursuant to Section 5.3.3 of the Guidance, the Council has reviewed the 1994-96 TIP document. Based on this review, the Council finds that the TIP contributes to annual emissions reductions consistent with sections 182(b)(1) and 187(a)(7). The following is the description of the scenarios used in the emissions impact analysis as required by the Guidance.

1990 Baseline TIP Scenario is the highway network open to traffic at the end of calendar year 1990 and all highway projects for which construction funds are expected to be obligated by November 15, 1991, and includes projects "grandfathered" in the 1991-93 TIP adopted prior to November 15, 1990. Projects "grandfathered" are identified by a "GR" in the project description tables.

New TIP (Build) Scenario is the 1994-96 TIP highway system, the "Baseline Scenario" as defined above and additional projects included in the 1994-96 TIP found not to be exempt or "neutral" as defined in the "Appendix" of the Guidance. Regionally significant projects (as defined in section 51.392 of the EPA Conformity Rules for Air Quality) for the Twin Cities Seven-County Metropolitan Area that are included in the New TIP Scenario, are listed in Table B7. The Wright County projects included in the New TIP Scenario is listed in Table B6. A description of the methods used to calculate CO emissions is in Section VII.

The Council has determined that the "New TIP (Build) Scenario" contributes to emissions reductions by 8324 tons less than the "baseline" scenario for the 1995 attainment year. The Council believes that CO reductions in the intervening years are likely to continue to occur for the following reasons:

1. Continued improvement in auto emissions controls systems as required by the CAAA.
2. Commitment to continue capital investments to improve the operational efficiencies of the highway and transit systems.
3. Commitment by local governmental units to address local congestion problems through use of transportation control measures.

B. AIR QUALITY CONFORMITY DETERMINATIONS FOR TRANSIT PROJECTS

The Transit projects in the TIP annual element are listed in Tables 3-R through 3-U. Projects listed in Tables 3-S, 3-T and 3-U support ongoing operations and maintenance of the region's transit system and do not require National Environmental Protection Act (NEPA) reviews. Neutral projects fall within the "Mass Transit" category listed in the "APPENDIX" of the GUIDANCE. The U.S. EPA does not provide guidance on the preparation of an air quality analysis for park-and-ride facilities. If an analysis is required, a T-2 type analysis of intersections potentially affected by the facility, will be prepared. If needed, further "hot-spot" analysis will be prepared for the effected intersections. A determination for each of the sections is as follows:

TABLE B3
ANNUAL ELEMENT BY FEDERAL FUNDING SOURCES FROM TIP TABLE 3-R
(FLEET IMPROVEMENTS, FACILITY IMPROVEMENTS, CMAQ FUNDING)

FLEET IMPROVEMENT

Grant I.D.	Project Description	Neutral	Comment
FTA 1993-94 Section 9 (MTC) Section 3 (MTC)	Purchase 97 40-foot buses	C-11	Mass Transit - Replacement of older buses to reduce average fleet age to six years and equipment to maintain current levels of service.
FTA - 1993 Section 9 to be assigned (MTC)	Purchase up to 25 articulated buses	C-11	Same as above.
FTA - Sec. 3	Purchase of gas powered trolley vehicles for downtown shuttle	C-11	Replacement of buses on the Hennepin Mall by CNG powered vehicles
MN-90-X057	Leasing of bus tires	C-2	

CMAQ FUNDING

Grant I.D.	Project Description	Air Quality Category	Comment
MTC - to be assigned	Provide start-up costs for new service in 1-394 corridor for 1995	C-4	

FACILITY IMPROVEMENTS

Grant I.D.	Project Description	Neutral	Comment
MN-90-X057(MTC)	Energy link between MTC and Hennepin Co. Energy Reclamation Center	C1	Feasibility study
MN-90-X057(MTC)	Expand 46-car Park-and -ride lot at I-35W and CR H to 200-car lot	No	Modeling may be required by future EPA guidance
Subgrant from Mn/DOT of STP grant funds	Park-and-ride lot for up to 700 autos in the vicinity of Hwy. 610 and Foley Blvd.	No	same as above
Subgrant from(MTC) Mn/DOT of CMAQ program funds	Construction of 3 heated/air conditioned shelters either within or adjacent to the existing office building	C-7	
Same as above	System-wide bus stop sign system	C-3	
Same as above	Lighting of major bus stops	C-6	
Same as above	Bus shelters	C-7	
FTA-Sec.6 (City of Mpls.)	Downtown Minneapolis Transportation Management Organization (TMO)	D-1	
1992 CMAQ Funds (RTB)	Minnesota Rideshare Program	NO	Supports a TSM strategy in the SIP.
MTC - to be added	Brooklyn Center park-and-ride lot, 235 cars	NO	
Same as above	Travel Demand Management (TDM) Program	NO	Supports a TSM strategy in the SIP.

TABLE B4

1994-1996 BIENNIAL ELEMENT

FTA SECTION 9 CAPITAL AND OPERATING ASSISTANCE FROM TIP TABLE 6C
(OPERATING ASSISTANCE, CAPITAL ASSISTANCE)

OPERATING ASSISTANCE

Grant I.D.	Project Description	Air Quality Analysis	Comment
Fall '93 FTA Application	Operating Assistance FFY 1994 (MTC CY-1993)	C-4	Operation Assistance for Current Level of Service.
Fall '94 FTA Application	Operating Assistance FFY 1995 (MTC CY-1994)	C-4	Same as above.
Fall '96 FTA Application	Capital Assistance FFY 1996 (MTC CY-1995)	C-4	Same as above

Capital Assistance

Grant I.D.	Project Description	Air Quality Analysis	Comment
Fall 1993 Application to FTA	Capital Assistance FFY 1994 (MTC CY-1994)	C-11	Replacement of existing buses
Fall 1994 Application to FTA	Capital Assistance FFY 1995 (MTC CY-1995)	C-11	Same as above
Fall 1995 Application to FTA	Capital Assistance FFY 1996 (MTC CY-1996)	C-11	Same as above

OTHER FTA FUNDING

FTA SECTION 18 FY 1993 FUNDS AVAILABLE ANNUALLY TO LOCAL TRANSIT PROVIDERS TO ASSIST IN THE COST OF OPERATING SERVICES.

The projects receiving these funds are neutral.

FTA SECTION 16 (b)(2) TRANSPORTATION SERVICES FOR THE ELDERLY AND HANDICAPPED - TIP TABLE 6D

Annual funding required by Mn/DOT for the purchase of vehicles for providers of transit services to the elderly and disabled. Programs receiving funds are neutral.

V. HIGHWAY PROJECTS

A. ASSIGNING PROJECTS TO TIP CATEGORIES

Pursuant to the Criteria, the projects in the TIP were reviewed and categorized using the following determinations to identify projects that require a TIP analysis:

1. The project is found in a TIP that received the necessary approval by the Federal Highway Administration and/or that the self-certification on conformity by the Council and approval by Mn/DOT is valid during the period of November 15, 1987 - November 15, 1990; and
2. The project is segmented for purposes of funding or construction and received all required environmental approvals from the lead agency under the National Environmental Protection Act (NEPA), including:
 - a. A determination of categorical exclusion: or
 - b. A finding of no significant impact: or
 - c. A final Environmental impact statement for which a record of decision has been issued.
3. The project is exempt or "neutral" as defined in the Criteria. Project listed as "neutral" in the 1994-96 TIP by their nature will not affect the outcome of any regional emissions analyses and add no substance to the analyses. These projects are determined to be within the four major categories described in the Criteria. A description of the project categories is in the TIP Appendix C along with a list of the coding used to classify the type of neutral project. Although "signalization" and "channelization" projects are neutral, a "hotspot" analysis may be required as part of the project design phase. These projects are identified with a "T-2" code.
 - a. Safety projects that eliminated hazards or improved traffic flows.
 - b. Mass Transit projects that maintained or improved the efficiency of transit operations.
 - c. Air quality related projects that provided opportunities to use alternative modes of transportation such as ride-sharing, van-pooling, bicycling, and pedestrian facilities.
 - d. Other projects such as environmental reviews, engineering, land acquisition and highway beautification.

A description of the classification given to the TIP projects was provided to the Minnesota Pollution Control Agency, Air Quality Division.

Table B6 lists the TIP projects included in the air quality analysis as part of the "New TIP Scenario". These are projects scheduled to be completed by the end of the 1995 attainment year.

B. WRIGHT COUNTY PROJECTS

A significant portion of Wright County is included in the Twin Cities CO nonattainment area as identified in the November 6, 1991 Federal Register. However, since the county is not part of the Seven County Metropolitan Area, Wright County projects are not considered in the selection of projects for federal funding through the TAB and Metropolitan Council processes. Wright County projects are evaluated for air quality analysis purposes, and the emissions associated with the significant county projects are added to the Seven-County region's emissions.

Wright County projects are included in the State TIP prepared by Mn/DOT and listed in Table B5

**TABLE B5
WRIGHT COUNTY PROJECTS PROPOSED FOR FEDERAL FUNDING**

T.H.	STATE PROJECT	DESCRIPTION	AIR QUALITY CATEGORY
12	8601-42	1000 ft. west of County Road 110; west of County Rong 110 W. at Montrose - grade, surface and bridge replacement	A-12 A-13
25	8604-26	First St. South of Buffalo; traffic signal installation	T-2
25	8605-36	July award - TH55 to CR133 in Buffalo - widen, channelization, permanent signal at Walmart and TH55	T-2
101	8608-14 8608-15 71001	At TH 10 in Elk River; widen bridges, grade and surface interchange: CASA 42 to Mississippi River - grade and surface, signage, lighting, signals	NO
55	8606-45	East and North of TH25 in Buffalo, Misc. frontage road and intersection improvement at Commercial Drive	
94	8680	Monticello to Crow River - resurface	A-12
94	8680-126	0.12 mile West of junction - CSAH 37 at Albertville; roadway surfacing	A-12
94	8680-127	3 mile West to 0.9 mile West of Alberville - Eastbound roadway; surfacing	A-12
94	8680-129	Minnesota Traffic Control Devices for Traffic Switch over	A-18
94	8680-454	Minnesota Pole Building - Supply	F-4
94	8680-OPTIM-A	Minnesota Road Optim Electronics Contract	A-18
CSAH 9	86-609-06	Bridge replacement and approach work - no additional lanes	A-13
MSA 103	213-103-01	3rd Ave. Northeast from TH 55 to Anderson Ave. in Buffalo; reconstruction	A-13
CR 128	-	Replace bridge with 86514 at the Northwest county line over the clearwater River - no additional lanes	A-13
CSAH 37	-	From CSAH 8 to CSAH 11, cold inplace recycle, overlay and safety improvements	A-13
N/A	222-080-129	Monticello pathway and beautification (enhancements)	D-2
N/A	TRANSIT	Annandale - replace small bus	C-11
N/A	TRANSIT	Annandale operating subsidy for transit service within Annandale service area for 1994	C-4
N/A	TRANSIT	Monticello operating subsidy for transit service within Monticello's service area for 1994	C-4

TABLE B6
REGIONALLY SIGNIFICANT TIP PROJECTS INCLUDED IN THE AIR QUALITY ANALYSIS

T.H.	DESCRIPTION	COUNTY	OPENING DATE
I-35W	• Temporary 3rd Lane - extend from I-494 to Minneapolis	HENNEPIN	1995
36/TH5	• Stillwater/Houghton River Crossing over the St. Croix	WASHINGTON	2000
101	• Shakopee Bypass	SCOTT	2000
I-94	• Replace St. Croix River Bridge, east bound approach, and west bound-redeck	WASHINGTON	2000
610	• TH 10 to I-94	HENNEPIN	2000
101	• Hennepin/Wright County line to Wright/Sherbourne County Line	WRIGHT	1995

VI. DESCRIPTION OF MOBILE SOURCES EMISSIONS IMPACT ANALYSIS

A. Twin Cities Seven County Area Regional Analysis

The approach used in the air quality analysis of the Plan and the TIP is intended for application only to the 1994 calendar year TIP submittal and may be revised for future TIP submittals as required by the final regional conformity procedures.

The emissions analysis was produced using three computer models. The metropolitan network travel demand model jointly developed by the Council and Mn/DOT, the EPA MOBILE5a emissions model, and the regional emissions model, SAPOLLUT.

The FHWA-PLANPAC network travel demand model was used to predict vehicle miles of travel (VMT). Trips were interpolated between the analysis years of 1988 and 2010 to produce trip tables for the other years used in the analysis. A 1990 roadway network was developed to use as the baseline scenario network for the analysis of TIP and Plan scenarios. The TIP projects listed in Table B6 were added to the baseline network to produce the TIP scenario network. The trip data was loaded on the two networks for the an analysis of each year.

The region-wide CO emissions were calculated with the SAPOLLUT model. The model uses the data generated by the PLANPAC network travel demand model. The following default values found in the SAPOLLUT manual, consist of hourly percentages tables were used as input data: 1)ADT, 2)Directional split, 3)light-duty, heavy gas, and heavy diesel vehicle mix, and 4) volume to capacity (V/C) to speed conversion. Emissions and speed adjustment tables were then produced for SAPOLLUT using MOBILE5A emissions data calculated in 5mph increments.

The Baseline 1990 CO emissions values have increased from the 1993-1995 TIP emission analysis using the EPA MOBILE4.1 emission model. An updated version, MOBILE5A, is used in the 1994-1996 TIP analysis. This latest version of the EPA emission model, increases CO emissions due to changes in the calculation of auto and other light vehicles, as a result of an EPA study of CO emissions at inspection/maintenance facilities. The study showed that in-use deterioration of vehicle operating efficiencies increased emissions than assumed in previous versions of the model. The result is higher emissions of all exhaust pollutants for these types of vehicles.

All the TIP highway projects that would add single occupancy vehicle capacity were reviewed as to whether significant single occupancy vehicle capacity would be added if the project was constructed, or whether the project had completed a NEPA process.

A nonattainment area for PM10 is located in the City of St. Paul. The nonattainment designation is not due to transportation sources. The EPA issued a work order for the area to the MPCA that is being implemented.

B. Wright County Air Quality Analysis

The projects analyzed for CO emissions are the T.H. 101 from the Hennepin/Wright County line to the Sherburne/Wright County line and T.H. 55 in Buffalo. The projects are described in Table B5. Two scenarios were analyzed. A "no-build scenario" was to maintain the 2-lane roadway at current capacity with no further improvements. The "TIP build scenario" is the reconstruction of the facilities to 4-lane arterial with some intersections signalized. The emissions calculated from each of the scenarios were added to the Twin Cities Seven-County totals as shown in Table B2.

The CO emissions were calculated using the following method:

1. Total vehicles speeds were calculated by using the volume to capacity ratios based on SAPOLLUT tables (see Exhibit B5).
2. CO emissions derived from vehicle speeds were calculated based on Mobile 5a values listed in Exhibit B1.
3. The county CO emission values were added to the Twin Cities Seven County CO emissions totals for the "TIP build" scenario.

C. Description of the SAPOLLUT Air Quality Analysis Model

The SAPOLLUT program calculates air pollution emissions using "link volumes" on the 1990, and 2015 highway networks. Seven separate operations are followed to develop emissions data for each highway link in the year 1990 and 2015 network analyzed.

1. Each link is classified as to one of 3 area types:
 - 1 = CBD
 - 2 = Central City
 - 3 = Suburbs
 - 4 = Rural
2. Each link is classified as to one of two functional types:
 - 1 = Freeway
 - 2 = Arterial
3. Each link daily volume is split into 24 hourly non-directional volumes according to a direction split.

4. Each hourly volume is split into directional volumes according to the direction split table.
5. A directional speed is determined for each hourly volume depending upon the Volume/Capacity Ratio (V/C Speed table).
6. Each hourly volume is further split into three vehicle types (light duty vehicle-auto, heavy duty vehicle-diesel, heavy duty-non-diesel) according to percentage vehicle (pctveh) Table Exhibit B2.
7. Emissions from MOBILE5a are multiplied by vehicle mile traveled VMT to obtain final results.

Exhibit B1 MOBILE5a INPUT VALUES

The EPA-MOBILE5A model produced the vehicular CO emissions for the inventory using the following input values:

Auto Registration..... 1990 7-county area
 Gasoline volatility..... 13.4 RVP
 Ambient Temperature..... 31 degree F.
 Minimum temperature..... 16 degree F.
 Maximum temperature..... 38 degree F.
 Coldstarts..... 20.6% (default)
 Hotstarts..... 27.3% (default)
 Altitude..... Low altitude
 Vehicle mix..... MOBILE5a - default for light duty vehicles

Inspection/Maintenance - anti tampering program factors

Start year..... 1991
 Pre-1981 stringency..... 20%
 First model year covered..... 1976
 Waiver rates..... 5%
 Compliance rates..... 85%
 Inspection types covered..... Centralized
 Vehicle types covered..... LDGV, LDGT1, LDGT2
 Frequency..... Annual

Anti- tampering inspection - Catalyst, inlet-restrictor, gas cap

Oxygenated Fuels Factors

Oxygen content..... 2.7%
 Market share..... 90%
 Alcohol blend RVP waiver..... Yes

Note that the MOBILE5a default values were used for the remaining input factors

Exhibit B2
HOURLY DISTRIBUTION OF VEHICLE TYPES BY FACILITY TYPES
BASED ON PERCENTAGE OF TOTAL VEHICLES

Hour	FREEWAYS		ARTERIALS	
	Diesel	Nondiesel	Diesel	Nondiesel
0	13.1	1.2	4.7	0.4
1	20.7	2.5	7.9	1.0
2	33.2	2.4	12.2	0.9
3	32.0	1.1	14.0	0.5
4	33.1	4.4	14.0	1.9
5	19.2	3.2	9.4	1.7
6	9.2	2.5	4.3	1.2
7	4.9	3.2	3.1	2.0
8	5.5	4.4	4.2	3.4
9	6.6	5.1	5.2	4.1
10	6.6	4.9	5.0	3.7
11	6.7	4.7	4.7	3.2
12	6.6	4.4	4.1	2.7
13	6.5	4.7	4.2	3.0
14	5.7	4.2	4.1	3.0
15	5.3	3.8	3.6	2.6
16	4.4	2.8	2.8	1.8
17	3.7	2.1	2.3	1.3
18	4.8	2.0	2.8	1.1
19	5.2	1.6	2.7	1.2
20	6.0	1.4	2.5	0.6
21	6.4	2.2	2.5	0.5
22	9.0	0.5	3.2	0.2
23	8.9	0.9	3.3	0.3

Source: Special Area Analysis Manual, U.S. Department of Transportation, 1973.

Exhibit B3
HOURLY DISTRIBUTION OF AVERAGE DAILY TRAFFIC AS A PERCENTAGE OF THE
TOTAL BY FACILITY TYPES AND BY AREA OF THE CITY

Hour	FREEWAYS				ARTERIALS			
	CBD	CC	Sub	Rural	CBD	CC	Sub	Rural
0	1.5	1.5	1.5	1.0	1.5	1.5	1.5	0.9
1	1.0	1.0	1.0	0.9	1.0	1.0	0.5	0.8
2	0.5	0.5	0.5	1.1	1.0	0.5	0.5	0.8
3	0.5	0.5	0.5	0.8	0.5	0.5	0.5	0.3
4	1.0	0.5	1.0	1.1	0.5	0.5	0.5	0.4
5	2.0	1.5	1.5	2.1	1.5	1.0	1.0	1.8
6	5.5	4.5	4.5	3.9	3.5	4.5	4.0	4.8
7	8.5	7.5	8.5	5.2	6.5	8.0	7.5	6.8
8	7.0	6.5	6.5	5.2	6.5	6.0	5.5	4.9
9	4.5	5.0	5.0	5.5	5.0	4.5	4.5	4.9
10	4.0	4.5	5.0	5.6	5.5	4.5	4.5	5.0
11	4.5	4.5	4.5	5.8	5.5	5.0	5.0	5.4
12	4.5	4.5	4.5	5.7	5.5	5.0	5.0	5.3
13	4.5	5.0	4.5	5.5	6.0	5.0	5.0	5.4
14	5.5	6.0	5.5	6.5	6.5	5.5	6.0	6.0
15	7.5	7.5	7.0	6.5	7.0	7.0	7.0	6.9
16	9.5	9.0	8.5	7.8	8.5	9.0	8.5	8.7
17	8.0	8.5	8.5	6.9	7.5	8.0	8.5	8.0
18	5.0	5.5	5.5	5.8	4.5	5.5	6.0	6.5
19	4.0	4.0	4.5	4.7	4.0	5.0	5.5	5.2
20	3.5	3.5	3.5	3.8	3.5	4.0	4.5	4.0
21	3.0	3.5	3.0	3.6	3.0	3.5	3.5	3.0
22	2.5	3.0	3.5	2.9	3.0	3.0	3.0	2.4
23	2.0	2.0	2.5	2.1	2.5	2.0	2.0	1.8

Source: Special Area Analysis Manual, U.S. Department of Transportation, 1973.

Exhibit B4
HOURLY DISTRIBUTIONS OF DIRECTIONAL SPLIT AS A PERCENTAGE OF
HOURLY FACILITY TYPES AND BY AREA OF THE CITY

Hour	FREEWAYS				ARTERIALS			
	CBD	CC	Sub	Rural	CBD	CC	Sub	Rural
0	44	38	44	46	48	44	40	42
1	44	40	46	50	48	46	42	44
2	50	40	48	48	46	44	44	47
3	52	46	54	54	48	48	48	51
4	58	56	60	56	54	54	58	58
5	66	64	68	56	64	62	66	67
6	66	70	68	61	62	66	72	66
7	60	70	64	56	62	68	68	62
8	58	68	58	56	62	64	60	54
9	54	62	54	58	58	56	56	52
10	48	58	52	55	54	54	54	51
11	48	52	50	52	54	52	50	48
12	48	52	50	51	52	50	50	50
13	50	52	52	49	52	50	50	50
14	52	50	52	49	52	50	50	50
15	44	46	48	46	48	46	46	48
16	38	38	42	44	44	40	40	40
17	40	38	40	45	40	38	38	40
18	44	46	44	48	50	46	46	44
19	46	52	48	47	50	52	50	48
20	50	46	48	48	50	48	46	46
21	52	42	44	47	48	46	44	46
22	52	42	46	46	50	46	44	46
23	50	40	44	46	50	46	44	46

Source: Special Area Analysis Manual, U.S. Department of Transportation, 1973.

Exhibit B5
AVERAGE SPEED BASED ON VOLUME TO CAPACITY RATIOS
(V/C BY FACILITY TYPES AND BY AREA TYPE)

AVERAGE SPEED (MPH)

V/C	FREEWAYS		ARTERIALS		
	CBD/CC	Sub/Rural	CBD	CC	Sub/Rural
0.0	50.0	65.0	21.8	29.8	32.2
0.1	48.0	62.5	21.3	29.5	32.0
0.2	46.0	60.0	20.8	29.2	31.8
0.3	44.0	57.5	20.3	28.8	31.6
0.4	42.0	55.0	19.8	28.5	31.4
0.5	40.0	52.5	19.3	28.2	31.2
0.6	38.0	50.5	18.8	27.8	31.0
0.7	36.0	47.5	18.3	27.5	30.8
0.8	34.0	44.5	17.8	27.2	30.6
0.9	32.0	41.0	16.4	21.1	22.8
1.0	30.0	30.0	15.0	15.0	15.0
1.1	27.0	27.0	13.0	13.0	13.0
1.2	24.0	24.0	11.0	11.0	11.0
1.3	21.0	21.0	9.0	9.0	9.0
1.4	18.0	18.0	7.0	7.0	7.0
1.5	15.0	15.0	5.0	5.0	5.0
1.6	15.0	15.0	3.0	3.0	3.0

Source: Special Area Analysis Manual, U.S. Department of Transportation, 1973.