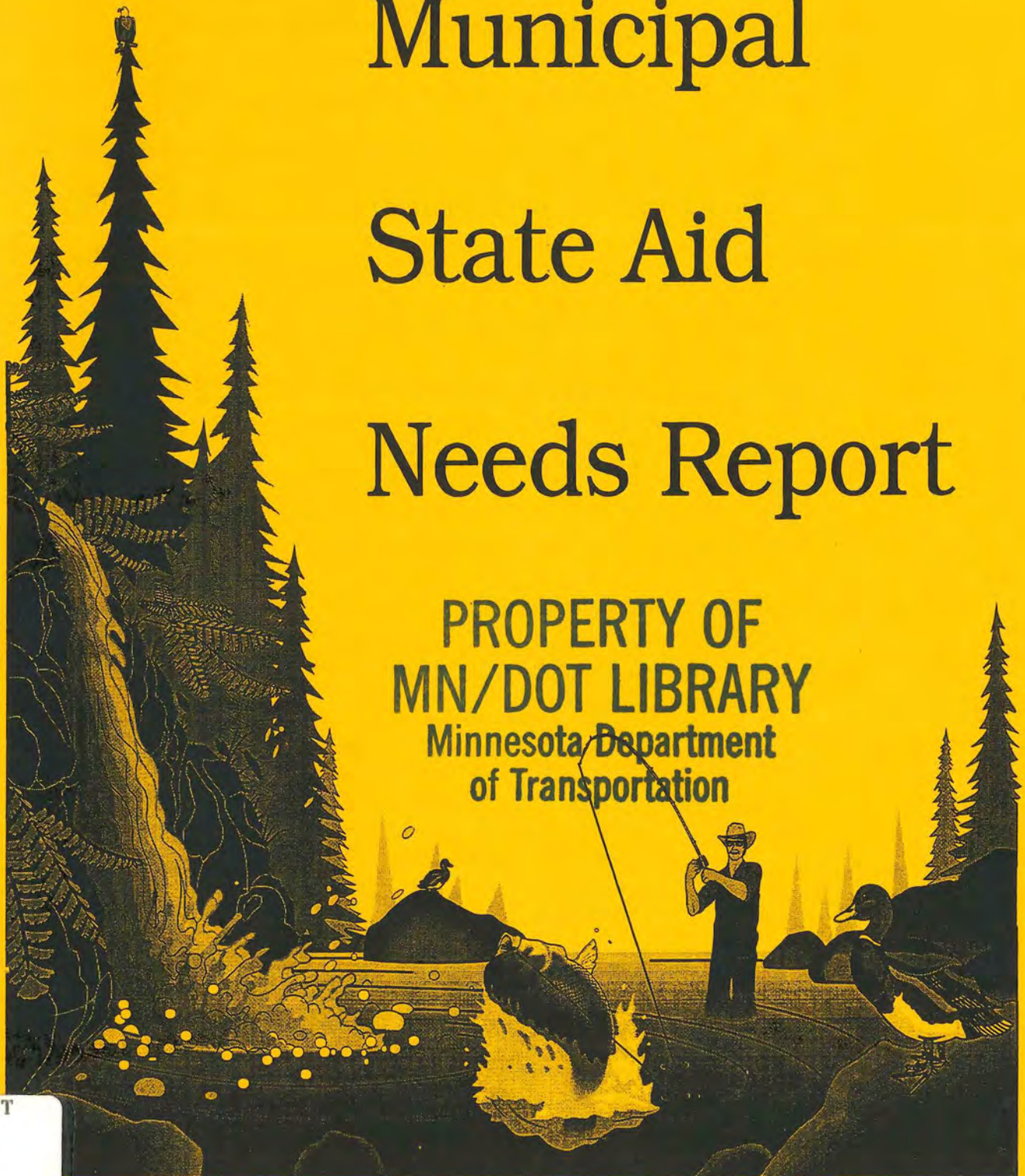




1996

Municipal State Aid Needs Report

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October, 1996

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October 1996

(612) 296-1662

TO : Municipal Engineers

SUBJECT : 1996 Municipal State Aid Needs Report

Enclosed is a copy of the 1996 Municipal State Aid Needs Report, which will be reviewed October 22 & 23 by the Screening Board to make a final determination of the money needs.

This report has been compiled by the Municipal State Aid Needs Unit in conjunction with the Office of Finance. If you have any questions or suggestions concerning this data, please contact me at the above number.

Distribution of this report is sent to all Municipal Engineers, and when a consulting engineer is engaged by the municipality, a copy is also sent to the municipal clerk.

A limited amount of additional copies of this report are available on request.

Sincerely,



**Kenneth Straus
Municipal State Aid Needs Unit**

**Enclosures:
1996 Municipal State Aid Needs Report**

PREFACE

The "1996 Municipal State Aid Needs Report" is presented to the Municipal Screening Board for use in making their annual money needs recommendation to the Commissioner of Transportation.

This submittal is required by Mn. Statute 162.13 Sub .3 and is to be made to the commissioner on or before November 1 of each year for his determination.

The money needs data contained in this publication has been compiled from reporting submitted by each individual municipality.

Design is established by State Aid Standards based on traffic, and the money needs are calculated using the unit prices as determined by the Municipal Screening Board at their spring meeting in June, 1996.

The estimated Population data is combined with the Commissioner's final money needs and the result will be used to determine the 1997 allocation which will be reported in the "1997 Municipal State Aid Apportionment Data" to be published in January, 1997.

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STATE OF MINNESOTA

HIGHWAY DISTRICTS AND
URBAN MUNICIPALITIES
(population over 5000)



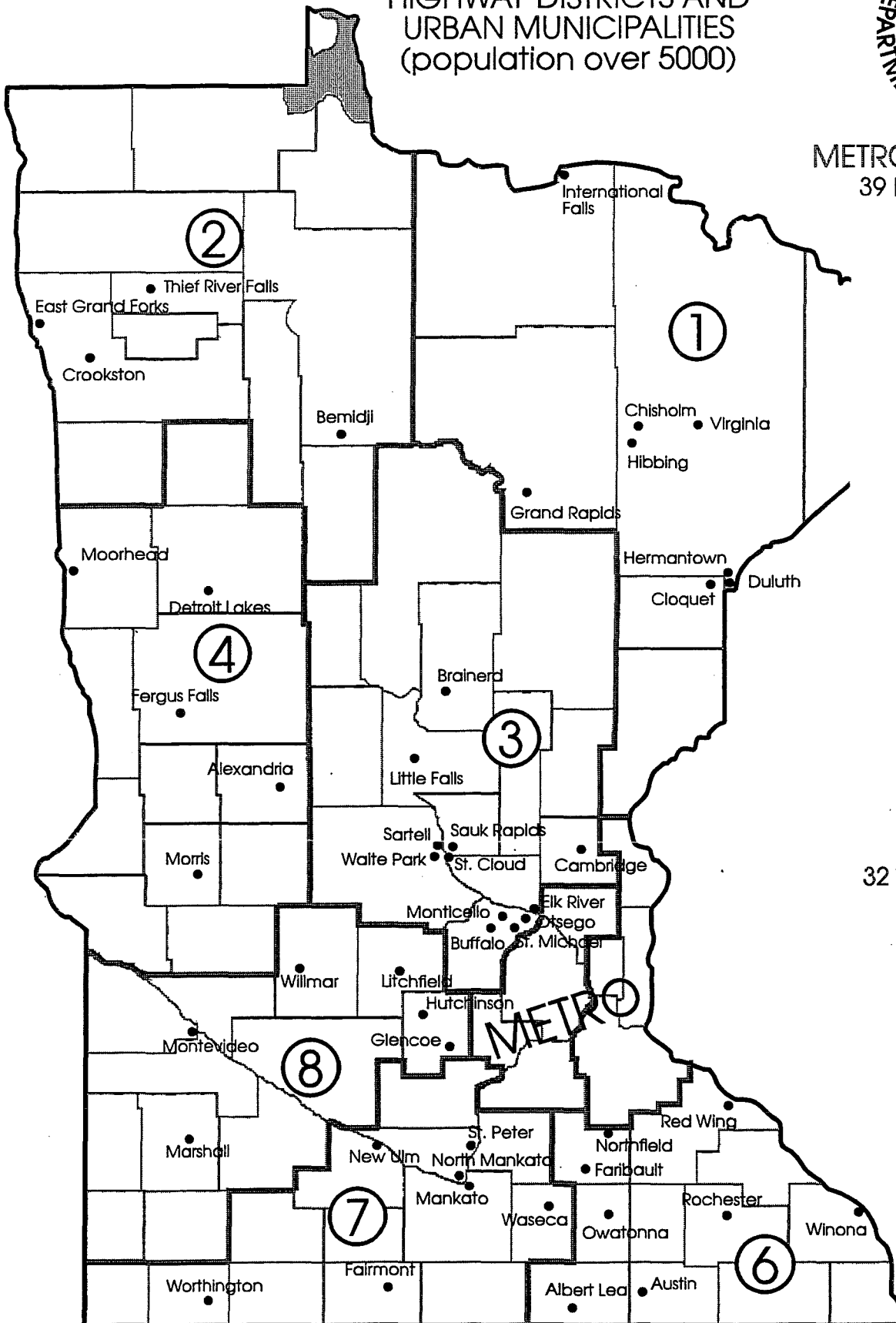
METRO MUNICIPALITIES

39 Metro West Cities

Andover
Anoka
Blaine
Bloomington
Brooklyn Center
Brooklyn Park
Champlin
Chanhassen
Chaska
Columbia Heights
Coon Rapids
Corcoran
Crystal
East Bethel
Eden Prairie
Edina
Fridley
Golden Valley
Ham Lake
Hopkins
Ino Lakes
Maple Grove
Minneapolis
Minnetonka
Mound
New Hope
Oak Grove
Orono
Plymouth
Prior Lake
Ramsey
Richfield
Robbinsdale
St. Anthony
St. Louis Park
Savage
Shakopee
Shorewood
Spring Lake Park

32 Metro East Cities

Apple Valley
Arden Hills
Burnsville
Cottage Grove
Eagan
Falcon Heights
Farmington
Forest Lake
Hastings
Hugo
Inver Grove Heights
Lake Elmo
Lakeville
Little Canada
Mahtomedi
Maplewood
Mendota Heights
Mounds View
New Brighton
North Branch
North St. Paul
Oakdale
Rosemount
Roseville
St. Paul
Shoreview
South St. Paul
Stillwater
Vadnais Heights
West St. Paul
White Bear Lake
Woodbury



1996 MUNICIPAL SCREENING BOARD

OFFICERS

Chairman	Brian Bachmeier	Oakdale	(612) 739-5086
Vice Chairman	Vacant		
Secretary	John Rodeberg	Hutchinson	(320) 234-4208

MEMBERS

<u>District</u>	<u>Served</u>	<u>Representative</u>		
1	2	Dave Halter	Grand Rapids	(218) 326-7602
2	3	Gary Sanders	East Grand Forks	(218) 773-1185
3	3	Curt Kreklau	Buffalo	(612) 682-1181
4	2	Gary Nansen	Detroit Lakes	(218) 847-5607
Metro-West	1	Jack Bittle	Champlin	(612) 421-1955
6	2	William Malin	Winona	(507) 457-8269
7	1	Larry Read	Fairmont	(507) 238-9461
8	3	John Rodeberg	Hutchinson	(320) 234-4208
Metro-East	1	Dave Jessup	Woodbury	(612) 731-5784
(Three Cities		Kenneth Larson	Duluth	(218) 723-3278
of the		Ramankutty Kannankutty	Minneapolis	(612) 673-2476
First Class)		Paul St. Martin	St. Paul	(612) 266-6118
<u>District</u>		<u>Alternates</u>		
1		David Salo	Hermantown	(218) 727-8796
2		David Kildahl	Crookston	(218) 281-6545
3		Terry Wotzka	Waite Park, Sauk Rapids	(320) 253-1000
4		Tim Schoonhoven	Alexandria	(320) 762-8149
Metro-West		Lee Gustafson	Minnetonka	(612) 939-8200
6		David Olson	Albert Lea	(507) 377-4325
7		Steven P. Koehler	New Ulm	(507) 359-8245
8		Daniel Sarff	Litchfield	(320) 231-3956
Metro-East		Mark Burch	White Bear Lake	(612) 429-8531

1996 SUBCOMMITTEES

The Screening Board Chairman appoints one city Engineer, who has served on the Screening Board, to serve a three year term on the Needs Study Subcommittee.

The past Chairman of the Screening Board is appointed to serve a three year term on the Unencumbered Construction Fund Subcommittee.

NEEDS STUDY SUBCOMMITTEE	UNENCUMBERED CONSTRUCTION FUNDS SUBCOMMITTEE
Bill Ottensmann - Chairman Coon Rapids (612) 755-2880 Expires in 1996	Alan Gray - Chairman Eden Prairie (612) 949-8300 Expires in 1996
Herb Reimer Moorhead (218) 299-5390 Expires in 1997	Kenneth Larson Duluth (218) 723-3278 Expires in 1997
Ken Saffert Mankato (507) 387-8631 Expires in 1998	David Sonnenberg Minneapolis (612) 673-2443 Expires in 1998

ALLOCATION STUDY SUBCOMMITTEE	
Ramankutty Kannankutty - Minneapolis	(612) 673-2456
Gerald Butcher - Maple Grove	(612) 420-4000
Tom Drake - Red Wing	(612) 227-6220
John Flora - Fridley	(612) 571-3450
Ken Larson - Duluth	(218) 723-3278
Bill Ottensmann - Coon Rapids	(612) 755-2880
Herb Reimer - Moorhead	(218) 299-5390

MUNICIPAL SCREENING BOARD REPRESENTATIVES**DISTRICTS**

YEAR	DISTRICT 1	DISTRICT 2	DISTRICT 3	DISTRICT 4	METRO WEST	DISTRICT 6	DISTRICT 7	DISTRICT 8	METRO EAST
1975	MADSEN	SANDERS	KNAPP	REIMER Moorhead	ASMUS Minnetonka	BOLLANT	MENK St. Peter	CARLSON	THENE
1976	BOYER	WIDSETH	KRIHA Brainerd	REIMER	ODLAND	ANDERSON Red Wing	MENK	ADEN Marshall	DAVIDSON Inver Gr. Hgts.
1977	PFUTZENREUTER Virginia	WIDSETH	KRIHA	RONNING Fergus Falls	ODLAND	ANDERSON	MENK	ADEN	DAVIDSON
1978	PFUTZENREUTER	WIDSETH	KRIHA	RONNING	BUTCHER Maple Grove	ANDERSON	PUTNAM New Ulm	ADEN	HONCHELL Roseville
1979	PFUTZENREUTER	VENCEL Bemidji	ENGSTRON Little Falls	RONNING	BUTCHER	ANDERSON	PUTNAM	CARLSON	HONCHELL
1980	MADSEN	VENCEL	ENGSTRON	REIMER	BUTCHER	LEUTH Owatonna	PUTNAM	CARLSON	SIMON S. St. Paul
1981	PFUTZENREUTER	WIDSETH	ENGSTRON	REIMER	ASMUS	LEUTH	ORTLOFF Waseca	CARLSON	KLEINSCHMIDT Inver Gr. Hgts.
1982	PFUTZENREUTER Virginia	FREEBERG Bemidji	DOLENTZ St. Cloud	BAKKEN Detroit Lakes	ASMUS	LEUTH	ORTLOFF	ADEN	KLEINSCHMIDT
1983	PRUSAK Cloquet	FREEBERG	DOLENTZ	BAKKEN	ASMUS	PLUMB Rochester	ORTLOFF	ADEN	KLEINSCHMIDT
1984	PRUSAK	FREEBERG	DOLENTZ	BAKKEN	RUDRUD Bloomington	PLUMB	MENK	ADEN	GATLIN White Bear Lk.
1985	PRUSAK	SANDERS	SCHWENINGER Brainerd	BAKKEN	RUDRUD	PLUMB	MENK	RODEBERG Montevideo	GATLIN
1986	BUSBY Hibbing	SANDERS	SCHWENINGER	EDWARDS Fergus Falls	RUDRUD	MURPHY Austin	MENK	RODEBERG	GATLIN
1987	BUSBY	SANDERS	SCHWENINGER	EDWARDS	OTTENSMANN Coon Rapids	MURPHY	HAFFIELD Worthington	RODEBERG	SIGGERUD Burnsville
1988	BUSBY	WALKER Th River Falls	MAURER Elk River	EDWARDS	OTTENSMANN	MURPHY	HAFFIELD	BETTENDORF Litchfield	SIGGERUD
1989	DRAGISICH Virginia	WALKER	MAURER	MOEN Alexandria	OTTENSMANN	DRAKE Red Wing	HAFFIELD	BETTENDORF	SIGGERUD
1990	DRAGISICH	WALKER	MAURER	MOEN	EASTLING Richfield	DRAKE	MCCLURG New Ulm	BETTENDORF	HAIDER Maplewood
1991	PRUSAK Cloquet	KILDAHL Crookston	WILLIAMSON Sauk Rapids	MOEN	EASTLING	DRAKE	MCCLURG	SWANSON Willmar	HAIDER
1992	PRUSAK	KILDAHL	WILLIAMSON	REIMER Moorhead	EASTLING	PUTNAM OWATONNA	MCCLURG	SWANSON	HAIDER
1993	PRUSAK	KILDAHL	WILLIAMSON	REIMER	ANDERSON Prior Lake	PUTNAM	SAFFERT Mankato	SWANSON	BACHMEIER Oakdale
1994	PRUSAK	BOELL Bemidji	KREKLAU Buffalo	REIMER	ANDERSON	PUTNAM	SAFFERT	VICTOR Marshall	BACHMEIER
1995	HALTER Grand Rapids	SANDERS E. Gr. Forks	KREKLAU	NANSEN Det. Lakes	ANDERSON	MALIN Winona	SAFFERT	RODEBERG Hutchinson	BACHMEIER
1996	HALTER	SANDERS	KREKLAU	NANSEN	BITTLE Champlin	MALIN	READ Fairmont	RODEBERG	JESSUP Woodbury

MUNICIPAL SCREENING BOARD REPRESENTATIVES

CITIES OF THE FIRST CLASS AND OFFICERS

YEAR	MPLS	ST. PAUL	DULUTH	CHAIR	VICE CHAIR	SECRETARY
1975	SORENSEN	SCHNARR	DAVIDSON	JOHNSON Anoka		COOK Faribault
1976	SORENSEN	SCHNARR	DAVIDSON	MERILA Brooklyn Park		ASMUS Minnetonka
1977	SORENSEN	SCHNARR	DAVIDSON	COOK Faribault	ASMUS Minnetonka	THENE Wt. Br. Lk.
1978	SMITH	WHEELER	DAVIDSON	ASMUS Minnetonka	THENE Wt. Br. Lk.	PRIEBE Hutchinson
1979	SMITH	WHEELER	DAVIDSON	PRIEBE Hutchinson	ADEN Marshall	BAKER Mankato
1980	SMITH	WHEELER	DAVIDSON	ADEN Marshall	BAKER Mankato	HONCHELL Roseville
1981	SMITH	PETERSON	DAVIDSON	BAKER Mankato	HONCHELL Roseville	SIMON S. St. Paul
1982	HOSHAW	PETERSON	DAVIDSON	HONCHELL Roseville	SIMON S. St. Paul	REIMER Moorhead
1983	HOSHAW	PETERSON	DAVIDSON	SIMON S. St. Paul	REIMER Moorhead	SPURRIER Shakopee
1984	HOSHAW	PETERSON	BERG	REIMER Moorhead	SPURRIER Shakopee	ANDERSON Prior Lake
1985	HOSHAW	PETERSON	CARLSON	SPURRIER Shakopee	ANDERSON Prior Lake	SAFFERT Mankato
1986	HOSHAW	PETERSON	CARLSON	ANDERSON Prior Lake	SAFFERT Mankato	MOORE Plymouth
1987	HOSHAW	KUHFELD	CARLSON	SAFFERT Mankato	MOORE Plymouth	RUDRUD Bloomington
1988	HOSHAW	KUHFELD	CARLSON	MOORE Plymouth	RUDRUD Bloomington	BULLERT Northfield
1989	HOSHAW	KUHFELD	LARSON	RUDRUD Bloomington	BULLERT Northfield	GRUBE St. Louis Park
1990	HOSHAW	KUHFELD	LARSON	BULLERT Northfield	GRUBE St. Louis Park	EDWARDS Fergus Falls
1991	HOSHAW	KUHFELD	LARSON	GRUBE St. Louis Park	EDWARDS Fergus Falls	GRAY Eden Prairie
1992	HOSHAW	KUHFELD	LARSON	EDWARDS Fergus Falls	GRAY Eden Prairie	LARSON Duluth
1993	SPURRIER	KUHFELD	LARSON	GRAY Eden Prairie	LARSON Duluth	SONNENBERG Minnetonka
1994	KANNANKUTTY	KUHFELD	LARSON	LARSON Duluth	SONNENBERG Minnetonka	SWANSON Willmar
1995	KANNANKUTTY	ST MARTIN	LARSON	SONNENBERG Minnetonka	SWANSON Willmar	BACHMEIER Oakdale
1996	KANNANKUTTY	ST MARTIN	LARSON	SONNENBERG BACHMEIER	BACHMEIER Oakdale	RODEBERG Hutchinson

MINUTES
SPRING MUNICIPAL STATE AID
SCREENING BOARD MEETING
JUNE 4 and 5, 1996

I. OPENING BY CHAIR SONNENBERG

The Spring 1996 Meeting of the Municipal Screening Board was called to order by Chair Dave Sonnenberg at 1:00 p.m. on Tuesday, June 4, 1996 at Ruttger's Bay Lake Lodge near Garrison, Minnesota. Chair Sonnenberg introduced Vice-Chair Brian Bachmeier of Oakdale; Herb Reimer representing the Needs Study Committee; State Aid Engineer Pat Murphy; Marshall Johnston, Assistant Manager of Municipal State Aid Needs; and Secretary John Rodeberg of Hutchinson.

A. ANNOUNCEMENTS

Chair Sonnenberg announced that Dale Swanson has taken a job in private practice and has therefore resigned as Chair. Dave has been appointed Chair for the Spring meeting. Vice-Chair Brian Bachmeier will become acting Chair for the Fall Screening Board meeting.

B. CALL TO ORDER

Secretary Rodeberg called the roll. The following were present:

Screening Board Members

District 1	Dave Halter	Grand Rapids
District 2	Gary Sanders	East Grand Forks
District 3	Curt Kreklau	Buffalo
District 4	Gary Nansen	Detroit Lakes
Metro-West	Jack Bittle	Champlin
District 6	William Malin	Winona
District 7	Larry Read	Fairmont
District 8	John Rodeberg (Sec./Treas.)	Hutchinson
Metro-East	David Jessup	Woodbury
Duluth	Ken Larson	
Minneapolis	Ramankutty Kannankutty	
St. Paul	Paul St. Martin	

Recognize Screening Board Alternates

District 2	Dave Kildahl	Crookston
District 3	Terry Wotzka	Waite Park, Sauk Rapids

Recognize Department of Transportation Personnel

Julie Skallman	Assistant State Aid Engineer
Ken Hoeschen	Manager, County State Aid Needs
Bill Croke	District 1 State Aid Engineer
Luane Tasa	District 2 State Aid Engineer
Mike Tardy	District 3 State Aid Engineer
Tallack Johnson	District 4 State Aid Engineer
Mike Pinsonneault	District 6 State Aid Engineer
Doug Haeder	District 7 State Aid Engineer
Tom Behm	District 8 State Aid Engineer
Bob Brown	Metro Division State Aid Engineer
Larry Urb	Metro Division

Recognize others in attendance

Herb Reimer	Needs Study Subcommittee/Allocation Study Subcommittee (Moorhead)
Dan Sabin	Minneapolis
Larry Veek	Minneapolis
Greg Peterson	St. Paul

C. OCTOBER SCREENING BOARD MINUTES

The October 24 and 25, 1995 Fall Meeting of the Municipal State Aid Screening Committee minutes were submitted for approval.

Motion by Ramankutty Kannankutty , second by Curt Kreklau to approve. Motion approved unanimously.

II. REVIEW OF NEEDS AND DATA REPORTS

A. MINUTES OF NEEDS STUDY SUBCOMMITTEE

Herb Reimer, member of subcommittee, reviewed the minutes and discussed the issues raised by the Subcommittee. He also discussed the "Special Drainage Needs" as outlined in the handout. Mr. Reimer and Chair Sonnenberg noted that additional discussion regarding items under "VI. New Needs Programs" and gravel equivalency and flexible pavements on low speed traffic areas will occur in the future, and will not be considered in motions at this meeting. Chair Sonnenberg asked for thoughts or comments. Discussion followed regarding term limits. Consensus from

representatives (except District 6) was that the 3-year term was appropriate, with the consideration that the alternate was at the Screening Board meetings for the year prior to their membership. It was also discussed that the issue of the term "Needs" will not be discussed further until additional review is completed. Consensus regarding Unit Price adjustments was that alternate year adjustments would be preferred. It was discussed that \$28,400 for Special Drainage - Rural may be more appropriate than the \$26,000 noted.

B. UNIT PRICE STUDY AND RECOMMENDATIONS

Marshall Johnston and Chair Sonnenberg discussed the Unit Price calculations and recommendations. The consensus of the board was that unit prices could be adjusted every other year. Discussion occurred on Bridge and Bituminous Unit Prices regarding the potential volatility of the cost, and the need to have the ability to adjust prices if necessary. It was agreed that some system to adjust costs, if necessary, should be included in any change of policy.

C. OTHER TOPICS

1. Bituminous Overlay Adjustment: The question was raised whether cities should receive "negative" needs adjustments for bituminous overlays and concrete joint repairs. Consensus was to eliminate the negative adjustment. Will be put on the agenda for action tomorrow.

2. County Road Turnbacks: Pat Murphy discussed his concerns regarding the clarity of the current policy. He noted that he expects the Screening Board to make a decision regarding which turnback option noted in the 1996 Municipal Screening Board Data Report should be followed. He indicated that he has no preference. Both options were discussed by the Screening Board. It was noted that Option #2 is being currently utilized. Consensus was that Option #2 was preferred. Action is proposed for tomorrow.

3. Screening Board Meeting Locations: Chair Sonnenberg noted that the Screening Board Chair, along with State Aid personnel, shall approve the dates and locations for Screening Board meetings. This was done to clarify Mn/DOT policy issues. It was noted that the Fall meeting shall be at Grandview Lodge in Nisswa.

4. "Needs" Review: It was recommended that the issue regarding the term "Needs" and the discussion of how this may be modified should be passed on to the Needs Study Committee.

5. Consideration of Allocation Study Committee Chair: It was noted that Larry Anderson has left the City of Prior Lake. It was recommended that Ramankutty Kannankutty replace him as Chair.

Motion by Ken Larson, seconded by Gary Nansen to approve. Motion passed unanimously.

6. Advanced Funding Discussion: Discussion of advanced funding confirmed that the funds came from the construction account, not the maintenance account. The State Aid rules were reviewed. It was noted that the guidelines regarding payback differ from the rules in that the guidelines require payback in the following year. It was recommended that this issue be included on the Fall Screening Board agenda.

III. CLOSING OF TUESDAY/OPENING OF WEDNESDAY SESSION

A. ADJOURNMENT

Motion by Dave Jessup, second by Bill Malin to adjourn until Wednesday morning at 8:30 a.m. was approved unanimously. Meeting adjourned at approximately 2:45 p.m.

B. CALL TO ORDER

The Wednesday, June 5 session of the Spring Screening Committee meeting was called back to order at 8:35 a.m.

IV. DISCUSSION AND FORMAL ACTION ON PROPOSALS

A. UNIT PRICE RECOMMENDATIONS

Minneapolis discussed issues regarding the expense of deep storm sewer tunnels that create a special need for funding. Some systems have significant flow from State Aid Routes. (Information only. Minneapolis to review actual magnitude of costs, and discuss issue with State Aid.).

Motion was made to approve the Special Drainage - Rural at \$28,400 as outlined by State Aid Staff, and approve Unit Prices .

Motion by Larry Read, second by Bill Malin to approve. Motion passed unanimously.

Motion to adjust Unit Prices every two years, with the ability to adjust significant unit price changes on a yearly basis.

Motion by Curt Kreklau, second by Dave Halter to approve. Motion passed unanimously.

B. BITUMINOUS OVERLAY ADJUSTMENT

Motion to eliminate the negative adjustment for bituminous overlays immediately.

Motion by Dave Jessup, second by R. Kannankutty to approve. Motion passed unanimously.

C. MUNICIPAL SCREENING BOARD TERMS

No change in Screening Board terms was recommended.

D. COUNTY ROAD TURNBACK POLICY REVISIONS

Pat Murphy discussed and clarified Option #2 (page 82, 1996 MSB Data), which was noted yesterday as the preference of the Screening Board. Dave Halter questioned the Legislative intent, which may relate more to Option #1. Pat clarified that Option #2 follows the intent of the statute. Discussion noted that the paragraph regarding supplemental certification was inadvertently omitted. First paragraph on the top of page 96 shall stay part of the policy.

Motion to remove section #2 and #3 of the previous resolution (page 96, 1996 MSB Data) and replace it with Option #2 as presented by State Aid, with the first paragraph of Option #2 deleted.

Motion by R. Kannankutty , second by Gary Nansen to approve. Motion passed unanimously.

F. CONSIDERATION OF SCREENING BOARD LOCATIONS

Motion to approve the Resolution as presented by State Aid.

Motion by Ken Larson, second by Larry Read to approve. Motion passed unanimously.

It was noted that the Fall Screening Board meeting is scheduled for October 22 and 23 at Grandview Lodge near Brainerd. To be verified by State Aid.

V. CLOSING COMMENTS BY PAT MURPHY

Pat Murphy discussed trunk highway turnback issues, and noted the studies that have been done regarding the potential demand and the available funding. He also noted the cities that now have populations over 5,000 that will be added to the MSA system. There are additional considerations for cities that have been previously over 5,000. New cities on the MSA system will be required to review their CSAH system to see what routes meet criteria for Municipal State Aid Routes. When submitting MSA routes, consideration shall be given to including those CSAH routes which more accurately conform to MSA routes. Special consideration shall be given to CSAH routes which were previously MSA routes.

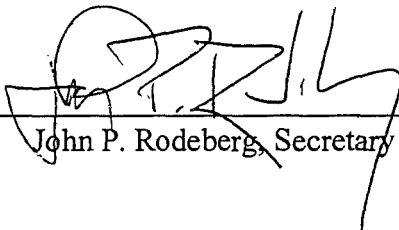
VI. CLOSING COMMENTS BY ACTING CHAIR **OF MUNICIPAL SCREENING BOARD**

The Committee expressed their sincere appreciation and thanks to Bill Ottensmann for Chairing the Needs Study Subcommittee, Herb Reimer for his help, and the Screening Board members for their involvement on the Board representing their districts. Dave Sonnenberg was thanked for filling in after the resignation of Dale Swanson. Ken Larson and Pat Murphy were thanked for their work on the CEAM "Expanded" Executive Committee meeting.

VII. ADJOURNMENT

Motion by Curt Kreklau, second by Jack Bittle to adjourn Spring Municipal Screening Board meeting. Motion passed unanimously: The meeting was adjourned at approximately 9:35 a.m.

RESPECTIVELY SUBMITTED,



John P. Rodeberg, Secretary

NEEDS, MILEAGE, AND APPORTIONMENT

The amount to be allocated in 1997 is unknown at this time so an estimated amount of \$ 90,740,650 is used in this report. This a similar amount that was used for the 1996 apportionment. The actual amount will be announced in January 1997 when the Commissioner of Transportation makes a determination of the 1997 apportionment.

The estimated Maintenance and Construction amounts are not computed in this booklet due to the city's option of receiving a minimum of \$1,500 per mile or a percentage up to a maximum of 35% of their total allocation for Maintenance. If a city desires to receive more than the minimum or make a change to their request on file to cover future maintenance, the city has to inform the State Aid Office prior to December 16 of their intention. A memo is sent prior to this date to each city engineer annually informing them of this option.

The continuous increase in M.S.A.S. mileage is due to the increase in the total improved local street mileage of which 20% is allowed for M.S.A. street designation, Trunk and County Turnbacks and the number of cities over 5,000 population.

M.S.A.S. Mileage, Needs and Apportionment 1958 to 1997

Appt. Year	Number of Municipalities	Needs Mileage	Actual 25 Year Apportment Needs	Total Apportment	Adjusted 25 Year Apportment Needs	Total Apportment Per Needs Mileage	Apportment Per \$1000 of Adjusted Needs
1958	58	920.40	\$190,373,337	\$7,286,074	190,373,337	\$7,916.20	\$19.1363
1959	59	938.36	195,749,800	8,108,428	195,749,800	8,641.06	20.7112
1960	59	968.82	197,971,488	8,370,596	197,971,488	8,639.99	21.1409
1961	77	1131.78	233,276,540	9,185,862	233,833,072	8,116.30	19.6419
1962	77	1140.83	223,014,549	9,037,698	225,687,087	7,922.04	20.0226
1963	77	1161.06	221,458,428	9,451,125	222,770,204	8,140.08	21.2127
1964	77	1177.11	218,487,546	10,967,128	221,441,346	9,317.00	24.7631
1965	77	1208.81	218,760,538	11,370,240	221,140,776	9,406.14	25.7081
1966	80	1271.87	221,992,032	11,662,274	224,052,248	9,169.39	26.0258
1967	80	1309.93	212,065,299	12,442,900	213,872,131	9,498.90	29.0896
1968	84	1372.36	214,086,481	14,287,775	215,508,764	10,411.10	33.1489
1969	85	1405.35	209,186,115	15,121,277	210,605,545	10,759.79	35.8995
1970	86	1427.59	205,103,981	16,490,064	206,350,399	11,550.98	39.9565
1971	85	1427.41	204,854,564	18,090,833	204,327,997	12,673.89	44.2691
1972	92	1490.86	216,734,617	18,338,440	217,235,062	12,300.58	42.2087
1973	94	1557.31	311,183,279	18,648,610	309,052,410	11,974.89	30.1706
1974	95	1574.52	324,787,253	21,728,373	321,833,693	13,800.00	34.0679
1975	99	1629.30	419,869,718	22,841,302	418,577,904	14,019.09	27.2844
1976	101	1696.56	448,678,585	22,793,386	444,038,715	13,435.06	25.6660
1977	101	1748.55	488,779,846	27,595,966	483,467,326	15,782.20	28.5396
1978	104	1768.90	494,433,948	27,865,892	490,165,460	15,753.23	28.3785
1979	106	1839.51	529,996,431	30,846,555	523,460,762	16,768.90	29.4188
1980	106	1889.03	623,880,689	34,012,618	609,591,579	18,005.34	27.8609
1981	106	1913.57	695,487,179	35,567,962	695,478,283	18,587.23	25.5442
1982	109	1995.74	712,299,816	42,032,978	699,123,117	21,061.35	30.0318
1983	110	2041.94	651,035,697	46,306,272	631,661,710	22,677.59	36.6326
1984	110	2066.80	641,783,969	48,735,190	619,497,928	23,580.02	39.3136
1985	111	2121.49	624,641,459	56,875,174	595,839,910	26,809.07	47.7144
1986	107	2139.42	552,944,830	59,097,819	543,890,225	27,623.29	54.3012
1987	107	2148.07	551,850,149	53,101,745	541,972,837	24,720.68	48.9738
1988	108	2164.99	555,994,519	58,381,022	529,946,820	26,965.95	55.0588
1989	109	2205.05	586,716,169	76,501,442	588,403,918	34,693.74	64.9777
1990	112	2265.64	969,735,729	81,517,107	969,162,426	35,979.73	41.9909
1991	113	2330.30	1,289,813,259	79,773,732	1,240,127,592	34,233.25	32.1058
1992	116	2376.79	1,374,092,030	81,109,752	1,330,349,165	34,125.75	30.4150
1993	116	2410.53	1,458,214,849	82,954,222	1,385,096,428	34,413.27	29.8910
1994	117	2471.04	1,547,661,937	80,787,856	1,502,960,398	32,693.87	26.8269
1995	118	2526.39	1,582,491,280	81,718,700	1,541,396,875	32,346.04	26.4612
1996	119	2608.32	1,650,207,587	90,740,650	1,630,143,518	34,788.93	27.8321
1997	121	2710.88	1,710,529,337	90,740,650	1,692,907,722	33,472.77	26.8002

The 1997 tentative apportionment used in this report is the same as the 1996 apportionment.

MSAS NEEDS MILEAGE COMPARISON

Mileage chart does not include mileage of the new cities added in 1996.

Municipality	1995 M.S.A.S. Needs Mileage	1996 M.S.A.S. Needs Mileage	Difference In Mileage	Municipality	1995 M.S.A.S. Needs Mileage	1996 M.S.A.S. Needs Mileage	Difference In Mileage
Albert Lea	18.65	18.65	0.00	Fergus Falls	13.74	21.86	8.12
Alexandria	12.39	13.68	1.29	Forest Lake	3.69	5.53	1.84
Andover	30.83	33.99	3.16	Fridley	25.34	25.34	0.00
Anoka	11.98	11.98	0.00	Golden Valley	23.55	23.55	0.00
Apple Valley	31.23	31.25	0.02	Grand Rapids	11.36	11.36	0.00
Arden Hills	6.33	6.57	0.24	Ham Lake	22.85	22.85	0.00
Austin	26.73	26.73	0.00	Hastings	14.45	16.62	2.17
Bemidji	14.31	14.35	0.04	Hermantown	12.99	12.99	0.00
Blaine	32.78	32.78	0.00	Hibbing	50.74	50.74	0.00
Bloomington	73.73	73.73	0.00	Hopkins	9.41	9.41	0.00
Brainerd	14.25	14.25	0.00	Hugo	15.21	15.21	0.00
Brooklyn Center	21.30	21.67	0.37	Hutchinson	11.16	14.73	3.57
Brooklyn Park	45.33	45.33	0.00	International Falls	8.06	8.06	0.00
Buffalo	7.58	9.00	1.42	Inver Grove Heights	19.95	24.66	4.71
Burnsville	43.67	43.69	0.02	Lake Elmo	9.53	9.53	0.00
Cambridge	5.49	5.80	0.31	Lakeville	40.62	41.68	1.06
Champlin	15.22	15.22	0.00	Lino Lakes	17.24	15.57	-1.67
Chanhassen	20.10	21.53	1.43	Litchfield	7.83	8.06	0.23
Chaska	13.85	13.65	-0.20	Little Canada	6.49	6.77	0.28
Chisholm	7.68	7.68	0.00	Little Falls	13.77	13.71	-0.06
Cloquet	18.05	19.78	1.73	Mahtomedi	4.55	4.55	0.00
Columbia Heights	11.65	12.53	0.88	*Mankato	31.68	31.67	-0.01
Coon Rapids	39.03	37.67	-1.36	Maple Grove	39.60	41.35	1.75
Corcoran	13.60	14.18	0.58	Maplewood	19.18	19.01	-0.17
Cottage Grove	29.41	29.32	-0.09	Marshall	12.39	12.73	0.34
Crookston	10.91	11.12	0.21	Mendota Heights	11.68	13.51	1.83
Crystal	17.88	17.88	0.00	*Minneapolis	193.94	194.76	0.82
Detroit Lakes	9.54	9.54	0.00	Minnetonka	49.68	49.94	0.26
Duluth	90.34	105.92	15.58	Montevideo	7.89	8.08	0.19
Eagan	44.31	44.31	0.00	Monticello	5.99	5.99	0.00
East Bethel	23.66	24.64	0.98	*Moorhead	28.67	28.18	-0.49
East Grand Forks	10.82	11.82	1.00	Morris	6.66	6.66	0.00
Eden Prairie	42.40	42.76	0.36	Mound	8.05	8.05	0.00
Edina	39.36	39.36	0.00	Mounds View	8.44	9.82	1.38
Elk River	24.01	24.58	0.57	New Brighton	13.42	14.17	0.75
Fairmont	19.38	19.38	0.00	New Hope	12.72	12.70	-0.02
Falcon Heights	2.54	2.54	0.00	New Ulm	14.13	14.15	0.02
Faribault	21.46	21.40	-0.06	North Branch	15.64	15.64	0.00
Farmington	8.72	10.65	1.93	North Mankato	11.86	11.86	0.00

Municipality	1995 M.S.A.S. Needs Mileage	1996 M.S.A.S. Needs Mileage	Difference In Mileage
North St. Paul	9.08	10.68	1.60
Northfield	11.25	11.25	0.00
Oak Grove	17.97	19.01	1.04
Oakdale	16.72	16.72	0.00
Orono	12.07	12.58	0.51
Otsego	13.08	13.08	0.00
Owatonna	17.51	17.57	0.06
Plymouth	46.56	48.84	2.28
Prior Lake	13.08	15.17	2.09
Ramsey	28.62	28.73	0.11
* Red Wing	22.07	22.59	0.52
Richfield	26.21	26.21	0.00
Robbinsdale	10.33	10.33	0.00
Rochester	49.16	55.20	6.04
Rosemount	21.34	21.34	0.00
Roseville	23.45	28.70	5.25
St. Anthony	5.18	5.18	0.00
St. Cloud	39.02	49.74	10.72
St. Louis Park	28.72	28.70	-0.02
* St. Paul	159.69	159.58	-0.11
St. Peter	10.59	10.59	0.00
Sartell	5.05	7.16	2.11
Sauk Rapids	9.03	9.03	0.00
Savage	14.69	14.69	0.00
Shakopee	16.17	19.33	3.16
Shoreview	13.69	14.75	1.06
Shorewood	9.29	9.29	0.00
South St. Paul	14.33	14.72	0.39
Spring Lake Park	5.24	5.23	-0.01
Stillwater	12.80	12.80	0.00
Thief River Falls	13.56	13.56	0.00
Vadnais Heights	6.77	6.86	0.09
Virginia	12.33	12.33	0.00
Waite Park	4.46	6.45	1.99
Waseca	6.31	6.31	0.00
West St. Paul	12.12	12.12	0.00
White Bear Lake	18.34	20.03	1.69
Willmar	23.30	23.91	0.61
Winona	19.62	21.75	2.13
Woodbury	34.80	37.00	2.20
Worthington	9.81	9.81	0.00
TOTAL	2608.06	2710.88	102.82

* Total of these cities includes mileage that is considered as 1/2 milege.

Theoretical 1997 M.S.A.S. Population Apportionment

The State Demographer's and Metropolitan Council's 1995 population estimates along with the Federal Census will be used to allocate 50% of the funds in the 1997 apportionment.

The estimate was used to compute the projected population apportionment when the City's population was larger than the 1990 census or special census. The census was used if the estimate indicated a lower population.

Fifty percent of the total sum is distributed on a prorated share that each city population bears to the total population. Each city will earn approximately \$15.01 per capita in apportionment from the 1997 population apportionment distribution. This projection will be somewhat revised when the actual revenue for the 1997 apportionment becomes available or if additional cities should exceed 5,000 population prior to January 1, 1997.

The following adjustments were made to the 1990 census and the 1995 estimate due to annexations and detachments.

Austin	+ 20	Otsego	+ 167
Cambridge	+ 2	Sartell	+ 209
Fergus Falls	+ 213	Winona	+ 851

The City of Glencoe, located about 28 miles west of Chaska, took a special census and became the 120th city with a population of 5,145.

St. Michael which incorporated most of Frankfort Township became the 121st city with a population of 6,559. The new city is located Southwest of Otsego.

Both new cities are included in the needs and population apportionment computation in this booklet.

1997 TENTATIVE POPULATION APPORTIONMENT

(The allocation per Capita equals approximately \$15.01)

The 1990 Census and the 1995 Estimate includes population increases or decreases due to annexations or detachments.

		Population Used for 1996 Allocation	Tentative Population Used for 1997 Allocation	1996 Apportionment Using 1990 Census or 94 Estimate	Tentative 1997 Apport. Using 1990 Census or 95 Estimate	Tentative Difference Between 96 & 97 Apport.
Municipality						
***	Albert Lea	18,338	18,310	\$279,603	\$274,771	(\$4,832)
	Alexandria	8,251	8,274	125,805	124,165	(1,640)
	Andover	19,465	20,497	296,786	307,591	10,805
	Anoka	17,509	17,533	266,963	263,111	(3,852)
	Apple Valley	39,188	40,684	597,507	610,530	13,023
	Arden Hills	9,426	9,560	143,720	143,463	(257)
	Austin	22,062	22,055	336,383	330,971	(5,412)
	Bemidji	11,494	11,422	175,251	171,406	(3,845)
	Blaine	41,658	42,268	635,167	634,300	(867)
	Bloomington	86,683	86,912	1,321,672	1,304,257	(17,415)
	Brainerd	12,521	12,579	190,910	188,768	(2,142)
***	Brooklyn Center	28,887	28,887	440,445	433,497	(6,948)
	Brooklyn Park	58,471	59,832	891,518	897,877	6,359
	Buffalo	7,722	7,994	117,739	119,963	2,224
	Burnsville	54,525	55,550	831,353	833,619	2,266
	Cambridge	5,222	5,325	79,621	79,910	289
	Champlin	19,030	19,154	290,154	287,437	(2,717)
	Chanhassen	14,316	15,231	218,279	228,566	10,287
	Chaska	13,721	14,000	209,207	210,093	886
***	Chisholm	5,290	5,290	80,658	79,385	(1,273)
	Cloquet	11,070	11,160	168,786	167,474	(1,312)
***	Columbia Heights	18,910	18,910	288,324	283,775	(4,549)
	Coon Rapids	58,991	59,981	899,447	900,113	666
	Corcoran	5,508	5,549	83,981	83,272	(709)
	Cottage Grove	26,675	27,726	406,719	416,074	9,355
	Crookston	8,163	8,135	124,463	122,079	(2,384)
***	Crystal	23,788	23,788	362,700	356,978	(5,722)
	Detroit Lakes	7,301	7,317	111,320	109,804	(1,516)
	Duluth	85,746	85,665	1,307,385	1,285,543	(21,842)
	Eagan	54,957	56,681	837,939	850,591	12,652

	Population Used for 1996 Allocation	Tentative Population Used for 1997 Allocation	1996 Apportionment Using 1990 Census or 94 Estimate	Tentative 1997 Apport. Using 1990 Census or 95 Estimate	Tentative Difference Between 96 & 97 Apport.
Municipality					
East Bethel	8,702	8,995	\$132,681	\$134,985	\$2,304
East Grand Forks	8,947	8,983	136,417	134,805	(1,612)
Eden Prairie	44,189	46,310	673,758	694,957	21,199
Edina	46,841	46,845	714,193	702,986	(11,207)
Elk River	12,811	13,286	195,332	199,378	4,046
Fairmont	11,350	11,340	173,056	170,175	(2,881)
*** Falcon Heights	5,380	5,380	82,030	80,736	(1,294)
Faribault	18,492	18,727	281,951	281,029	(922)
Farmington	6,870	7,708	104,748	115,671	10,923
Fergus Falls	12,596	12,876	192,054	193,225	1,171
Forest Lake	6,397	6,538	97,536	98,113	577
*** Fridley	28,335	28,335	432,029	425,213	(6,816)
** Glencoe	0	5,145	0	77,209	77,209
*** Golden Valley	20,971	20,971	319,749	314,704	(5,045)
Grand Rapids	8,163	8,159	124,463	122,439	(2,024)
Ham Lake	9,825	10,243	149,804	153,713	3,909
Hastings	16,200	16,392	247,004	245,989	(1,015)
Hermantown	7,237	7,093	110,344	106,442	(3,902)
*** Hibbing	18,046	18,046	275,151	270,810	(4,341)
Hopkins	16,536	16,573	252,127	248,705	(3,422)
** Hugo	5,223	5,324	79,636	79,895	259
Hutchinson	12,174	12,505	185,619	187,658	2,039
*** International Falls	8,301	8,301	126,567	124,570	(1,997)
Inver Grove Heights	25,243	26,012	384,885	390,353	5,468
Lake Elmo	6,072	6,148	92,581	92,261	(320)
* Lakeville	33,274	34,292	507,335	514,608	7,273
Lino Lakes	12,266	13,097	187,022	196,542	9,520
Litchfield	6,138	6,133	93,587	92,036	(1,551)
Little Canada	9,225	9,337	140,655	140,117	(538)
Little Falls	7,595	7,595	115,802	113,975	(1,827)
Mahtomedi	6,353	6,543	96,865	98,188	1,323
Mankato	31,913	31,977	486,583	479,867	(6,716)
Maple Grove	43,542	44,313	663,893	664,989	1,096
Maplewood	32,903	33,533	501,678	503,217	1,539
Marshall	12,397	12,331	189,019	185,047	(3,972)

	Municipality	Population Used for 1996 Allocation	Tentative Population Used for 1997 Allocation	1996 Apportionment Using 1990 Census or 94 Estimate	Tentative 1997 Apport. Using 1990 Census or 95 Estimate	Tentative Difference Between 96 & 97 Apport.
	Mendota Heights	10,636	10,757	\$162,169	\$161,426	(\$743)
***	Minneapolis	368,383	368,383	5,616,803	5,528,189	(88,614)
	Minnetonka	50,569	50,927	771,035	764,243	(6,792)
	Montevideo	5,519	5,505	84,149	82,612	(1,537)
	Monticello	5,527	5,885	84,271	88,314	4,043
	Moorhead	33,618	33,675	512,580	505,348	(7,232)
	Morris	5,647	5,627	86,101	84,442	(1,659)
***	Mound	9,634	9,634	146,891	144,574	(2,317)
	Mounds View	12,552	12,561	191,383	188,498	(2,885)
	New Brighton	22,328	22,538	340,439	338,220	(2,219)
***	New Hope	21,853	21,853	333,197	327,940	(5,257)
	New Ulm	13,477	13,628	205,486	204,510	(976)
****	North Branch	5,140	5,354	78,371	80,346	1,975
	North Mankato	11,183	11,340	170,509	170,175	(334)
	North St. Paul	12,809	12,813	195,301	192,280	(3,021)
	Northfield	15,352	15,667	234,075	235,109	1,034
****	Oak Grove	5,997	6,097	91,437	91,495	58
	Oakdale	22,933	23,835	349,664	357,683	8,019
	Orono	7,444	7,476	113,500	112,190	(1,310)
	Otsego	6,017	6,283	91,742	94,287	2,545
	Owatonna	20,280	20,433	309,213	306,631	(2,582)
	Plymouth	57,391	58,960	875,051	884,791	9,740
	Prior Lake	12,559	13,129	191,489	197,022	5,533
	Ramsey	14,907	15,805	227,290	237,180	9,890
	Red Wing	15,645	15,701	238,542	235,619	(2,923)
***	Richfield	35,710	35,710	544,477	535,887	(8,590)
***	Robbinsdale	14,396	14,396	219,498	216,036	(3,462)
	Rochester	76,865	76,559	1,171,975	1,148,893	(23,082)
	Rosemount	11,086	11,721	169,030	175,893	6,863
	Roseville	33,674	33,942	513,434	509,355	(4,079)
	St. Anthony	7,939	8,362	121,047	125,485	4,438
	St. Cloud	58,253	58,566	888,194	878,879	(9,315)
***	St. Louis Park	43,787	43,787	667,628	657,096	(10,532)
****	St. Michael	0	6,559	0	98,429	98,429
***	St. Paul	272,235	272,235	4,150,817	4,085,331	(65,486)

Municipality	Population Used for 1996 Allocation	Tentative Population Used for 1997 Allocation	1996 Apportionment Using 1990 Census or 94 Estimate	Tentative 1997 Apport. Using 1990 Census or 95 Estimate	Tentative Difference Between 96 & 97 Apport.
St. Peter	9,782	9,833	\$149,148	\$147,560	(\$1,588)
Sartell	6,455	7,052	98,421	105,827	7,406
Sauk Rapids	8,946	9,216	136,401	138,301	1,900
Savage	13,703	14,444	208,932	216,756	7,824
Shakopee	13,041	13,752	198,839	206,371	7,532
Shoreview	25,957	26,049	395,771	390,908	(4,863)
Shorewood	6,613	6,794	100,830	101,955	1,125
South St. Paul	20,396	20,255	310,982	303,959	(7,023)
Spring Lake Park	6,628	6,717	101,058	100,800	(258)
Stillwater	15,350	15,649	234,044	234,839	795
Thief River Falls	8,043	8,053	122,633	120,848	(1,785)
Vadnais Heights	11,968	12,342	182,478	185,212	2,734
*** Virginia	9,431	9,431	143,796	141,528	(2,268)
Waite Park	5,903	5,922	90,004	88,869	(1,135)
*** Waseca	8,385	8,385	127,848	125,831	(2,017)
West St. Paul	19,332	19,421	294,759	291,444	(3,315)
White Bear Lake	25,804	25,849	393,438	387,907	(5,531)
Willmar	18,544	18,688	282,743	280,444	(2,299)
Winona	25,805	26,623	393,453	399,522	6,069
* Woodbury	28,627	31,258	436,480	469,077	32,597
Worthington	10,200	10,260	155,520	153,969	(1,551)
TOTAL	2,975,653	3,023,351	\$45,370,325	\$45,370,325	\$0

* Took special census after the 1990 census.

** Took special census after the 1990 census and became a city over 5,000.

*** Used the 1990 census plus population adjustments for annexations or detachments (if any) for allocation.

**** Incorporated after the 1990 census.

Population apportionment equals total population apportionment divided by total population times the city's population.

1997 \$45,370,325 Equals \$15.00663502 Per person
Apport. 3,023,351

1996 \$45,370,325 Equals \$15.24718272 Per person
Apport. 2,975,653

1997 TENTATIVE POPULATION COMPARISON
(The allocation per Capita equals approximately \$15.01)

The 1990 Census and the 1995 Estimate includes population increases or decreases due to annexations or detachments.

		1990 or Special Census	1994 Population Estimate	1995 Population Estimate	Difference between 94 & 95 Estimate	Difference between 95 Estimate & 90 Census	Tentative Population used for 1997 Allocation	Tentative Allocation if only Census was used	Tentative Allocation Using 1990 Census or 95 Estimate	Difference Between Using Census & 95 Estimate
***	Albert Lea	18,310	18,338	18,207	(131)	(103)	18,310	\$290,210	\$274,771	(\$15,439)
	Alexandria	8,029	8,251	8,274	23	245	8,274	127,258	124,165	(3,093)
	Andover	15,216	19,465	20,497	1,032	5,281	20,497	241,171	307,591	66,420
	Anoka	17,192	17,509	17,533	24	341	17,533	272,490	263,111	(9,379)
	Apple Valley	34,598	39,188	40,684	1,496	6,086	40,684	548,372	610,530	62,158
	Arden Hills	9,199	9,426	9,560	134	361	9,560	145,803	143,463	(2,340)
	Austin	21,973	22,062	22,055	(7)	82	22,055	348,268	330,971	(17,297)
	Bemidji	11,166	11,494	11,422	(72)	256	11,422	176,979	171,406	(5,573)
	Blaine	38,975	41,658	42,268	610	3,293	42,268	617,747	634,300	16,553
	Bloomington	86,335	86,683	86,912	229	577	86,912	1,368,395	1,304,257	(64,138)
***	Brainerd	12,353	12,521	12,579	58	226	12,579	195,793	188,768	(7,025)
	Brooklyn Center	28,887	28,484	28,463	(21)	(424)	28,887	457,854	433,497	(24,357)
	Brooklyn Park	56,381	58,471	59,832	1,361	3,451	59,832	893,629	897,877	4,248
	Buffalo	7,302	7,722	7,994	272	692	7,994	115,735	119,963	4,228
	Burnsville	51,288	54,525	55,550	1,025	4,262	55,550	812,906	833,619	20,713
	Cambridge	5,102	5,222	5,325	103	223	5,325	80,866	79,910	(956)
	Champlin	16,849	19,030	19,154	124	2,305	19,154	267,054	287,437	20,383
	Chanhassen	11,736	14,316	15,231	915	3,495	15,231	186,014	228,566	42,552
	Chaska	11,339	13,721	14,000	279	2,661	14,000	179,721	210,093	30,372
***	Chisholm	5,290	5,220	5,170	(50)	(120)	5,290	83,846	79,385	(4,461)
***	Cloquet	10,885	11,070	11,160	90	275	11,160	172,525	167,474	(5,051)
	Columbia Heights	18,910	18,882	18,681	(201)	(229)	18,910	299,720	283,775	(15,945)
	Coon Rapids	52,978	58,991	59,981	990	7,003	59,981	839,692	900,113	60,421
	Corcoran	5,199	5,508	5,549	41	350	5,549	82,403	83,272	869
	Cottage Grove	22,935	26,675	27,726	1,051	4,791	27,726	363,516	416,074	52,558
***	Crookston	8,119	8,163	8,135	(28)	16	8,135	128,685	122,079	(6,606)
	Crystal	23,788	23,703	23,661	(42)	(127)	23,788	377,036	356,978	(20,058)
	Detroit Lakes	7,147	7,301	7,317	16	170	7,317	113,279	109,804	(3,475)
	Duluth	85,493	85,746	85,665	(81)	172	85,665	1,355,049	1,285,543	(69,506)
	Eagan	47,409	54,957	56,681	1,724	9,272	56,681	751,425	850,591	99,166

Municipality	1990 or Special Census	1994 Population Estimate	1995 Population Estimate	Difference between 94 & 95 Estimate	Difference between 95 Estimate & 90 Census	Tentative Population used for 1997 Allocation	Tentative Allocation if only Census was used	Tentative 1997 Allocation Using 1990 Census or 95 Estimate	Difference Between Using Census & 95 Estimate
East Bethel	8,050	8,702	8,995	293	945	8,995	\$127,591	\$134,985	\$7,394
East Grand Forks	8,658	8,947	8,983	36	325	8,983	137,228	134,805	(2,423)
Eden Prairie	39,311	44,189	46,310	2,121	6,999	46,310	623,073	694,957	71,884
Edina	46,075	46,841	46,845	4	770	46,845	730,281	702,986	(27,295)
Elk River	11,143	12,811	13,286	475	2,143	13,286	176,615	199,378	22,763
Fairmont	11,265	11,350	11,340	(10)	75	11,340	178,548	170,175	(8,373)
*** Falcon Heights	5,380	5,297	5,355	58	(25)	5,380	85,272	80,736	(4,536)
Faribault	17,090	18,492	18,727	235	1,637	18,727	270,874	281,029	10,155
Farmington	5,940	6,870	7,708	838	1,768	7,708	94,148	115,671	21,523
Fergus Falls	12,701	12,596	12,876	280	175	12,876	201,309	193,225	(8,084)
Forest Lake	6,008	6,397	6,538	141	530	6,538	95,226	98,113	2,887
*** Fridley	28,335	28,104	28,204	100	(131)	28,335	449,105	425,213	(23,892)
** Glencoe	5,145	5,145	5,145	5,145	0	5,145	81,547	77,209	(4,338)
*** Golden Valley	20,971	20,947	20,911	(36)	(60)	20,971	332,387	314,704	(17,683)
Grand Rapids	7,976	8,163	8,159	(4)	183	8,159	126,418	122,439	(3,979)
Ham Lake	8,924	9,825	10,243	418	1,319	10,243	141,444	153,713	12,269
Hastings	15,478	16,200	16,392	192	914	16,392	245,324	245,989	665
Hermantown	6,761	7,237	7,093	(144)	332	7,093	107,161	106,442	(719)
*** Hibbing	18,046	17,964	17,857	(107)	(189)	18,046	286,026	270,810	(15,216)
Hopkins	16,529	16,536	16,573	37	44	16,573	261,982	248,705	(13,277)
** Hugo	5,223	5,208	5,324	116	101	5,324	82,784	79,895	(2,889)
Hutchinson	11,459	12,174	12,505	331	1,046	12,505	181,623	187,658	6,035
*** International Falls	8,301	7,811	7,828	17	(473)	8,301	131,569	124,570	(6,999)
Inver Grove Height	22,477	25,243	26,012	769	3,535	26,012	356,257	390,353	34,096
Lake Elmo	5,874	6,072	6,148	76	274	6,148	93,102	92,261	(841)
* Lakeville	33,274	32,978	34,292	1,314	1,018	34,292	527,387	514,608	(12,779)
Lino Lakes	8,807	12,266	13,097	831	4,290	13,097	139,589	196,542	56,953
Litchfield	6,090	6,138	6,133	(5)	43	6,133	96,525	92,036	(4,489)
Little Canada	8,971	9,225	9,337	112	366	9,337	142,189	140,117	(2,072)
Little Falls	7,371	7,595	7,595	0	224	7,595	116,829	113,975	(2,854)
Mahtomedi	5,633	6,353	6,543	190	910	6,543	89,282	98,188	8,906
Mankato	31,412	31,913	31,977	64	565	31,977	497,875	479,867	(18,008)
Maple Grove	38,736	43,542	44,313	771	5,577	44,313	613,959	664,989	51,030
Maplewood	30,954	32,903	33,533	630	2,579	33,533	490,616	503,217	12,601
Marshall	12,023	12,397	12,331	(66)	308	12,331	190,562	185,047	(5,515)

		1990 or Special Census	1994 Population Estimate	1995 Population Estimate	Difference between 94 & 95 Estimate	Difference between 95 Estimate & 90 Census	Tentative Population used for 1997 Allocation	Tentative Allocation if only Census was used	Tentative 1997 Allocation Using 1990 Census or 95 Estimate	Difference Between Using Census & 95 Estimate
***	Mendota Heights	9,388	10,636	10,757	121	1,369	10,757	\$148,798	\$161,426	\$12,628
***	Minneapolis	368,383	366,480	365,889	(591)	(2,494)	368,383	5,838,807	5,528,189	(310,618)
	Minnetonka	48,370	50,569	50,927	358	2,557	50,927	766,656	764,243	(2,413)
	Montevideo	5,499	5,519	5,505	(14)	6	5,505	87,158	82,612	(4,546)
	Monticello	5,045	5,527	5,885	358	840	5,885	79,962	88,314	8,352
	Moorhead	32,295	33,618	33,675	57	1,380	33,675	511,870	505,348	(6,522)
	Morris	5,613	5,647	5,627	(20)	14	5,627	88,965	84,442	(4,523)
***	Mound	9,634	9,592	9,584	(8)	(50)	9,634	152,697	144,574	(8,123)
	Mounds View	12,541	12,552	12,561	9	20	12,561	198,773	188,498	(10,275)
	New Brighton	22,207	22,328	22,538	210	331	22,538	351,977	338,220	(13,757)
***	New Hope	21,853	21,651	21,646	(5)	(207)	21,853	346,366	327,940	(18,426)
	New Ulm	13,132	13,477	13,628	151	496	13,628	208,140	204,510	(3,630)
****	North Branch	5,140	5,140	5,354	214	214	5,354	81,468	80,346	(1,122)
	North Mankato	10,662	11,183	11,340	157	678	11,340	168,991	170,175	1,184
	North St. Paul	12,376	12,809	12,813	4	437	12,813	196,157	192,280	(3,877)
	Northfield	14,684	15,352	15,667	315	983	15,667	232,739	235,109	2,370
****	Oak Grove	5,488	5,997	6,097	100	609	6,097	86,984	91,495	4,511
	Oakdale	18,403	22,933	23,835	902	5,432	23,835	291,684	357,683	65,999
	Orono	7,285	7,444	7,476	32	191	7,476	115,466	112,190	(3,276)
	Otsego	5,380	6,017	6,283	266	903	6,283	85,272	94,287	9,015
	Owatonna	19,386	20,280	20,433	153	1,047	20,433	307,265	306,631	(634)
	Plymouth	50,889	57,391	58,960	1,569	8,071	58,960	806,582	884,791	78,209
	Prior Lake	11,482	12,559	13,129	570	1,647	13,129	181,988	197,022	15,034
	Ramsey	12,408	14,907	15,805	898	3,397	15,805	196,665	237,180	40,515
	Red Wing	15,134	15,645	15,701	56	567	15,701	239,871	235,619	(4,252)
***	Richfield	35,710	35,261	35,237	(24)	(473)	35,710	565,997	535,887	(30,110)
***	Robbinsdale	14,396	14,255	14,206	(49)	(190)	14,396	228,174	216,036	(12,138)
	Rochester	70,981	76,865	76,559	(306)	5,578	76,559	1,125,037	1,148,893	23,856
	Rosemount	8,622	11,086	11,721	635	3,099	11,721	136,657	175,893	39,236
	Roseville	33,485	33,674	33,942	268	457	33,942	530,732	509,355	(21,377)
	St. Anthony	7,727	7,939	8,362	423	635	8,362	122,472	125,485	3,013
	St. Cloud	56,954	58,253	58,566	313	1,612	58,566	902,711	878,879	(23,832)
***	St. Louis Park	43,787	43,641	43,568	(73)	(219)	43,787	694,016	657,096	(36,920)
****	St. Michael	6,559		6,559	6,559	0	6,559	103,959	98,429	(5,530)
***	St. Paul	272,235	271,660	271,120	(540)	(1,115)	272,235	4,314,878	4,085,331	(229,547)

Municipality	1990 or Special Census	1994 Population Estimate	1995 Population Estimate	Difference between 94 & 95 Estimate	Difference between 95 Estimate & 90 Census	Tentative Population used for 1997 Allocation	Tentative Allocation if only Census was used	Tentative 1997 Allocation Using 1990 Census or 95 Estimate	Difference Between Using Census & 95 Estimate
St. Peter	9,481	9,782	9,833	51	352	9,833	\$150,272	\$147,560	(\$2,712)
Sartell	5,661	6,455	7,052	597	1,391	7,052	89,726	105,827	16,101
Sauk Rapids	7,823	8,946	9,216	270	1,393	9,216	123,993	138,301	14,308
Savage	9,906	13,703	14,444	741	4,538	14,444	157,008	216,756	59,748
Shakopee	11,739	13,041	13,752	711	2,013	13,752	186,061	206,371	20,310
Shoreview	24,587	25,957	26,049	92	1,462	26,049	389,700	390,908	1,208
Shorewood	5,913	6,613	6,794	181	881	6,794	93,720	101,955	8,235
South St. Paul	20,197	20,396	20,255	(141)	58	20,255	320,119	303,959	(16,160)
Spring Lake Park	6,532	6,628	6,717	89	185	6,717	103,531	100,800	(2,731)
Stillwater	13,882	15,350	15,649	299	1,767	15,649	220,027	234,839	14,812
Thief River Falls	8,010	8,043	8,053	10	43	8,053	126,957	120,848	(6,109)
Vadnais Heights	11,041	11,968	12,342	374	1,301	12,342	174,998	185,212	10,214
*** Virginia	9,431	9,232	9,173	(59)	(258)	9,431	149,480	141,528	(7,952)
*** Waite Park	5,453	5,903	5,922	19	469	5,922	86,429	88,869	2,440
*** Waseca	8,385	8,184	8,263	79	(122)	8,385	132,901	125,831	(7,070)
West St. Paul	19,248	19,332	19,421	89	173	19,421	305,078	291,444	(13,634)
White Bear Lake	24,622	25,804	25,849	45	1,227	25,849	390,254	387,907	(2,347)
Willmar	17,531	18,544	18,688	144	1,157	18,688	277,863	280,444	2,581
Winona	26,286	25,805	26,623	818	337	26,623	416,630	399,522	(17,108)
* Woodbury	26,900	28,627	31,258	2,631	4,358	31,258	426,361	469,077	42,716
Worthington	9,977	10,200	10,260	60	283	10,260	158,135	153,967	(4,168)
TOTAL	2,862,512	2,969,988	3,016,342	46,354	153,830	3,023,351	\$45,370,325	\$45,370,325	\$0

* Took special census after the 1990 census.

** Took special census after the 1990 census and became a city over 5,000.

*** Used the 1990 census plus population adjustments for annexations or detachments (if any) for allocation.

**** Incorporated after the 1990 census.

Population apportionment equals total population apportionment
divided by total population times the city's population.

1997 \$45,370,325 Equals \$15.00663502 Per person
App. 3,023,351

1990 \$45,370,325 Equals \$15.84982875 Per person
Census 2,862,512

1996 Needs Study Update

The following tabulation reflects the total difference between the 1995 and the 1996 25-year money needs studies. This update was accomplished in three individual steps to measure the effect each type of revision has to the total needs.

1. Accomplishments and system revisions -- Reflects need changes due to construction, the addition of 20 year reinstatement and the addition of needs for new street designations or a reduction for revocations.

2. 1996 Unit Cost Revisions -- measures the effect between last years unit prices to the unit prices approved by the Screening Board at the 1996 Spring Meeting.

3. 1996 Traffic Count Update -- is the result of the 1995 traffic counts updated in 1996.

Revisions were made to the following needs study unit prices:

Aggregate Shoulders	+ \$	.50 per ton
Curb & Gutter Removal	+ \$	.10 per lin. ft.
Sidewalk Removal	+ \$	.05 per sq. yd.
Concrete Pavement Removal	+ \$	.10 per sq. yd.
Class 5 Base	+ \$	.20 per ton
Bituminous Base 2331	+ \$	.50 per ton
Bituminous Surface 2331	+ \$	.50 per ton
Bituminous Surface 2341	+ \$	.10 per ton
Bituminous Surface 2361	+ \$	.10 per ton
Curb & Gutter Construction	+ \$	.25 per lin ft.
Sidewalk Construction	+ \$	.50 per lin ft.
Storm Sewer Construction	+ \$	6,700 per mile
Storm Sewer Adjustment	+ \$	2,100 per mile
Special Drainage	+ \$	2,490 per mile

The resulting 1996 25-year Construction Needs as adjusted in the "Tentative Determination of Money Needs Apportionment " will be used in computing the 1997 money needs apportionment.

1996 M.S.A.S. NEEDS STUDY UPDATE

Municipality	1995 Money Needs	Accomplish. & System Revisions	Unit Cost Update	Traffic Update	1996 Money Needs	Net Change	% Change 1995 to 1996
Albert Lea	\$11,038,471	(\$237,642)	\$141,442	\$0	\$10,942,271	(\$96,200)	-0.8715
Alexandria	6,584,571	1,090,603	128,922	0	7,804,096	1,219,525	18.5209
Andover	12,507,023	2,706,497	385,706	3,303	15,602,529	3,095,506	24.7501
Anoka	6,155,757	0	120,404	35,452	6,311,613	155,856	2.5319
Apple Valley	15,501,872	(146,750)	236,545	31,431	15,623,098	121,226	0.7820
Arden Hills	3,924,918	(723,286)	48,826	(99,977)	3,150,481	(774,437)	-19.7313
Austin	18,720,949	(797,143)	231,786	0	18,155,592	(565,357)	-3.0199
Bemidji	9,002,961	(621,999)	123,003	272,153	8,776,118	(226,843)	-2.5196
Blaine	19,441,168	(143,912)	340,981	32,636	19,670,873	229,705	1.1815
Bloomington	63,375,690	420,090	966,378	(317,440)	64,444,718	1,069,028	1.6868
Brainerd	6,158,940	283,280	101,069	0	6,543,289	384,349	6.2405
Brooklyn Center	12,887,046	358,530	193,297	72,747	13,511,620	624,574	4.8465
Brooklyn Park	20,486,020	180,083	301,633	157,447	21,125,183	639,163	3.1200
Buffalo	5,797,205	699,915	102,123	0	6,599,243	802,038	13.8349
Burnsville	19,971,788	1,243,663	313,963	617,290	22,146,704	2,174,916	10.8899
Cambridge	2,808,133	167,978	41,955	15,934	3,034,000	225,867	8.0433
Champlin	5,675,186	(541,320)	91,271	(8,068)	5,217,069	(458,117)	-8.0723
Chanhassen	13,230,013	546,619	225,971	(191,997)	13,810,606	580,593	4.3885
Chaska	10,358,931	(840,696)	173,502	278,996	9,970,733	(388,198)	-3.7475
Chisholm	3,438,183	0	51,320	3,779	3,493,282	55,099	1.6026
Cloquet	11,473,554	(301,514)	199,083	0	11,371,123	(102,431)	-0.8928
Columbia Heights	7,617,018	318,053	108,602	(4,494)	8,039,179	422,161	5.5423
Coon Rapids	16,942,218	245,977	213,956	166,251	17,568,402	626,184	3.6960
Corcoran	6,177,617	(1,208,008)	48,298	45,518	5,063,425	(1,114,192)	-18.0360
Cottage Grove	17,257,865	(922,461)	159,100	92,274	16,586,778	(671,087)	-3.8886
Crookston	11,750,689	(333,129)	103,455	0	11,521,015	(229,674)	-1.9546
Crystal	12,582,647	(374,417)	232,538	20,194	12,460,962	(121,685)	-0.9671

Municipality	1995 Money Needs	Accomplish & System Revisions	Unit Cost Update	Traffic Update	1996 Money Needs	Net Change	% Change 1995 to 1996
Detroit Lakes	\$3,957,989	(\$156,328)	\$52,081	\$0	\$3,853,742	(\$104,247)	-2.6338
Duluth	64,194,818	842,121	907,207	204,692	66,148,838	1,954,020	3.0439
Eagan	21,336,218	(2,189,071)	262,062	(89,300)	19,319,909	(2,016,309)	-9.4502
East Bethel	7,330,926	652,650	156,530	0	8,140,106	809,180	11.0379
East Grand Forks	4,457,683	541,270	70,774	0	5,069,727	612,044	13.7301
Eden Prairie	24,469,693	(275,351)	372,459	(188,664)	24,378,137	(91,556)	-0.3742
Edina	22,203,146	(75,951)	312,689	85,435	22,525,319	322,173	1.4510
Elk River	14,364,423	(1,940,380)	222,668	(85,443)	12,561,268	(1,803,155)	-12.5529
Fairmont	18,015,909	(402,901)	308,983	0	17,921,991	(93,918)	-0.5213
Falcon Heights	637,449	0	10,808	265	648,522	11,073	1.7371
Faribault	15,338,787	(452,746)	199,805	0	15,085,846	(252,941)	-1.6490
Farmington	7,550,347	1,880,851	144,004	3,424	9,578,626	2,028,279	26.8634
Fergus Falls	9,025,798	2,015,375	117,932	199,765	11,358,870	2,333,072	25.8489
Forest Lake	2,611,622	1,336,773	73,960	0	4,022,355	1,410,733	54.0175
Fridley	8,919,114	321,881	129,063	(86,894)	9,283,164	364,050	4.0817
Golden Valley	12,805,145	482,115	195,861	70,906	13,554,027	748,882	5.8483
Grand Rapids	6,244,325	2,141	92,435	0	6,338,901	94,576	1.5146
Ham Lake	8,423,880	(439,354)	151,338	545	8,136,409	(287,471)	-3.4126
Hastings	6,182,629	(216,930)	76,696	29,188	6,071,583	(111,046)	-1.7961
Hermantown	4,651,233	0	72,662	298,501	5,022,396	371,163	7.9799
Hibbing	24,013,063	(1,048,471)	167,993	186,467	23,319,052	(694,011)	-2.8901
Hopkins	7,077,631	285,480	124,085	143,270	7,630,466	552,835	7.8110
Hugo	7,964,742	0	329,640	0	8,294,382	329,640	4.1387
Hutchinson	7,032,869	2,547,563	124,031	92,717	9,797,180	2,764,311	39.3056
International Falls	4,487,075	113,002	77,740	0	4,677,817	190,742	4.2509
Inver Grove Heights	8,536,294	5,622,332	208,540	(178,335)	14,188,831	5,652,537	66.2177
Lake Elmo	2,688,810	0	88,913	(12,196)	2,765,527	76,717	2.8532
Lakeville	27,986,140	(542,128)	510,064	130,464	28,084,540	98,400	0.3516
Lino Lakes	8,531,870	1,103,015	265,461	17,944	9,918,290	1,386,420	16.2499
Litchfield	5,063,417	264,416	105,608	12,460	5,445,901	382,484	7.5539

Municipality	1995 Money Needs	Accomplish. & System Revisions	Unit Cost Update	Traffic Update	1996 Money Needs	Net Change	% Change 1995 to 1996
Little Canada	\$4,590,594	\$252,484	\$78,494	(\$44,119)	\$4,877,453	\$286,859	6.2488
Little Falls	6,812,938	169,243	122,410	0	7,104,591	291,653	4.2809
Mahtomedi	1,780,253	0	53,676	19,602	1,853,531	73,278	4.1162
Mankato	23,433,670	(77,561)	340,768	0	23,696,877	263,207	1.1232
Maple Grove	24,813,442	(1,312,039)	345,509	28,889	23,875,801	(937,641)	-3.7788
Maplewood	12,161,575	406,511	203,826	(306,574)	12,465,338	303,763	2.4977
Marshall	6,475,055	104,879	98,614	0	6,678,548	203,493	3.1427
Mendota Heights	4,671,640	1,508,386	95,187	(139,877)	6,135,336	1,463,696	31.3315
Minneapolis	196,205,766	1,143,626	2,555,967	202,852	200,108,211	3,902,445	1.9890
Minnetonka	26,219,870	(1,415,748)	395,089	32,125	25,231,336	(988,534)	-3.7702
Montevideo	4,161,598	(199,321)	71,372	0	4,033,649	(127,949)	-3.0745
Monticello	3,581,440	(405,836)	59,590	0	3,235,194	(346,246)	-9.6678
Moorhead	20,315,279	(109,337)	224,935	0	20,430,877	115,598	0.5690
Morris	2,577,658	0	40,487	0	2,618,145	40,487	1.5707
Mound	3,721,603	164,843	69,005	(9,801)	3,945,650	224,047	6.0202
Mounds View	4,320,369	1,169,406	109,014	17,128	5,615,917	1,295,548	29.9870
New Brighton	6,687,013	510,344	100,191	0	7,297,548	610,535	9.1302
New Hope	9,682,346	(28,881)	137,254	52,943	9,843,662	161,316	1.6661
New Ulm	7,554,441	401,857	109,604	0	8,065,902	511,461	6.7703
North Branch	7,685,578	0	139,231	0	7,824,809	139,231	1.8116
North Mankato	6,420,809	(209,766)	86,888	(35,792)	6,262,139	(158,670)	-2.4712
North St. Paul	4,515,658	1,625,634	96,563	48,912	6,286,767	1,771,109	39.2215
Northfield	7,255,747	(98,042)	106,165	0	7,263,870	8,123	0.1120
Oak Grove	6,709,306	(743,734)	208,987	(98,252)	6,076,307	(632,999)	-9.4346
Oakdale	8,975,823	(642,828)	122,797	54,951	8,510,743	(465,080)	-5.1815
Orono	8,989,906	298,075	147,771	(3,759)	9,431,993	442,087	4.9176
Otsego	8,149,362	(73,684)	170,740	0	8,246,418	97,056	1.1910
Owatonna	12,625,811	(726,464)	178,465	12,282	12,090,094	(535,717)	-4.2430
Plymouth	23,959,540	3,134,581	414,471	(135,960)	27,372,632	3,413,092	14.2452
Prior Lake	7,373,890	1,850,136	185,291	(3,116)	9,406,201	2,032,311	27.5609

Municipality	1995 Money Needs	Accomplish- & System Revisions	Unit Cost Update	Traffic Update	1996 Money Needs	Net Change	% Change 1995 to 1996
Ramsey	\$11,207,037	(\$131,450)	\$235,755	(\$1,908)	\$11,309,434	\$102,397	0.9137
Red Wing	15,208,463	260,386	249,834	281,751	16,000,434	791,971	5.2074
Richfield	15,423,382	386,541	250,516	(86,639)	15,973,800	550,418	3.5687
Robbinsdale	5,391,437	393,872	64,616	(23,114)	5,826,811	435,374	8.0753
Rochester	35,648,171	1,405,175	452,486	0	37,505,832	1,857,661	5.2111
Rosemount	13,022,062	0	209,523	(681)	13,230,904	208,842	1.6038
Roseville	8,291,852	4,132,128	188,138	30,309	12,642,427	4,350,575	52.4681
St. Anthony	3,452,663	0	62,706	(27,189)	3,488,180	35,517	1.0287
St. Cloud	20,515,666	8,848,592	444,103	(128,577)	29,679,784	9,164,118	44.6689
St. Louis Park	16,743,575	(1,223,633)	212,473	(91,453)	15,640,962	(1,102,613)	-6.5853
St. Paul	160,807,836	(12,456,496)	1,754,294	2,253	150,107,887	(10,699,949)	-6.6539
St. Peter	6,908,482	93,140	128,040	0	7,129,662	221,180	3.2016
Sartell	3,675,881	1,074,666	91,631	0	4,842,178	1,166,297	31.7284
Sauk Rapids	4,768,175	(277,732)	72,038	72,893	4,635,374	(132,801)	-2.7852
Savage	13,119,075	(1,219,732)	179,652	51,148	12,130,143	(988,932)	-7.5381
Shakopee	8,276,740	2,101,238	124,935	0	10,502,913	2,226,173	26.8967
Shoreview	3,342,684	824,724	58,675	2,374	4,228,457	885,773	26.4989
Shorewood	5,881,284	0	119,450	0	6,000,734	119,450	2.0310
South St. Paul	7,192,933	288,057	120,409	10,297	7,611,696	418,763	5.8219
Spring Lake Park	1,995,871	(703,119)	18,207	72,794	1,383,753	(612,118)	-30.6692
Stillwater	5,983,606	643,799	91,283	(157,723)	6,560,965	577,359	9.6490
Thief River Falls	10,317,828	877,631	154,469	22,347	11,372,275	1,054,447	10.2197
Vadnais Heights	2,244,318	(401,516)	24,298	(2,492)	1,864,608	(379,710)	-16.9187
Virginia	7,174,940	(650,266)	39,431	(110,326)	6,453,779	(721,161)	-10.0511
Waite Park	2,750,424	1,471,917	57,970	73,061	4,353,372	1,602,948	58.2800
Waseca	3,199,727	0	58,021	(31,775)	3,225,973	26,246	0.8203
West St. Paul	5,918,552	(270,188)	91,275	121,000	5,860,639	(57,913)	-0.9785
White Bear Lake	9,971,119	813,500	186,051	102,148	11,072,818	1,101,699	11.0489
Willmar	10,869,928	745,497	179,531	0	11,794,956	925,028	8.5100
Winona	10,402,120	1,403,839	159,360	3,688	11,969,007	1,566,887	15.0632
Woodbury	27,369,731	(989,239)	442,935	225,441	27,048,868	(320,863)	-1.1723
Worthington	5,887,388	128,853	80,339	0	6,096,580	209,192	3.5532
TOTAL	\$1,652,360,408	\$25,507,333	\$24,988,026	\$2,160,701	\$1,705,116,468	\$52,756,060	3.1928

1996 Itemized Tabulation of Needs

The 1996 money needs reflects an increase due to the updating of needs, new designations and increase in some unit prices. See the 1996 June Screening Board minutes or the Resolutions for the 1996 needs unit prices.

The 1996 itemized tabulation of needs on the following page shows all the construction items except the "after the fact needs" used in the Municipal State Aid Needs Study. The tabulation is provided to give each municipality the opportunity to compare their needs of the individual construction items to that of other cities. The cost per mile shown on this report does not include bridges and 18% of the engineering cost applied to the bridges because large bridges in some cities distort the average. The average is a more comparable cost for roadway construction cost per mile without bridges.

The overall average cost per mile is \$555,853. Falcon Heights has the lowest cost per mile with \$255,324 while Minneapolis has the highest cost with \$911,320 per mile.

Five cities which exceed \$800,000 per mile are listed alphabetically as follows: Bloomington, Fairmont, Farmington, Hopkins, and Minneapolis.

1996 ITEM BY ITEM TABULATION OF NEEDS

MUNICIPALITY	GRADING	COMPLETE STORM SEWER	STORM SEWER ADJUSTMENT	BASE	SURFACE	SHOULDER	CURB AND GUTTER	SIDEWALK	SIGNALS	LIGHTING	RETAINING WALLS	BRIDGES	RAILROAD CROSSINGS	ENGINEERING	MAINTENANCE	NEEDS	MILEAGE	COST PER MILE	
ALBERT LEA	\$1,323,476	\$254,967	\$672,840	\$1,576,188	\$1,652,191	\$7,735	\$576,672	\$720,337	\$538,200	\$373,000	\$39,000	\$84,813	\$1,348,750	\$1,650,274	\$123,828	\$10,942,271	18.65	\$582,169	
ALEXANDRIA	801,084	872,860	281,952	1,217,433	1,280,872	392	535,458	756,835	516,800	273,600				1,178,712	90,098	7,804,096	13.68	570,475	
ANDOVER	1,191,230	3,493,737		1,167,937	2,043,360	59,648	963,642	2,667,323	745,400	679,800			110,750	2,362,116	117,586	15,602,529	33.99	459,033	
ANOKA	641,112	1,341,448	15,664	616,632	945,477		509,910	657,112	324,000	239,600				962,375	68,283	6,311,613	11.98	526,846	
APPLE VALLEY	1,244,284	1,961,638	349,592	2,166,309	2,762,964		820,500	1,657,703	1,421,200	625,000	49,000			2,350,476	214,432	15,623,098	31.25	499,939	
ARDEN HILLS	192,505	562,785	15,664	305,713	400,713		104,688	426,658	224,600	131,400	110,080		164,750	475,115	35,830	3,150,481	6.57	479,525	
AUSTIN	2,615,398	1,162,282	374,512	1,897,703	2,184,271		802,092	1,230,742	825,000	534,600		3,304,370	293,500	2,740,400	190,722	18,155,592	26.73	555,601	
BEMIDJI	778,114	1,019,868	108,224	985,368	1,485,111		507,636	727,348	519,200	287,000				1,323,763	98,126	8,776,118	14.35	574,008	
BLAINE	1,245,235	4,093,254	65,504	2,121,130	3,265,727	4,234	1,180,380	2,623,833	1,302,000	655,600	10,000	539,110	387,250	2,980,244	133,732	19,670,873	32.78	600,088	
BLOOMINGTON	6,110,201	8,239,339	1,144,184	10,219,945	13,499,607		3,335,340	4,626,703	4,047,400	1,474,600	21,000	375,760	1,103,750	9,737,433	610,456	84,444,718	73.73	868,967	
BRAINERD	848,042	181,463	457,816	966,449	1,378,343		489,444	473,954	383,200	285,000				983,468	96,110	6,543,289	14.25	459,178	
BROOKLYN CENTER	1,027,924	1,564,257	655,040	2,010,017	2,949,761		613,998	723,523	978,800	433,400	82,867	277,200		2,037,025	157,808	13,511,820	21.67	610,725	
BROOKLYN PARK	1,363,035	3,312,274	627,984	2,585,305	4,234,703		1,096,158	1,522,479	2,104,200	847,800				3,184,913	246,332	21,125,183	45.33	466,031	
BUFFALO	775,616	631,876	176,152	990,747	911,089		475,374	561,224	240,400	180,000	50,000		572,250	999,619	46,198	6,599,243	9	733,249	
BURNSVILLE	2,291,792	1,543,584	751,872	3,276,463	4,068,851		1,315,212	1,943,978	2,387,200	873,800				3,321,495	372,457	22,146,704	43.69	506,906	
CAMBRIDGE	209,980	349,144	79,032	263,263	441,426		181,770	248,230	117,200	116,000		549,780		458,251	29,924	3,034,000	5.8	428,314	
CHAMPLIN	227,381	633,972	42,008	301,921	976,187		300,948	1,114,505	404,600	304,400	43,400			782,877	88,770	5,217,069	15.22	342,777	
CHANHASSEN	1,015,429	2,464,681	173,728	1,820,343	2,235,837		1,046,640	781,477	767,400	430,600	210,000	676,492		2,092,072	95,907	13,810,606	21.53	610,038	
CHASKA	862,830	1,816,927	114,632	1,488,299	1,425,727	1,225	659,148	1,070,728	399,400	273,000	120,000		128,250	1,509,365	76,002	9,970,733	13.65	728,610	
CHISHOLM	617,991	447,915	112,496	462,577	473,638		221,022	287,136	164,400	148,200				526,571	41,336	3,493,282	7.68	454,854	
CLOQUET	1,415,436	2,228,090	27,768	1,458,676	1,329,323	9,928	645,336	918,762	394,000	360,800	37,000		730,750	1,720,052	95,202	11,371,123	19.78	574,880	
COLUMBIA HEIGHTS	968,641	813,138	254,184	1,534,278	1,435,511		513,690	36,004	382,200	250,600	350,000		202,875	1,213,368	84,890	8,039,179	12.53	641,594	
COON RAPIDS	1,270,494	585,735	341,760	1,993,193	3,458,077	672	1,073,310	1,694,097	1,672,200	753,400		1,801,624		2,636,024	287,816	17,568,402	37.67	418,550	
CORCORAN	1,646,898	245,779		1,093,781	459,498	53,077	87,800	103,571	283,600	283,600				762,769	63,052	5,063,425	14.18	357,082	
COTTAGE GROVE	1,317,659	2,154,586	264,152	2,243,116	2,508,456	19,593	945,936	1,875,665	1,197,800	586,400	221,000	570,000		2,502,788	179,627	16,586,778	29.32	546,275	
CROOKSTON	682,770	753,416	212,176	936,723	870,827		386,292	681,932	248,800	222,400		4,705,740		1,746,306	73,033	11,521,015	11.12	612,884	
CRYSTAL	1,225,538	1,968,529	360,984	1,843,372	1,621,191		989,046	1,504,839	465,000	357,600	48,100			95,750	1,886,393	94,620	12,460,962	17.88	696,922
DETROIT LAKES	313,546	597,220	34,888	420,295	744,885	145	141,006	284,894	233,200	190,800				252,750	578,415	61,898	3,853,742	9.54	403,958
DULUTH	9,147,083	5,156,765	1,695,272	11,172,428	8,224,454	122,930	3,063,036	3,285,631	3,099,200	1,790,400	154,000	7,949,817		9,998,520	603,002	66,148,838	105.92	549,462	
EAGAN	1,282,502	1,573,445	477,752	2,250,286	3,981,735		921,618	2,172,042	2,002,800	886,200	133,000			407,500	2,898,000	335,030	19,319,909	44.31	436,017
EAST BETHEL	624,001	1,715,859	10,680	768,578	1,011,557	73,265	466,512	924,167	492,800	492,800	238,391			1,227,348	94,148	8,140,106	24.64	330,361	
EAST GRAND FORKS	640,919	896,991	107,512	756,429	872,806		312,930	54,468	335,200	236,400			222,300	762,293	72,479	5,069,727	11.82	428,911	
EDEN PRAIRIE	1,630,659	3,456,985	682,808	2,917,713	4,307,218		1,819,332	1,473,208	2,015,600	855,200	475,300	690,000	110,750	3,678,261	265,103	24,378,137	42.76	553,979	
EDINA	2,526,219	1,741,126	754,720	3,803,442	4,520,758		1,452,264	1,094,720	1,845,000	787,200	164,600	166,650		27,750	3,397,408	253,464	22,525,319	39.36	568,056
ELK RIVER	821,001	2,508,324	64,792	1,307,458	1,673,129	32,862	735,048	1,866,653	732,600	491,600	54,190			1,900,077	105,234	12,561,268	24.58	511,036	
FAIRMONT	2,808,744	3,222,691	87,640	2,598,584	2,184,235		880,614	1,551,528	622,000	387,600	12,000	448,800		2,713,931	130,644	17,921,991	19.38	901,609	
FALCON HEIGHTS	11,170	13,782	4,272	17,048	123,808		7,560	245,785	63,600	50,800				96,808	13,889	648,522	2.54	255,324	
FARIBAULT	1,470,993	817,732	245,840	2,206,947	2,319,610		729,060	1,693,453	721,200	428,000	10,000	1,404,280		2,279,729	140,962	15,095,846	21.4	639,326	
FARMINGTON	1,606,196	2,099,458	6,408	1,305,442	1,023,373		584,814	395,160	242,800	213,000	50,000	350,117		1,455,571	36,537	9,578,626	10.65	866,527	
FERGUS FALLS	1,045,922	1,166,876	347,456	1,430,775	1,346,635	3,239	618,624	648,704	453,400	316,000	10,500	542,795		1,625,600	1,720,177	82,167	11,358,870	21.86	494,788
FOREST LAKE	468,557	900,424	46,280	704,689	482,012		320,946	235,408	118,000	110,600				609,645	25,794	4,022,355	5.53	727,370	
FRIDLEY	861,978	944,087	666,464	1,268,635	2,088,270		511,920	706,200	506,800	506,800			191,500	1,390,668	166,674	9,283,164	25.34	366,344	
GOLDEN VALLEY	1,444,888	1,578,039	459,240	2,042,143	2,063,671		811,482	616,022	814,400	471,000	10,000	475,000		2,044,308	152,459	13,554,027	23.55	555,373	
GRAND RAPIDS	583,868	695,981	233,538	777,963	1,138,452	1,282	459,444	279,729	411,600	227,200	30,000			954,876	79,161	8,338,901	11.36	558,002	
HAM LAKE	413,282	2,625,471	27,768	604,070	1,284,199	6,929	844,338		457,000	457,000	95,070			1,226,726	94,556	8,136,409	22.85	356,079	
HASTINGS	546,048	477,776	332,504	846,699	1,233,458	1,735	414,694	613,853	609,000	332,400	49,000			910,272	104,244	6,071,583	16.62	365,318	
HERMANTOWN	360,458	1,054,323	750,504	917,670		2,916	289,668	175,065	378,600	259,800	10,000			755,821	67,571	5,022,396	12.99	386,636	
HIBBING	4,023,478	2,616,283	318,264	4,636,209	2,950,618	132,293	1,020,834	1,160,784	1,226,000	1,009,200		16,320	526,500	3,516,436	266,833	23,319,052	80.74	459,258	
HOPKINS	895,531	937,176	196,512	1,347,594	1,302,818		429,888	642,717	471,000	188,200				1,154,057	64,973	7,630,466	9.41	810,889	
HUGO	2,177,317	1,233,489		1,329,731	726,132	47,375	340,238	619,801	304,200	304,200				1,256,689	56,232	8,294,382	16.21	545,324	
HUTCHINSON	901,139	923,394	318,264	1,140,965	1,279,381		473,778	686,789	435,800	294,600	28,850	895,950	843,350	1,480,008	94,912	9,797,180	14.73	604,293	
INTERNATIONAL FALLS	670,282	273,343	224,280	832,423	706,071		352,842	538,864	165,400	161,200				706,445	46,687	4,677,817	8.06	580,374	
INVER GROVE HEIGHTS	2,178,997	2,416,444	232,112	2,011,226	2,125,735		888,852	773,359	732,400	493,200	50,000			2,142,419	144,087	14,188,831	24.66	575,378	
LAKE ELMO	253,980	431,836	32,040	453,595	411,677	34,300	147,450	126,978	190,600	190,600	36,000			415,451	42,020	2,765,827	9.53	290,192	
LAKEVILLE	2,350,108	5,358,901	239,944	4,410,767	4,226,153	3,902	1,924,944	2,210,756	1,399,600	833,600		653,000		4,250,100	222,765	28,084,540	41.68	673,813	
LINO LAKES	977,204	2,097,161		1,720,738	1,223,119	12,802	657,624	1,052,276	315,800	311,400				1,508,262	43,904	9,918			

COMPARISON OF NEEDS BETWEEN 1995 AND 1996

Needs Year	Grading	Complete Storm Sewer	Sewer Adjustment	Base Needs	Surface Needs	Total Shoulder Needs	Curb & Gutter Construction
1995	\$190,062,603	\$187,233,030	\$31,715,518	\$230,747,330	\$256,218,731	\$934,432	\$89,329,097
1996	\$196,090,040	\$183,220,205	\$39,192,040	\$243,499,098	\$264,276,645	\$1,063,899	\$95,617,152
Difference	\$6,027,437	(\$4,012,825)	\$7,476,522	\$12,751,768	\$8,057,914	\$129,467	\$6,288,055
%	3.17%	-2.14%	23.57%	5.53%	3.14%	13.86%	7.04%
Needs Year	Sidewalk Construction	Traffic Signal Construction	Street Lighting Construction	Retaining Walls	Total Bridge Needs	Railroad Crossing Needs	Engineering
1995	\$115,359,968	\$96,378,000	\$51,743,600	\$13,396,871	\$82,787,167	\$35,502,925	\$248,653,643
1996	\$122,027,933	\$99,861,400	\$53,627,200	\$13,187,138	\$83,795,638	\$35,214,200	\$257,521,143
Difference	\$6,667,965	\$3,483,400	\$1,883,600	(\$209,733)	\$1,008,471	(\$288,725)	\$8,867,500
%	5.78%	3.61%	3.64%	-1.57%	1.22%	-0.81%	3.57%
Needs Year	Total Maintenance Needs	Total Money Needs	Total Mileage	After the fact Right of way Needs	After the fact Bridge Needs	Overall Apportionment Needs	Needs To Apport. Ratio
1995	\$16,262,369	\$1,646,325,284	2592.42	48,736,091	\$10,557,665	\$1,705,619,040	20.8718
1996	\$16,922,737	\$1,705,116,468	2710.88	47,867,161	\$15,735,074	\$1,768,718,703	21.6440
Difference	\$660,368	\$58,791,184	118.46	(\$868,930)	\$5,177,409	\$63,099,663	0.7722
%	4.06%	3.57%	4.57%	-1.78%	49.04%	3.70%	

Tentative 1997 Construction Needs Apportionment

This tabulation shows each municipality's tentative money or construction needs apportionment based on a projected apportionment amount. The actual amount of the road user fund for distribution to the Municipal State Aid Account will not be available until January 1997.

The 25-year construction needs or money needs shown on this report are those computed from the "1996 Needs Study Update". The adjusted 25 year construction needs are the result of subtracting for the Unencumbered Construction Fund and adding or subtracting for Bond Accounts, adding Non-existing Bridge Adjustments and adding Right-of-Way "After the fact needs". These adjustments to the actual needs are made as directed by the Screening Board Resolutions.

This summary provides specific data and shows the impact of the adjustment to each municipality for the Screening Board's use in establishing the 1997 tentative Money or Construction Needs Apportionment Determination.

The adjustments are listed individually following the tentative summary of adjustments to the 25 year actual 1996 Money Needs.

TENTATIVE 1997 ADJUSTED CONSTRUCTION NEEDS APPORTIONMENT

Needs Value: \$100 in construction needs = approximately \$2.67 in apportionment

The total affect of adjustments includes an amount of \$477,290 for Alexandria and \$254,474 for Andover for segments omitted in the 1995 update.

Municipality	1996 Actual 25-Year Construction Needs	(-) Unencumbered Construction Fund Balance Adjustment	(+ or -) Bond Account Adjustment	(+) Non- Existing Bridge Adjustment	(+) RAW Acquisition Adjustment	Total Affect Of Adjustments	1996 Adjusted Construction Needs	Construction Needs Appor- tion- ment Minus Turnback Maintenance	(+) TH Turnback Main- tenance Allowance	Tentative 1997 Construction Needs Appor- tion- ment	% Of Total Dist.
Albert Lea	\$10,942,271	(\$1,254,267)	--	--	\$6,827	(\$1,247,430)	\$9,694,841	\$258,494	--	\$258,494	0.5697
Alexandria	7,804,096	(279,309)	--	--	--	197,981	8,002,077	213,360	--	213,360	0.4703
Andover	15,602,529	(664,277)	\$150,000	--	147,283	(112,520)	15,490,009	413,011	--	413,011	0.9103
Anoka	6,311,613	(768,797)	(382,235)	--	216,505	(934,527)	5,377,086	143,370	--	143,370	0.3160
Apple Valley	15,623,098	(192,277)	1,080,554	--	--	888,277	16,511,375	440,244	--	440,244	0.9703
Arden Hills	2,150,481	(319,488)	--	--	--	(319,488)	2,830,993	75,483	--	75,483	0.1664
Austin	18,155,592	(2,190,823)	--	--	--	(2,190,823)	15,964,769	425,670	--	425,670	0.9382
Bemidji	8,776,118	(682,124)	--	--	220,201	(461,923)	8,314,195	221,682	--	221,682	0.4886
Blaine	19,670,873	(2,808,353)	--	--	292,356	(2,515,997)	17,154,876	457,401	--	457,401	1.0082
Bloomington	64,444,718	(6,517,392)	--	42,326,375	5,687,514	1,496,497	65,941,215	1,758,195	--	1,758,195	3.8752
Brainerd	6,543,289	(1,006,077)	--	--	--	(1,006,077)	5,537,212	147,639	--	147,639	0.3254
Brooklyn Center	13,511,620	(760,471)	2,485,000	--	2,523,341	4,277,870	17,789,490	474,322	--	474,322	1.0454
Brooklyn Park	21,125,183	(3,126,514)	--	--	234,817	(2,891,697)	18,233,486	486,161	\$21,168	507,329	1.1182
Buffalo	6,599,243	--	--	--	--	0	6,599,243	178,956	--	178,956	0.3878
Burnsville	22,146,704	(307,598)	--	349,684	1,334,446	1,376,532	23,523,236	627,201	--	627,201	1.3824
Cambridge	3,034,000	--	621,142	--	--	621,142	3,655,142	97,487	15,480	112,937	0.2489
Champlin	5,217,069	(572,865)	--	--	123,432	(449,433)	4,767,636	127,120	--	127,120	0.2802
Chanhassen	13,810,606	(540,164)	--	--	65,000	(475,164)	13,335,442	355,564	--	355,564	0.7837
Chaska	9,970,733	(334,856)	--	346,355	92,467	103,966	10,074,699	268,622	--	268,622	0.5921
Chisholm	3,493,282	(99,541)	--	--	--	(99,541)	3,393,741	90,488	1,944	92,432	0.2037
Cloquet	11,371,123	--	675,000	--	22,271	697,271	12,068,394	321,780	12,528	334,308	0.7368
Columbia Heights	8,039,179	(1,441,053)	--	--	133,200	(1,307,853)	6,731,326	179,478	--	179,478	0.3956
Coon Rapids	17,568,402	(1,672,726)	--	--	1,060,488	(612,238)	16,956,164	452,103	--	452,103	0.9965
Corcoran	5,063,425	--	--	--	5,762	5,762	5,069,187	135,160	--	135,160	0.2979
Cottage Grove	16,586,778	(35,023)	35,000	43,731	430,302	474,010	17,060,788	454,893	--	454,893	1.0026
Crookston	11,521,015	(192,776)	--	--	1,050,364	947,588	12,468,603	332,451	--	332,451	0.7327

Municipality	1996 Actual 25-Year Construction Needs	(-) Unencumbered Construction Fund Balance Adjustment	(+ or -) Bond Account Adjustment	(+) Non- Existing Bridge Adjustment	(+) R/W Acquisition Adjustment	Total Affect Of Adjustments	1996 Adjusted Construction Needs	Construction Needs Apportion- ment Minus Turnback Maintenance	(+) TH Turnback Main- tenance Allowance	Tentative 1997 Construction Needs Apportion- ment	% Of Total Dist.
Crystal	\$12,460,962	(\$744,723)	--	--	\$3,682,636	\$2,937,913	\$15,398,875	\$410,581	--	\$410,581	0.9050
Detroit Lakes	3,853,742	(185,622)	--	--	--	(185,622)	3,668,120	97,803	--	97,803	0.2156
Duluth	66,148,838	(1,472,526)	--	\$1,054,200	230,314	(188,012)	65,960,826	1,758,717	\$118,080	1,876,797	4.1366
Eagan	19,319,909	(129,833)	\$1,240,000	--	392,508	1,502,675	20,822,584	555,194	--	555,194	1.2237
East Bethel	8,140,106	(504,036)	--	--	17,200	(486,836)	7,653,270	204,060	--	204,060	0.4498
East Grand Forks	8,069,727	(421,246)	--	--	121,700	(299,546)	4,770,181	127,188	--	127,188	0.2803
Eden Prairie	24,378,137	(1,107,876)	(1,348,337)	974,299	--	(1,481,914)	22,896,223	610,483	--	610,483	1.3456
Edina	22,525,319	(2,864,882)	--	938,240	301,459	(1,625,183)	20,900,136	557,262	--	557,262	1.2283
Elk River	12,561,268	(49,854)	680,000	--	194,227	824,373	13,385,641	356,902	--	356,902	0.7866
Farmont	17,921,991	(243,889)	--	--	74,988	(168,901)	17,753,090	473,352	--	473,352	1.0433
Falcon Heights	648,522	(361,677)	(27,988)	--	--	(389,665)	258,857	6,902	--	6,902	0.0152
Faribault	15,085,846	(61,803)	--	--	2,346	(69,457)	15,026,389	400,650	--	400,650	0.8831
Farmington	9,578,626	(857,051)	--	--	83,865	(773,186)	8,805,440	234,780	--	234,780	0.5175
Fergus Falls	11,356,670	(1,060,865)	--	--	67,200	(993,665)	10,365,205	276,368	43,632	320,000	0.7053
Forest Lake	4,022,355	--	--	--	64,783	64,783	4,087,138	108,976	--	108,976	0.2402
Fridley	9,283,164	(1,597,854)	--	--	95,081	(1,502,773)	7,780,391	207,449	--	207,449	0.4572
Glencoe	1,588,115	--	--	--	--	0	1,588,115	42,344	--	42,344	0.0933
Golden Valley	13,554,027	--	--	--	419,693	419,693	13,973,720	372,582	--	372,582	0.8212
Grand Rapids	6,338,901	--	--	--	--	0	6,338,901	169,015	--	169,015	0.3725
Ham Lake	8,136,409	(154,862)	468,000	--	82,445	392,583	8,526,992	227,409	--	227,409	0.5012
Hastings	6,071,583	(349,239)	--	233,038	4,350	(111,851)	5,959,732	158,905	--	158,905	0.3502
Hermantown	5,022,396	(592,508)	--	--	129,858	(462,650)	4,559,746	121,577	--	121,577	0.2680
Hibbing	23,319,052	(1,160,032)	--	--	205,360	(954,672)	22,364,380	596,303	2,016	598,319	1.3187
Hopkins	7,630,466	(858,755)	--	--	--	(858,755)	6,771,711	180,555	--	180,555	0.3980
Hugo	8,294,382	(433,262)	--	--	--	(433,262)	7,861,120	209,602	--	209,602	0.4620
Hutchinson	9,797,180	(1,124,279)	--	--	--	(1,124,279)	8,672,901	231,246	--	231,246	0.5097
International Falls	4,677,817	(333,390)	--	--	--	(333,390)	4,344,427	115,836	--	115,836	0.2553
Inver Grove Heights	14,188,831	(195,576)	--	--	1,118,632	923,056	15,111,887	402,929	--	402,929	0.8881
Lake Elmo	2,765,527	(244,443)	--	--	100,641	(143,802)	2,621,725	69,903	--	69,903	0.1541
Lakeville	28,084,540	--	--	813,036	476,148	1,289,184	29,373,724	783,193	--	783,193	1.7262
Lino Lakes	9,918,290	(788,133)	--	--	64,950	(723,183)	9,195,107	245,170	--	245,170	0.5404
Litchfield	5,445,901	(485,646)	--	--	--	(485,646)	4,960,255	132,256	--	132,256	0.2915
Little Canada	4,877,453	(302,065)	205,000	--	--	(97,065)	4,780,388	127,460	--	127,460	0.2809
Little Falls	7,104,591	(478,864)	--	--	311,472	(167,392)	6,937,199	184,967	--	184,967	0.4077

		(-)	(+ or -)	(+)	(+)			Construction	(+)	Tentative	
	1996 Actual	Unencumbered		Non-	R/W	Total	1996	Needs	TH	1997	
	25-Year	Construction		Existing	Acquisition	Affect	Adjusted	Apportion-	Turnback	Construction	%
	Construction	Fund Balance	Bond	Bridge		Of	Construction	ment Minus	Main-	Needs	Of
Municipality	Needs	Adjustment	Account	Adjustment	Adjustment	Adjustments	Needs	Turnback	tenance	Apportion-	Total
			Adjustment					Maintenance	Allowance	ment	Dist.
Mahtomedi	\$1,853,531	--	--	--	--	0	\$1,853,531	\$49,421	--	\$49,421	0.1089
Mankato	23,696,677	(\$44,983)	--	--	\$433,175	\$388,192	24,085,069	642,182	--	642,182	1.4154
Maple Grove	23,875,801	(275,738)	--	--	1,366,419	1,090,681	24,966,482	665,683	--	665,683	1.4672
Maplewood	12,465,338	(746,066)	--	--	--	(746,066)	11,719,272	312,472	--	312,472	0.6887
Marshall	6,678,548	(1,021,453)	(\$74,504)	--	72,763	(1,023,194)	5,655,354	150,789	--	150,789	0.3324
Mendota Heights	6,135,336	(275,906)	--	--	8,970	(266,936)	5,868,400	158,470	--	158,470	0.3449
Minneapolis	200,108,211	(12,255,772)	--	\$3,119,041	7,844,897	(1,291,834)	198,816,377	5,301,053	--	5,301,053	11.6840
Minnetonka	25,231,336	(162,002)	--	--	71,450	(90,552)	25,140,784	670,330	--	670,330	1.4775
Montevideo	4,033,649	(428,618)	--	--	--	(428,618)	3,605,031	96,121	--	96,121	0.2119
Monticello	3,235,194	(134,323)	--	--	149,510	15,187	3,250,381	86,665	--	86,665	0.1910
Moorhead	20,430,877	(1,142,590)	--	--	130,305	(1,012,285)	19,418,592	517,759	--	517,759	1.1412
Morris	2,618,146	(143,570)	--	--	2,379	(141,191)	2,476,984	66,043	--	66,043	0.1456
Mound	3,945,650	(1,158,195)	--	--	107,446	(1,050,749)	2,894,901	77,187	--	77,187	0.1701
Mounds View	5,615,917	(390,861)	--	--	--	(390,861)	5,225,056	139,316	--	139,316	0.3071
New Brighton	7,297,548	(1,015,143)	--	--	--	(1,015,143)	6,282,405	167,508	--	167,508	0.3692
New Hope	9,843,662	(185,445)	--	--	183,000	(2,445)	9,841,217	262,397	--	262,397	0.5783
New Ulm	8,065,902	(665,569)	--	--	--	(665,569)	7,400,333	197,316	--	197,316	0.4349
North Branch	7,924,809	(218,028)	--	--	--	(218,028)	7,606,781	202,820	--	202,820	0.4470
North Mankato	6,262,139	--	55,000	--	395,146	450,146	6,712,285	178,970	--	178,970	0.3945
North St. Paul	6,286,767	(48,636)	--	--	78,068	29,533	6,316,300	168,412	--	168,412	0.3712
Northfield	7,263,870	(794,794)	--	--	8,850	(785,944)	6,477,926	172,721	--	172,721	0.3807
Oak Grove	6,076,307	(216,490)	--	--	29,899	(186,591)	5,889,716	157,038	--	157,038	0.3481
Oakdale	8,510,743	(120,277)	1,057,766	--	211,229	1,148,718	9,659,461	257,551	--	257,551	0.5677
Orono	9,431,993	(638,844)	--	--	--	(638,844)	8,793,149	234,452	--	234,452	0.5168
Otsego	8,246,418	(629,192)	--	--	8,900	(620,292)	7,626,126	203,336	--	203,336	0.4482
Owatonna	12,090,094	--	--	--	--	0	12,090,094	322,369	--	322,369	0.7106
Plymouth	27,372,632	(1,855,371)	--	--	192,964	(1,662,407)	25,710,225	685,513	--	685,513	1.5109
Prior Lake	9,406,201	(355,230)	--	--	281,025	(74,205)	9,331,996	248,820	--	248,820	0.5484
Ramsey	11,309,434	(1,401,974)	100,000	--	180,075	(1,121,899)	10,187,535	271,631	--	271,631	0.5987
Red Wing	16,000,434	(1,099,950)	--	991,307	62,176	(46,467)	15,853,967	425,382	--	425,382	0.9376
Richfield	15,973,800	(3,068,240)	--	--	2,997,333	(70,907)	15,902,893	424,020	--	424,020	0.9346
Robbinsdale	5,826,811	(603,859)	--	--	--	(603,859)	5,222,952	139,260	--	139,260	0.3069
Rochester	37,505,832	(1,345,906)	--	--	3,616,427	2,270,521	39,776,353	1,060,559	--	1,060,559	2.3376

Municipality	1996 Actual 25-Year Construction Needs	(-) Unencumbered Construction Fund Balance Adjustment	(+ or -) Bond Account Adjustment	(+) Non- Existing Bridge Adjustment	(+) R/W Acquisition Adjustment	Total Affect Of Adjustments	1996 Adjusted Construction Needs	Construction Needs Apportion- ment Minus Turnback Maintenance	(+) TH Turnback Main- tenance Allowance	Tentative 1997 Construction Needs Apportion- ment	% Of Total Dist.
Rosemount	\$13,230,904	--	(\$65,000)	--	--	(\$65,000)	\$13,165,904	\$351,043	--	\$351,043	0.7737
Roseville	12,642,427	(\$1,415,313)	1,265,000	\$2,814,714	\$1,660,726	4,325,127	16,967,554	452,407	--	452,407	0.9971
St. Anthony	3,488,180	(422,008)	--	--	--	(422,008)	3,066,172	81,754	--	81,754	0.1802
St. Cloud	29,679,784	--	1,455,000	--	1,177,435	2,632,435	32,312,219	861,543	\$8,784	870,327	1.9183
St. Louis Park	15,640,962	--	--	--	46,792	46,792	15,687,754	418,284	--	418,284	0.9219
St. Michael	3,824,764	--	--	--	--	0	3,824,764	101,980	--	101,980	0.2248
St. Paul	150,107,887	(7,693,254)	--	320,857	3,788,466	(3,583,931)	146,523,956	3,906,777	--	3,906,777	8.6109
St. Peter	7,129,662	(856,864)	--	--	26,182	(860,682)	6,268,980	167,150	--	167,150	0.3684
Sartell	4,842,178	(257,835)	--	--	--	(257,835)	4,584,343	122,233	--	122,233	0.2694
Sauk Rapids	4,635,374	(150,629)	--	--	3,944	(146,685)	4,488,689	119,682	--	119,682	0.2638
Savage	12,130,143	(426,633)	250,000	--	--	(176,633)	11,953,510	318,717	--	318,717	0.7025
Shakopee	10,502,913	(141,416)	--	--	--	(141,416)	10,361,497	276,269	--	276,269	0.6089
Shoreview	4,228,457	--	--	--	--	0	4,228,457	112,744	--	112,744	0.2485
Shorewood	6,000,734	(1,091,852)	--	--	--	(1,091,852)	4,908,882	130,886	--	130,886	0.2885
South St. Paul	7,611,696	(1,611,071)	--	--	--	(1,611,071)	6,000,625	159,995	--	159,995	0.3526
Spring Lake Park	1,383,753	--	--	--	--	0	1,383,753	36,895	--	36,895	0.0813
Stillwater	6,560,965	(613,394)	--	--	--	(613,394)	5,947,571	158,580	--	158,580	0.3495
Thief River Falls	11,372,275	(352,166)	--	--	69,234	(282,932)	11,089,343	295,676	--	295,676	0.6517
Vadnais Heights	1,864,608	--	--	--	--	0	1,864,608	49,716	--	49,716	0.1096
Virginia	6,453,779	(112,920)	--	--	--	(112,920)	6,340,859	169,067	4,200	173,267	0.3819
Waite Park	4,353,372	--	--	--	28,764	28,764	4,382,136	116,841	--	116,841	0.2575
Waseca	3,225,973	(376,711)	--	--	5,900	(371,711)	2,854,262	76,103	--	76,103	0.1677
West St. Paul	5,860,639	(927,399)	--	--	--	(927,399)	4,933,240	131,535	--	131,535	0.2899
White Bear Lake	11,072,618	(67,905)	--	--	279,823	191,918	11,264,736	300,352	--	300,352	0.6620
Willmar	11,794,956	(331,754)	--	--	152,500	(179,254)	11,615,702	309,710	4,392	314,102	0.6923
Winona	11,969,007	(553,043)	--	--	--	(553,043)	11,415,964	304,385	--	304,385	0.6709
Woodbury	27,048,868	--	3,870,854	1,410,197	280,615	5,561,666	32,610,534	869,497	--	869,497	1.9164
Worthington	6,096,580	(1,041,223)	--	--	26,842	(1,014,381)	5,082,199	135,500	--	135,500	0.2987
STATE TOTAL	\$1,710,529,337	(\$95,717,866)	\$13,762,252	\$15,735,074	\$47,867,161	(\$17,621,615)	\$1,692,907,722	\$45,138,101	\$232,224	\$45,370,325	100.0000

Construction Needs Apportionment = \$45,138,131 / \$1,687,494,853 = 0.026748586
x City's Adjusted Construction Needs + TH Turnback Maintenance Adjustment

UNENCUMBERED CONSTRUCTION FUND BALANCE ADJUSTMENT

The 1996 unencumbered amount available is the unencumbered construction fund balance adjustment deducted from the city's total needs. See the Screening Board Resolution and the 1997 Construction Needs Apportionment on page 33-37.

The total fund balance increased by \$6,172,333 between September 1995 and September 1996. This amount was offset by cities using the State Aid Advance in the amount of \$7,728,548. Considering that the cities spent \$70,324,337 for an Construction Apportionment means that the cities spent \$71,880,552 or \$1,556,215 more than their total Construction Allotment.

Municipalities	Unencumbered Amount Available 9-1-95	Unencumbered Amount Available 9-1-96	Difference Between 1995 and 1996	Percentage of Total Amount in 1996 Account	Ratio to City's 1996 Construction Allotment
Albert Lea	\$1,575,117	\$1,254,257	(\$320,860)	1.3104	3.1092
Alexandria	271,824	279,309	7,485	0.2918	1.2504
Andover	492,208	664,277	172,069	0.6940	1.5130
Anoka	584,430	768,797	184,367	0.8032	2.4627
Apple Valley	0	192,277	192,277	0.2009	0.2043
Arden Hills	501,784	319,488	(182,296)	0.3338	1.7876
Austin	1,578,113	2,190,823	612,710	2.2888	2.8454
Bemidji	647,780	682,124	34,344	0.7126	2.2227
Blaine	2,253,001	2,808,353	555,352	2.9340	3.3724
Bloomington	4,385,186	6,517,392	2,132,206	6.8090	3.1650
Brainerd	1,132,841	1,006,077	(126,764)	1.0511	4.0678
Brooklyn Center	1,835,225	700,471	(1,134,754)	0.7318	1.0783
Brooklyn Park	2,554,577	3,126,514	571,937	3.2664	3.0111
Buffalo	362,686	0	(362,686)	0.0000	0.0000
Burnsville	1,264,162	307,598	(956,564)	0.3214	0.2941
Cambridge	0	0	0	0.0000	0.0000
Champlin	240,073	572,865	332,792	0.5985	1.7214
Chanhassen	649,995	540,164	(109,831)	0.5643	0.9818
Chaska	0	334,856	334,856	0.3498	0.6980
Chisholm	0	99,541	99,541	0.1040	0.7556
Cloquet	0	0	0	0.0000	0.0000
Columbia Heights	1,647,632	1,441,053	(206,579)	1.5055	4.9213
Coon Rapids	1,806,681	1,672,726	(133,955)	1.7476	1.2855
Corcoran	18,106	0	(18,106)	0.0000	0.0000
Cottage Grove	0	35,023	35,023	0.0366	0.0409
Crookston	154,599	102,776	(51,823)	0.1074	0.2260
Crystal	1,358,382	744,723	(613,659)	0.7780	1.2733
Detroit Lakes	810	185,622	184,812	0.1939	0.8996
Duluth	0	1,472,526	1,472,526	1.5384	0.6824
Eagan	0	129,833	129,833	0.1356	0.0969
East Bethel	222,420	504,036	281,616	0.5266	1.6904
East Grand Forks	174,128	421,246	247,118	0.4401	2.1561
Eden Prairie	2,126	1,107,876	1,105,750	1.1574	0.8787
Edina	4,950,129	2,864,882	(2,085,247)	2.9930	3.2043
Elk River	0	49,854	49,854	0.0521	0.0883

Municipalities	Unencumbered Amount Available 9-1-95	Unencumbered Amount Available 9-1-96	Difference Between 1995 and 1996	Percentage of Total Amount in 1996 Account	Ratio to City's 1996 Construction Allotment
Fairmont	\$189,931	\$243,889	\$53,958	0.2548	0.3867
Falcon Heights	302,851	361,677	58,826	0.3779	6.1483
Faribault	716,703	61,803	(654,900)	0.0646	0.1183
Farmington	567,055	857,051	289,996	0.8954	2.9554
Fergus Falls	1,012,064	1,060,865	48,801	1.1083	3.3860
Forest Lake	0	0	0	0.0000	0.0000
Fridley	1,153,849	1,597,854	444,005	1.6693	3.5190
Golden Valley	157,949	0	(157,949)	0.0000	0.0000
Grand Rapids	0	0	0	0.0000	0.0000
Ham Lake	153,909	154,862	953	0.1618	0.4649
Hastings	75,405	349,239	273,834	0.3649	1.2712
Hermantown	512,495	592,508	80,013	0.6190	3.2568
Hibbing	1,485,381	1,160,032	(325,349)	1.2119	1.7191
Hopkins	453,308	858,755	405,447	0.8972	2.0392
Hugo	212,912	433,262	220,350	0.4526	1.9662
Hutchinson	1,228,726	1,124,279	(104,447)	1.1746	3.4094
International Falls	134,211	333,390	199,179	0.3483	1.4244
Inver Grove Heights	0	195,576	195,576	0.2043	0.4003
Lake Elmo	143,394	244,443	101,049	0.2554	1.6147
Lakeville	0	0	0	0.0000	0.0000
Lino Lakes	479,675	788,133	308,458	0.8234	2.5551
Litchfield	537,210	485,646	(51,564)	0.5074	2.9617
Little Canada	173,754	302,065	128,311	0.3156	1.5626
Little Falls	191,966	478,864	286,898	0.5003	1.6691
Mahtomedi	25,191	0	(25,191)	0.0000	0.0000
Mankato	1,182	44,983	43,801	0.0470	0.0525
Maple Grove	0	275,738	275,738	0.2881	0.2648
Maplewood	1,128,776	746,066	(382,710)	0.7794	1.2331
Marshall	680,208	1,021,453	341,245	1.0671	3.0792
Mendota Heights	57,757	275,906	218,149	0.2882	1.2648
Minneapolis	5,808,396	12,255,772	6,447,376	12.8041	1.6800
Minnetonka	0	162,002	162,002	0.1692	0.1134
Montevideo	246,959	428,618	181,659	0.4478	2.3595
Monticello	298,594	134,323	(164,271)	0.1403	1.0000
Moorhead	858,200	1,142,590	284,390	1.1937	1.3282
Morris	53,067	143,570	90,503	0.1500	1.2278
Mound	1,053,771	1,158,195	104,424	1.2100	6.8285
Mounds View	593,970	390,861	(203,109)	0.4083	1.7706
New Brighton	624,991	1,015,143	390,152	1.0606	2.6019
New Hope	661,477	185,445	(476,032)	0.1937	0.4904
New Ulm	442,531	665,569	223,038	0.6953	1.7018
North Branch	0	218,028	218,028	0.2278	1.0000
North Mankato	0	0	0	0.0000	0.0000
North St. Paul	656,617	48,535	(608,082)	0.0507	0.2199
Northfield	476,651	794,794	318,143	0.8304	2.4982

Municipalities	Unencumbered Amount Available 9-1-95	Unencumbered Amount Available 9-1-96	Difference Between 1995 and 1996	Percentage of Total Amount in 1996 Account	Ratio to City's 1996 Construction Allotment
Oak Grove	\$0	\$216,490	\$216,490	0.2262	0.8239
Oakdale	0	120,277	120,277	0.1257	0.2575
Orono	731,043	638,844	(92,199)	0.6674	2.4930
Otsego	403,554	629,192	225,638	0.6573	2.7417
Owatonna	123,035	0	(123,035)	0.0000	0.0000
Plymouth	2,416,922	1,855,371	(561,551)	1.9384	1.3029
Prior Lake	0	355,230	355,230	0.3711	1.1754
Ramsey	1,153,399	1,401,974	248,575	1.4647	3.2738
Red Wing	1,085,067	1,099,950	14,883	1.1492	2.5743
Richfield	2,984,103	3,068,240	84,137	3.2055	4.2054
Robbinsdale	582,407	603,859	21,452	0.6309	1.8151
Rochester	2,647,859	1,345,906	(1,301,953)	1.4061	0.8243
Rosemount	573,680	0	(573,680)	0.0000	0.0000
Roseville	1,176,479	1,415,313	238,834	1.4786	2.1394
St. Anthony	280,230	422,008	141,778	0.4409	2.7385
St. Cloud	239,929	0	(239,929)	0.0000	0.0000
St. Louis Park	734,778	0	(734,778)	0.0000	0.0000
St. Paul	11,474,939	7,693,254	(3,781,685)	8.0374	1.2243
St. Peter	578,764	886,864	308,100	0.9265	2.8785
Sartell	431,891	257,835	(174,056)	0.2694	1.4194
Sauk Rapids	0	150,629	150,629	0.1574	0.5900
Savage	42,240	426,633	384,393	0.4457	0.9821
Shakopee	735,749	141,416	(594,333)	0.1477	0.4631
Shoreview	411,437	0	(411,437)	0.0000	0.0000
Shorewood	913,290	1,091,852	178,562	1.1407	6.1147
South St. Paul	1,487,909	1,611,071	123,162	1.6831	4.5871
Spring Lake Park	0	0	0	0.0000	0.0000
Stillwater	515,911	613,394	97,483	0.6408	2.1027
Thief River Falls	54,297	352,166	297,869	0.3679	1.0057
Vadnais Heights	0	0	0	0.0000	0.0000
Virginia	0	112,920	112,920	0.1180	0.4402
Waite Park	52,324	0	(52,324)	0.0000	0.0000
Waseca	160,879	376,711	215,832	0.3936	1.8515
West St. Paul	559,585	927,399	367,814	0.9689	2.5561
White Bear Lake	902,636	87,905	(814,731)	0.0918	0.1796
Willmar	405,524	331,754	(73,770)	0.3466	0.7671
Winona	623,053	553,043	(70,010)	0.5778	1.1035
Woodbury	0	0	0	0.0000	0.0000
Worthington	847,520	1,041,223	193,703	1.0878	3.7082
TOTAL	\$89,545,533	\$95,717,866	\$6,172,333	100.0000	1.3611

UNAMORTIZED BOND ACCOUNT BALANCE

(Amount as of December 31, 1995)
(For Reference, see Bond Adjustment Resolution)

The average principal and interest on all Bond sales cannot exceed 50 percent of the last construction apportionment preceding the Bond sale.
COLUMN B: Total Disbursements and Obligations: The amount of bond applied toward State Aid projects. A Report Of State Contract must be submitted by December 31 of the previous year to get credit for the expenditure.

COLUMN C: Unencumbered Bond Balance Available: The amount of the bond not applied toward a State Aid project.

COLUMN D: Unamortized Bond Balance: The remaining bond principal to be paid on the issue. This payment is made from the city's construction account. Interest payments are made from the maintenance account and are not reflected in this chart.

The bond account adjustment is computed by using two steps.

Step 1: (A minus B) Amount of issue minus disbursements = unencumbered balance.

Step 2: (D minus C minus E) Unamortized bond balance minus unencumbered balance = bond account adjustment.

		(A)	(B)	(C)	(D)	(E)	(D minus C minus E)
			Total Amount Applied Toward State Aid Projects	(A Minus B) Amount Not Applied Toward State Aid Projects	Remaining Amount of Principal To Be Paid	Off System Disburse- ment	Bond Account Adjustment
Municipality	Date of Issue	Amount of Issue					
Andover	8-01-88	\$500,000	\$500,000	\$0	\$150,000		\$150,000
Anoka	7-01-86	985,000	552,765	432,235	50,000		(382,235)
Apple Valley	8-01-79	875,000	875,000	0	370,000		370,000
Apple Valley	9-09-91	1,730,000	1,730,000	0	1,490,000	\$779,446	710,554
Brooklyn Center	9-01-91	3,000,000	3,000,000	0	2,455,000		2,455,000
Cambridge	8-01-94	650,000	641,142	8,858 *	630,000		621,142
Cloquet	12-01-93	835,000	835,000	0	675,000		675,000
Cottage Grove	5-01-77	560,000	560,000	0	35,000		35,000
Eagan	7-01-86	3,000,000	3,000,000	0	1,240,000		1,240,000
Eden Prairie	11-10-91	370,000	261,663	108,337	310,000		201,663

		(A)	(B)	(C)	(D)	(E)	(D Minus C) minus E)
Municipality	Date of Issue	Amount of Issue	Total Amount Applied Toward State Aid Projects	(A Minus B) Amount Not Applied Toward State Aid Projects	Remaining Amount of Principal To Be Paid	Off System Disburse- ment	Bond Account Adjustment
Eden Prairie	7-01-92	\$1,940,000	\$0	\$1,940,000	\$390,000		(\$1,550,000)
Elk River	6-01-92	1,095,000	1,095,000	0	680,000		680,000
Falcon Heights	4-21-80	170,000	142,012	27,988	0		(27,988)
Ham Lake	9-01-94	530,000	530,000	0	465,000		465,000
Little Canada	11-01-93	315,000	300,000	15,000 *	220,000		205,000
Maple Grove	11-01-94	3,620,000	0	3,620,000	3,620,000		0
Marshall	7-01-81	310,000	235,496	74,504	0		(74,504)
North Mankato	6-01-86	550,000	550,000	0	55,000		55,000
Oakdale	11-10-92	453,181	453,181	0	329,174		329,174
Oakdale	11-23-93	887,640	887,640	0	728,592		728,592
Ramsey	3-13-91	500,000	500,000	0	100,000		100,000
Rosemount	7-05-94	700,000	0	700,000	635,000		(65,000)
Roseville	12-01-85	2,225,000	2,225,000	0	1,265,000		1,265,000
St. Cloud	11-01-92	1,940,000	1,755,000	185,000	1,640,000		1,455,000
Savage	10-01-87	875,000	875,000	0	250,000		250,000
Woodbury	10-01-94	3,890,000	3,871,804	18,196	3,890,000		3,871,804
Woodbury	11-12-75	263,000	262,050	950	0		(950)
TOTAL		\$32,768,821	\$25,637,753	\$7,131,068	\$21,672,766	\$779,446	\$13,762,252

* OVERHEAD COSTS

NON-EXISTING BRIDGE CONSTRUCTION

To compensate for not allowing needs for non-existing structures in the 25-year needs study, the Municipal Screening Board passed in the following resolution:

BE IT RESOLVED:

"The money needs for all "non-existing" bridges and grade separations be removed from the Needs Study until such time that a construction project is awarded. At that time a money needs adjustment shall be made by annually adding the total amount of the structure cost that is eligible for State Aid reimbursement for a 15-year period." This directive to exclude all Federal or State grants.

Municipality	MSAS No.	First Year of Adjustment	Year of Apportionment Expiration	15 Years Amount Expired	Project Needs	Total Needs Amount
Bloomington	433	1987	2001		\$1,255,688	
	399	1990	2004		1,070,687	
						\$2,326,375
Burnsville	108	1986	2000			349,684
Chaska	107	1997	2011		346,355	346,355
Cottage Grove	111	1997	2011		43,731	43,731
Duluth *	140	1987	2001			1,054,200
Eden Prairie	101	1985	1999			974,299
Edina	174	1997	2011		938,240	938,240
Hastings	129	1983	1997			233,038
Lakeville	122	1996	2010			813,036
Minneapolis	328	1983	1997		410,521	
	336	1986	2000		1,082,670	
	419	1996	2010		1,625,850	3,119,041
Red Wing	122	1986	2000			991,307
Roseville	219	1987	2001			2,814,714
St. Paul	234	1983	1997			320,857
Woodbury	108	1996	2010			1,410,197
TOTAL						\$15,735,074

* Rehabilitation of the lift bridge which was approved by the Screening Board in 1986.

PROJECT LISTING OF RIGHT-OF-WAY ACQUISITION

MUNICIPALITY	PROJECT	PROJECT AMOUNT	TOTAL ADJUSTMENT
Blaine	106-101-04	\$109,097	\$109,097
Burnsville	179-125-01	6,260	6,260
Coon Rapids	114-112-07	9,006	
	114-129-05	41,330	50,336
Cottage Grove	180-110-08	4,638	4,638
Edina	120-136-09	20,026	
	120-145-16	79,359	
	120-166-02	156,778	256,163
Forest Lake	214-102-01	36,883	36,883
Ham Lake	197-114-04	4,952	4,952
Hermantown	202-101-05	46,830	
	202-103-03	560	47,390
Hibbing	131-225-02	126,635	126,635
Inver Grove Heights	178-112-02	6,500	6,500
Lakeville	188-122	305,894	305,894
Maple Grove	189-106	140,702	140,702
Marshall	139-125-01	12,425	12,425
Minneapolis	141-215-11	21,491	
	141-218-05	296,459	317,950
Oak Grove	223-107-01	29,899	29,899
St. Cloud	162-125-10	1,000	
	162-145-01	1,000	2,000
St. Paul	164-125-21	182,122	182,122
Thief River Falls	170-111-01	26,759	26,759
Waite Park	221-102-02	28,764	28,764
TOTAL			\$1,695,369

NEEDS ADJUSTMENT FOR RIGHT-OF-WAY ACQUISITION

(For reference, see Right-of-Way Resolution)

MUNICIPALITY	1980-1994 RIGHT-OF-WAY EXPENDITURES	+	1995 RIGHT-OF-WAY EXPENDITURES	-	1980 EXPIRED RIGHT-OF-WAY EXPENDITURES	=	TOTAL RIGHT-OF-WAY ADJUSTMENT FOR 1997 APPORTIONMENT
Albert Lea	\$6,827		--		--		\$6,827
Alexandria	--		--		--		--
Andover	147,283		--		--		147,283
Anoka	216,505		--		--		216,505
Apple Valley	--		--		--		--
Arden Hills	--		--		--		--
Austin	--		--		--		--
Bemidji	220,201		--		--		220,201
Blaine	183,259		\$109,097		--		292,356
Bloomington	5,687,514		--		--		5,687,514
Brainerd	--		--		--		--
Brooklyn Center	2,523,341		--		--		2,523,341
Brooklyn Park	234,817		--		--		234,817
Buffalo	--		--		--		--
Burnsville	1,328,186		6,260		--		1,334,446
Cambridge	--		--		--		--
Champlin	123,432		--		--		123,432
Chanhassen	65,000		--		--		65,000
Chaska	92,467		--		--		92,467
Chisholm	--		--		--		--
Cloquet	22,271		--		--		22,271
Columbia Heights	133,200		--		--		133,200
Coon Rapids	1,010,152		50,336		--		1,060,488
Corcoran	5,762		--		--		5,762
Cottage Grove	425,664		4,638		--		430,302
Crookston	1,106,538		--		(56,174)		1,050,364
Crystal	3,817,423		--		(134,787)		3,682,636
Detroit Lakes	--		--		--		--
Duluth	230,314		--		--		230,314
Eagan	392,508		--		--		392,508
East Bethel	17,200		--		--		17,200
East Grand Forks	121,700		--		--		121,700
Eden Prairie	--		--		--		--
Edina	45,296		256,163		--		301,459
Elk River	194,227		--		--		194,227
Fairmont	74,988		--		--		74,988
Falcon Heights	--		--		--		--
Faribault	2,346		--		--		2,346
Farmington	83,865		--		--		83,865
Fergus Falls	67,200		--		--		67,200

MUNICIPALITY	1980-1994 RIGHT-OF-WAY EXPENDITURES	1995 RIGHT-OF-WAY EXPENDITURES	1980 EXPIRED RIGHT-OF-WAY EXPENDITURES	=	TOTAL RIGHT-OF-WAY ADJUSTMENT FOR 1997 APPORTIONMENT
Forest Lake	\$27,900	\$36,883	--		\$64,783
Fridley	95,081	--	--		95,081
Golden Valley	419,693	--	--		419,693
Grand Rapids	--	--	--		--
Ham Lake	77,493	4,952	--		82,445
Hastings	17,620	--	(13,270)		4,350
Hermantown	82,468	47,390	--		129,858
Hibbing	78,725	126,635	--		205,360
Hopkins	--	--	--		--
Hugo	--	--	--		--
Hutchinson	--	--	--		--
International Falls	--	--	--		--
Inver Grove Heights	1,112,132	6,500	--		1,118,632
Lake Elmo	100,641	--	--		100,641
Lakeville	170,254	305,894	--		476,148
Lino Lakes	64,950	--	--		64,950
Litchfield	--	--	--		--
Little Canada	--	--	--		--
Little Falls	311,472	--	--		311,472
Mahtomedi	--	--	--		--
Mankato	433,175	--	--		433,175
Maple Grove	1,244,255	140,702	(18,538)		1,366,419
Maplewood	--	--	--		--
Marshall	60,338	12,425	--		72,763
Mendota Heights	8,970	--	--		8,970
Minneapolis	9,486,130	317,950	(1,959,183)		7,844,897
Minnetonka	71,450	--	--		71,450
Montevideo	--	--	--		--
Monticello	149,510	--	--		149,510
Moorhead	130,305	--	--		130,305
Morris	2,379	--	--		2,379
Mound	107,446	--	--		107,446
Mounds View	--	--	--		--
New Brighton	--	--	--		--
New Hope	183,000	--	--		183,000
New Ulm	--	--	--		--
North Branch	--	--	--		--
North Mankato	395,146	--	--		395,146
North St. Paul	78,068	--	--		78,068
Northfield	8,850	--	--		8,850
Oak Grove	--	29,899	--		29,899
Oakdale	211,229	--	--		211,229
Orono	--	--	--		--
Otsego	8,900	--	--		8,900
Owatonna	--	--	--		--

MUNICIPALITY	1980-1994 RIGHT-OF-WAY EXPENDITURES	+	1995 RIGHT-OF-WAY EXPENDITURES	-	1980 EXPIRED RIGHT-OF-WAY EXPENDITURES	=	TOTAL RIGHT-OF-WAY ADJUSTMENT FOR 1997 APPORTIONMENT
Plymouth	\$192,964		--		--		\$192,964
Prior Lake	281,025		--		--		281,025
Ramsey	180,075		--		--		180,075
Red Wing	62,176		--		--		62,176
Richfield	2,997,333		--		--		2,997,333
Robbinsdale	--		--		--		--
Rochester	3,616,427		--		--		3,616,427
Rosemount	--		--		--		--
Roseville	1,660,726		--		--		1,660,726
St. Anthony	--		--		--		--
St. Cloud	1,175,435		\$2,000		--		1,177,435
St. Louis Park	46,792		--		--		46,792
St. Paul	3,606,344		182,122		--		3,788,466
St. Peter	26,182		--		--		26,182
Sartell	--		--		--		--
Sauk Rapids	13,778		--		(9,834)		3,944
Savage	--		--		--		--
Shakopee	--		--		--		--
Shoreview	--		--		--		--
Shorewood	--		--		--		--
South St. Paul	--		--		--		--
Spring Lake Park	--		--		--		--
Stillwater	104,442		--		(104,442)		--
Thief River Falls	42,475		26,759		--		69,234
Vadnais Heights	--		--		--		--
Virginia	--		--		--		--
Waite Park	--		28,764		--		28,764
Waseca	5,000		--		--		5,000
West St. Paul	--		--		--		--
White Bear Lake	279,823		--		--		279,823
Willmar	152,500		--		--		152,500
Winona	340,950		--		(340,950)		--
Woodbury	280,615		--		--		280,615
Worthington	26,842		--		--		26,842
TOTAL	\$48,808,970		\$1,695,369		(\$2,637,178)		\$47,867,161

TRUNK HIGHWAY TURNBACK MAINTENANCE ALLOWANCE

The following tabulation shows the Trunk Highway Turnback Maintenance allowance for the 1997 Apportionment. All turnbacks eligible for maintenance payments are included in this tabulation as of December 31, 1996. The total turnback maintenance apportionment has been computed in accordance with the 1967 Screening Board Resolution. (See Trunk Highway Turnback resolution.) Maintenance allowance was computed for streets that had turnback projects let in 1996.

Msas Route No.	Date of Release	Project Number	Plan Approved	Total Mileage	Miles Const.	Miles Eligible for TB Maint.	Date of MSAS Designation	Maintenance Allowance Eligible Miles X \$7,200	Total Turnback Maintenance Allocation
Brooklyn Park									
139 (TH 252)	7-15-94		No	2.94	0.00	2.94	12-94	\$21,168	\$21,168
Cambridge									
113 (TH 65)	11-1-94		No	2.15	0.00	2.15	12-94	15,480	15,480
Chisholm									
248 (TH 169)	12-30-94	111-248-01	Yes	0.72	0.45	0.27	12-94	1,944	1,944
Cloquet									
146 (TH 45)	11-15-94	112-146-02	Yes	1.74	0.00	1.74	11-94	12,528	12,528
Duluth									
(TH 23)	12-15-95		No	14.61	0.00	14.61	2-1-96	105,192	
(TH 61)	12-15-95		No	1.79	0.00	1.79	2-1-96	12,888	
(TH 194)	12-15-95	Constructed	No	0.95	0.95	0.00	2-1-96	0	
				17.35		16.40			118,080
Fergus Falls									
104 (TH 59)	11-1-94		No	2.55	0.00	2.55	11-94	18,360	
109 (TH 210)	11-1-94		No	2.11	0.00	2.11	11-94	15,192	
132 (TH 59)	11-1-94		No	1.40	0.00	1.40	11-94	10,080	
				6.06		6.06		43,632	43,632
Hibbing									
175 & 226 (TH 73)	6-91	131-175-02 131-226-02	No	2.72	2.44	0.28	7-91	2,016	2,016
St. Cloud									
115,131,145 (TH15)	10-90	162-145-01	Yes	2.33	1.11	1.22	12-90	8,784	8,784
Virginia									
225 (TH 135)	6-1-96		No	2.35	0.00	2.35	8-96	4,200	4,200
Willmar									
153 (TH 71)	6-91		No	4.47	3.86	0.61	08-96	4,392	4,392
TOTAL				61.77	4.95	56.82			\$232,224

October 23, 1996

James N. Denn, Commissioner
Minnesota Department of Transportation
Room 411
State Transportation Building
St. Paul, Minnesota 55155

Dear Commissioner Denn,

We, the undersigned, as members of the 1996 Municipal Screening Board, having reviewed all information available in relation to the 25 year money needs of the Municipal State Aid Street System, do hereby submit our findings as required by Minnesota Statutes.

We recommend that these findings be modified as required by Screening Board Resolutions, and that any new municipalities that become eligible for State Aid by special census, incorporation or annexation have their mileage and resulting money needs established and included in our findings.

This Board, therefore, recommends that the money needs, as listed on the attached, be modified as required and used as the basis for apportioning to the urban municipalities the 1997 Apportionment Sum as provided by Minnesota Statutes, Chapter 162.13, Subdivision 1..

Respectfully submitted,

Brian Bachmeier
Chairman

Vacant
Vice Chairman

John Rodeberg
Secretary

Approved by:

Dave Halter
District 1

Gary Sanders
District 2

Curt Kreklau
District 3

Gary Nansen
District 4

Jack Bittle
Metro-West

William Malin
District 6

Larry Read
District 7

John Roderberg
District 8

Dave Jessup
Metro-East

Kenneth Larson
Duluth

Ramankutty Kannankutty
Minneapolis

Paul St. Martin
St. Paul

1996 ADJUSTED CONSTRUCTION NEEDS RECOMMENDATIONS

Municipality	Adjusted Construction Needs	Municipality	Adjusted Construction Needs
Albert Lea	\$9,694,841	Forest Lake	\$4,087,138
Alexandria	8,002,077	Fridley	7,780,391
Andover	15,490,009	Golden Valley	1,588,115
Anoka	5,377,086	Glencoe	13,973,720
Apple Valley	16,511,375	Grand Rapids	6,338,901
Arden Hills	2,830,993	Ham Lake	8,528,992
Austin	15,964,769	Hastings	5,959,732
Bemidji	8,314,195	Hermantown	4,559,746
Blaine	17,154,876	Hibbing	22,364,380
Bloomington	65,941,215	Hopkins	6,771,711
Brainerd	5,537,212	Hugo	7,861,120
Brooklyn Center	17,789,490	Hutchinson	8,672,901
Brooklyn Park	18,233,486	International Falls	4,344,427
Buffalo	6,599,243	Inver Grove Heights	15,111,887
Burnsville	23,523,236	Lake Elmo	2,621,725
Cambridge	3,655,142	Lakeville	29,373,724
Champlin	4,767,636	Lino Lakes	9,195,107
Chanhassen	13,335,442	Litchfield	4,960,255
Chaska	10,074,699	Little Canada	4,780,388
Chisholm	3,393,741	Little Falls	6,937,199
Cloquet	12,068,394	Mahtomedi	1,853,531
Columbia Heights	6,731,326	Mankato	24,085,069
Coon Rapids	16,956,164	Maple Grove	24,966,482
Corcoran	5,069,187	Maplewood	11,719,272
Cottage Grove	17,060,788	Marshall	5,655,354
Crookston	12,468,603	Mendota Heights	5,868,400
Crystal	15,398,875	Minneapolis	198,816,377
Detroit Lakes	3,668,120	Minnetonka	25,140,784
Duluth	65,960,826	Montevideo	3,605,031
Eagan	20,822,584	Monticello	3,250,381
East Bethel	7,653,270	Moorhead	19,418,592
East Grand Forks	4,770,181	Morris	2,476,954
Eden Prairie	22,896,223	Mound	2,894,901
Edina	20,900,136	Mounds View	5,225,056
Elk River	13,385,641	New Brighton	6,282,405
Fairmont	17,753,090	New Hope	9,841,217
Falcon Heights	258,857	New Ulm	7,400,333
Faribault	15,026,389	North Branch	7,606,781
Farmington	8,805,440	North Mankato	6,712,285
Fergus Falls	10,365,205	North St. Paul	6,316,300

Municipality	Adjusted Construction Needs
Northfield	\$6,477,926
Oak Grove	5,889,716
Oakdale	9,659,461
Orono	8,793,149
Otsego	7,626,126
Owatonna	12,090,094
Plymouth	25,710,225
Prior Lake	9,331,996
Ramsey	10,187,535
Red Wing	15,953,967
Richfield	15,902,893
Robbinsdale	5,222,952
Rochester	39,776,353
Rosemount	13,165,904
Roseville	16,967,554
St. Anthony	3,066,172
St. Cloud	32,312,219
St. Louis Park	15,687,754
St. Michael	3,824,754
St. Paul	146,523,956
St. Peter	6,268,980
Sartell	4,584,343
Sauk Rapids	4,488,689
Savage	11,953,510
Shakopee	10,361,497
Shoreview	4,228,457
Shorewood	4,908,882
South St. Paul	6,000,625
Spring Lake Park	1,383,753
Stillwater	5,947,571
Thief River Falls	11,089,343
Vadnais Heights	1,864,608
Virginia	6,340,859
Waite Park	4,382,136
Waseca	2,854,262
West St. Paul	4,933,240
White Bear Lake	11,264,736
Willmar	11,615,702
Winona	11,415,964
Woodbury	32,610,534
Worthington	5,082,199
STATE TOTAL	\$1,692,907,722

THEORETICAL 1997 M.S.A.S. TOTAL APPORTIONMENT

The following tabulation shows each municipality's tentative money needs and population apportionment amounts for 1997. The tentative apportionment shown in this summary is for informational purposes only. The actual revenue will be announced in January 1997, when the Commissioner of Transportation determines the annual allotments.

Municipalities	Theoretical Population Apportion- ment	Theoretical Money Needs Apportion- ment	Theoretical 1997 Total Apportion- ment	Distribution Percentage
Albert Lea	\$274,771	\$258,494	\$533,265	0.5877
Alexandria	124,165	213,360	337,525	0.3720
Andover	307,591	413,011	720,602	0.7941
Anoka	263,111	143,370	406,481	0.4480
Apple Valley	610,530	440,244	1,050,774	1.1580
Arden Hills	143,463	75,483	218,946	0.2413
Austin	330,971	425,670	756,641	0.8339
Bemidji	171,406	221,682	393,088	0.4332
Blaine	634,300	457,401	1,091,701	1.2031
Bloomington	1,304,257	1,758,195	3,062,452	3.3750
Brainerd	188,768	147,639	336,407	0.3707
Brooklyn Center	433,497	474,322	907,819	1.0005
Brooklyn Park	897,877	507,329	1,405,206	1.5486
Buffalo	119,963	175,956	295,919	0.3261
Burnsville	833,619	627,201	1,460,820	1.6099
Cambridge	79,910	112,937	192,847	0.2125
Champlin	287,437	127,120	414,557	0.4569
Chanhassen	228,566	355,564	584,130	0.6437
Chaska	210,093	268,622	478,715	0.5276
Chisholm	79,385	92,432	171,817	0.1893
Cloquet	167,474	334,308	501,782	0.5530
Columbia Heights	283,775	179,478	463,253	0.5105
Coon Rapids	900,113	452,103	1,352,216	1.4902
Corcoran	83,272	135,160	218,432	0.2407
Cottage Grove	416,074	454,893	870,967	0.9598
Crookston	122,079	332,451	454,530	0.5009
Crystal	356,978	410,581	767,559	0.8459
Detroit Lakes	109,804	97,803	207,607	0.2288
Duluth	1,285,543	1,876,797	3,162,340	3.4850
Eagan	850,591	555,194	1,405,785	1.5492
East Bethel	134,985	204,060	339,045	0.3736
East Grand Forks	134,805	127,188	261,993	0.2887
Eden Prairie	694,957	610,483	1,305,440	1.4386
Edina	702,986	557,262	1,260,248	1.3888
Elk River	199,378	356,902	556,280	0.6130

Municipalities	Theoretical Population Apportion- ment	Theoretical Money Needs Apportion- ment	Theoretical 1997 Total Apportion- ment	Distribution Percentage
Fairmont	\$170,175	\$473,352	\$643,527	0.7092
Falcon Heights	80,736	6,902	87,638	0.0966
Faribault	281,029	400,650	681,679	0.7512
Farmington	115,671	234,780	350,451	0.3862
Fergus Falls	193,225	320,000	513,225	0.5656
Forest Lake	98,113	108,976	207,089	0.2282
Fridley	425,213	207,449	632,662	0.6972
Glencoe	77,209	42,344	119,553	0.1318
Golden Valley	314,704	372,582	687,286	0.7574
Grand Rapids	122,439	169,015	291,454	0.3212
Ham Lake	153,713	227,409	381,122	0.4200
Hastings	245,989	158,905	404,894	0.4462
Hermantown	106,442	121,577	228,019	0.2513
Hibbing	270,810	598,319	869,129	0.9578
Hopkins	248,705	180,555	429,260	0.4731
Hugo	79,895	209,602	289,497	0.3190
Hutchinson	187,658	231,246	418,904	0.4616
International Falls	124,570	115,836	240,406	0.2649
Inver Grove Heights	390,353	402,929	793,282	0.8742
Lake Elmo	92,261	69,903	162,164	0.1787
Lakeville	514,608	783,193	1,297,801	1.4302
Lino Lakes	196,542	245,170	441,712	0.4868
Litchfield	92,036	132,256	224,292	0.2472
Little Canada	140,117	127,460	267,577	0.2949
Little Falls	113,975	184,967	298,942	0.3294
Mahtomedi	98,188	49,421	147,609	0.1627
Mankato	479,867	642,182	1,122,049	1.2365
Maple Grove	664,989	665,683	1,330,672	1.4665
Maplewood	503,217	312,472	815,689	0.8989
Marshall	185,047	150,789	335,836	0.3701
Mendota Heights	161,426	156,470	317,896	0.3503
Minneapolis	5,528,189	5,301,053	10,829,242	11.9343
Minnetonka	764,243	670,330	1,434,573	1.5810
Montevideo	82,612	96,121	178,733	0.1970
Monticello	88,314	86,665	174,979	0.1928
Moorhead	505,348	517,759	1,023,107	1.1275
Morris	84,442	66,043	150,485	0.1658
Mound	144,574	77,187	221,761	0.2444
Mounds View	188,498	139,316	327,814	0.3613
New Brighton	338,220	167,508	505,728	0.5573

Municipalities	Theoretical Population Apportion- ment	Theoretical Money Needs Apportion- ment	Theoretical 1997 Total Apportion- ment	Distribution Percentage
New Hope	\$327,940	\$262,397	\$590,337	0.6506
New Ulm	204,510	197,316	401,826	0.4428
North Branch	80,346	202,820	283,166	0.3121
North Mankato	170,175	178,970	349,145	0.3848
North St. Paul	192,280	168,412	360,692	0.3975
Northfield	235,109	172,721	407,830	0.4494
Oak Grove	91,495	157,038	248,533	0.2739
Oakdale	357,683	257,551	615,234	0.6780
Orono	112,190	234,452	346,642	0.3820
Otsego	94,287	203,336	297,623	0.3280
Owatonna	306,631	322,359	628,990	0.6932
Plymouth	884,791	685,513	1,570,304	1.7305
Prior Lake	197,022	248,820	445,842	0.4913
Ramsey	237,180	271,631	508,811	0.5607
Red Wing	235,619	425,382	661,001	0.7285
Richfield	535,887	424,020	959,907	1.0579
Robbinsdale	216,036	139,260	355,296	0.3916
Rochester	1,148,893	1,060,559	2,209,452	2.4349
Rosemount	175,893	351,043	526,936	0.5807
Roseville	509,355	452,407	961,762	1.0599
St. Anthony	125,485	81,754	207,239	0.2284
St. Cloud	878,879	870,327	1,749,206	1.9277
St. Louis Park	657,096	418,284	1,075,380	1.1851
St. Michael	98,429	101,980	200,409	0.2209
St. Paul	4,085,331	3,906,777	7,992,108	8.8076
St. Peter	147,560	167,150	314,710	0.3468
Sartell	105,827	122,233	228,060	0.2513
Sauk Rapids	138,301	119,682	257,983	0.2843
Savage	216,756	318,717	535,473	0.5901
Shakopee	206,371	276,269	482,640	0.5319
Shoreview	390,908	112,744	503,652	0.5550
Shorewood	101,955	130,886	232,841	0.2566
South St. Paul	303,959	159,995	463,954	0.5113
Spring Lake Park	100,800	36,895	137,695	0.1517
Stillwater	234,839	158,580	393,419	0.4336
Thief River Falls	120,848	295,676	416,524	0.4590
Vadnais Heights	185,212	49,716	234,928	0.2589
Virginia	141,528	173,267	314,795	0.3469
Waite Park	88,869	116,841	205,710	0.2267
Waseca	125,831	76,103	201,934	0.2225
West St. Paul	291,444	131,535	422,979	0.4661
White Bear Lake	387,907	300,352	688,259	0.7585
Willmar	280,444	314,102	594,546	0.6552
Winona	399,522	304,385	703,907	0.7757
Woodbury	469,077	869,497	1,338,574	1.4752
Worthington	153,969	135,500	289,469	0.3190
TOTAL	\$45,370,325	\$45,370,325	\$90,740,650	100.0000

COMPARISON OF THE 1996 TO ESTIMATED 1997 APPORTIONMENT

Municipality	1996 Total Apportionment	Estimated 1997 Total Apportionment	Increase (Decrease) Amount	% Increase Decrease
Albert Lea	\$537,861	\$533,265	(\$4,596)	-0.8545
Alexandria	297,835	337,525	39,690	13.3262
Andover	639,298	720,602	81,304	12.7177
Anoka	418,676	406,481	(12,195)	-2.9128
Apple Valley	1,094,534	1,050,774	(43,760)	-3.9980
Arden Hills	238,293	218,946	(19,347)	-8.1190
Austin	809,866	756,641	(53,225)	-6.5721
Bemidji	409,185	393,088	(16,097)	-3.9339
Blaine	1,110,316	1,091,701	(18,615)	-1.6765
Bloomington	3,168,005	3,062,452	(105,553)	-3.3318
Brainerd	329,768	336,407	6,639	2.0132
Brooklyn Center	887,462	907,819	20,357	2.2938
Brooklyn Park	1,405,630	1,405,206	(424)	-0.0302
Buffalo	267,906	295,919	28,013	10.4563
Burnsville	1,394,553	1,460,820	66,267	4.7518
Cambridge	190,366	192,847	2,481	1.3033
Champlin	443,723	414,557	(29,166)	-6.5730
Chanhassen	567,629	584,130	16,501	2.9070
Chaska	497,953	478,715	(19,238)	-3.8634
Chisholm	177,590	171,817	(5,773)	-3.2507
Cloquet	520,820	501,782	(19,038)	-3.6554
Columbia Heights	450,490	463,253	12,763	2.8331
Coon Rapids	1,355,530	1,352,216	(3,314)	-0.2445
Corcoran	254,312	218,432	(35,880)	-14.1087
Cottage Grove	897,343	870,967	(26,376)	-2.9393
Crookston	471,070	454,530	(16,540)	-3.5112
Crystal	779,816	767,559	(12,257)	-1.5718
Detroit Lakes	220,647	207,607	(13,040)	-5.9099
Duluth	3,082,778	3,162,340	79,562	2.5809
Eagan	1,479,390	1,405,785	(73,605)	-4.9754
East Bethel	329,546	339,045	9,499	2.8825
East Grand Forks	260,495	261,993	1,498	0.5751
Eden Prairie	1,352,110	1,305,440	(46,670)	-3.4516
Edina	1,192,102	1,260,248	68,146	5.7165
Elk River	620,482	556,280	(64,202)	-10.3471
Fairmont	658,495	643,527	(14,968)	-2.2731
Falcon Heights	90,501	87,638	(2,863)	-3.1635
Faribault	696,657	681,679	(14,978)	-2.1500
Farmington	299,996	350,451	50,455	16.8186
Fergus Falls	461,375	513,225	51,850	11.2381

Municipality	1996 Total Apportionment	Estimated 1997 Total Apportionment	Increase (Decrease) Amount	% Increase Decrease
Forest Lake	\$170,459	\$207,089	\$36,630	21.4890
Fridley	648,663	632,662	(16,001)	-2.4668
Glencoe	0	119,553	119,553	100.0000
Golden Valley	693,664	687,286	(6,378)	-0.9195
Grand Rapids	304,724	291,454	(13,270)	-4.3548
Ham Lake	386,586	381,122	(5,464)	-1.4134
Hastings	422,656	404,894	(17,762)	-4.2025
Hermantown	221,931	228,019	6,088	2.7432
Hibbing	902,589	869,129	(33,460)	-3.7071
Hopkins	435,140	429,260	(5,880)	-1.3513
Hugo	293,800	289,497	(4,303)	-1.4646
Hutchinson	345,973	418,904	72,931	21.0800
International Falls	246,145	240,406	(5,739)	-2.3316
Inver Grove Heights	651,447	793,282	141,835	21.7723
Lake Elmo	165,685	162,164	(3,521)	-2.1251
Lakeville	1,319,952	1,297,801	(22,151)	-1.6782
Lino Lakes	411,278	441,712	30,434	7.3999
Litchfield	218,635	224,292	5,657	2.5874
Little Canada	268,621	267,577	(1,044)	-0.3887
Little Falls	307,328	298,942	(8,386)	-2.7287
Mahtomedi	145,353	147,609	2,256	1.5521
Mankato	1,144,832	1,122,049	(22,783)	-1.9901
Maple Grove	1,388,421	1,330,672	(57,749)	-4.1593
Maplewood	806,681	815,689	9,008	1.1167
Marshall	348,725	335,836	(12,889)	-3.6960
Mendota Heights	290,865	317,896	27,031	9.2933
Minneapolis	11,223,271	10,829,242	(394,029)	-3.5108
Minnetonka	1,497,398	1,434,573	(62,825)	-4.1956
Montevideo	192,774	178,733	(14,041)	-7.2837
Monticello	179,098	174,979	(4,119)	-2.2999
Moorhead	1,042,579	1,023,107	(19,472)	-1.8677
Morris	155,915	150,485	(5,430)	-3.4827
Mound	226,150	221,761	(4,389)	-1.9407
Mounds View	294,334	327,814	33,480	11.3748
New Brighton	520,203	505,728	(14,475)	-2.7826
New Hope	581,751	590,337	8,586	1.4759
New Ulm	412,298	401,826	(10,472)	-2.5399
North Branch	290,704	283,166	(7,538)	-2.5930
North Mankato	361,856	349,145	(12,711)	-3.5127
North St. Paul	294,275	360,692	66,417	22.5697
Northfield	424,191	407,830	(16,361)	-3.8570
Oak Grove	285,442	248,533	(36,909)	-12.9305
Oakdale	622,700	615,234	(7,466)	-1.1990
Orono	341,672	346,642	4,970	1.4546
Otsego	305,985	297,623	(8,362)	-2.7328

Municipality	1996 Total Apportionment	Estimated 1997 Total Apportionment	Increase (Decrease) Amount	% Increase Decrease
Owatonna	\$658,193	\$628,990	(\$29,203)	-4.4368
Plymouth	1,480,714	1,570,304	89,590	6.0505
Prior Lake	402,975	445,842	42,867	10.6376
Ramsey	515,547	508,811	(6,736)	-1.3066
Red Wing	657,349	661,001	3,652	0.5556
Richfield	972,796	959,907	(12,889)	-1.3249
Robbinsdale	348,117	355,296	7,179	2.0622
Rochester	2,177,163	2,209,452	32,289	1.4831
Rosemount	517,485	526,936	9,451	1.8263
Roseville	882,050	961,762	79,712	9.0371
St. Anthony	205,467	207,239	1,772	0.8624
St. Cloud	1,537,386	1,749,206	211,820	13.7779
St. Louis Park	1,112,442	1,075,380	(37,062)	-3.3316
St. Michael	0	200,409	200,409	100.0000
St. Paul	8,378,642	7,992,108	(386,534)	-4.6133
St. Peter	323,985	314,710	(9,275)	-2.8628
Sartell	188,044	228,060	40,016	21.2801
Sauk Rapids	268,514	257,983	(10,531)	-3.9220
Savage	579,191	535,473	(43,718)	-7.5481
Shakopee	407,178	482,640	75,462	18.5329
Shoreview	476,754	503,652	26,898	5.6419
Shorewood	238,083	232,841	(5,242)	-2.2018
South St. Paul	468,286	463,954	(4,332)	-0.9251
Spring Lake Park	156,199	137,695	(18,504)	-11.8464
Stillwater	388,966	393,419	4,453	1.1448
Thief River Falls	404,824	416,524	11,700	2.8901
Vadnais Heights	244,483	234,928	(9,555)	-3.9082
Virginia	342,023	314,795	(27,228)	-7.9609
Waite Park	166,562	205,710	39,148	23.5036
Waseca	212,923	201,934	(10,989)	-5.1610
West St. Paul	442,814	422,979	(19,835)	-4.4793
White Bear Lake	652,686	688,259	35,573	5.4502
Willmar	576,624	594,546	17,922	3.1081
Winona	668,208	703,907	35,699	5.3425
Woodbury	1,239,323	1,338,574	99,251	8.0085
Worthington	295,501	289,469	(6,032)	-2.0413
TOTAL	\$90,740,650	\$90,740,650	\$0	0.0000

TENTATIVE 1997 APPORTIONMENT RANKINGS

Rankings are from highest apportionment per Needs mile to lowest. Bridges in some cities increases the costs.
Glencoe and St. Michael are not included because they do not have an approved MSAS roadway system.

Municipality	1996	1997	Municipality	1996	1997	Municipality	1996	1997
	Total Needs Mileage	Tentative Population Apportionment Per Need Mile		Total Needs Mileage	Money Needs Apportionment Per Need Mile		Total Needs Mileage	Tentative Total Apportionment Per Need Mile
Falcon Heights	2.54	\$31,786	Crookston	11.12	\$29,897	Minneapolis	194.76	\$55,603
Minneapolis	194.76	28,385	Minneapolis	194.76	27,218	St. Paul	159.58	50,082
Vadnais Heights	6.86	26,999	St. Paul	159.58	24,482	New Hope	12.70	46,483
Shoreview	14.75	26,502	Fairmont	19.38	24,425	Hopkins	9.41	45,617
Maplewood	19.01	26,471	Bloomington	73.73	23,846	Crystal	17.88	42,928
Hopkins	9.41	26,430	Woodbury	37.00	23,500	Maplewood	19.01	42,908
New Hope	12.70	25,822	Crystal	17.88	22,963	Brooklyn Center	21.67	41,893
St. Paul	159.58	25,601	Farmington	10.65	22,045	Bloomington	73.73	41,536
St. Anthony	5.18	24,225	Brooklyn Center	21.67	21,888	Crookston	11.12	40,875
West St. Paul	12.12	24,047	Thief River Falls	13.56	21,805	Rochester	55.20	40,026
Coon Rapids	37.67	23,895	Savage	14.69	21,696	St. Anthony	5.18	40,008
New Brighton	14.17	23,869	New Hope	12.70	20,661	Little Canada	6.77	39,524
St. Louis Park	28.70	22,895	Mankato	31.67	20,277	St. Louis Park	28.70	37,470
Columbia Heights	12.53	22,648	Forest Lake	5.53	19,706	Forest Lake	5.53	37,448
Anoka	11.98	21,963	Chaska	13.65	19,679	Columbia Heights	12.53	36,972
Arden Hills	6.57	21,836	Buffalo	9.00	19,551	Richfield	26.21	36,624
Mahtomedi	4.55	21,580	Cambridge	5.80	19,472	Savage	14.69	36,452
Robbinsdale	10.33	20,913	Rochester	55.20	19,213	Moorhead	28.18	36,306
Northfield	11.25	20,899	Hopkins	9.41	19,188	Northfield	11.25	36,252
Rochester	55.20	20,813	Red Wing	22.59	18,831	Woodbury	37.00	36,178
Little Canada	6.77	20,697	Little Canada	6.77	18,827	Coon Rapids	37.67	35,896
South St. Paul	14.72	20,649	Lakeville	41.68	18,791	Owatonna	17.57	35,799
Richfield	26.21	20,446	Faribault	21.40	18,722	New Brighton	14.17	35,690
Brooklyn Center	21.67	20,004	Orono	12.58	18,637	Mankato	31.67	35,429
Crystal	17.88	19,965	Moorhead	28.18	18,373	St. Cloud	49.74	35,167
Waseca	6.31	19,942	Owatonna	17.57	18,347	Chaska	13.65	35,071
Brooklyn Park	45.33	19,808	Waite Park	6.45	18,115	West St. Paul	12.12	34,899
Apple Valley	31.25	19,537	Duluth	105.92	17,719	Falcon Heights	2.54	34,503
White Bear Lake	20.03	19,366	St. Cloud	49.74	17,498	Robbinsdale	10.33	34,395
Blaine	32.78	19,350	Sartell	7.16	17,072	White Bear Lake	20.03	34,361
Spring Lake Park	5.23	19,273	Cloquet	19.78	16,901	Vadnais Heights	6.86	34,246
Eagan	44.31	19,196	Chanhassen	21.53	16,515	Shoreview	14.75	34,146
Mounds View	9.82	19,195	Rosemount	21.34	16,450	Anoka	11.98	33,930
Burnsville	43.69	19,080	Maplewood	19.01	16,437	North St. Paul	10.68	33,773
Champlin	15.22	18,885	Litchfield	8.06	16,409	Apple Valley	31.25	33,625
Oakdale	19.01	18,816	Prior Lake	15.17	16,402	Roseville	28.70	33,511
Winona	21.75	18,369	Inver Grove Heights	24.66	16,339	Burnsville	43.69	33,436
Stillwater	12.80	18,347	Richfield	26.21	16,178	Mounds View	9.82	33,382

Municipality	1996	1997	Municipality	1996	1997	Municipality	1996	1997
	Total Needs Mileage	Tentative Population Apportionment Per Need Mile		Total Needs Mileage	Tentative Money Needs Apportionment Per Need Mile		Total Needs Mileage	Tentative Total Apportionment Per Need Mile
Plymouth	48.84	\$18,116	Maple Grove	41.35	\$16,099	Arden Hills	6.57	\$33,325
North St. Paul	10.68	18,004	Austin	26.73	15,925	Blaine	32.78	33,304
Mound	8.05	17,960	Golden Valley	23.55	15,821	Cambridge	5.80	33,249
Moorhead	28.18	17,933	St. Peter	10.59	15,784	Fairmont	19.38	33,206
Edina	39.36	17,860	St. Anthony	5.18	15,783	Farmington	10.65	32,906
Roseville	28.70	17,748	North St. Paul	10.68	15,769	Buffalo	9.00	32,880
Forest Lake	5.53	17,742	Roseville	28.70	15,763	Mahtomedi	4.55	32,442
Bloomington	73.73	17,690	Lino Lakes	15.57	15,746	Oakdale	19.01	32,364
St. Cloud	49.74	17,669	Hutchinson	14.73	15,699	Winona	21.75	32,364
Owatonna	17.57	17,452	Alexandria	13.68	15,596	Maple Grove	41.35	32,181
Fridley	25.34	16,780	Otsego	13.08	15,546	Inver Grove Heights	24.66	32,169
Eden Prairie	42.76	16,253	Cottage Grove	29.32	15,515	Plymouth	48.84	32,152
Maple Grove	41.35	16,082	Bemidji	14.35	15,448	Edina	39.36	32,018
Inver Grove Heights	24.66	15,829	Northfield	11.25	15,353	Waseca	6.31	32,002
Worthington	9.81	15,695	North Mankato	11.86	15,090	Waite Park	6.45	31,893
International Falls	8.06	15,455	White Bear Lake	20.03	14,995	Faribault	21.40	31,854
Chaska	13.65	15,391	Grand Rapids	11.36	14,878	Sartell	7.16	31,852
Sauk Rapids	9.03	15,316	Fergus Falls	21.86	14,639	Eagan	44.31	31,726
Minnetonka	49.94	15,303	St. Louis Park	28.70	14,574	South St. Paul	14.72	31,519
Mankato	31.67	15,152	Elk River	24.58	14,520	Lakeville	41.68	31,137
Hastings	16.62	14,801	Monticello	5.99	14,468	Brooklyn Park	45.33	30,999
Sartell	7.16	14,780	International Falls	8.06	14,372	Stillwater	12.80	30,736
Savage	14.69	14,755	Burnsville	43.69	14,356	Thief River Falls	13.56	30,717
Monticello	5.99	14,744	Columbia Heights	12.53	14,324	Eden Prairie	42.76	30,529
Albert Lea	18.65	14,733	Shakopee	19.33	14,292	Duluth	105.92	29,856
Marshall	12.73	14,536	Eden Prairie	42.76	14,277	International Falls	8.06	29,827
New Ulm	14.15	14,453	Mounds View	9.82	14,187	St. Peter	10.59	29,718
North Mankato	11.86	14,349	Edina	39.36	14,158	Cottage Grove	29.32	29,706
Cottage Grove	29.32	14,191	Shorewood	9.29	14,089	Worthington	9.81	29,508
St. Peter	10.59	13,934	Apple Valley	31.25	14,088	North Mankato	11.86	29,439
Waite Park	6.45	13,778	Virginia	12.33	14,052	Prior Lake	15.17	29,390
Cambridge	5.80	13,778	Plymouth	48.84	14,036	Red Wing	22.59	29,261
Golden Valley	23.55	13,363	Winona	21.75	13,995	Monticello	5.99	29,212
Buffalo	9.00	13,329	Blaine	32.78	13,954	Golden Valley	23.55	29,184
Brainerd	14.25	13,247	New Ulm	14.15	13,945	Minnetonka	49.94	28,726
Faribault	21.40	13,132	Albert Lea	18.65	13,860	Albert Lea	18.65	28,593
Prior Lake	15.17	12,988	Worthington	9.81	13,812	Sauk Rapids	9.03	28,570
Hutchinson	14.73	12,740	Hugo	15.21	13,781	Hutchinson	14.73	28,439
Morris	6.66	12,679	Oakdale	19.01	13,548	New Ulm	14.15	28,398
Woodbury	37.00	12,678	Little Falls	13.71	13,491	Lino Lakes	15.57	28,369
Lino Lakes	15.57	12,623	Robbinsdale	10.33	13,481	Austin	26.73	28,307
Austin	26.73	12,382	Minnetonka	49.94	13,423	Litchfield	8.06	27,828

1996			1997			1996			1997			1996			1997		
Total			Tentative			Total			Tentative			Total			Tentative		
Needs			Population			Needs			Money Needs			Needs			Total		
Municipality	Mileage	Per Need Mile	Municipality	Mileage	Per Need Mile	Municipality	Mileage	Per Need Mile	Municipality	Mileage	Per Need Mile	Municipality	Mileage	Per Need Mile	Municipality	Mileage	Per Need Mile
Lakeville	41.68	\$12,347	Sauk Rapids	9.03	\$13,254	Orono			Orono	12.58	\$27,555	Orono	12.58	\$27,555	Orono	12.58	\$27,555
Duluth	105.92	12,137	Willmar	23.91	13,137	Mound			Mound	8.05	27,548	Mound	8.05	27,548	Mound	8.05	27,548
Mendota Heights	13.51	11,949	North Branch	15.64	12,968	Bemidji			Bemidji	14.35	27,393	Bemidji	14.35	27,393	Bemidji	14.35	27,393
Bemidji	14.35	11,945	Eagan	44.31	12,530	Champlin			Champlin	15.22	27,238	Champlin	15.22	27,238	Champlin	15.22	27,238
Willmar	23.91	11,729	Stillwater	12.80	12,389	Chanhassen			Chanhassen	21.53	27,131	Chanhassen	21.53	27,131	Chanhassen	21.53	27,131
Detroit Lakes	9.54	11,510	Andover	33.99	12,151	Marshall			Marshall	12.73	26,381	Marshall	12.73	26,381	Marshall	12.73	26,381
Virginia	12.33	11,478	Waseca	6.31	12,061	Spring Lake Park			Spring Lake Park	5.23	26,328	Spring Lake Park	5.23	26,328	Spring Lake Park	5.23	26,328
Litchfield	8.06	11,419	Chisholm	7.68	12,035	Grand Rapids			Grand Rapids	11.36	25,656	Grand Rapids	11.36	25,656	Grand Rapids	11.36	25,656
East Grand Forks	11.82	11,405	Coon Rapids	37.67	12,002	Virginia			Virginia	12.33	25,531	Virginia	12.33	25,531	Virginia	12.33	25,531
Crookston	11.12	10,978	Anoka	11.98	11,967	Cloquet			Cloquet	19.78	25,368	Cloquet	19.78	25,368	Cloquet	19.78	25,368
Shorewood	9.29	10,975	Montevideo	8.08	11,896	Shorewood			Shorewood	9.29	25,064	Shorewood	9.29	25,064	Shorewood	9.29	25,064
Farmington	10.65	10,861	Marshall	12.73	11,845	Shakopee			Shakopee	19.33	24,968	Shakopee	19.33	24,968	Shakopee	19.33	24,968
Grand Rapids	11.36	10,778	New Brighton	14.17	11,821	Fridley			Fridley	25.34	24,967	Fridley	25.34	24,967	Fridley	25.34	24,967
Shakopee	19.33	10,676	Hibbing	50.74	11,792	Willmar			Willmar	23.91	24,866	Willmar	23.91	24,866	Willmar	23.91	24,866
Chanhassen	21.53	10,616	Mendota Heights	13.51	11,582	Rosemount			Rosemount	21.34	24,692	Rosemount	21.34	24,692	Rosemount	21.34	24,692
Red Wing	22.59	10,430	Arden Hills	6.57	11,489	Alexandria			Alexandria	13.68	24,673	Alexandria	13.68	24,673	Alexandria	13.68	24,673
Chisholm	7.68	10,337	Brooklyn Park	45.33	11,192	Hastings			Hastings	16.62	24,362	Hastings	16.62	24,362	Hastings	16.62	24,362
Montevideo	8.08	10,224	South St. Paul	14.72	10,869	Brainerd			Brainerd	14.25	23,608	Brainerd	14.25	23,608	Brainerd	14.25	23,608
Lake Elmo	9.53	9,681	Mahtomedi	4.55	10,862	Mendota Heights			Mendota Heights	13.51	23,530	Mendota Heights	13.51	23,530	Mendota Heights	13.51	23,530
Alexandria	13.68	9,076	West St. Paul	12.12	10,853	Fergus Falls			Fergus Falls	21.86	23,478	Fergus Falls	21.86	23,478	Fergus Falls	21.86	23,478
Andover	33.99	9,049	East Grand Forks	11.82	10,760	Otsego			Otsego	13.08	22,754	Otsego	13.08	22,754	Otsego	13.08	22,754
Orono	12.58	8,918	Brainerd	14.25	10,361	Elk River			Elk River	24.58	22,631	Elk River	24.58	22,631	Elk River	24.58	22,631
Thief River Falls	13.56	8,912	Detroit Lakes	9.54	10,252	Morris			Morris	6.66	22,595	Morris	6.66	22,595	Morris	6.66	22,595
Fergus Falls	21.86	8,839	Ham Lake	22.85	9,952	Chisholm			Chisholm	7.68	22,372	Chisholm	7.68	22,372	Chisholm	7.68	22,372
Fairmont	19.38	8,781	Morris	6.66	9,916	East Grand Forks			East Grand Forks	11.82	22,165	East Grand Forks	11.82	22,165	East Grand Forks	11.82	22,165
Cloquet	19.78	8,467	Mound	8.05	9,588	Montevideo			Montevideo	8.08	22,120	Montevideo	8.08	22,120	Montevideo	8.08	22,120
Little Falls	13.71	8,313	Hastings	16.62	9,561	Little Falls			Little Falls	13.71	21,805	Little Falls	13.71	21,805	Little Falls	13.71	21,805
Ramsey	28.73	8,255	Corcoran	14.18	9,532	Detroit Lakes			Detroit Lakes	9.54	21,762	Detroit Lakes	9.54	21,762	Detroit Lakes	9.54	21,762
Rosemount	21.34	8,242	Ramsey	28.73	9,455	Andover			Andover	33.99	21,200	Andover	33.99	21,200	Andover	33.99	21,200
Hermantown	12.99	8,194	Oak Grove	16.72	9,392	Hugo			Hugo	15.21	19,033	Hugo	15.21	19,033	Hugo	15.21	19,033
Elk River	24.58	8,111	Hermantown	12.99	9,359	North Branch			North Branch	15.64	18,105	North Branch	15.64	18,105	North Branch	15.64	18,105
Otsego	13.08	7,208	Champlin	15.22	8,352	Ramsey			Ramsey	28.73	17,710	Ramsey	28.73	17,710	Ramsey	28.73	17,710
Ham Lake	22.85	6,727	East Bethel	24.64	8,282	Hermantown			Hermantown	12.99	17,553	Hermantown	12.99	17,553	Hermantown	12.99	17,553
Corcoran	14.18	5,872	Fridley	25.34	8,187	Hibbing			Hibbing	50.74	17,129	Hibbing	50.74	17,129	Hibbing	50.74	17,129
East Bethel	24.64	5,478	Shoreview	14.75	7,644	Lake Elmo			Lake Elmo	9.53	17,016	Lake Elmo	9.53	17,016	Lake Elmo	9.53	17,016
Oak Grove	16.72	5,472	Lake Elmo	9.53	7,335	Ham Lake			Ham Lake	22.85	16,679	Ham Lake	22.85	16,679	Ham Lake	22.85	16,679
Hibbing	50.74	5,337	Vadnais Heights	6.86	7,247	Corcoran			Corcoran	14.18	15,404	Corcoran	14.18	15,404	Corcoran	14.18	15,404
Hugo	15.21	5,253	Spring Lake Park	5.23	7,054	Oak Grove			Oak Grove	16.72	14,864	Oak Grove	16.72	14,864	Oak Grove	16.72	14,864
North Branch	15.64	5,137	Falcon Heights	2.54	2,717	East Bethel			East Bethel	24.64	13,760	East Bethel	24.64	13,760	East Bethel	24.64	13,760
Average		\$15,437				\$14,910					\$30,347						

GENERAL FUND ADVANCE

1995 year end construction balance available	\$75,966,961
Less amount required in account	(50,000,000)
Maximum amount for advance	25,966,961
Amount advanced to date in 1996	7,728,548
Balance available to advance	18,238,413

Municipality	Resolution Amount	Year	Advance Amount	Repaid Amount	Balance
Alexandria	\$345,000	1996	\$345,000	\$0	\$345,000
Buffalo	500,000	1996	500,000	0	500,000
Burnsville	750,000	1996	0	0	0
Cloquet	315,000	1996	315,000	0	315,000
Corcoran	495,717	1996	495,717	0	495,717
Elk River	500,000	1996	455,482	0	455,482
Farmington	500,000	1996	0	0	0
Fridley	140,000	1996	0	0	0
Golden Valley	884,000	1996	0	0	0
Lakeville	1,319,952	1996	1,319,952	0	1,319,952
Little Falls	500,000	1996	0	0	0
Mahtomedi	382,380	1995	373,134	139,428	233,706
Minnetonka	400,600	1996	305,600	0	305,600
North Mankato	120,000	1996	120,000	0	120,000
Owatonna	450,000	1996	408,072	0	408,072
Prior Lake	302,231	1996	263,000	0	263,000
St. Cloud	1,000,000	1996	1,000,000	0	1,000,000
St. Louis Park	1,000,000	1996	650,000	0	650,000
Savage	500,000	1996	0	0	0
Shakopee	500,000	1996	164,000	0	164,000
Shoreview	279,696	1996	279,696	0	279,696
Waite Park	208,000	1995	234,085	158,276	75,809
White Bear Lake	489,514	1996	489,514	0	489,514
Winona	534,682	1996	0	0	0
Woodbury	1,010,000	1996	308,000	0	308,000
	\$13,426,772		\$8,026,252	\$297,704	\$7,728,548

Cities that repaid their advance from the 1996 Apportionment.

Cottage Grove	359,860	1995	359,860	359,860	0
Crookston	150,000	1995	60,190	60,190	0
Eagan	1,312,053	1995	945,482	945,482	0
Spring Lake Park	116,178	1995	116,178	116,178	0
Total	\$1,938,090		\$1,481,709	\$1,481,709	\$0

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September 23, 1996

Mr Brian Bachmeier, P.E.
Oakdale City Engineer
Chair, Municipal Screening Board
1584 Hadley Ave. N.
Oakdale, Minnesota, 55128

Mr. Ken Straus
Manager, Municipal State Aid Needs
420 Transportation Bldg.
395 John Ireland Blvd.
St. Paul, Minnesota, 55155-1899

Re: Minneapolis MSA Unencumbered Construction Fund Balance

Dear Mr Bachmeier:
Mr Straus:

The City of Minneapolis requests review and approval from the Municipal State Aid Screening Board for an adjustment in its Unencumbered Construction Fund Balance after the September 1st deadline set by Screening Board Resolution - Oct 1961 (Revised October 1991)

The City of Minneapolis has experienced delays that have made it unable to place major projects under an approved Force Account Agreement by the September 1st date. The delays can be attributed to the following:

1. Review and plan modifications requested and/or initiated by other governmental agencies, ie. Trunk Highway and Hennepin County.
2. Last minute Neighborhood and Business concerns required changes and/or additions to the plan.
3. A change in Minneapolis's Finance system, implemented in the spring of 1996, delayed reports on accumulated preliminary engineering expenditures. The State Aid Manual, 5-892.402 (A), and State Aid Rule 8820.1500, Subp. 4, states that preliminary engineering expenditures must be reported with the report of state-aid contract in order it initiate release of funds. Wanting to recover our preliminary engineering costs delayed our submittal of report of



state-aid contracts by the September 1st deadline.

The required financial information has been made available in the recent weeks. We anticipate encumbrances of and additional \$8,000,000.00 by the middle of October 1996.

The projects and estimated encumbrance's are and follows.

- A. S.A.P. 141-221-06 Et.Al.
Emerson Ave. N. (from W. Broadway to 33rd Ave. N.)
Approved Force Account Agreement in place and billing is in process.
Estimated Encumbrance, \$2,058,000
- B. S.A.P. 141-206-01 Et.Al.
North Loop Commercial Paving Area
Approved Force Account Agreement in place and billing is in process.
Estimated Encumbrance, \$981,000
- C. S.A.P. 141-283-07 Et.Al.
Nicollet Avenue South (from Grant St. to Cecil Newman Lane)
Approved Force Account Agreement in place and billing is in process.
Estimated Encumbrance, \$3,208,000
- D. S.A.P. 141-284-04 Et.Al.
North East Retail Development Area
Plan Submitted to Metro State Aid Office, anticipate final approval.
Estimated Encumbrance, \$2,058,000
- E. S.A.P. 141-239-13
E. 26th Street (from 3rd Ave. to I-35W)
Approved Force Account Agreement in place and billing is in process.
Estimated Encumbrance, \$125,000

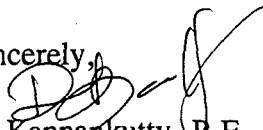
After years of concern by the Screening Board about the large unencumbered construction fund balance in the Municipal State Aid Fund, Minneapolis has made an effort to reduce its Unencumbered Construction Fund Balance. Minneapolis has been able to reduce its construction fund balance from \$17,656,740 in 1990 to a \$11,131,300 in 1994 through aggressive project development and timely billings. If the Screening Board approves our request, an additional reduction of \$8,000,000 in 1996 will not only make a significant reduction Minneapolis's Unencumbered Construction Fund Balance but also reduce the statewide Municipal State Aid Unencumbered Construction Fund Balance for 1996.

It should be noted that the statewide Municipal State Aid Unencumbered Construction

Fund Balance in 1990 was \$119,384,013 and the 1994 balance had been reduced to \$89,545,533, a reduction of \$29,838,480. In the same time period Minneapolis reduced it's fund balance by \$6,525,440 or 22% of the statewide reduction.

In conclusion; The City of Minneapolis has made a conscious and concerted effort to reduce its State Aid Unencumbered Construction Fund Balance in the past few years and is committed to continue that effort, not only for its benefit but for the benefit of the MSA System. Therefore we request that the Municipal State Aid Screening Board approve an adjustment to the 1996 Unencumbered Construction Fund Balance of the City of Minneapolis after September 1, 1996 for projects listed and described above.

If you have any question or concerns please feel free to phone me at 673-2456. Thank you and the Screening Board for your consideration on this request.

Sincerely,

R. Kannankutty, P.E.
City of Minneapolis
Department of Public Works
Engineering Design

KK:DS

PAST HISTORY OF ADMINISTRATIVE ACCOUNT

1 1/2 % of the total funds available are set aside for the administration of State Aid. The account is used for expenses of Screening Board meetings, Variances meetings, printing of State Aid material etc..

Year	Allotment	Balance	Spent
1958	\$113,220	\$48,310	\$64,910
1959	125,999	55,370	70,629
1960	129,466	58,933	70,533
1961	140,825	75,036	65,789
1962	137,980	70,875	67,105
1963	144,585	75,094	69,491
1964	168,526	102,385	66,141
1965	173,875	96,136	77,739
1966	178,253	85,079	93,174
1967	190,524	122,185	68,339
1968	219,458	117,878	101,580
1969	231,452	134,416	97,036
1970	252,736	147,968	104,768
1971	279,357	165,927	113,430
1972	280,143	167,410	112,733
1973	284,923	160,533	124,390
1974	333,944	130,460	203,484
1975	349,512	158,851	190,661
1976	347,940	264,874	83,066
1977	424,767	160,365	264,402
1978	426,786	139,580	287,206
1979	473,075	257,782	215,293
1980	521,544	171,544	350,000
1981	544,123	222,062	322,061
1982	646,373	251,781	394,592
1983	710,025	297,847	412,178
1984	745,773	322,730	423,043
1985	874,173	421,719	452,454
1986	903,824	427,562	476,262
1987	806,340	331,589	474,751
1988	895,092	387,171	507,921
1989	1,111,120	582,918	528,202
1990	1,248,109	218,586	1,029,523
1991	1,216,604	502,044	714,560
1992	1,239,228	493,170	746,058
1993	1,274,377	466,634	807,743
1994	1,231,781	417,972	813,809
1995	1,251,307	153,996	1,097,311
1996	1,394,929		

The unexpended balance of the administration account at the end of the year is transferred back to the state aid fund from which it was obtained for distribution.

RESEARCH ACCOUNT MOTION

Each year the Screening Board, provided for in section 162.13, Subdivision 3, may recommend to the commissioner a sum of money that the commissioner shall set aside from the municipal state aid street fund and credit to a research account. The amount so recommended shall not exceed 1/2 of 1% of the preceding apportionment. Any balance remaining in the research account at the end of the each year from sum set aside for the year immediately previous, shall be transferred to the MSAS fund.

Be it resolved that an amount of \$453,703 (not to exceed 1/2 of 1% of the 1996 M.S.A.S. Apportionment sum of \$90,740,650) shall be set aside from the 1997 Apportionment fund and be credited to the research account.

MOTION BY:
SECONDED BY:

PAST HISTORY OF RESEARCH ACCOUNT			
	Allotment	Balance	Spent
1958	\$0	\$0	\$0
1959	0	0	0
1960	20,271	10,911	9,360
1961	20,926	18,468	2,458
1962	22,965	21,661	1,304
1963	22,594	18,535	4,059
1964	23,627	24,513	0
1965	27,418	15,763	11,655
1966	28,426	17,782	10,644
1967	29,155	31,944	0
1968	31,057	28,433	2,624
1969	35,719	34,241	1,478
1970	37,803	35,652	2,151
1971	41,225	37,914	3,311
1972	45,227	44,468	759
1973	45,846	36,861	8,985
1974	46,622	19,268	27,354
1975	54,321	35,755	18,566
1976	57,103	33,901	23,202
1977	56,983	33,674	23,309
1978	68,990	70,787	0
1979	69,665	0	69,665
1980	77,116	36,352	40,764
1981	85,031	33,940	51,091
1982	88,920	47,990	40,930
1983	105,082	37,656	67,426
1984	115,766	57,879	57,887
1985	121,838	73,118	48,720
1986	142,188	98,607	43,581
1987	147,745	82,479	65,266
1988	132,754	72,201	60,553
1989	145,953	42,379	103,574
1990	191,254	40,960	150,294
1991	203,793	3,445	200,348
1992	202,774	19,247	183,527
1993	207,386	18,150	189,236
1994	403,939	0	403,939
1995	403,415	0	403,415
1996	408,593		

NEEDS QUANTITY TABLE REVIEW

A review of the Needs Rural and Urban Quantity Tables was made to see if the Gravel Equivalency (G.E.) from the Equivalency Chart in the State Aid Manual Fig.B 5-892.201 when applied against the depths matched the amount required for design. The following sheets show the comparison between the total G.E. used in the needs and the amount required for street construction. In some areas the total varied considerably. The reason may lie when concrete was removed from the MSA Needs in 1982 that additional bituminous G.E. was used to compensate for the cost of concrete. When the conversion was made, the records indicate that a concrete roadway costs 45% more than a bituminous roadway. Is this true today?

In the computation of needs for a roadway segment, the computer uses the soil factor and the projected traffic category quantity and applies it against the unit price.

The two Needs Quantity Design Tables were broken up individually into parts, one considering base and the other Bituminous. In the Urban Design Table, the G.E. appears to be low for the subbase and base and high for the bituminous. The Rural chart indicates that the total G.E. is low in all traffic categories. Should a change be made so that needs charts compare with design requirements?

The Needs Study Subcommittee has reviewed these charts and is recommending a further review be done with the possibility of adjusting the depths and quantities so that the G.E. is brought in line with the required amounts and be presented to the June Screening Board.

**Municipal State Aid Street Needs Study
URBAN DESIGN QUANTITY TABLE
(Quantities Based On A One Mile Section)**

Design Data	Soil Type	Grading Cubic Yards	Grading Depth Inches	No. 2211 CL. 4 Subbase (Tons)	Subbase Depth Inches	No. 2211 CL. 5 Gravel Base (Tons)	No. 2331 Bit. Base (Tons)	No. 2341 Bit. Surf. (Tons)	Additional Surface (Tons)	No. 2361 Second Surface (Tons)
Proj. ADT 1-1999 44 Feet 2 Traffic Lane - 9 Ton 2 Parking Lanes	50 75 100 130	15990 18378 22386 23998	20.5" 23.5" 28.5" 30.5"	0 4288 11485 14379	0" 3" 8" 10"				No. 2341 2581 (2")	
Proj. ADT 2000-4999 44 Feet 2 Traffic Lane - 9 Ton 2 Parking Lanes	50 75 100 130	16388 18778 22788 24402	21" 24" 29" 31"	0 4288 11485 14379	0" 3" 8" 10"				No. 2341 2581 (2")	
Proj. ADT 5000 & Over 48 Feet 2 Traffic Lane - 9 Ton 2 Parking Lanes	50 75 100 130	19048 21640 26860 29488	22.5" 25.5" 31.5" 34.5"	0 4644 14000 18711	0" 3" 9" 12"				No. 2361 1420 (1")	1420 (1")
Proj. ADT 7,000-9,999 68 Feet 4 Traffic Lane - 9 Ton 2 Parking Lanes	50 75 100 130	28762 32340 41940 45562	24.5" 27.5" 35.5" 38.5"	0 6426 23673 30181	0" 3" 11" 14"				No. 2361 2065 (1")	2065 (1")
Proj. ADT 10,000 & Over 72 Feet 4 Traffic Lane - 9 Ton 2 Parking Lanes	50 75 100 130	34133 37919 46799 53184	27.5" 30.5" 37.5" 42.5"	0 6783 22695 34136	0" 3" 10" 15"				No. 2361 2194 (1")	2194 (1")

This table is for needs study reference only and is not to be construed as a guide for rigid or flexible design determination.

Quantities of approved street widths will be prorated. When the quantities from the table do not apply, use an estimated amount.

MSAS - URBAN CHART 1
SUBBASE CLASS 4 & BASE CLASS 5
GRAVEL EQUIVALENCY APPLIED TO NEEDS QUANTITY TABLE
 MSAS - Urban Design Quantity Table

This chart makes a G.E. comparison to the needs quantity table and what is required for construction.

The required G.E. for construction and needs vary. The required G.E. for the different soil factors was taken from the State Aid Manual chart Fig. B 892.201.

HCADT	G.E. APPLIED PER INCH		0.75	(A)	1.00	(B)	(A + B)	COUNTY NEEDS TOTAL SUBBASE & BASE G.E.
	DESIGN DATA	SOIL TYPE	NEEDS SUBBASE CLASS 4 DEPTH	NEEDS SUBBASE CLASS 4 G.E.	NEEDS BASE CLASS 5 DEPTH	NEEDS BASE CLASS 5 G.E.	MSAS NEEDS TOTAL SUBBASE & BASE G.E.	
0 - 150	Proj. ADT 1-1999	50	0"	0	4"	4.00	4.00	7.00
	44 Feet - 9 ton	75	3"	2.25	4"	4.00	6.25	11.50
	2 Traffic Lanes	100	8"	6.00	4"	4.00	10.00	16.00
	2 Parking Lanes	130	10"	7.50	4"	4.00	11.50	21.25
150 - 300	Proj. ADT 2000-4999	50	0"	0	4"	4.00	4.00	7.00
	44 Feet - 9 ton	75	3"	2.25	4"	4.00	6.25	11.50
	2 Traffic Lanes	100	8"	6.00	4"	4.00	10.00	16.00
	2 Parking Lanes	130	10"	7.50	4"	4.00	11.50	21.25
300 - 600	Proj. ADT 5000 & over	50	0"	0	4"	4.00	4.00	3.00 *
	48 Feet - 9 ton	75	3"	2.25	4"	4.00	6.25	3.00 *
	2 Traffic Lanes	100	9"	6.75	4"	4.00	10.75	6.00 *
	2 Parking Lanes	130	12"	9.00	4"	4.00	13.00	6.00 *
600 - 1100	Proj. ADT 7000-9999	50	0"	0	5"	5.00	5.00	8.00
	68 Feet - 9 ton	75	3"	2.25	5"	5.00	7.25	13.25
	4 Traffic Lanes	100	11"	8.25	5"	5.00	13.25	18.50
	2 Parking Lanes	130	14"	10.50	5"	5.00	15.50	24.50
1100 & OVER	Proj. ADT 10000 & over	50	0"	0	7"	7.00	7.00	3.00 *
	72 Feet - 9 ton	75	3"	2.25	7"	7.00	9.25	3.00 *
	4 Traffic Lanes	100	10"	7.50	7"	7.00	14.50	6.00 *
	2 Parking Lanes	130	15"	11.25	7"	7.00	18.25	6.00 *

UNIT PRICE IN NEEDS

SUBBASE CLASS 4

\$4.70 TON

BASE CLASS 5

\$6.20 TON

* CONCRETE SURFACE

MSAS - URBAN CHART 3
BITUMINOUS SURFACE
GRAVEL EQUIVALENCY APPLIED TO NEEDS QUANTITY TABLE
 MSAS - Urban Design Quantity Table

This chart makes a G.E. comparison to the needs quantity table and what is required for construction.

The required G.E. for construction and needs vary. A required G.E. for the different soil factors was taken from the State Aid Manual chart Fig. B 892.201.

HCA DT	G.E. APPLIED PER INCH		2.00	(A)		2.25	(B)		2.25	COMPARISONS			2.25	
										(A+B+C)	TOTAL	COUNTY NEEDS	MSAS	
	DESIGN DATA	SOIL TYPE	2331 BIT. BASE DEPTH	2331 BIT. BASE G.E.	2341 BIT. SURF. DEPTH	2341 BIT. SURF. G.E.	2361 SECOND BIT. SURF. DEPTH	2361 SECOND BIT. SURF. G.E.	2361 SECOND BIT. SURF. G.E.	MSAS NEEDS TOTAL BIT. SURF. G.E.	TOTAL BIT. SURF. CONST. G.E. REQ.	TOTAL BIT. SURF. G.E.	ADDITIONAL BIT. SURF. DEPTH	ADDITIONAL BIT. SURF. G.E.
0 - 150	Proj. ADT 1-1999	50	1.5"	3.00	3"	6.75				9.75	7.00	7.38	2" - 2341	4.50
	44 Feet - 9 ton	75	1.5"	3.00	3"	6.75				9.75	7.00	7.38	2" - 2341	4.50
	2 Traffic Lanes	100	1.5"	3.00	3"	6.75				9.75	7.00	7.38	2" - 2341	4.50
	2 Parking Lanes	130	1.5"	3.00	3"	6.75				9.75	7.00	7.38	2" - 2341	4.50
150 - 300	Proj. ADT 2000-4999	50	2"	4.00	3"	6.75				10.75	7.00	7.38	2" - 2341	4.50
	44 Feet - 9 ton	75	2"	4.00	3"	6.75				10.75	7.00	7.38	2" - 2341	4.50
	2 Traffic Lanes	100	2"	4.00	3"	6.75				10.75	7.00	7.38	2" - 2341	4.50
	2 Parking Lanes	130	2"	4.00	3"	6.75				10.75	7.00	7.38	2" - 2341	4.50
300 - 600	Proj. ADT 5000 & over	50	2.5"	5.00	3"	6.75	1"	2.25		14.00	7.00		1" - 2361	2.25
	48 Feet - 9 ton	75	2.5"	5.00	3"	6.75	1"	2.25		14.00	7.00	9"	1" - 2361	2.25
	2 Traffic Lanes	100	2.5"	5.00	3"	6.75	1"	2.25		14.00	7.00	CONCRETE	1" - 2361	2.25
	2 Parking Lanes	130	2.5"	5.00	3"	6.75	1"	2.25		14.00	7.00		1" - 2361	2.25
600 - 1100	Proj. ADT 7000-9999	50	3"	6.00	3.5"	7.88	1"	2.25		16.13	8.00	7.38	1" - 2361	2.25
	68 Feet - 9 ton	75	3"	6.00	3.5"	7.88	1"	2.25		16.13	8.00	7.38	1" - 2361	2.25
	4 Traffic Lanes	100	3"	6.00	3.5"	7.88	1"	2.25		16.13	8.00	7.38	1" - 2361	2.25
	2 Parking Lanes	130	3"	6.00	3.5"	7.88	1"	2.25		16.13	8.00	7.38	1" - 2361	2.25
1100 & OVER	Proj. ADT 10000 & over	50	4"	8.00	3.5"	7.88	1"	2.25		18.13	8.00		1" - 2361	2.25
	72 Feet - 9 ton	75	4"	8.00	3.5"	7.88	1"	2.25		18.13	8.00	9"	1" - 2361	2.25
	4 Traffic Lanes	100	4"	8.00	3.5"	7.88	1"	2.25		18.13	8.00	CONCRETE	1" - 2361	2.25
	2 Parking Lanes	130	4"	8.00	3.5"	7.88	1"	2.25		18.13	8.00		1" - 2361	2.25

UNIT PRICE IN NEEDS

BITUMINOUS 2331	\$20.50 TON
BITUMINOUS 2341	\$23.60 TON
BITUMINOUS 2361	\$30.10 TON

MSAS - URBAN CHART 5
TOTAL COMPARISON
GRAVEL EQUIVALENCY APPLIED TO NEEDS QUANTITY TABLE
 MSAS - Urban Design Quantity Table

This chart makes a G.E. comparison to the needs quantity table and what is required for construction.
 The required G.E. for construction and needs vary. The required G.E. for the different soil factors was taken from the State Aid Manual chart
 Fig. B 892.201.

SUBBASE & BASE COMPARISON								BITUMINOUS COMPARISON			TOTAL COMPARISON		
HCADT	DESIGN DATA	SOIL TYPE	(A)	(B)	(A + B)	(C)	(D)	(E)	(F)	(G)	(A+B+E)	(C + F)	(D+G)
			NEEDS SUBBASE CLASS 4 G.E.	NEEDS BASE CLASS 5 G.E.	MSAS NEEDS TOTAL SUBBASE & BASE G.E.	REQUIRED CONSTRUCT. SUBBASE & BASE G.E.	COUNTY NEEDS TOTAL SUBBASE & BASE G.E.	MSAS NEEDS BIT. G.E.	REQUIRED DESIGN BIT. G.E.	COUNTY NEEDS BIT. G.E.	MSAS NEEDS G.E.	DESIGN REQ. G.E.	COUNTY NEEDS G.E.
0 - 150	Proj. ADT 1-1999	50	0	4.00	4.00	3.25	7.00	9.75	7.00	7.38	13.75	10.25	14.38
	44 Feet - 9 ton	75	2.25	4.00	6.25	6.90	11.50	9.75	7.00	7.38	16.00	13.90	18.88
	2 Traffic Lanes	100	6.00	4.00	10.00	10.50	16.00	9.75	7.00	7.38	19.75	17.50	23.38
	2 Parking Lanes	130	7.50	4.00	11.50	15.00	21.25	9.75	7.00	7.38	21.25	22.00	28.63
150 - 300	Proj. ADT 2000-4999	50	0	4.00	4.00	7.00	7.00	10.75	7.00	7.38	14.75	14.00	14.38
	44 Feet - 9 ton	75	2.25	4.00	6.25	10.50	11.50	10.75	7.00	7.38	17.00	17.50	18.88
	2 Traffic Lanes	100	6.00	4.00	10.00	14.00	16.00	10.75	7.00	7.38	20.75	21.00	23.38
	2 Parking Lanes	130	7.50	4.00	11.50	18.20	21.25	10.75	7.00	7.38	22.25	25.20	28.63
300 - 600	Proj. ADT 5000 & over	50	0	4.00	4.00	9.00	3.00	14.00	7.00	9" CONCRETE	18.00	16.00	9" CONCRETE
	48 Feet - 9 ton	75	2.25	4.00	6.25	13.50	3.00	14.00	7.00		20.25	20.50	
	2 Traffic Lanes	100	6.75	4.00	10.75	18.00	6.00	14.00	7.00		24.75	25.00	
	2 Parking Lanes	130	9.00	4.00	13.00	23.40	6.00	14.00	7.00		27.00	30.40	
600 - 1100	Proj. ADT 7000-9999	50	0	5.00	5.00	10.50	8.00	16.13	8.00	7.38	21.13	18.50	19.38
	68 Feet - 9 ton	75	2.25	5.00	7.25	15.70	13.25	16.13	8.00	7.38	23.38	23.70	24.63
	4 Traffic Lanes	100	8.25	5.00	13.25	21.00	18.50	16.13	8.00	7.38	29.38	29.00	29.88
	2 Parking Lanes	130	10.50	5.00	15.50	27.30	24.50	16.13	8.00	7.38	31.63	35.30	35.88
1100 & OVER	Proj. ADT 10000 & over	50	0	7.00	7.00	12.30	3.00	18.13	8.00	9" CONCRETE	25.13	20.30	9" CONCRETE
	72 Feet - 9 ton	75	2.25	7.00	9.25	18.40	3.00	18.13	8.00		27.38	26.40	
	4 Traffic Lanes	100	7.50	7.00	14.50	24.50	6.00	18.13	8.00		32.63	32.50	
	2 Parking Lanes	130	11.25	7.00	18.25	31.80	6.00	18.13	8.00		36.38	39.80	

UNIT PRICE IN NEEDS

SUBBASE CLASS 4 \$4.70 TON
 BASE CLASS 5 \$6.20 TON

2331 BITUMINOUS
 2341 BITUMINOUS
 2361 BITUMINOUS

\$20.50 TON
 \$23.60 TON
 \$30.10 TON

**Municipal State Aid Needs Study
RURAL DESIGN QUANTITY TABLE
(Quantities Based For A One Mile Section)**

Design Data	Soil Type	No. 2211 Class - 4 Gravel Base (Tons)	No. 2211 Class - 4 Gravel Base Depth	No. 2211 Class - 5 Gravel Base (Tons)	No. 2331 Bit. Base (Tons)	Initial Surface	No. 2221 Gravel Shldr. (Tons)	Additional Bit. Surface (Tons)	No. 2221 Gravel Reshoulder (Tons)
Proj. ADT 0-749 24' Surface 32' Roadbed 2 Lane 7 Ult. 9 Ton	50 75 100 130	0 4499 9339 15857	0" 4" 8" 13"	 3271 (3")	 1210 (1-1/2")	No. 2331 1-1/2" Bit. 1162 Tons	 631	No. 2331 1-1/2" Bit. 1162 Tons	 394
Proj. ADT 750-999 24' Surface 36' Roadbed 2 Lane 7 Ult. 9 Ton	50 75 100 130	0 4925 10189 17240	0" 4" 8" 13"	 3601 (3")	 1210 (1-1/2")	No. 2331 1-1/2" Bit. 1162 Tons	 778	No. 2331 1-1/2" Bit. 1162 Tons	 579
Proj. ADT 1000-1999 24' Surface 40' Roadbed 2 Lane 9 Ton	50 75 100 130	0 4107 11375 20791	0" 3" 8" 14"	 6663 (5")	 1210 (1-1/2")	No. 2341 3" Bit. 2323 Tons	 1628	No. 2341 1-1/2" Bit. 1162 Tons	 370
Proj. ADT 2,000 & Over 24' Surface 40' Roadbed 2 Lane 9 Ton	50 75 100 130	0 8531 16500 29615	0" 6" 12" 19"	 8060 (6")	 1210 (1-1/2")	No. 2341 3" Bit. 2323 Tons	 1628	No. 2341 1-1/2" Bit. 1162 Tons	 370
Proj. ADT 5,000 & Over 48' Surface 72' Roadbed 4 Lane 9 Ton	50 75 100 130	10776 25198 43893 71180	4" 9" 15" 23"	 15455 (6")	 5647 (3-1/2")	No. 2341 3-1/2" Bit. 5421 Tons	 4817	No. 2341 1-1/2" Bit. 2323 Tons	 554

This table is for needs study reference only and is not to be construed as a guide for rigid or flexible design determination.

Quantities of approved street widths will be prorated.

MSA - RURAL
SUBBASE CLASS 4 & BASE CLASS 5
GRAVEL EQUIVALENCY APPLIED TO NEEDS QUANTITY TABLE
 MSAS - Rural Design Quantity Table

This chart makes a G.E. comparison to the needs quantity table and what is required for construction.
 The required G.E. for construction and needs vary. The required G.E. for the different soil factors was taken from the State Aid Manual chart
 Fig. B 892.201.

HCADT			(A)	(B)	(C)	(D)			(A + C)	(B + D)	
	G.E. APPLIED PER INCH		0.75	0.75			1.00	1.00			
			SUBBASE		SUBBASE		BASE		TOTAL BASE		
	DESIGN DATA	SOIL TYPE	MSAS NEEDS SUBBASE CLASS 4 DEPTH	COUNTY NEEDS SUBBASE CLASS 4 DEPTH	MSAS NEEDS SUBBASE CLASS 4 G.E.	COUNTY NEEDS SUBBASE CLASS 4 G.E.	MSAS NEEDS BASE CLASS 5	COUNTY NEEDS BASE CLASS 5	MSAS NEEDS TOTAL SUBBASE & BASE G.E.	COUNTY NEEDS TOTAL SUBBASE & BASE G.E.	REQUIRED CONSTRUCT. SUBBASE & BASE G.E.
0 - 150	Proj. ADT 0-749	50	0"	0"	0	0			3.00	3.00	3.25
	24 Foot surface	75	4"	5"	3.00	3.75	3"	3"	6.00	6.75	6.90
	32' Roadbed	100	8"	8"	6.00	6.00	G.E.3.00	G.E.3.00	9.00	9.00	10.50
	2 Lanes 7 ton ult 9 ton	130	13"	11"	9.75	8.25			12.75	11.25	15.00
150 - 300	Proj. ADT 750 - 999	50	0"	0"	0	0			3.00	4.00	7.00
	24 Foot surface	75	4"	4"	3.00	3.00	3"	4"	6.00	7.00	10.50
	36' Roadbed	100	8"	9"	6.00	6.75	G.E.3.00	G.E.4.00	9.00	10.75	14.00
	2 Lanes 7 ton ult 9 ton	130	13"	16"	9.75	12.00			12.75	16.00	18.20
300 - 600	Proj. ADT 1000 - 1999	50	0"	0"	0	0			5.00	4.00	9.00
	24 Foot surface	75	3"	4"	2.25	3.00	5"	4"	7.25	7.00	13.50
	40' Roadbed	100	8"	9"	6.00	6.75	G.E.5.00	G.E.4.00	11.00	10.75	18.00
	2 Lanes 9 ton	130	14"	15"	10.50	11.25			16.50	15.25	23.40
600 - 1100	Proj. ADT 2000 & over	50	0"	3"	0	2.25			6.00	9.75	10.50
	24 Foot surface	75	6"	9"	4.50	6.75	6"	7"	10.50	13.25	15.70
	40' Roadbed	100	12"	15"	9.00	11.25	G.E.6.00	G.E.7.00	15.00	18.25	21.00
	2 Lanes 9 ton	130	19"	22"	14.25	16.50			20.25	23.50	27.30
1100 & OVER	Proj. ADT 5000 & over	50	4"	4"	3.00	3.00			6.00	11.00	12.30
	48 Foot surface	75	9"	11"	6.75	8.25	6"	8"	12.75	16.25	18.40
	72' Roadbed	100	15"	18"	11.25	13.50	G.E.6.00	G.E.8.00	17.25	21.50	24.50
	4 Lanes 9 ton	130	23"	26"	17.25	19.50			23.25	27.50	31.80

UNIT PRICE IN NEEDS

SUBBASE CLASS 4

\$4.70

TON

BASE CLASS 5

\$6.20

TON

MSA - RURAL
BITUMINOUS BASE & SURFACE
GRAVEL EQUIVALENCY APPLIED TO NEEDS QUANTITY TABLE
 MSAS - Rural Design Quantity Table

This chart makes a G.E. comparison to the needs quantity table and what is required for construction.

The required G.E. for construction and needs vary. The required G.E. for the different soil factors was taken from the State Aid Manual chart Fig. B 892.201.

G.E. APPLIED PER INCH

BIT. 2331 2.00

BIT. 2341 2.25

UNIT PRICE IN NEEDS

\$20.50

\$23.60

HCADT			(A)	(B)	(C)	(D)	(A + C)	B + D)		TOTAL AGG. BASE & BIT.		
			BIT. BASE		BIT. SURF.		TOTAL BIT. G.E. COMPARISON			G.E. COMPARISON		
			MSAS NEEDS BIT BASE	COUNTY NEEDS BIT BASE	MSAS NEEDS INITIAL SURFACE	COUNTY NEEDS INITIAL SURFACE	TOTAL MSAS NEEDS SURFACE G.E.	TOTAL COUNTY NEEDS SURFACE G.E.	REQUIRED CONSTRUCT. BIT. SURF. G.E.	TOTAL MSAS NEEDS G.E.	TOTAL COUNTY NEEDS G.E.	TOTAL DESIGN REQ. G.E.
	DESIGN DATA	SOIL TYPE										
0 - 150	Proj. ADT 0-749	50								9.00	9.00	10.25
	24 Foot surface	75	1.5"	1.5"	1.5"	1.5"				12.00	12.75	13.90
	32' Roadbed	100	No. 2331	No. 2331	No. 2331	No. 2331	6.00	6.00	7.00	15.00	15.00	17.50
	2 Lanes 7 ton ult 9 ton	130	G.E. 3.00	G.E. 3.00	G.E. 3.00	G.E. 3.00				18.75	17.25	22.00
150 - 300	Proj. ADT 750 - 999	50								9.00	11.00	14.00
	24 Foot surface	75	1.5"	2"	1.5"	1.5"				12.00	14.00	17.50
	36' Roadbed	100	No. 2331	No. 2331	No. 2331	No. 2331	6.00	7.00	7.00	15.00	17.75	21.00
	2 Lanes 7 ton ult 9 ton	130	G.E. 3.00	G.E. 4.00	G.E. 3.00	G.E. 3.00				18.75	23.00	25.20
300 - 600	Proj. ADT 1000 - 1999	50								14.75	11.00	16.00
	24 Foot surface	75	1.5"	2"	3"	1.5"				17.00	14.00	20.50
	40' Roadbed	100	No. 2331	No. 2331	No. 2341	No. 2331	9.75	7.00	7.00	20.75	17.75	25.00
	2 Lanes 9 ton	130	G.E. 3.00	G.E. 4.00	G.E. 6.75	G.E. 3.00				26.25	22.25	30.40
600 - 1100	Proj. ADT 2000 & over	50								15.75	23.50	18.50
	24 Foot surface	75	1.5"	3.5"	3"	3"				20.25	27.00	23.70
	40' Roadbed	100	No. 2331	No. 2331	No. 2341	No. 2341	9.75	13.75	8.00	24.75	32.00	29.00
	2 Lanes 9 ton	130	G.E. 3.00	G.E. 7.00	G.E. 6.75	G.E. 6.75				30.00	37.25	35.30
1100 & OVER	Proj. ADT 5000 & over	50								20.88	24.75	20.30
	48 Foot surface	75	3.5"	3.5"	3.5"	3"				27.63	26.50	26.40
	72' Roadbed	100	No. 2331	No. 2331	No. 2341	No. 2341	14.88	13.75	8.00	32.13	25.25	32.50
	4 Lanes 9 ton	130	G.E. 7.00	G.E. 7.00	G.E. 7.88	G.E. 6.75				37.13	31.25	39.80

FOR NEW CONSTRUCTION USE PROJECTED ADT / FOR RESURFACING USE PRESENT ADT

7 TON - LESS THAN 400 ADT			9 TON - 150-300 HCADT			9 TON - MORE THAN 1100 HCADT		
<u>S.F.</u>	<u>Minimum Bit. G.E.</u>	<u>Total G.E.</u>	<u>S.F.</u>	<u>Minimum Bit. G.E.</u>	<u>Total G.E.</u>	<u>S.F.</u>	<u>Minimum Bit. G.E.</u>	<u>Total G.E.</u>
50	3.0	7.25	50	7.0	14.0	50	8.0	20.3
75	3.0	9.38	75	7.0	17.5	75	8.0	26.4
100	3.0	11.5	100	7.0	21.0	100	8.0	32.5
110	3.0	12.4	110	7.0	22.4	110	8.0	35.0
120	3.0	13.2	120	7.0	23.8	120	8.0	37.4
130	3.0	14.0	130	7.0	25.2	130	8.0	39.8

7 TON - 400-1000 ADT			9 TON - 300-600 HCADT			<u>MATERIAL</u>	<u>TYPE OF MATERIAL</u>	<u>GRAVEL EQUIV.</u>
<u>S.F.</u>	<u>Minimum Bit. G.E.</u>	<u>Total G.E.</u>	<u>S.F.</u>	<u>Minimum Bit. G.E.</u>	<u>Total G.E.</u>	Plant-Mix Surf.	(PMS) 2341- -51,-61	2.25
50	3.0	9.0	50	7.0	16.0	Plant-Mix Binder	(PMB) 2341	2.25
75	3.0	12.0	75	7.0	20.5	Plant-Mix Surf.	(PMS) 2331	2.00
100	3.0	15.0	100	7.0	25.0	Plant-Mix Base	(PMB) 2331	2.00
110	3.0	16.2	110	7.0	26.8	Road-Mix Surf.	(RMS) 2321	1.50
120	3.0	17.4	120	7.0	28.6	Road-Mix Base	(RMB) 2321	1.50
130	3.0	18.6	130	7.0	30.4	Bit. Treat. Base	(Rich) 2204	1.25
						Bit. Treat. Base	(Lean) 2204	1.00
						Aggregate Base	(Cl. 5 & 6) 3138	1.00
						Aggregate Base	(Cl. 3 & 4) 3138	0.75

9 TON - LESS THAN 150 HCADT			9 TON - 600-1100 HCADT			<u>AASHTO SOIL CLASS</u>	<u>SOIL FACTOR (S.F.) ‡</u>	<u>ASSUMED R-VALUE</u>
<u>S.F.</u>	<u>Minimum Bit. G.E.</u>	<u>Total G.E.</u>	<u>S.F.</u>	<u>Minimum Bit. G.E.</u>	<u>Total G.E.</u>	A-1	50-75	70-75
50	7.0	10.25	50	8.0	18.5	A-2	50-75	30-70
75	7.0	13.9	75	8.0	23.7	A-3	50	70
100	7.0	17.5	100	8.0	29.0	A-4	100-130	20
110	7.0	19.0	110	8.0	31.1	A-5	130+	--
120	7.0	20.5	120	8.0	33.2	A-6	100	12
130	7.0	22.0	130	8.0	35.3	A-7-5	120	12
						A-7-6	130	10

NOTE: If 10-Ton design is to be used, see Road Design Manual 7-50 (10) & 7-50 (12). For full depth bituminous pavements, see Road Design Manual 7-50 (12).

Required Gravel Equivalency (G.E.) for various Soil Factors (S.F.)

FLEXIBLE PAVEMENT DESIGN USING SOIL FACTORS

Fig. B 5-892.201

CURRENT RESOLUTIONS
OF THE
MUNICIPAL SCREENING BOARD

June 1996

BE IT RESOLVED:

ADMINISTRATION

Appointments to Screening Board - Oct. 1961 (Revised June 1981)

That annually the Commissioner of Mn/DOT will be requested to appoint three (3) new members, upon recommendation of the City Engineers Association of Minnesota, to serve three (3) year terms as voting members of the Municipal Screening Board. These appointees are selected from the Nine Construction Districts together with one representative from each of the three (3) major cities of the first class.

Screening Board Chairman and Vice Chairman - June 1987

That the Chairman and Vice Chairman, nominated annually at the annual meeting of the City Engineers association of Minnesota and subsequently appointed by the Commissioner of the Minnesota Department of Transportation shall not have a vote in matters before the Screening Board unless they are also the duly appointed Screening Board Representative of a construction District or of a City of the first class.

Screening Board Secretary - Oct. 1961

That annually, the Commissioner of the Minnesota Department of Transportation (Mn/DOT) may be requested to appoint a secretary, upon recommendation of the City Engineers' Association of Minnesota, as a non-voting member of the Municipal Screening Board for the purpose of recording all Screening Board actions.

Appointment to the Needs Study Subcommittee - June 1987 (Revised June 1993)

The Screening Board Chairman shall annually appoint one city engineer, who has served on the Screening Board, to serve a three year term on the Needs Study Subcommittee. The appointment shall be made at the annual winter meeting of the City's Engineers Association. The appointed subcommittee person shall serve as chairman of the subcommittee in the third year of the appointment.

Appointment to Unencumbered Construction Funds Subcommittee - Revised June 1979

The Screening Board past Chairman be appointed to serve a three-year term on the Unencumbered Construction Fund Subcommittee. This will continue to maintain an experienced group to follow a program of accomplishments.

Appearance Screening Board - Oct. 1962 (Revised Oct. 1982)

That any individual or delegation having items of concern regarding the study of State Aid Needs or State Aid Apportionment amounts, and wishing to have consideration given to these items, shall, in a written report, communicate with the State Aid Engineer. The State Aid Engineer with concurrence of the Chairman of the Screening Board shall determine which requests are to be referred to the Screening Board for their consideration. This resolution does not abrogate the right of the Screening Board to call any person or persons before the Board for discussion purposes.

Screening Board Meeting Dates and Locations - June 1996

That the Screening Board Chairman, with the assistance of State Aid personnel, determine the dates and locations for that year's Screening Board meetings.

Research Account - Oct. 1961

That an annual resolution be considered for setting aside a reasonable amount of money for the Research Account to continue municipal street research activity.

Be it resolved that an amount of \$453,703 (not to exceed 1/2 of 1% of the 1996 MSAS Apportionment sum of \$90,740,650) shall be set aside from the 1997 Apportionment fund and be credited to the research account.

Soil Type - Oct. 1961

That the soil type classification as approved by the 1961 Municipal Screening Board, for all municipalities under Municipal State Aid be adopted for the 1962 Needs Study and 1963 apportionment on all streets in the respective municipalities. Said classifications are to be continued in use until subsequently amended or revised by Municipal Screening Board action.

Improper Needs Report - Oct. 1961

That the Office of State Aid and the District State Aid Engineer is requested to recommend an adjustment of the Needs Reporting whenever there is a reason to believe that said reports have deviated from accepted standards and to submit their recommendations to the Screening Board, with a copy to the municipality involved, or its engineer.

New Cities Needs - Oct. 1983

Any new city which has determined their eligible mileage, but does not have an approved State Aid System, their money needs will be determined at the cost per mile of the lowest other city.

Construction Cut Off Date - Oct. 1962 (Revised 1967)

That for the purpose of measuring the Needs of the Municipal State Aid Highway System, the annual cut off date for recording construction accomplishments based upon the project award date shall be December 31st of the preceding year.

Construction Accomplishments - Oct. 1988 (Revised June 1993)

When a Municipal State Aid Street is constructed to State Aid Standards, said street shall be considered adequate for a period of 20 years from the date of project letting or encumbrance of force account funds.

In the event sidewalk or curb and gutter is constructed for the total length of the segment, then those items shall be removed from the needs for a period of 20 years.

If the construction of the Municipal State Aid Street is accomplished with local funds, only the construction needs necessary to bring the roadway up to State Aid Standards will be permitted in subsequent needs for 20 years from the date of the letting or encumbrance of force account funds. At the end of the 20 year period, reinstatement for complete construction needs shall be initiated by the Municipality.

Needs for resurfacing, lighting, and traffic signals shall be allowed on all Municipal State Aid Streets at all times.

That any bridge construction project shall cause the needs of the affected bridge to be removed for a period of 35 years from the project letting date or date of force account agreement. At the end of the 35 year period, needs for complete reconstruction of the bridge will be reinstated in the needs study at the initiative of the Municipal Engineer. If, during the period that complete bridge needs are being received the bridge is improved with a bituminous overlay, the municipality will continue to receive complete needs but shall have the non-local cost of the overlay deducted from its total needs for a period of ten (10) years.

The adjustments above will apply regardless of the source of funding for the road or bridge project. Needs may be granted as an exception to this resolution upon request by the Municipal Engineer and justification to the satisfaction of the State Aid Engineer (e.g., a deficiency due to changing standards, projected traffic, or other verifiable causes).

In the event that a M.S.A.S route earning "After the Fact" needs is removed from the M.S.A. system, then, the "After the Fact" needs shall be removed from the needs study, except if transferred to another state system. No adjustment will be required on needs earned prior to the revocation.

Population Apportionment - October 1994

Be it resolved that beginning with calendar year 1996, the MSA population apportionment shall be determined using the latest available federal census or population estimates of the State Demographer and/or the Metropolitan Council. However, no population shall be decreased below that of the latest available federal census, and no city will be added to, except by consolidation, or dropped from the MSA eligible list based on population estimates.

DESIGN

Design Limitation on Non-Existing Streets - Oct. 1965

That non-existing streets shall not have their needs computed on the basis of urban design unless justified to the satisfaction of the Commissioner.

Less Than Minimum Width - Oct. 1961 (Revised 1986)

That in the event that a Municipal State Aid Street is constructed with State Aid Funds to a width less than the standard design width as reported in the Needs Study, the total needs shall be taken off such constructed street other than the surface replacement need. Surface replacement and other future needs shall be limited to the constructed width unless exception is justified to the satisfaction of the Commissioner.

Greater Than Minimum Width (Revised June 1993)

If a Municipal State Aid Street is constructed to a width wider than required, resurfacing needs will be allowed on the constructed width.

Miscellaneous Limitations - Oct. 1961

That miscellaneous items such as fence removal, bituminous surface removal, manhole adjustment, and relocation of street lights are not permitted in the Municipal State Aid Street Needs Study. The item of retaining walls, however, shall be included in the Needs Study.

MILEAGE

Feb. 1959 (Revised Oct. 1994)

The maximum mileage for Municipal State Aid Street designation shall be 20 percent of the municipality's basic mileage - which is comprised of the total improved streets less Trunk Highway, County State Aid Highways, and any Trunk Highway and/or County Road Turnback designated as excess Municipal State Aid mileage.

Nov. 1965 (Revised 1972, Oct. 1993, 1995)

The maximum mileage for Municipal State Aid Street designation shall be based on the Annual Certification of Mileage current as of December 31st of the preceding year. Submittal of a supplementary certification during the year shall not be permitted except the Division of State Aid will recompute available mileage, as necessary, to accomplish turnbacks. Frontage roads which are not designated trunk highway, trunk highway turnback or County State Aid Highway system shall be considered in the computation of the basic street mileage. The total mileage of county roads and local streets on corporate limits shall be included in the municipality's basic street mileage. Mileage which is on the boundary of two adjoining urban municipalities shall be considered as one-half mileage.

(Nov. 1965 - Revised 1969, October 1993, October 1994, June 1996)

However, the maximum mileage for State Aid designation may be exceeded to designate trunk highway turnbacks after July 1, 1965 subject to State Aid Operations Rules.

A Municipality which accepts a county road turnback after May 11, 1994 and designates it as an MSA Street will no longer have that mileage considered as basic mileage for purposes of determining allowable mileage. This will result in a reduction in allowable mileage of 20% of that county road turnback which partially offsets the affect of adding the county road turnback to the MSA system.

Excess mileage on the MSA system shall accrue needs in accordance with current rules and resolutions.

Oct. 1961 (Revised May 1980, Oct. 1982, Oct. 1983, and June 1993)

All requests for additional mileage or revisions to the Municipal State Aid System must be received by the District State Aid Engineer by March first and a City Council resolution of approved mileage and the Needs Study reporting data must be received by May first, to be included in the current year's Needs Study. Any requests for additional mileage or revisions to the Municipal State Aid Systems received by the District State Aid Engineer after March first will be included in the following year's Needs Study.

One Way Street Mileage - June 1983 (Revised Oct. 1984, Oct. 1993, June 1994)

That any one-way streets added to the Municipal State Aid Street system must be reviewed by the Needs Study Sub-Committee, and approved by the Screening Board before any one-way street can be treated as one-half mileage in the Needs Study.

Treat all one-way streets between 26 feet and 49 feet wide as one-half of the mileage as outlined in Rule 8820.9940 and allow complete needs, except that no more than one parking lane will be eligible to accrue needs. When Trunk Highway or County Highway Turnback is used as part of a one way pair, mileage for certification shall only be included as trunk Highway or County Turnback mileage and not as provided for in the preceding paragraph.

NEEDS COST

Construction Item Unit Prices - (Revised Annually)

Right of Way (Needs only) \$ 60,000.00 Acre

Grading (Excavation) \$ 3.00 Cu. Yd.

Base:

Class 4	Spec. #2211	\$ 4.70 Ton
Class 5	Spec. #2211	6.20 Ton
Bituminous	Spec. #2331	20.50 Ton

Surface:

Bituminous	Spec. #2331	\$ 20.50 Ton
Bituminous	Spec. #2341	23.60 Ton
Bituminous	Spec. #2361	30.10 Ton

Shoulders:

Gravel	Spec. #2221	\$ 8.50 Ton
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Miscellaneous:

Storm Sewer Construction	\$229,700.00 Mile
Storm Sewer Adjustment	71,200.00 Mile
Special Drainage-Rural	28,490.00 Mile
Traffic Signals	20,000 to 80,000.00 Mile

Signal Needs Based On Projected Traffic

Projected Traffic	Percentage	X Unit Price =	Needs Per Mile
0 - 4,999	.25	\$80,000 =	\$ 20,000.00 Mile
5,000 - 9,999	.50	\$80,000 =	40,000.00 Mile
10,000 & Over	1.00	\$80,000 =	80,000.00 Mile

Street Lighting	20,000.00 Mile
Curb & Gutter Construction	6.00 Lin. Ft.
Sidewalk Construction	16.50 Sq. Yd.
Engineering	18%

Removal Items:

Curb & Gutter	\$ 1.80 Lin. Ft.
Sidewalk	4.75 Sq. Yd.
Concrete Pavement	4.20 Sq. Yd.
Tree Removal	175.00 Unit

STRUCTURES

Bridge Costs - Oct. 1961 (Revised Annually)

That for the study of needs on the Municipal State Aid Street System, bridge costs shall be computed as follows:

Bridges 0 to 149 Ft.	\$ 55.00 Sq. Ft.
Bridges 150 to 499 Ft.	55.00 Sq. Ft.
Bridges 500 & Over	55.00 Sq. Ft.

"The money needs for all "non-existing" bridges and grade separations be removed from the Needs Study until such time that a construction project is awarded. At that time a money needs adjustment shall be made by annually adding the total amount of the structure cost that is eligible for State Aid reimbursement for a 15-year period." This directive to exclude all Federal or State grants.

Bridge Width & Costs - (Revised Annually)

That after conferring with the Bridge Section of Mn/DOT and using the criteria as set forth by this Department as to the standard design for railroad structures, that the following costs based on number of tracks be used for the Needs Study:

Railroad Over Highway

Number of Tracks - 1	\$5,000 Lin. Ft.
Each Additional Track	\$4,000 Lin. Ft.

RAILROAD CROSSINGS

Railroad Crossing Costs - (Revised Annually)

That for the study of needs on the Municipal State Aid Street System, the following costs shall be used in computing the needs of the proposed Railroad Protection Devices:

Railroad Grade Crossings

Signals - (Single track - low speed)	\$ 80,000 Unit
Signals and Gates(Multiple Track - high	\$110,000 Unit
Signs Only & (low speed)	\$ 800 Unit
Rubberized Railroad Crossings (Per Track)	\$ 750 Lin. Ft.
Pavement Marking	\$ 750 Unit

Maintenance Needs Costs - June 1992 (Revised 1993)

That for the study of needs on the Municipal State Aid Street System, the following costs shall be used in determining the maintenance apportionment needs cost for existing facilities only.

	Cost For Under 1000 Vehicles Per Day -----	Cost For Over 1000 Vehicles Per Day -----
Traffic Lanes: Segment length times number of traffic lanes times cost per mile.	\$1,320 (Per Mile)	\$2,200 (Per Mile)
Parking Lanes: Segment length times number of parking lanes times cost per mile.	\$1,320 (Per Mile)	\$1,320 (Per Mile)
Median Strip: Segment length times cost per mile.	\$ 440 (Per Mile)	\$ 880 (Per Mile)
Storm Sewer: Segment length times cost per mile.	\$ 440 (Per Mile)	\$ 440 (Per Mile)
Traffic Signals: Number of traffic signals times cost for each signal.	\$ 440 (Per Each)	\$ 440 (Per Each)
Unlimited Segments: Normal M.S.A.S. Streets. -----		
Minimum allowance for mile is determined by segment length times cost per mile.	\$4,400 (Per Mile)	\$4,400 (Per Mile)
Limited Segments: Combination Routes. -----		
Minimum allowance for mile is determined by segment length times cost per mile.	\$2,200 (Per Mile)	\$2,200 (Per Mile)

NEEDS ADJUSTMENTS

Bond Adjustment - Oct. 1961 (Revised 1976, 1979, 1995)

That a separate annual adjustment shall be made in total money Needs of a municipality that has sold and issued bonds pursuant to Minnesota Statutes, Section 162.18, for use on State Aid projects.

That this adjustment, which covers the amortization (payment) period, and which annually reflects the net unamortized bonded debt (remaining principal payments due) shall be accomplished by adding said net unamortized (principal) amount to the computed money needs of the municipality.

For the purpose of this adjustment, the net unamortized bonded debt (remaining principal) shall be the total unamortized bonded indebtedness (deducted from the amount of projects applied against the bond) less the unexpended bond amount (less the amount of projects not encumbered) as of December 31st of the preceding year. The charges for selling the bond issue shall be deducted from the amount that projects are applied against.

"Bond account money spent off State Aid System would not be eligible for Bond Account Adjustment. This action would not be retroactive, but would be in effect for the remaining term of the Bond issue."

Effective January 1, 1996

The money needs shall be annually reduced by 10% of the total bond issue amount. The computation of needs shall be started in the year that bond principal payments are made to the city.

Unencumbered Construction Fund Balance Adjustment - Oct. 1961 (Revised October 1991)

That for the determination of Apportionment Needs, the amount of the unencumbered construction fund balance as of September 1st of the current year shall be deducted from the 25-year total Needs of each individual municipality.

Projects that have been received before September 1st by the District State Aid Engineer for payment shall be considered as being encumbered and the construction balances shall be so adjusted.

Right of Way - Oct. 1965 (Revised June 1986)

The Right of Way needs shall be included in the apportionment needs based on the unit price per mile, until such time that the right of way is acquired and the actual cost established. At that time a money needs adjustment shall be made by annually adding the local cost (which is the total cost less county or trunk highway participation) for a 15-year period. Only right of way acquisition costs that are eligible for State-Aid reimbursement shall be included in the right-of-way money needs adjustment. This Directive to exclude all Federal or State grants. Right-of-way projects that are funded with State Aid Funds will be compiled by the State Aid Office. When "After the Fact" needs are requested for right-of-way projects that have been funded with local funds, but qualify for State Aid reimbursement, documentation (copies of warrants and description of acquisition) must be submitted to the State Aid Office.

Trunk Highway Turnback - Oct. 1967 (Revised June 1989)

That any trunk highway turnback which reverts directly to the municipality and becomes part of the State Aid Street system shall not have its construction needs considered in the money needs apportionment determination as long as the former trunk highway is fully eligible for 100 percent construction payment from the Municipal Turnback Account. During this time of eligibility, financial aid for the additional maintenance obligation, of the municipality imposed by the turnback shall be computed on the basis of the current year's apportionment data and shall be accomplished in the following manner.

Initial Turnback Maintenance Adjustment - Fractional Year Reimbursement:

The initial turnback adjustment when for less than 12 full months shall provide partial maintenance cost reimbursement by adding said initial adjustment to the money needs which will produce approximately 1/12 of \$7,200 per mile in apportionment funds for each month or part of a month that the municipality had maintenance responsibility during the initial year.

To provide an advance payment for the coming year's additional maintenance obligation, a needs adjustment per mile shall be added to the annual money needs. This needs adjustment per mile shall produce sufficient apportionment funds so that at least \$7,200 in apportionment shall be earned for each mile of trunk highway turnback on Municipal State Aid Street System.

Turnback adjustments shall terminate at the end of the calendar year during which a construction contract has been awarded that fulfills the Municipal Turnback Account Payment provisions; and the resurfacing needs for the awarded project shall be included in the Needs Study for the next apportionment.

TRAFFIC - June 1971

Traffic Limitation on Non-Existing Streets - Oct. 1965

That non-existing street shall not have their needs computed on a traffic count of more than 4,999 vehicles per day unless justified to the satisfaction of the Commissioner.

Traffic Manual - Oct. 1962

That for the 1965 and all future Municipal State Aid Street Needs Studies, the Needs Study procedure shall utilize traffic data developed according to the Traffic Estimating Manual - M.S.A.S. #5-892.700. This manual shall be prepared and kept current under the direction of the Screening Board regarding methods of counting traffic and computing average daily traffic. The manner and scope of reporting is detailed in the above mentioned manual.

Traffic Counting - Sept. 1973 (Revised June 1987)

That future traffic data for State Aid Needs Studies be developed as follows:

1. The municipalities in the metropolitan area cooperate with the State by agreeing to participate in counting traffic every two years.
2. The cities in the outstate area may have their traffic counted for a nominal fee and maps prepared by State forces every four years, or may elect to continue the present procedure of taking their own counts and preparing their own traffic maps at four year intervals.
3. Some deviations from the present four-year counting cycle shall be permitted during the interim period of conversion to counting by State forces in the outstate area.

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