

City of Ames

Capital Improvement Plan

2007-2012



The City of Ames Neighborhood Improvement Program was originally designed to enhance the appearance of neighborhoods with the addition of permanent physical improvements and to promote a greater sense of community through resident participation in neighborhood projects. The program focused solely on providing City grants to help residents accomplish those projects that they identified as top priorities for their neighborhoods. Competitive proposals are solicited from neighborhood groups and are rated according to the following criteria approved by the City Council: public impact, neighborhood participation, safety, environment, housing, and public space. Residents were expected to provide a local match to these grants in the form of labor, materials, or cash.

Since the program was initiated in 1996/97, 96 neighborhood projects have been funded by the City, totaling \$273,156. Projects have included cul-de-sac, right-of-way and median landscaping; playground restoration and/or purchase; alleyway beautification; over 300 street trees planted; pond renovation; historic house plaques and house medallions; prairie restoration; construction of a neighborhood message center; construction of a shelter house in a neighborhood City park, park sidewalks and basketball court; landscaping of neighborhood entryways; installation of neighborhood barbecue grills; and a neighborhood clean-up day.



City Manager's Office

515 Clark Avenue, P. O. Box 811
 Ames, IA 50010
 Phone: 515-239-5101
 Fax: 515-239-5142

March 2007

Mayor and Members of the Ames City Council:

Attached is the Capital Improvements Plan (CIP) for 2007-2012. This five-year plan identifies various major infrastructure related projects funded by bond revenues, tax proceeds, utility fees, and state/federal grant monies that will improve the quality of life for our citizens. Of the total \$276,339,456 reflected in the CIP, improvement totals are earmarked as follows:

<u>Public Safety:</u>		<u>Utilities:</u>		<u>Transportation:</u>		<u>Community Enrichment:</u>	
Police	\$ 307,349	Resource Recovery	\$ 818,000	Streets	\$45,740,000	Parks & Recreation	\$3,325,000
Fire	540,000	Water Treatment	8,490,000	CyRide	10,613,500	Library	438,560
Sirens	90,000	Water Distribution	4,500,000	Airport	100,000	City Hall	250,000
Traffic	9,121,375	Storm Sewer	1,750,000			Neighborhood Improv.	250,000
		Sanitary Sewer	2,500,000			Downtown Façades	250,000
		WPC Treatment	9,250,000			S.E. Entryway	888,000
		Electric	176,742,172			Fleet Services	375,500
	<hr/>		<hr/>		<hr/>		<hr/>
	\$10,058,724		\$204,050,172		\$56,453,500		\$5,777,060

You will note that most of the projects reflected in this plan were included in previous CIPs and are on track to be initiated as originally proposed. However, there are a number of significant new, or modified, projects reflected in the CIP that are worthy of your attention.

UTILITIES

Electric Utility

As we prepare to engage in what will be our most costly capital project to expand our electric capacity to meet the demand of our customers for the next twenty years, we need to look first at our growth in electrical consumption and take action to accomplish conservation. Hence, the **Demand Side Management Program** (page 60) totaling \$3,200,000 is reflected in the CIP for the first time to reduce our future capacity needs. The four programs that will initially be emphasized include: residential energy audits, residential high efficiency air conditioner rebates, residential weatherization, and commercial high efficiency lighting rebates.

Regardless of which strategy is ultimately selected to expand our electric capacity, the reliability of our system as well as access to less expensive energy-on-the-spot market will be ensured with upgraded transmission lines from the west and from the south. Unfortunately, because of the rising costs in the metals market, the cost of the **Mid-American Energy Co. Interconnection and Upgrade Alliant Utilities Interconnection Project** (page 58) is now estimated to be \$25,313,003.

As our electric system continues to age, various improvements are needed to maintain service to our customers. These new projects include: **Gas Turbine Evaporator Cooler Replacement** (\$150,000, page 65), **Unit #7 Closed Cooling Bearing Water System**, (\$150,000, page 64), and **Power Plant Elevator** (\$150,000, page 63). Increasing loads in the southeast portion of our service territory has caused us to consider adding another line, the **Vet Med Substation Additional Feeder** (\$400,000, page 69) to this area.

Sanitary Sewer Utility

The CIP includes a \$7,000,000 **Water and Pollution Control Plant Expansion** (page 55) to provide for wastewater disinfection and to meet the requirements of a new discharge permit which we hope to work with Iowa Department of Natural Resources to secure in the coming fiscal year. The actual cost of this improvement might be more or less, depending on the ultimate state and federal regulations to which we will build.

Water Utility

During the dry summer of 2006, it became apparent that the peak water demand from our customers had grown significantly over the years. In order to ensure that we can meet this demand, a number of projects are included in this CIP. Since we draw our water from an underground aquifer formation, it is important that we clearly understand the capacity of this natural structure. Towards this end, we have included a \$90,000 **Water Supply Aquifer Capacity Study** (page 33) to work with Dr. Bill Simpkins from Iowa State University to complete the analysis of this valuable source of water.

In order to improve service reliability for 65% of our existing wells and increase the amount of water that can be transported from ten existing wells by 8%, a new **Raw Well Water Loop** costing \$2,900,000 has been introduced in the CIP (page 32).

In the latter stages of the CIP, you will note a **Water Plant Expansion** project (page 40) which could cost as much as \$15,000,000 to expand and renovate our treatment facility that was placed into service in the 1920s. The ultimate cost and timing of this major undertaking is dependent on the growth in our customers' water consumption. As with the electric utility, we intend to explore demand side techniques to foster conservation among our customers.

The major expansion projects in the electric, water, and sewer utilities will require significant rate increases during the life of this CIP. Therefore, a great deal of education for our customers will be required in advance of the implementation of these overlapping utility rate increases!

STREETS/TRAFFIC

In an effort to reduce the level of noise associated with the numerous trains that pass through our community, **Railroad Quiet Zone Improvements** (\$75,000, page 23) have been interjected into the CIP for the first time. The additional investment of \$75,000 should qualify the east/west route as a quiet zone and thereby prohibit the blowing of train horns on this segment of track. On the north/south route, we will continue the implementation of the **Railroad Crossing Safety Improvements** (\$600,000, page 21) at the 9th, 13th, 16th, 20th, and 24th street crossings.

The emphasis over the next five years on our **Shared Use Path System** (\$1,653,375, page 19) will be on our recreational trail system. While the first priority will continue to be a connection between Bloomington Road and Ada Hayden Park, the priorities for subsequent years have been altered to connect the Hunziker Youth Sports Complex to Southeast 16th Street based on the commitment from the South Duff Business Association to help secure the necessary right-of-way.

The **South Dayton Avenue Realignment** project (page 82) has been expanded to \$1,050,000. In addition to completing a new connection with the rerouted Dayton Road as prescribed in our agreement with the developer of the adjacent land, this project includes the cost to renovate this street all the way to Lincoln Way. It is hoped that this work will mitigate further damage to this street, anticipated with the expected increase in traffic, and avoid a more costly reconstruction project in the future.

A new project, **Downtown Street Pavement Improvements** (page 90), costing \$2,000,000 over the next five years has been introduced in this CIP. As a result of a 1997 downtown improvements study, major street/utility improvements were made to Main, 5th, and 6th Streets. This project will focus on improvements to the major north/south streets in the Downtown: Burnett Avenue, Kellogg Avenue, and Douglas Avenue.

COMMUNITY ENRICHMENT

Parks and Recreation

As we prepared this CIP, no final decision had been made by the City Council regarding a strategy to improve our outdated recreational facilities. Therefore, no bond issue has been included in the document for a new outdoor aquatic center, new indoor recreational or competitive aquatic center, or new gymnasiums. What has been included is a revision to our **Municipal Pool Maintenance** project (\$815,000, page 111), to be financed equally with the Ames School District. These renovations were included in a recent consultant study which suggested ways to prolong the life of our indoor pool by ten years. These improvements will give us time to continue conversations with the Ames School District concerning a partnership in a new indoor aquatic facility that coincides with their long-range plan.

Future development of one of our most popular parks continues with the inclusion of the **Hayden Park Overlook/Fishing Pier** (\$150,000, page 118) and **Ada Hayden Park Restroom Construction** (\$125,000, page 114) projects.

Based on the popularity of our skate board park, we have added a new **Bike Park** (\$450,000, page 119) to this CIP. It is hoped that the City will only finance 39% of the total cost with the remaining funding being secured through grants and donations.

In order to avoid reinvesting in outdated spray pools at the Municipal Pool and Brookside Park, a new **Interactive Fountain** is being introduced to replace these facilities. An important aspect of this proposal (\$300,000, page 120) is that the project is being recommended to be located in the Downtown area to serve as an attraction to this important commercial center of our community. Hopefully, this fountain can be incorporated into the City Council's downtown catalyst project.

Fortunately, over the years, the City Council has realized the importance of investing in our infrastructure even when there were times when it would have been more politically expedient to reduce this commitment. This five-year plan will continue the commitment to upgrade our infrastructure and guarantee an increased quality of life for our citizens now and in the future.

I want to give special thanks to our department heads and their employees who are focused every day on improving our city. And we must not forget Duane Pitcher, Carol Collings, Nancy Masteller, Sharon Hjortshoj, Sheila Lundt, and Bob Kindred for their extra efforts to help develop this Capital Improvements Plan.

Sincerely,

Steven L. Schainker
City Manager



The neighborhood improvement projects often require a lot of volunteer manhours. The Willow Creek Estates Neighborhood pulled together to plant 120 red twigged dogwoods in two long rows. The hedge provides a wind and snow break, noise barrier, and a haven for birds and other wildlife.



CITY OF AMES, IOWA
FIVE-YEAR CAPITAL IMPROVEMENT PLAN
2007-2012

TABLE OF CONTENTS

How to Use the C.I.P. Document	II
Project Index	III
Projection of Debt Capacity	VII
Summary of Major Bond Issues	VIII
City-Wide Summary	1
Capital Improvements – By Category	
Public Safety	7
Utilities	27
Transportation.....	75
Community Enrichment.....	107
Map Information	135

HOW TO USE THE C.I.P. DOCUMENT

The 2007-2012 Capital Improvements Plan for the City of Ames is organized according to the City's program structure of services. This format allows decision makers to consider proposed improvements in much the same manner as the annual operating budget. First-year portions of these projects can also be identified in the annual operating program budget.

1. The **Description/Justification** section outlines the basic work to be done and the intended outcome or result of the project, outlines the reasons behind the proposal of the project, and also the advantages to the City of undertaking the project. The section may also describe the disadvantages to the City of either waiting to do the project, or of disapproving it altogether.
2. The **Comments** section outlines any additional information related to the project, including status changes from a previous year, its relationship to other projects or future developments, impacts on operating budgets and others.
3. The **Location** section will list a street location or various locations and a map location is listed which refers to the sectioned City map on pages 135-144.

In addition to the above information, the bottom of each page lists the types of costs (planning, construction, etc.) which will be associated with the project for each year of the present C.I.P. Below that is shown the source of financing for the project in each year.

**INDEX TO 2007 – 2012 CAPITAL IMPROVEMENTS PLAN
CITY OF AMES, IOWA**

PUBLIC SAFETY SUMMARY	PAGE
Police	
Mobile Data Terminals for Police/Fire Vehicles	10
Emergency Notification System	11
Fire	
Fire Station #1 Renovation	13
Fire Apparatus Replacement	14
Electric	
Outdoor Storm Warning System	16
Traffic	
Shared Use Path System.....	19
Pedestrian Walkway Program.....	20
Railroad Crossing Safety Improvements.....	21
Traffic Signal Program	22
Railroad Quiet Zone Improvements	23
Traffic Engineering Studies.....	24
U.S. 69 Intersection Improvements.....	25
West Lincoln Way Intersection Improvements	26
 UTILITIES – SUMMARY	
Resource Recovery	
Resource Recovery System Improvements.....	30
Water Treatment	
Raw Well Water Loop Line	32
Water Supply Aquifer Capacity Study.....	33
Lime Sludge Disposal Improvements	34
Southwest Pressure Zone.....	35
Water Plant Equipment Replacement.....	36
Well Replacement.....	37
Water Supply Expansion.....	38

Repaint Bloomington Road Elevated Tank	39
Water Plant Expansion	40
Water Distribution	
Water System Improvements.....	42
Storm Sewer	
Low Point Drainage Improvements	44
Intake Rehabilitation Program.....	45
Storm Sewer Outlet Erosion Control.....	46
Sanitary Sewer	
Sanitary Sewer Rehabilitation Program	48
Clear Water Diversion.....	49
Water Pollution Control	
WPC Plant Automation Upgrade	51
WPC Plant Equipment	52
WPC Plant Wind Turbine/Generator.....	53
Biosolids Storage/Thickening.....	54
WPC Plant Expansion.....	55
Electric	
Mid-American/Alliant Interconnection	58
Nitrogen Oxide Control	59
Demand Side Management Programs.....	60
69 kV Breaker Addition/Ontario Substation.....	61
SCADA Upgrade.....	62
Power Plant Passenger Elevator	63
#7 Closed Cooling Bearing Water System.....	64
Gas Turbine #1 (GT-1) Evaporator Cooler Replacement.....	65
Coal Yard Fugitive Dust Control	66
69 kV Breaker Addition/Top-O-Hollow	67
Power Plant Fire Protection System	68
Vet Med Substation Additional Feeder	69
Grand Avenue 13.8 kV Line Relocation.....	70
Base Load Generating Capacity	71
Well Water Iron Removal System	72
Power Plant Heating Boiler	73

TRANSPORTATION SUMMARY

Street Engineering

- Southeast 16th Street Paving/Bridge 79
- Grand Avenue Extension 80
- Northeast Area Commercial Improvement..... 81
- South Dayton Avenue Realignment..... 82
- Bloomington Road Widening 83
- Collector Street Pavement Improvements 84
- Asphalt Resurfacing..... 85
- Neighborhood Curb Replacement Program..... 86
- Topographical Mapping/Aerial Photography 87
- Arterial Street Pavement Improvements 88
- CyRide Route Pavement Improvements..... 89
- Downtown Street Pavement Improvements..... 90
- South Dakota Widening (Lincoln Way to Mortensen) 91

Street Maintenance

- Concrete Pavement Improvements 93
- Seal Coat Removal/Asphalt Reconstruction 94
- Sidewalk Safety Program..... 95
- Slurry Seal Program..... 96

Transit

- Vehicle Replacement..... 98
- CyRide Shop/Office Equipment 99
- Bus Stop Improvements..... 100
- CyRide Building Expansion and Modernization 101
- AVL Technology 102
- Iowa State Center Commuter Lot Resurfacing 103
- Stange Road/University Village Traffic Control 104

Airport

- Airport Improvements..... 106

COMMUNITY ENRICHMENT – SUMMARY

Parks and Recreation

- Municipal Pool Maintenance 111

Parks and Recreation Facility Maintenance.....	112
Playground/Park Equipment Improvements.....	113
Ada Hayden Park Restroom Construction	114
Charles Calhoun Memorial Park	115
Dog Park.....	116
Tennis Court Improvements.....	117
Ada Hayden Park Overlook/Fishing Pier.....	118
Bike Park	119
Interactive Fountain	120
Library	
Library Security/Surveillance/Fire System	122
Library Air Conditioning System Replacement.....	123
Library Landscaping	124
Library Floor Covering Replacement	125
Public Works	
City Hall Improvements.....	127
City Manager	
Neighborhood Improvement Program.....	129
Planning and Housing	
Downtown Façade Program	131
Southeast Entryway Improvements	132
Fleet Services	
City Maintenance Facility Improvements	134

CITY MAP – ALL NINE SECTIONS

Map Section 1.....	136
Map Section 2.....	137
Map Section 3.....	138
Map Section 4.....	139
Map Section 5.....	140
Map Section 6.....	141
Map Section 7.....	142
Map Section 8.....	143
Map Section 9.....	144

PROJECTION OF DEBT CAPACITY

	2005/06 ACTUAL	2006/07 BUDGETED	2007/08 PROJECTED	2008/09 PROJECTED	2009/10 PROJECTED	2010/11 PROJECTED	2011/12 PROJECTED
1. Total Actual Valuation	2,739,182,827	2,995,573,229	3,111,701,831	3,236,169,904	3,365,616,700	3,500,241,368	3,640,251,023
2. State Mandated Debt Limit	136,959,141	149,778,661	155,585,092	161,808,495	168,280,835	175,012,068	182,012,551
3. City Reserve (25% of Limit)	34,239,785	37,444,665	38,896,273	40,452,124	42,070,209	43,753,017	45,503,138
Un-Reserved Debt Capacity	102,719,356	112,333,996	116,688,819	121,356,371	126,210,626	131,259,051	136,509,413
4. Outstanding Debt	38,690,000	37,665,000	31,810,000	26,175,000	20,880,000	16,275,000	11,975,000
5. Proposed Issues	-	-	6,490,000	7,447,573	7,030,060	5,907,000	5,910,000
6. Balance of Proposed Issues	-	-	-	6,058,076	12,560,796	18,140,343	22,145,686
Total Debt Subject to Limit	38,690,000	37,665,000	38,300,000	39,680,649	40,470,856	40,322,343	40,030,686
7. Available Un-Reserved Debt Capacity (\$)	64,029,356	74,668,996	78,388,819	81,675,722	85,739,770	90,936,708	96,478,727
8. Available Un-Reserved Debt Capacity (%)	62.33%	66.47%	67.18%	67.30%	67.93%	69.28%	70.68%
9. Total Debt Capacity (\$)	98,269,141	112,113,661	117,285,092	122,127,846	127,809,979	134,689,725	141,981,865
10. Total Debt Capacity (%)	71.75%	74.85%	75.38%	75.48%	75.95%	76.96%	78.01%

Notes:

1. Total assessed valuation plus utility valuation growth assumption is 4.0% per year.
2. State of Iowa statutory debt limit is 5% of total actual valuation.
3. City Policy reserves 25% percent of available debt capacity.
4. Current outstanding debt subject to limit at Fiscal Year End includes all debt in which property taxes are pledged.
5. Debt issues subject to limit proposed are part of Capital Improvement Plan.
6. Debt Balance on Issues in Capital Improvement Plan.
7. Debt capacity available after deducting the reserved capacity.
8. Percentage of debt capacity available after deducting the reserved capacity.
9. Debt capacity available prior to deducting the reserved capacity.
10. Percentage of Debt capacity available prior to deducting the reserved capacity.

SUMMARY OF MAJOR BOND ISSUES

GENERAL OBLIGATION BONDS	PROJECT TOTAL	CATEGORY TOTAL	% PROJECT G.O. FUNDED	OTHER SOURCES OF FUNDING
2007/08:				
STREETS ENGINEERING		5,690,000		
Northeast Area Regional Commercial Imp	950,000		100%	
Southeast 16th Street Paving/Bridge	1,500,000		50%	Assessments
Grand Avenue Extension	1,000,000		20%	Federal Earmark Funds
South Dayton Avenue Realignment	1,050,000		100%	
Bloomington Road Widening	250,000		56%	Developer
Collector Street Pavement Improvements	940,000		52%	MPO/STP Funds
STREETS MAINTENANCE		300,000		
Concrete Pavement Reconstruction	300,000		100%	
2007/08 SUBTOTAL		5,990,000		
WATER (ABATED G.O. BONDS)		500,000		
Raw Well Water Loop Line	500,000		100%	Abated by Water Revenues
2007/08 YEAR TOTAL		6,490,000		

SUMMARY OF MAJOR BOND ISSUES, continued

GENERAL OBLIGATION BONDS	PROJECT TOTAL	CATEGORY TOTAL	% PROJECT G.O. FUNDED	OTHER SOURCES OF FUNDING
2008/09:				
TRAFFIC		2,005,000		
U.S. 69 Intersection Improvements	1,535,000		100%	
West Lincoln Way Intersection Improvements	470,000		44%	Developer/IDOT Grant
STREETS ENGINEERING		2,817,573		
CyRide Rte Pavement Improvements (various locations)	600,000		100%	
Collector Street Pavement Improvements	1,000,000		100%	
Downtown Pavement Improvements	500,000		100%	
Arterial St Pavement Improvements (North Dakota)	717,573		48%	MPO/STP Funds
STREETS MAINTENANCE		1,425,000		
Concrete Pavement Reconstruction	1,425,000		79%	Road Use Tax
2008/09 SUBTOTAL		6,247,573		
WATER (ABATED G.O. BONDS)		1,200,000		
Raw Well Water Loop Line	1,200,000		100%	Abated by Water Revenues
2008/09 YEAR TOTAL		7,447,573		

SUMMARY OF MAJOR BOND ISSUES, continued

GENERAL OBLIGATION BONDS	PROJECT TOTAL	CATEGORY TOTAL	% PROJECT G.O. FUNDED	OTHER SOURCES OF FUNDING
2009/10:				
FIRE		429,000		
Fire Apparatus Replacement	429,000		100%	
TRAFFIC		835,000		
U.S. 69 Intersection Improvements	835,000		63%	IDOT Grants
STREETS ENGINEERING		2,941,060		
CyRide Rte Pavement Improvements (Ash Ave & Knapp)	600,000		100%	
Collector Street Pavement Improvements	1,000,000		100%	
Downtown Pavement Improvements	500,000		100%	
Arterial St Pavement Improvements (13th Street)	641,060		43%	MPO/STP Funds
South Dakota Widening	200,000		100%	
STREETS MAINTENANCE		1,625,000		
Concrete Pavement Reconstruction	1,625,000		81%	Road Use Tax
2008/09 SUBTOTAL		5,830,060		
WATER (ABATED G.O. BONDS)		1,200,000		
Raw Well Water Loop Line	1,200,000		100%	Abated by Water Revenues
2009/10 YEAR TOTAL		7,030,060		

SUMMARY OF MAJOR BOND ISSUES, continued

GENERAL OBLIGATION BONDS	PROJECT	CATEGORY	% PROJECT	OTHER SOURCES
	TOTAL	TOTAL	G.O. FUNDED	OF FUNDING
2010/11:				
TRAFFIC		400,000		
West Lincoln Way Intersection Improvements	400,000		57%	Developer
STREETS ENGINEERING		4,882,000		
Grand Avenue Extension	720,000		100%	
CyRide Rte Pavement Improvements (Lincoln Way)	600,000		100%	
Collector Street Pavement Improvements	312,000		31%	MPO/STP Funds
Downtown Pavement Improvements	500,000		100%	
Arterial St Pavement Improvements (Duff Ave; 6th St)	750,000		100%	
South Dakota Widening	2,000,000		100%	
STREETS MAINTENANCE		625,000		
Concrete Pavement Reconstruction	625,000		63%	Road Use Tax
2010/11 YEAR TOTAL		5,907,000		

SUMMARY OF MAJOR BOND ISSUES, continued

GENERAL OBLIGATION BONDS	PROJECT TOTAL	CATEGORY TOTAL	% PROJECT G.O. FUNDED	OTHER SOURCES OF FUNDING
2011/12:				
TRAFFIC		235,000		
U.S. 69 Intersection Improvements	235,000		100%	
STREETS ENGINEERING		5,050,000		
Grand Avenue Extension	2,200,000		31%	Federal Earmark Funds
CyRide Rte Pavement Improvements (Todd Drive)	600,000		100%	
Collector Street Pavement Improvements	1,000,000		100%	
Arterial St Pavement Improvements (Lincoln Way)	750,000		100%	
Downtown Pavement Improvements	500,000		100%	
STREETS MAINTENANCE		625,000		
Concrete Pavement Reconstruction	625,000		63%	Road Use Tax
2011/12 YEAR TOTAL		5,910,000		
GRAND TOTAL GENERAL OBLIGATION BONDS		32,784,633		

SUMMARY OF MAJOR BOND ISSUES, continued

REVENUE BONDS	PROJECT TOTAL	CATEGORY TOTAL	% PROJECT BOND FUNDED	OTHER SOURCES OF FUNDING
2009/10:				
SEWER		800,000		
WPC Plant Expansion	800,000		100%	
ELECTRIC		157,000,000	100%	
Base Load Generating Capacity	157,000,000			
2009/10 YEAR TOTAL		157,800,000		
2010/11:				
SEWER		2,900,000	100%	
WPC Plant Expansion	2,900,000			
2010/11 YEAR TOTAL		2,900,000		

SUMMARY OF MAJOR BOND ISSUES, continued

REVENUE BONDS	PROJECT TOTAL	CATEGORY TOTAL	% PROJECT BOND FUNDED	OTHER SOURCES OF FUNDING
2011/12:				
WATER		750,000		
Water Plant Expansion	750,000		100%	
SEWER		3,300,000		
WPC Plant Expansion	3,300,000		100%	
2011/12 YEAR TOTAL		4,050,000		
GRAND TOTAL REVENUE BONDS		164,750,000		



The Stone Brooke Homeowners' Association has completed many Neighborhood Improvement Program projects, including a project to restore the Stone Brooke prairie.

Volunteers mowed, sprayed Roundup, planted various prairie grass seeds and wildflowers, rolled the seedbeds and mulched the area.

CAPITAL IMPROVEMENT PLAN - GRAND TOTALS

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
Public Safety	10,058,724	1,439,402	4,065,322	2,429,000	1,240,000	885,000	7
Utilities	204,050,172	11,469,172	12,161,000	164,166,000	8,752,000	7,502,000	27
Transportation	56,453,500	14,687,500	7,936,500	8,971,500	10,621,500	14,236,500	75
Community Enrichment	5,777,060	2,099,760	1,012,800	967,500	657,500	1,039,500	107
Total Expenditures	276,339,456	29,695,834	25,175,622	176,534,000	21,271,000	23,663,000	
REVENUES:							
Bonds	197,534,633	6,490,000	7,447,573	164,830,060	8,807,000	9,960,000	
City	49,576,668	13,386,921	13,125,347	7,899,025	8,554,225	6,611,150	
Other	29,228,155	9,818,913	4,602,702	3,804,915	3,909,775	7,091,850	
Total Revenues	276,339,456	29,695,834	25,175,622	176,534,000	21,271,000	23,663,000	

CAPITAL IMPROVEMENT PLAN - EXPENDITURE SUMMARY BY PROGRAM

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
Public Safety:							
Police	307,349	270,402	36,947				9
Fire	540,000	31,000		429,000		80,000	12
Electric	90,000	30,000	15,000	15,000	15,000	15,000	15
Traffic	9,121,375	1,108,000	4,013,375	1,985,000	1,225,000	790,000	17
Total Public Safety	10,058,724	1,439,402	4,065,322	2,429,000	1,240,000	885,000	
Utilities:							
Resource Recovery	818,000	177,000	152,000	185,000	152,000	152,000	29
Water Treatment	8,490,000	1,590,000	1,650,000	1,600,000	2,150,000	1,500,000	31
Water Distribution	4,500,000	900,000	900,000	900,000	900,000	900,000	41
Storm Sewer	1,750,000	350,000	350,000	350,000	350,000	350,000	43
Sanitary Sewer	2,500,000	500,000	500,000	500,000	500,000	500,000	47
WPC Treatment	9,250,000	575,000	1,000,000	1,475,000	2,900,000	3,300,000	50
Electric	176,742,172	7,377,172	7,609,000	159,156,000	1,800,000	800,000	56
Total Utilities	204,050,172	11,469,172	12,161,000	164,166,000	8,752,000	7,502,000	

CAPITAL IMPROVEMENT PLAN - EXPENDITURE SUMMARY BY PROGRAM, continued

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES, continued:							
Transportation:							
Streets/Engineering	38,140,000	12,920,000	4,150,000	4,350,000	6,120,000	10,600,000	77
Streets/Maintenance	7,600,000	600,000	2,100,000	2,300,000	1,300,000	1,300,000	92
Transit	10,613,500	1,067,500	1,686,500	2,321,500	3,201,500	2,336,500	97
Airport	100,000	100,000					105
Total Transportation	56,453,500	14,687,500	7,936,500	8,971,500	10,621,500	14,236,500	
Community Enrichment/Internal Services:							
Parks and Recreation	3,325,000	961,000	629,500	769,500	467,500	497,500	109
Library	438,560	52,760	180,800		25,000	180,000	121
Public Works	250,000	50,000	50,000	50,000	50,000	50,000	126
City Manager	250,000	50,000	50,000	50,000	50,000	50,000	128
Planning and Housing	1,138,000	938,000	50,000	50,000	50,000	50,000	130
Fleet Services	375,500	48,000	52,500	48,000	15,000	212,000	133
Total Community Enrichment	5,777,060	2,099,760	1,012,800	967,500	657,500	1,039,500	
GRAND TOTAL EXPENDITURES	276,339,456	29,695,834	25,175,622	176,534,000	21,271,000	23,663,000	

CAPITAL IMPROVEMENT PLAN - REVENUE SUMMARY BY TYPE

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
REVENUES:						
Bonds:						
G.O. Bonds	32,784,633	6,490,000	7,447,573	7,030,060	5,907,000	5,910,000
Water Revenue Bonds	750,000					750,000
Sewer Revenue Bonds	7,000,000			800,000	2,900,000	3,300,000
Electric Revenue Bonds	157,000,000			157,000,000		
Total Bonds	197,534,633	6,490,000	7,447,573	164,830,060	8,807,000	9,960,000
City:						
Road Use Tax	6,246,875	940,000	1,343,125	1,307,000	1,353,750	1,303,000
Local Option Sales Tax	5,839,132	1,535,585	1,307,447	909,475	876,625	1,210,000
Hotel/Motel Tax	250,000	50,000	50,000	50,000	50,000	50,000
Resource Recovery Fund	818,000	177,000	152,000	185,000	152,000	152,000
Water Utility Fund	9,469,875	2,038,000	1,363,125	1,312,000	3,053,750	1,703,000
Sewer Utility Fund	4,879,875	1,123,000	1,513,125	1,187,000	503,750	553,000
Storm Sewer Utility Fund	1,750,000	350,000	350,000	350,000	350,000	350,000
Electric Utility Fund	18,079,566	6,596,566	6,727,000	2,156,000	1,800,000	800,000
Transit Fund	1,766,970	182,270	306,400	430,550	410,600	437,150
Airport Construction Fund	20,000	20,000				
Park Development Fund	362,500	362,500				
Fleet Services Fund	93,875	12,000	13,125	12,000	3,750	53,000
Total City	49,576,668	13,386,921	13,125,347	7,899,025	8,554,225	6,611,150

CAPITAL IMPROVEMENT PLAN - REVENUE SUMMARY BY TYPE, continued

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
REVENUES, continued:						
Other:						
E911 Service Fees	270,402	270,402				
Iowa State University	1,962,606	780,606	882,000		300,000	
Iowa D.O.T. Grant Funds	1,538,000	838,000	200,000	500,000		
Union Pacific Railroad	225,000	112,500	112,500			
Developer	900,000	200,000	400,000		300,000	
MPO Planning Funds	400,000		320,000	80,000		
MPO/STP Funds	3,477,617	931,175	853,602	931,465	761,375	
Recreation Trail Grant	400,000	25,000	150,000	50,000	25,000	150,000
Safe Route to School Grant	67,000	25,000	42,000			
Federal Earmark Funds	9,000,000	4,000,000				5,000,000
Property Owner Assessments	1,500,000	1,500,000				
Federal Transit Administration	7,963,209	735,809	1,066,200	1,850,950	2,450,900	1,859,350
Federal Grants	583,321	149,421	313,900	40,000	40,000	40,000
Ames Community School District	410,000	95,000	162,500	77,500	32,500	42,500
Private Contributions	356,000	156,000	100,000	100,000		
State Grants	175,000			175,000		
Total Other	29,228,155	9,818,913	4,602,702	3,804,915	3,909,775	7,091,850
GRAND TOTAL REVENUES	276,339,456	29,695,834	25,175,622	176,534,000	21,271,000	23,663,000



A Neighborhood Improvement Program project purchased playground equipment for Crescent Park in the Somerset Subdivision. Neighborhood volunteers prepared the site, installed the play equipment, installed railroad ties for edging, and added a weed barrier and wood chips as a safety surface.



A popular Neighborhood Improvement Program project has involved the enhancement of the circles on cul-de-sacs with plants, shrubs, flowers, trees, and mulch. These plantings often improve the starkness of utility boxes, poles, and hydrants. The after picture above shows the maturity of the plantings on Idaho Circle after seven years.

PUBLIC SAFETY - SUMMARY

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
Police	307,349	270,402	36,947				9
Fire	540,000	31,000		429,000		80,000	12
Electric	90,000	30,000	15,000	15,000	15,000	15,000	15
Traffic	9,121,375	1,108,000	4,013,375	1,985,000	1,225,000	790,000	17
Total Expenditures	10,058,724	1,439,402	4,065,322	2,429,000	1,240,000	885,000	
REVENUES:							
Bonds:							
G.O. Bonds	3,904,000		2,005,000	1,264,000	400,000	235,000	
City:							
Road Use Tax	1,105,000	180,000	255,000	220,000	275,000	175,000	
Local Option Sales Tax	1,924,072	680,325	509,647	242,475	166,625	325,000	
Sub-Total City Funds	3,029,072	860,325	764,647	462,475	441,625	500,000	

PUBLIC SAFETY - SUMMARY

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
REVENUES, continued:						
Other:						
E911 Service Fees	270,402	270,402				
Iowa D.O.T. Grant Funds	775,000	75,000	200,000	500,000		
Union Pacific Railroad Developer	225,000	112,500	112,500			
MPO Planning Funds	700,000		400,000		300,000	
MPO/STP Funds	400,000		320,000	80,000		
MPO/STP Funds	288,250	71,175	71,175	72,525	73,375	
Recreation Trail Grant	400,000	25,000	150,000	50,000	25,000	150,000
Safe Routes to School Grant	67,000	25,000	42,000			
Sub-Total Other Funds	3,125,652	579,077	1,295,675	702,525	398,375	150,000
Total Revenues	10,058,724	1,439,402	4,065,322	2,429,000	1,240,000	885,000

PUBLIC SAFETY - POLICE/FIRE

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
1 Mobile Data Terminals for Police/Fire Vehicles	257,349	220,402	36,947				10
2 Emergency Notification System	50,000	50,000					11
Total Expenditures	307,349	270,402	36,947				
REVENUES:							
City:							
Local Option Sales Tax	36,947		36,947				
Other:							
E911 Service Fees	270,402	270,402					
Total Revenues	307,349	270,402	36,947				

MOBILE DATA TERMINALS FOR FIRE AND POLICE VEHICLES

PROJECT STATUS: No Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project will provide field access to police records, state and federal databases, and direct connections to computer aided dispatch information for police, fire, and emergency medical services vehicles. The system is designed to decrease the time spent repeating information over the radio and provide more information to responders in the field. As emergency call volume grows, it is increasingly important to increase the efficiency of information flow to police, fire, and emergency medical responders. The system will provide timely and accurate information that can be used to more efficiently obtain records and exchange information among vehicles in the field. Firefighters and paramedics can obtain more detailed information about emergencies they are responding to or gain direct access to database information such as known hazards or call history associated with a specific location.

The infrastructure for this system is being requested from the Story County E911 Board. Other jurisdictions within the county will have similar costs if they choose to equip their vehicles to take advantage of the mobile communications infrastructure.

COMMENTS

The project was delayed in the 2006-2011 CIP to ensure that the project will function effectively on the county-wide shared public safety network.

LOCATION

Police and Fire vehicles

FISCAL YEAR PRIORITY		1	1			
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Communications Software/Hardware	82,626	82,626				
Mobile Data Infrastructure	137,776	137,776				
Mobile Data Terminal Software & Support	36,947		36,947			
TOTAL	257,349	220,402	36,947			
FINANCING:						
Local Option Sales Tax	36,947		36,947			
E911 Service Fees	220,402	220,402				
TOTAL	257,349	220,402	36,947			

PROGRAM - ACTIVITY:
Public Safety/Law Enforcement/Fire Administration

DEPARTMENT:
Police/Fire

ACCOUNT NO.
245-2585-429

EMERGENCY NOTIFICATION SYSTEM

PROJECT STATUS: New

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

The ability to provide emergency information to a large number of residents can save lives during a disaster. For example, a major hazardous materials incident could require evacuation of a large number of households. An emergency notification system could telephone thousands of households in a matter of minutes. The new Communications Center software will support this additional function. Funds have been requested from the Story County E911 Board for the installation of this software on the shared computer platform used in the Ames, Iowa State University, and Story County emergency communications centers. Functionally, this will allow dispatchers to identify the phone numbers in a geographic area, record a message, and transmit that information to a national call center that will deliver the recorded message over a battery of phone lines.

COMMENTS

This software will provide rapid notification of local neighborhoods if there is an emergency or a need for local evacuation.

LOCATION

Ames Police Department Communications Center – Map 5, location L-10

FISCAL YEAR PRIORITY		2				
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Software	50,000	50,000				
TOTAL	50,000	50,000				
FINANCING:						
E911 Service Fees	50,000	50,000				
TOTAL	50,000	50,000				

PROGRAM - ACTIVITY:
Public Safety – Law Enforcement

DEPARTMENT:
Police

ACCOUNT NO.
245-2586-429

PUBLIC SAFETY - FIRE

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
1 Fire Station #1 Renovation	111,000	31,000				80,000	13
2 Fire Apparatus Replacement	429,000			429,000			14
Total Expenditures	540,000	31,000		429,000		80,000	
REVENUES:							
Bonds:							
G.O. Bonds	429,000			429,000			
City:							
Local Option Sales Tax	111,000	31,000				80,000	
Total Revenues	540,000	31,000		429,000		80,000	

FIRE STATION #1 RENOVATION

PROJECT STATUS: Delayed

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

Fire Station #1 was constructed in 1979 and is in need of renovation. Two major renovation projects are proposed. The first is the replacement of the original heating system located in the apparatus bay (\$15,600), replacement of the lights and ballasts (\$4,900), painting the apparatus bay ceiling (\$8,000), and five garage door openers (\$2,500). The second is the replacement of the rear driveway that has deteriorated due to heavy vehicle traffic, plus the repair to major structural members that are oxidizing (\$80,000).

COMMENTS

In order to maintain operations, the two projects can be staged over a five-year period.

LOCATION

Fire Station #1, 1300 Burnett, Map 5, location M-9

FISCAL YEAR PRIORITY	TOTAL	1 2007/08	2008/09	2009/10	2010/11	1 2011/12
COST:						
Apparatus Bay Heating System	31,000	31,000				
Rear Drive Replacement/Structural Repair	80,000					80,000
TOTAL	111,000	31,000				80,000
FINANCING:						
Local Option Sales Tax	111,000	31,000				80,000
TOTAL	111,000	31,000				80,000

PROGRAM - ACTIVITY:
Public Safety – Fire

DEPARTMENT:
Fire

ACCOUNT NO.
030-2249-421

FIRE APPARATUS REPLACEMENT

PROJECT STATUS: Cost Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

The Fire Apparatus Replacement Program ensures replacement of fire apparatus at the end of the operational life.

COMMENTS

FY 2009/10

Replace Engine 2 (806) - \$429,000

LOCATION

Fire Station #2, Corner of Welch and Chamberlain, Map 5, location H-11

FISCAL YEAR PRIORITY		TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:							
Replace Engine 2		429,000			429,000		
	TOTAL	429,000			429,000		
FINANCING:							
G. O. Bonds		429,000			429,000		
	TOTAL	429,000			429,000		

PROGRAM - ACTIVITY:

Public Safety – Fire

DEPARTMENT:

Fire

ACCOUNT NO.

PUBLIC SAFETY - ELECTRIC

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
1 Outdoor Storm Warning System	90,000	30,000	15,000	15,000	15,000	15,000	16
Total Expenditures	90,000	30,000	15,000	15,000	15,000	15,000	
REVENUES:							
City:							
Local Option Sales Tax	90,000	30,000	15,000	15,000	15,000	15,000	
Total Revenues	90,000	30,000	15,000	15,000	15,000	15,000	

OUTDOOR STORM WARNING SYSTEM

PROJECT STATUS: Cost Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

The City's outdoor storm warning system is made up of a central controller in the Police Department dispatch center and eighteen radio controlled individual storm sirens. Most of the old sirens were purchased in the 1960s and 1970s and are approaching the end of their useful life. This program allows the City to acquire larger, new sirens to augment and eventually replace the smaller, older sirens. Additional money is included in FY 07/08 for possible software/controls upgrade.

LOCATION

Location of these sirens will vary. Initial emphasis will be given to filling gaps in the community's existing siren coverage.

FISCAL YEAR PRIORITY		1	1	1	1	1
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Equipment and Installation	90,000	30,000	15,000	15,000	15,000	15,000
TOTAL	90,000	30,000	15,000	15,000	15,000	15,000
FINANCING:						
Local Option Sales Tax	90,000	30,000	15,000	15,000	15,000	15,000
TOTAL	90,000	30,000	15,000	15,000	15,000	15,000

PROGRAM – ACTIVITY:
Public Safety – Electric

DEPARTMENT:
Electric

ACCOUNT NO.
030-4802-429

PUBLIC SAFETY - TRAFFIC

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
1 Shared Use Path System	1,653,375	400,000	373,375	250,000	250,000	380,000	19
2 Pedestrian Walkway Program	338,000	128,000	210,000				20
3 Railroad Crossing Safety Improvements	600,000	250,000	250,000	100,000			21
4 Traffic Signal Program	875,000	175,000	175,000	175,000	175,000	175,000	22
5 Railroad Quiet Zone Improvements	75,000	75,000					23
6 Traffic Engineering Studies	600,000	50,000	400,000	100,000	50,000		24
7 U.S. 69 Intersection Improvements West Lincoln Way Intersection	3,185,000	30,000	1,535,000	1,335,000	50,000	235,000	25
8 Improvements	1,795,000		1,070,000	25,000	700,000		26
Total Expenditures	9,121,375	1,108,000	4,013,375	1,985,000	1,225,000	790,000	
REVENUES:							
Bonds:							
G.O. Bonds	3,475,000		2,005,000	835,000	400,000	235,000	

PUBLIC SAFETY - TRAFFIC, continued

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
REVENUES, continued:						
City:						
Road Use Tax	1,105,000	180,000	255,000	220,000	275,000	175,000
Local Option Sales Tax	1,686,125	619,325	457,700	227,475	151,625	230,000
City Sub-Total	2,791,125	799,325	712,700	447,475	426,625	405,000
Other:						
Iowa D.O.T. Grant Funds	775,000	75,000	200,000	500,000		
Union Pacific Railroad	225,000	112,500	112,500			
Developer	700,000		400,000		300,000	
MPO Planning Funds	400,000		320,000	80,000		
MPO/STP Funds	288,250	71,175	71,175	72,525	73,375	
Recreation Trail Grant	400,000	25,000	150,000	50,000	25,000	150,000
Safe Routes to School Grant	67,000	25,000	42,000			
Other Sub-Total	2,855,250	308,675	1,295,675	702,525	398,375	150,000
Total Revenues	9,121,375	1,108,000	4,013,375	1,985,000	1,225,000	790,000

SHARED USE PATH SYSTEM

PROJECT STATUS: Cost Change

Site Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This program provides for construction of shared use paths on street rights-of-way, adjacent to streets, and through greenbelts. The Transportation Plan identifies those paths that separate bicycle traffic from higher-speed automobile traffic. This project supports one of the City Council's priorities for the year, connecting our community.

COMMENTS

- 2007/08 Skunk River Trail Extension (Bloomington Road to Ada Hayden Heritage Park) (\$400,000: Local Option Sales Tax, \$303,825; MPO/STP, \$71,175; and Recreational Trail Grant, \$25,000) - Map 2, location L-5
- 2008/09 Skunk River Trail Extension (Southeast 16th Street to East Lincoln Way) (\$300,000: Local Option Sales Tax, \$78,825; MPO/STP, \$71,175; and Recreational Trail Grant, \$150,000) – Map 6, location O-11; Ontario Street (Idaho Avenue to Kentucky Avenue) (\$73,375: Local Option Sales Tax) – Map 6, location O-13
- 2009/10 Skunk River Trail Extension (Hunziker Youth Sports Complex to Southeast 16th Street) (\$250,000: Local Option Sales Tax, \$127,475; MPO/STP funds, \$72,525; and Recreational Trail Grant, \$50,000) – Map 9, location O-14
- 2010/11 Skunk River Trail Extension (13th Street to Carr Pool) (\$250,000: Local Option Sales Tax, \$151,625; MPO/STP funds, \$73,375; and Recreational Trail Grant, \$25,000) – Map 6, location N-8
- 2011/12 Skunk River Trail Extension (East Lincoln Way to 13th Street) (\$380,000: Local Option Sales Tax, \$230,000; and Recreation Trail Grant, \$150,000) – Map 6, location O-9

Updated estimates and re-evaluation of MPO/STP funding have resulted in cost, revenue, and site changes. Scheduling the Skunk River Trail Extension segments as proposed will allow the South Ames Business Group to assist in right-of-way connections to those segments and will build from the Southeast Entry Plan.

Bicycle path maintenance costs will increase due to new bicycle path construction.

FISCAL YEAR PRIORITY	TOTAL	1	2	2	1	2
		2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Engineering	210,000	50,000	50,000	50,000	25,000	35,000
Construction	1,443,375	350,000	323,375	200,000	225,000	345,000
TOTAL	1,653,375	400,000	373,375	250,000	250,000	380,000
FINANCING:						
Local Option Sales Tax	965,125	303,825	152,200	127,475	151,625	230,000
MPO/STP Funds	288,250	71,175	71,175	72,525	73,375	
Recreational Trail Grant	400,000	25,000	150,000	50,000	25,000	150,000
TOTAL	1,653,375	400,000	373,375	250,000	250,000	380,000

PROGRAM – ACTIVITY:

Public Safety – Traffic

DEPARTMENT:

Public Works

ACCOUNT NO.

030-7561-429
320-7561-429

PEDESTRIAN WALKWAY PROGRAM

PROJECT STATUS: No Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This program provides a system of interconnected and safe pedestrian facilities. The program encompasses arterial street locations and supports the City-wide transportation goal of enhancing the quality of life of the Ames community with such facilities.

COMMENTS

This program is a revamp of the Pedestrian Walkway Program that was first introduced in the 2002/03 – 2006/07 Capital Improvements Plan (CIP). Initial work on that program resulted in eliminating the program from the CIP until the program could be better defined through public input. The Pedestrian Walkway Advisory Committee was subsequently formed, and recommendations for the program were derived from this committee.

This program prioritizes the sidewalk locations along arterial routes that coincide with the Safe Routes to School plans. Funding for this first phase is identified from Local Option Sales Tax. Decisions regarding future phases of the program will be brought back for City Council consideration upon completion of this first phase. Though the Safe School Routes to School plan locations through 2008/09 are covered by City funds and the Safe Routes to School Grant, funding for future phases may be different.

The Safe Routes to School Grant amounts have been updated.

LOCATION:

2007/08 West side of North Dakota Avenue (Lincoln Way to Delaware Avenue) - Map 4, location E-11
2008/09 West side of North Dakota Avenue (Delaware Avenue to 1103 North Dakota Avenue) – Map 4, location E-10

FISCAL YEAR PRIORITY			2	3			
		TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:							
Engineering		40,000	15,000	25,000			
Construction		298,000	113,000	185,000			
	TOTAL	338,000	128,000	210,000			
FINANCING:							
Local Option Sales Tax		271,000	103,000	168,000			
Safe Routes to School Grant		67,000	25,000	42,000			
	TOTAL	338,000	128,000	210,000			

PROGRAM – ACTIVITY:	DEPARTMENT:	ACCOUNT NO.	PROJECT NO.
Public Safety – Traffic	Public Works	030-7590-429 320-7590-429	

RAILROAD CROSSING SAFETY IMPROVEMENTS

PROJECT STATUS: Cost Change
Location Change

Revenue Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This program will provide for safety and surface improvements at railroad crossings along the north-south railroad corridor. Basic safety features desired at each crossing include two-quadrant vehicle gates, mounted flashing lights, and constant warning time detection. Union Pacific Railroad (UPRR) has confirmed that these features are in place at the 13th Street, 20th Street, and 24th Street crossings. The first two years of this program will provide for installation of these improvements at 16th Street and 9th Street, respectively. Raised barrier medians are also a valuable safety feature. The 2009/10 program includes median installation at 13th Street, 20th Street, and 24th Street. These are the locations where medians may be placed without negatively affecting existing access.

COMMENTS

The primary goal of this program is to enhance safety along the north-south UPRR corridor. It is anticipated that Railroad Safety Grant funds will be available for many of these projects. The base safety features for the Bloomington Road crossing will be included in the Bloomington Road widening project.

LOCATION

2007/08	16 th Street/UPRR crossing – Map 5, location K-8
2008/09	9 th Street/UPRR crossing – Map 5, location K-10
2009/10	Median installation at 13 th Street, 20 th Street, and 24 th Street

Location and cost change is due to Council direction and updated estimates.

FISCAL YEAR PRIORITY		3	4	3	2010/11	2011/12
	TOTAL	2007/08	2008/09	2009/10		
COST:						
Engineering	85,000	25,000	50,000	10,000		
Construction	515,000	225,000	200,000	90,000		
	TOTAL	600,000	250,000	250,000	100,000	
FINANCING:						
Local Option Sales Tax	375,000	137,500	137,500	100,000		
Union Pacific Railroad	225,000	112,500	112,500			
	TOTAL	600,000	250,000	250,000	100,000	

PROGRAM – ACTIVITY:
Public Safety – Traffic

DEPARTMENT:
Public Works

ACCOUNT NO.
030-7546-429
320-7546-429

TRAFFIC SIGNAL PROGRAM

PROJECT STATUS:

Cost Change
Revenue Change

Site Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

The Traffic Signal Program is the annual program that provides for replacing older traffic signals and for constructing new traffic signals in the City. This program will result in improved visibility, reliability, and appearance of signals.

Although recent advances in technology have elongated the normal useful life for traffic signal installations well past the previously expected 25 years, some of the older generation traffic signals still in use exceed their functional age. Components at those installations (including conduits, wiring, signal heads, and poles) need to be completely replaced. This program provides funding for those maintenance needs. In addition, this program provides for the necessary upgrading of the traffic signal system as technology continues to change.

COMMENTS

Proposed locations:

- 2007/08 Lincoln Way/Lynn Avenue signal replacement – Map 5, location I-11
- 2008/09 Lincoln Way/Sheldon Avenue signal replacement – Map 5, location H-11
- 2009/10 28th Street/Grand Avenue signal replacement – Map 2, location L-6
- 2010/11 Lincoln Way/Ash Avenue signal replacement – Map 5, location I-11
- 2011/12 Lincoln Way/Hayward Avenue signal replacement – Map 5, location H-11

Proposed funding will typically cover one signal upgrade per year. Traffic signals proposed to be modified or added are evaluated and prioritized annually.

Cost change is based on updated estimates and now includes pedestrian count-down timers and traffic data collection capabilities at identified locations. The replacement of the signal at Lincoln Way/Sheldon Avenue, which was originally scheduled for 2009/10, has been advanced one year due to the deterioration and instability of that signal. The replacement of the 28th Street/Grand Avenue signal has been delayed one year in order to accommodate this advancement.

FISCAL YEAR PRIORITY		4	5	4	3	3
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Engineering	75,000	15,000	15,000	15,000	15,000	15,000
Construction	800,000	160,000	160,000	160,000	160,000	160,000
TOTAL	875,000	175,000	175,000	175,000	175,000	175,000
FINANCING:						
Road Use Tax	800,000	100,000	175,000	175,000	175,000	175,000
IDOT TSIP Grant	75,000	75,000				
TOTAL	875,000	175,000	175,000	175,000	175,000	175,000

PROGRAM – ACTIVITY:

Public Safety – Traffic

DEPARTMENT:

Public Works

ACCOUNT NO.

060-7579-429
320-7579-429

RAILROAD QUIET ZONE IMPROVEMENTS

PROJECT STATUS: New

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This program will provide the safety improvements at railroad crossings required by the Federal Railroad Administration (FRA) to establish a quiet zone **along the east-west mainline corridor**. If the quiet zone is approved by FRA, the railroad would be prohibited from sounding horns at each crossing unless a safety concern is eminent.

COMMENTS

The improvements are a result of a diagnostic meeting involving federal, state, local, and private agencies that analyzed each rail crossing included within the Quiet Zone. In order for the City of Ames to be in compliance with the Final Rule, the railway corridor must have a "Quiet Zone Risk Index" (QZRI) below the "National Significant Risk Threshold" or below the "Risk Index With Horns" (RIWH). The improvement listed below will lower the QZRI below the RIWH, thus facilitating application for quiet zone status for the entire east-west mainline rail corridor. Engineering is included in the budget for consultant assistance in the quiet zone application process.

LOCATION

2007/08 Median extensions at Scholl Road – Map 4, location F-9; and North Dakota Avenue – Map 4, location E-9
Median extensions and abandoned rail removal at Hazel Avenue – Map 5, location K-11

FISCAL YEAR PRIORITY		5				
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Engineering	10,000	10,000				
Construction	65,000	65,000				
TOTAL	75,000	75,000				
FINANCING:						
Local Option Sales Tax	75,000	75,000				
TOTAL	75,000	75,000				

PROGRAM - ACTIVITY:
Public Safety – Traffic

DEPARTMENT:
Public Works

ACCOUNT NO.
030-7543-429

TRAFFIC ENGINEERING STUDIES

PROJECT STATUS: Cost Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

The studies planned for this program will focus on examining the traffic signal system, the bicycle path (shared use path) system, and accident data to provide traffic information used for planning future capital improvement projects. These studies will identify those projects that will improve efficiency, effectiveness, and safety of those systems.

COMMENTS

Proposed studies:

2007/08	Accident Study
2008/09	Transportation Plan Update
2009/10	Multi-Modal Safety Study
2010/11	Accident Study

The accident studies (2007/08 and 2010/11) will examine high accident locations and propose potential solutions to these accident concerns with future capital improvement projects. The Transportation Plan, which is required to be updated every five years, meets a schedule in which the update will be done by October 1, 2010. The Multi-Modal Safety Study (2009/10) will look at the interaction of multiple transportation modes as well as update the safe routes to school plans and establish a Master Plan for crosswalks.

Cost of the Transportation Plan Update (2008/09) includes the Transportation Model Calibration.

The cost change is due to the addition of the Multi-Modal Safety Study in 2009/10 and the Accident Study in 2010/11.

FISCAL YEAR PRIORITY	TOTAL	6 2007/08	6 2008/09	5 2009/10	4 2010/11	2011/12
COST:						
Engineering	600,000	50,000	400,000	100,000	50,000	
TOTAL	600,000	50,000	400,000	100,000	50,000	
FINANCING:						
Road Use Tax	200,000	50,000	80,000	20,000	50,000	
MPO/Planning Funds	400,000		320,000	80,000		
TOTAL	600,000	50,000	400,000	100,000	50,000	

PROGRAM – ACTIVITY:
Public Safety – Traffic

DEPARTMENT:
Public Works

ACCOUNT NO.
060-7523-429

US69 INTERSECTION IMPROVEMENTS

PROJECT STATUS: Cost Change Revenue Change Delayed

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

Intersection improvement projects along US69 within and just outside the City limits will alleviate congestion and reduce accidents.

COMMENTS

- 2007/08 13th Street/Grand Avenue intersection improvements (planning) – Map 5, location L-9
- 2008/09 13th Street/Grand Avenue intersection improvements (land acquisition and engineering) – Map 5, location L-9
- 2009/10 13th Street/Grand Avenue intersection improvements (construction) – Map 5, location L-9
- 2010/11 20th Street/Grand Avenue intersection improvements (planning) – Map 5, location L-8;
- 2011/12 20th Street/Grand Avenue intersection improvements (land acquisition and engineering) – Map 5, location L-8

The Long Range Transportation Plan identifies future projects and serves as a guide to scheduling those projects.

Planning for the 13th Street/Grand Avenue intersection improvements began in 2002/03. Due to a delay in the availability of Iowa Department of Transportation (D.O.T.) funding, these planning activities were suspended in recent years. Planning activities will conclude in 2007/08 with land acquisition occurring in 2008/09. This project may involve full acquisition of at least ten properties.

In 2010/11, planning for the 20th Street/Grand Avenue intersection improvements will begin, with construction planned for 2012/13. (Power pole relocation costs for the 13th Street/Grand Avenue Intersection Improvements Project and the 20th Street/Grand Avenue Intersection Improvements Project are included in the Grand Avenue 13.8 kV Line Relocation Project shown on page 70.)

The 13th Street/Grand Avenue and the 20th Street/Grand Avenue intersection improvement project cost and schedule changes are the result of updates that coordinate with D.O.T. funding availability. An external source of revenue is from an Iowa D.O.T. (USTEP) Grant. Potential additional Iowa D.O.T. funding sources have been identified, and grant applications will be submitted.

FISCAL YEAR PRIORITY		7	1	1	2	1
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Planning	80,000	30,000			50,000	
Land Acquisition	1,500,000		1,400,000			100,000
Engineering	305,000		135,000	35,000		135,000
Construction	1,300,000			1,300,000		
TOTAL	3,185,000	30,000	1,535,000	1,335,000	50,000	235,000
FINANCING:						
G. O. Bonds	2,605,000		1,535,000	835,000		235,000
Road Use Tax	80,000	30,000			50,000	
Iowa D.O.T. (USTEP) Grant	400,000			400,000		
Iowa D.O.T. Grant	100,000			100,000		
TOTAL	3,185,000	30,000	1,535,000	1,335,000	50,000	235,000

PROGRAM – ACTIVITY:
Public Safety – Traffic

DEPARTMENT:
Public Works

ACCOUNT NO.
060-7513-429

WEST LINCOLN WAY INTERSECTION IMPROVEMENTS

PROJECT STATUS: Cost Change
Delayed

Revenue Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project is for constructing turn lanes and installing traffic signals at the Franklin Avenue/Lincoln Way and the Dotson Drive/Lincoln Way intersections. A traffic impact report for South Fork Subdivision justified these improvements.

Increased traffic flow from South Fork Subdivision necessitates left-turn lanes at the Lincoln Way approaches to both the Franklin Avenue and the Dotson Drive intersections to accommodate heavy turning movements. Additional turn lanes are also anticipated for right-turning movements northbound from Franklin Avenue onto Lincoln Way and for left-turning movements northbound from Dotson Avenue onto Lincoln Way. The increased traffic will also warrant replacement of signals at the Franklin Avenue/Lincoln Way and the installation of new traffic signals at the Dotson Drive/Lincoln Way intersection. Turn lanes on Lincoln Way will mitigate left-turning, rear-end, and right-angle traffic accidents at both sites. Improvements will also support traffic coordination along Lincoln Way. An existing agreement requires the developer and the City to share equally in the construction cost of these improvements.

COMMENTS

- 2008/09 Franklin Avenue/Lincoln Way (construction) – Map 4, location G-11
- 2009/10 Dotson Drive/Lincoln Way (planning) – Map 4, location F-11
- 2010/11 Dotson Drive/Lincoln Way (construction) – Map 4, location F-11

The Franklin Avenue/Lincoln Way intersection improvement project had been anticipated to occur in 2006/07. However, the subdivision did not move forward as planned. This delayed the Franklin Avenue/Lincoln Way construction for two years; it is now planned for 2008/09. An anticipated \$500,000 Iowa D.O.T. grant has been reduced to \$200,000 and has been restated on this page. With the reduction of Iowa D.O.T. grant funding available, there has been an increase in the G.O. Bond funding necessary for this project.

The Dotson Drive/Lincoln Way project, previously scheduled for 2007/08 and 2008/09, has been delayed one year until the warrants included in the developer's agreement for South Fork Subdivision have been met.

The street widening for turn lanes will increase street maintenance and snow removal activities.

FISCAL YEAR PRIORITY			7	6	5	
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Land Acquisition	120,000		120,000			
Planning	25,000			25,000		
Engineering	250,000		150,000		100,000	
Construction	1,400,000		800,000		600,000	
	TOTAL	1,795,000	1,070,000	25,000	700,000	
FINANCING:						
G. O. Bonds	870,000		470,000		400,000	
Developer	700,000		400,000		300,000	
Iowa D.O.T Safety Grant	200,000		200,000			
Road Use Tax	25,000			25,000		
	TOTAL	1,795,000	1,070,000	25,000	700,000	

PROGRAM – ACTIVITY:
Public Safety – Traffic

DEPARTMENT:
Public Works

ACCOUNT NO.



The Pinehurst Drive pond was constructed in the late 1970s, before most of the area houses were finished and before Moore Memorial Park existed.

The pond is a treasured space for locals and visitors to use the bench or swing and watch the various waterfowl, frogs, turtles, and other wildlife.

The pond had accumulated several feet of silt and developed a surface of green algae, so a Neighborhood Improvement Program project shared in the cost to dredge the pond and install an aerator.

UTILITIES - SUMMARY

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
Resource Recovery	818,000	177,000	152,000	185,000	152,000	152,000	29
Water Treatment	8,490,000	1,590,000	1,650,000	1,600,000	2,150,000	1,500,000	31
Water Distribution	4,500,000	900,000	900,000	900,000	900,000	900,000	41
Storm Sewer	1,750,000	350,000	350,000	350,000	350,000	350,000	43
Sanitary Sewer	2,500,000	500,000	500,000	500,000	500,000	500,000	47
WPC Treatment	9,250,000	575,000	1,000,000	1,475,000	2,900,000	3,300,000	50
Electric	176,742,172	7,377,172	7,609,000	159,156,000	1,800,000	800,000	56
Total Expenditures	204,050,172	11,469,172	12,161,000	164,166,000	8,752,000	7,502,000	
REVENUES:							
Bonds:							
G.O. Bonds	2,900,000	500,000	1,200,000	1,200,000			
Water Revenue Bonds	750,000					750,000	
Sewer Revenue Bonds	7,000,000			800,000	2,900,000	3,300,000	
Electric Revenue Bonds	157,000,000			157,000,000			
Sub-Total Bonds	167,650,000	500,000	1,200,000	159,000,000	2,900,000	4,050,000	

UTILITIES - SUMMARY

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
REVENUES, continued:						
City:						
Resource Recovery Fund	818,000	177,000	152,000	185,000	152,000	152,000
Water Utility Fund	9,340,000	1,990,000	1,350,000	1,300,000	3,050,000	1,650,000
Sewer Utility Fund	4,750,000	1,075,000	1,500,000	1,175,000	500,000	500,000
Storm Sewer Utility Fund	1,750,000	350,000	350,000	350,000	350,000	350,000
Electric Utility Fund	18,079,566	6,596,566	6,727,000	2,156,000	1,800,000	800,000
Sub-Total City Funds	34,737,566	10,188,566	10,079,000	5,166,000	5,852,000	3,452,000
Other:						
Iowa State University	1,662,606	780,606	882,000			
Total Revenues	204,050,172	11,469,172	12,161,000	164,166,000	8,752,000	7,502,000

UTILITIES - RESOURCE RECOVERY

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
1 Resource Recovery System Improvements	818,000	177,000	152,000	185,000	152,000	152,000	30
Total Expenditures	818,000	177,000	152,000	185,000	152,000	152,000	
REVENUES:							
Resource Recovery Fund	818,000	177,000	152,000	185,000	152,000	152,000	
Total Revenues	818,000	177,000	152,000	185,000	152,000	152,000	

DESCRIPTION/JUSTIFICATION

This program is used to purchase new and replacement components and equipment at the Resource Recovery Plant. Also included is funding for materials for two annual preventive maintenance projects (replacement of the #2 rotary disc screen rollers (RDS) and chains and a 20% rebuild of the C-1 conveyor) and funding for sideliners #1 and #2 mills every three years. Resource Recovery personnel perform the work to complete the preventive maintenance projects.

COMMENTS

Proposed projects:

- 2007/08 #1 mill rotor rebuild (\$75,000); #2 mill sideliners (\$25,000); continuance of the electrical system upgrade (\$25,000); preventive maintenance materials for replacement of the #2 RDS rollers and chains (\$35,000); and a 20% rebuild of the C-1 conveyor (\$17,000)
- 2008/09 #1 and #2 RDS rebuild (\$100,000); preventive maintenance materials for replacement of the #2 RDS rollers and chains (\$35,000); and a 20% rebuild of the C-1 conveyor (\$17,000)
- 2009/10 Process area sprinkler system replacement (\$40,000); HVAC improvements (\$60,000); #1 mill housing replacement (\$33,000); preventive maintenance materials for replacement of the #2 RDS rollers and chains (\$35,000); and a 20% rebuild of the C-1 conveyor (\$17,000)
- 2010/11 #1 mill sideliners (\$27,000); #1 mill breaker plate liners (\$11,000); shredder rotor (\$60,000); preventive maintenance materials for replacement of the #2 RDS rollers and chains (\$37,000); and a 20% rebuild of the C-1 conveyor (\$17,000)
- 2011/12 Purchase of property east of the plant (\$100,000); preventive maintenance materials for replacement of #2 RDS rollers and chains (\$35,000); and a 20% rebuild of the C-1 conveyor (\$17,000)

Cost change is due to updated estimates.

LOCATION

Arnold O. Chantland Resource Recovery Plant, 110 Center Avenue - Map 5, location N-11

FISCAL YEAR PRIORITY		1	1	1	1	1
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Construction	818,000	177,000	152,000	185,000	152,000	152,000
	TOTAL	818,000	177,000	152,000	185,000	152,000
FINANCING:						
Resource Recovery Fund	818,000	177,000	152,000	185,000	152,000	152,000
	TOTAL	818,000	177,000	152,000	185,000	152,000

PROGRAM – ACTIVITY:
Utilities - Resource Recovery

DEPARTMENT:
Public Works

ACCOUNT NO.
590-8903-489

UTILITIES - WATER TREATMENT

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
1 Raw Well Water Loop Line	2,900,000	500,000	1,200,000	1,200,000			32
2 Water Supply Aquifer Capacity Study	90,000	90,000					33
3 Lime Sludge Disposal Improvements	400,000	400,000					34
4 Southwest Pressure Zone	600,000	600,000					35
5 Water Plant Equipment Replacement	300,000		300,000				36
6 Well Replacement	300,000		150,000			150,000	37
7 Water Supply Expansion	2,500,000			400,000	1,500,000	600,000	38
8 Repaint Bloomington Road Elevated Tank	400,000				400,000		39
9 Water Plant Expansion	1,000,000				250,000	750,000	40
Total Expenditures	8,490,000	1,590,000	1,650,000	1,600,000	2,150,000	1,500,000	
REVENUES:							
Bonds:							
G.O. Bonds	2,900,000	500,000	1,200,000	1,200,000			
Water Revenue Bonds	750,000					750,000	
Sub-Total Bonds	3,650,000	500,000	1,200,000	1,200,000		750,000	
City:							
Water Utility Fund	4,840,000	1,090,000	450,000	400,000	2,150,000	750,000	
Total Revenues	8,490,000	1,590,000	1,650,000	1,600,000	2,150,000	1,500,000	

RAW WELL WATER LOOP LINE

PROJECT STATUS: New

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project will loop the existing raw well water line extending from the Water Plant to the Southeast Well Field (SEWF) and the Youth Sports Complex Well Field (YSC) to increase carrying capacity and reliability.

COMMENTS

Currently a single 24-inch water line delivers water from the 10 wells in the SE Well Field and YSC Well Field. This line has one rail crossing, one stream crossing, and three major street/road crossings which present the most likely locations for main breaks or service interruptions. These 10 wells represent approximately 65 percent of the City's current water supply capacity. This well line was designed in the early 1980s before the full amount of the future well capacity was known. It is now undersized for current full production capability of the existing wells, and will be further restricted as new wells are constructed.

Looping this raw water line will provide three very important benefits:

1. It will actually increase the productivity of the Southeast and Hunziker Youth Sports Complex well fields by approximately one million gallons per day under peak demand by simply reducing friction losses;
2. It will provide backup redundancy for approximately 65% of the total supply capacity; and
3. It extends the raw water piping system closer to the identified location of future well fields.

LOCATION

FISCAL YEAR PRIORITY			1	1	3		
	TOTAL		2007/08	2008/09	2009/10	2010/11	2011/12
COST:							
Engineering	350,000		150,000	100,000	100,000		
Land/Easements	50,000		50,000				
Construction	2,500,000		300,000	1,100,000	1,100,000		
	TOTAL	2,900,000	500,000	1,200,000	1,200,000		
FINANCING:							
G. O. Bonds	2,900,000		500,000	1,200,000	1,200,000		
	TOTAL	2,900,000	500,000	1,200,000	1,200,000		

PROGRAM - ACTIVITY:
Utilities – Water Production

DEPARTMENT:
Water & Pollution Control

ACCOUNT NO.
368-3931-489

DESCRIPTION/JUSTIFICATION

This project will update current water supply capacity estimates of the Ames aquifer in order to identify present and future supply capabilities or limitations. A computer model of the Ames aquifer will be developed to evaluate future planning scenarios.

COMMENTS

Current and projected water supply capacity estimates of the Ames aquifer are based on studies and data that are now more than 15 years old. The drought conditions during 1999-2006 raised concerns about supply capacity. In addition, several recent developments may have an impact on aquifer capacity and potential resources for the Ames utility. During the past 10 years, two gravel operations (one existing and one proposed) have caused modifications to planned well field expansion. Capacity augmentation from Hayden Park and Peterson Pits needs to be re-evaluated now that gravel operations have ceased at those locations. New wells have been constructed (golf courses, irrigation) within the existing well field boundaries, and potential new demands (industrial/ethanol) may affect existing and future capacity. A water resources aquifer evaluation proposal from Iowa State University (Dr. Bill Simpkins) was accepted by Council in July 2005. The total study cost is estimated at more than \$215,000 through September 2008. It was originally anticipated that the City's share would be \$125,000, with the balance (\$90,000) coming from outside sources. Numerous applications for funding assistance to complete this study have been made to IDNR, EPA, AWWA, and other organizations. While favorable comments have been received about the study, all organizations have declined to provide any assistance. The cost change represents 100% funding from City sources to complete this study in order to obtain the best available data to assess the City's water supply capability.

Project Summary:

FY 04/05	25,000	Initiate data collection and preliminary model review
FY 05/06-06/07	100,000	Develop, validate, and complete computer model
FY 07/08	90,000	Complete the full study

LOCATION

Water Plant, 300 E. 5th Street, Building 1, Map 5, Location N-11

FISCAL YEAR PRIORITY		2				
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Engineering	90,000	90,000				
TOTAL	90,000	90,000				
FINANCING:						
Water Utility Fund	90,000	90,000				
TOTAL	90,000	90,000				

PROGRAM - ACTIVITY:
Utilities – Water Treatment

DEPARTMENT:
Water & Pollution Control

ACCOUNT NO.
510-3929-489

LIME SLUDGE DISPOSAL IMPROVEMENTS

PROJECT STATUS: No Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project will expand the lime sludge dewatering operation to increase the City's ability to dewater and recycle lime sludge for ultimate disposal.

COMMENTS

The existing lime sludge dewatering operation was initiated nearly 10 years ago. There is only enough capacity to dewater and recycle the amount of material generated each year. Construction of two or more additional dewatering cells will increase dewatering efficiency and improve operational flexibility. Allowing the material to dewater for an additional year will reduce the amount of water retained by the lime sludge, thus reducing the cost for hauling and providing an ability to begin to reduce nearly 60 years of accumulated sludge. It may be possible to offset some of the project costs by using bottom ash from the Power Plant ash disposal facility similar to what was done for the existing dewatering cells. This could result in cost savings for both utilities.

The schedule for these improvements is:

- 06/07 Land Purchase (\$75,000) – negotiations currently under way
- 06/07 Design (\$50,000)
- 07/08 Design/Construction (\$400,000)

LOCATION

Water Plant, 300 E. 5th Street, Building 1, Map 5, Location N-11

FISCAL YEAR PRIORITY		TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:							
Engineering		25,000	25,000				
Construction		375,000	375,000				
	TOTAL	400,000	400,000				
FINANCING:							
Water Utility Fund		400,000	400,000				
	TOTAL	400,000	400,000				

PROGRAM - ACTIVITY:
Utilities – Water Treatment

DEPARTMENT:
Water & Pollution Control

ACCOUNT NO.
510-3930-489

SOUTHWEST PRESSURE ZONE

PROJECT STATUS: Cost Increase

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project provides for a second pressure zone within the water distribution system, including two pump stations, two elevated water tanks, and distribution modifications. This project maintains water pressure throughout the City according to Council guidance following the July 23, 1996 water pressure workshop.

COMMENTS

Engineering evaluations of the existing water distribution system began in 1996/97. Land purchase/easements (\$74,100) were completed in 2000/01. The Mortensen Road booster station (SAM) and west side elevated water tank (MAC) were constructed from FY 2001/02 - FY 2003/04. The removal of the North Dakota elevated tank (\$100,000) is projected after FY 2011/12, but can be moved up or further delayed as desired. The Scholl Road booster station (\$700,000) is projected for a future date if growth warrants additional pumping. Engineering evaluations (FY 1999/00 - \$5,900) identified the need for an additional one million gallon elevated storage tank which is shown in FY 2006/07 - FY 2007/08 (\$1,600,000).

Project Summary:

FY 06/07	\$100,000	Design of SAM (State and Mortensen) tank
FY 06/07	900,000	Begin construction of SAM tank
FY 07/08	600,000	Complete construction of SAM tank
	\$1,600,000	

Staff also evaluated re-activating the North Dakota elevated tank to supplement water storage in the Water Plant (east side) pressure zone rather than building the State and Mortensen tank. Construction of the State and Mortensen elevated tank (FY 06/07-07/08, \$1,600,000) was determined to be the best alternative, and the existing North Dakota elevated tank can be removed when desired.

LOCATION

The approximate area is generally west of State Avenue and south of Lincoln Way. Map 4, location F-12

FISCAL YEAR PRIORITY		4				
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Engineering	50,000	50,000				
Construction	550,000	550,000				
TOTAL	600,000	600,000				
FINANCING:						
Water Utility Fund	600,000	600,000				
TOTAL	600,000	600,000				

PROGRAM - ACTIVITY:
Utilities - Water Pumping

DEPARTMENT:
Water & Pollution Control

ACCOUNT NO.
510-3927-489

WATER PLANT EQUIPMENT REPLACEMENT

PROJECT STATUS: Cost Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

Water Plant equipment units or systems will be replaced, overhauled, or rebuilt in a proactive manner. Repairs and maintenance are more expensive and difficult as the equipment gets older. Security improvements have been added in FY 02/03 through FY 06/07.

COMMENTS

The schedule for these improvements is:

- 08/09 Electrical repairs at NADC Pump Station (\$50,000) and SAM Pump Station VFD (\$50,000)
- 08/09 Redundant electrical feed at SAM Pump Station (FY 08/09 - \$200,000)

Additional improvements will be identified for future years. The schedule may change in response to impending failure, regulatory agency requirements, etc.

LOCATION

Water Plant, 300 East 5th Street, Building 1 - Map 5, location N-11

FISCAL YEAR PRIORITY		TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:							
Engineering/Architect		70,000		70,000			
Equipment		230,000		230,000			
	TOTAL	300,000		300,000			
FINANCING:							
Water Utility Fund		300,000		300,000			
	TOTAL	300,000		300,000			

PROGRAM - ACTIVITY:
Utilities - Water Treatment

DEPARTMENT:
Water & Pollution Control

ACCOUNT NO.

WELL REPLACEMENT

PROJECT STATUS: Delayed

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project provides for replacing/redrilling existing water supply wells to maintain the capacity of the current well fields. Presently, 19 potable supply wells are used to meet water demand.

COMMENTS

A rehabilitation program is included in the operating budget (approximately \$35,000 annually) to rejuvenate one or two wells each year. Unfortunately, rejuvenation may only be cost-effective a few times before complete replacement becomes the best option. In addition, there may be other reasons (i.e. well screen/casing failure, contamination, etc.) that an existing well should be replaced. Repair/replacement of the raw water pipelines and valves is also included in order to maintain overall supply capacity/efficiency. None of the existing wells require replacement at this time, but eight wells are more than 30 years old, seven wells have been in service between 15 to 29 years, while only four wells have less than 10 years of service. All wells are regularly evaluated to determine if replacement is the best option to regain lost capacity.

At this time, no wells are identified for replacement. Funding is shown in case well failures occur so that replacement can be initiated at the earliest opportunity.

LOCATION

FY 08/09 Site to be determined; as needed
FY 11/12 Site to be determined; as needed

FISCAL YEAR PRIORITY		TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
				3			3
COST:							
Engineering/Architects		40,000		20,000			20,000
Construction		260,000		130,000			130,000
	TOTAL	300,000		150,000			150,000
FINANCING:							
Water Utility Fund		300,000		150,000			150,000
	TOTAL	300,000		150,000			150,000

PROGRAM - ACTIVITY:
Utilities - Water Production

DEPARTMENT:
Water & Pollution Control

ACCOUNT NO.

WATER SUPPLY EXPANSION

PROJECT STATUS: Cost Increase

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project will expand the capacity of the municipal water supply by construction of additional wells or other options not yet identified. Construction of the final three wells at the Youth Sports Complex is under way, and these new wells will be operational by the spring of 2007. The existing water supply (including the final wells at the Youth Sports Complex) is adequate to meet estimated municipal demands until approximately 2011±. Further well field development east of Interstate 35 is projected to begin in FY 09/10.

COMMENTS

Three well field areas were previously identified south of Highway 30 in the South Skunk River floodplain. One area is west of the South Skunk River south of Highway 30; one area is east of the South Skunk River near Dayton Avenue; the final area is east of I-35 and north of the South Skunk River. The well field (add 2 mgd under drought conditions) west of the South Skunk River south of Highway 30 will be completed in 2007. Although the South Dayton well field (adds 2 mgd under drought conditions) is closer and less expensive to develop, staff recommends bypassing this source at this time due to the uncertainty of regulatory requirements relating to the existence of two gravel extraction operations. The following summarizes the projected expenses, time schedule, and work description. Each new well increases operation expenses by \$25,000 per year for power, communication, parts and supplies, etc.

Current estimates are that the I-35 well field can sustain a 6 mgd capacity (total of four wells). Each well will cost approximately \$250,000 while the design, pipeline, and easements are estimated at \$2,000,000. Only two of these new wells are included at an estimated cost of \$500,000. The timing for these additional wells will be driven by growth in water demand. The Water Plant operating budget request includes funds for marketing activities aimed at managing peak demands. **If the peak demands continue to rise sharply, then the remaining two wells will also be needed much sooner than anticipated.**

- FY 09/10 Design and easements for I-35 well field
- FY 10/11 Construct pipeline and design wells
- FY 11/12 Construct two new wells – adds 3 million gallons per day under drought conditions

LOCATION

Future wells will be located east of I-35 and south of Highway 30 on property purchased in 2000. Easements for the connecting pipeline to the new wells (approximately 4 miles) will be needed.

FISCAL YEAR PRIORITY			2	1	1	
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Engineering/Architects	275,000			75,000	100,000	100,000
Easements	125,000			125,000		
Construction	2,100,000			200,000	1,400,000	500,000
	TOTAL	2,500,000		400,000	1,500,000	600,000
FINANCING:						
Water Utility Fund	2,500,000			400,000	1,500,000	600,000
	TOTAL	2,500,000		400,000	1,500,000	600,000

PROGRAM - ACTIVITY:
Utilities - Water Production

DEPARTMENT:
Water & Pollution Control

ACCOUNT NO.

REPAINT BLOOMINGTON ROAD ELEVATED TANK

PROJECT STATUS: Cost Increase

Delayed

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

The elevated water tank on Bloomington Road (BRET) was placed in service in 1989. Internal and external paint systems usually last for 12 to 17 years before repainting is necessary to protect the steel from corrosion and maintain the appearance. The cost estimate includes approximately \$200,000 to pay for enclosing the sandblasting and painting operation to minimize dust and paint splatter complaints, with the balance covering the sandblasting and painting cost.

COMMENTS

This project was previously included in the Southwest Pressure Zone because of the need to complete the new elevated water tank at State and Mortensen (SAM). The SAM tank will provide system reliability and fire protection, and maintain water pressure on the east side to allow the BRET tank to be taken out of service for painting. The BRET and SAM tanks complement each other to maintain service levels during the approximate 3-1/2 months needed to paint either tank.

LOCATION

2521 Bloomington Road – Map 2, location I-5

FISCAL YEAR PRIORITY		TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:							
Engineering		75,000				75,000	
Construction		325,000				325,000	
	TOTAL	400,000				400,000	
FINANCING:							
Water Utility Fund		400,000				400,000	
	TOTAL	400,000				400,000	

PROGRAM - ACTIVITY:
Utilities – Water Pumping

DEPARTMENT:
Water and Pollution Control

ACCOUNT NO.

WATER PLANT EXPANSION

PROJECT STATUS: New

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project consists of Phase 1 of the expansion of the Water Treatment Plant. A new 15 million gallon per day (mgd) addition will be constructed adjacent to the existing Water Plant. This capacity will meet treatment requirements for the next 15± years. The existing facility (with numerous components dating to the 1920s and 1930s) will be taken out of service. Phase 2 involves rehabilitation, rebuilding, or replacing existing Water Plant units, as needed, to increase overall capacity to approximately 25 mgd. Timing for the rehabilitation of the existing units will be determined at a future date.

COMMENTS

Water utility infrastructure consists of water supply (i.e. wells), treatment, and distribution (i.e. pumping, ground or elevated storage, and mains) components. Each component has a different basis of design, as required by regulatory standards or industry practice. This phase of the expansion is estimated as follows:

FY 2010/11	250,000	Preliminary design
FY 2011/12	750,000	Final design and bidding
FY 2012/13 – 13/14	<u>14,000,000</u>	Phase 1 construction
TOTAL	15,000,000	

The timing for this expansion will be driven in large part by growth (or lack of growth) in peak water demand. The current operating budget request includes increased marketing funds aimed at managing future peak demands. **If these efforts are successful, this project can be delayed for awhile.** It is important to recognize that the existing Water Plant facility is still utilizing infrastructure dating back as far as 1924. Many of these components are reaching the end of their useful life, and there will come a time when it is cost effective to combine infrastructure replacement with capacity expansion. That projected time is probably not more than ten years away. Annual operating expenses will depend on the treatment technology used.

LOCATION

Water Plant, 300 East 5th Street – Map 5, location N-11

FISCAL YEAR PRIORITY		TOTAL	2007/08	2008/09	2009/10	2010/11 ³	2011/12 ²
COST:							
Engineering		500,000				250,000	250,000
Construction		500,000					500,000
	TOTAL	1,000,000				250,000	750,000
FINANCING:							
Water Utility Fund		250,000				250,000	
Water Revenue Bonds		750,000					750,000
	TOTAL	1,000,000				250,000	750,000

PROGRAM - ACTIVITY:
Utilities – Water Treatment

DEPARTMENT:
Water & Pollution Control

ACCOUNT NO.

UTILITIES - WATER DISTRIBUTION

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
1 Water System Improvements	4,500,000	900,000	900,000	900,000	900,000	900,000	42
Total Expenditures	4,500,000	900,000	900,000	900,000	900,000	900,000	
REVENUES:							
Water Utility Fund	4,500,000	900,000	900,000	900,000	900,000	900,000	
Total Revenues	4,500,000	900,000	900,000	900,000	900,000	900,000	

WATER SYSTEM IMPROVEMENTS

PROJECT STATUS: No Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This program provides for replacing water mains in areas that are experiencing rusty water problems. It also provides for installing larger distribution mains in areas that have a high concentration of 4" supply lines, transferring water services from 4" water mains in streets where larger water mains exist, and abandoning 4" water mains. Eliminating duplicate water mains, where possible, improves water flow and helps reduce rusty water. Installing larger distribution lines in areas that have a high concentration of 4" supply lines and less than desirable fire-fighting capacity (predominantly in the older areas of the community) provides larger supply quantities in relation to the current and proposed land uses, in accordance with the Land Use Policy Plan.

COMMENTS

Identified water system improvements for 2007/08:

- State Avenue (west pressure zone loop) – Map 4, location G-12
- Lettie Street (South Wilmoth Avenue to State Avenue) – Map 4, location G-11

Water service transfer locations identified for 2007/08:

- Woodland Street (West Street to Forest Glen) – Map 4, location G-11
- Forest Glen – Map 4, location G-10

Planning costs for each yearly project are shown in the year prior to anticipated construction; engineering/inspection costs appear during the year of construction.

Improvements to these water mains will result in reduced maintenance costs.

FISCAL YEAR PRIORITY		1	1	1	1	1
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Planning	150,000	30,000	30,000	30,000	30,000	30,000
Engineering	150,000	30,000	30,000	30,000	30,000	30,000
Construction	4,200,000	840,000	840,000	840,000	840,000	840,000
TOTAL	4,500,000	900,000	900,000	900,000	900,000	900,000
FINANCING:						
Water Utility Fund	4,500,000	900,000	900,000	900,000	900,000	900,000
TOTAL	4,500,000	900,000	900,000	900,000	900,000	900,000

PROGRAM – ACTIVITY:
Utilities – Water Distribution

DEPARTMENT:
Public Works

ACCOUNT NO.
510-8452-489

UTILITIES - STORM SEWER

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
1 Low Point Drainage Improvements	500,000	100,000	100,000	100,000	100,000	100,000	44
2 Intake Rehabilitation Program	750,000	150,000	150,000	150,000	150,000	150,000	45
3 Storm Sewer Outlet Erosion Control	500,000	100,000	100,000	100,000	100,000	100,000	46
Total Expenditures	1,750,000	350,000	350,000	350,000	350,000	350,000	
REVENUES:							
City:							
Storm Sewer Utility Fund	1,750,000	350,000	350,000	350,000	350,000	350,000	
Total Revenues	1,750,000	350,000	350,000	350,000	350,000	350,000	

LOW POINT DRAINAGE IMPROVEMENTS

PROJECT STATUS: Site Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This is the annual program for drainage improvements to decrease flooding at low points. The name of this program has been changed from “Annual Residential Street Low Point Drainage Improvements” as shown in previous years. This name change signifies that all low point drainage improvements are not focused on residential street locations, but rather on those locations most in need of the improvements.

During heavy rain, some areas become flooded and damage to private property occasionally occurs. This program provides for installation of drainage improvements to decrease this flooding at low points. In 1994, the following criteria were established for evaluating and prioritizing drainage situations: 1) Potential damage from storm runoff; 2) Emergency vehicle access limitations created by runoff; 3) Number of people affected; 4) Number of structures affected; 5) Street classification; 6) Land use; and 7) Benefits of a project to adjacent areas. Based on these criteria, target areas for improvements are established. These improvements may include construction of detention areas, new pipe systems, and replacement systems for increasing the ability to control the runoff so that it can be carried by downstream systems.

COMMENTS

- 2007/08 West Lincoln Way/Bentwood Subdivision – Map 4, location D-11
- 2008/09 South 2nd Street/Oak Avenue area – Map 5, location L-11
- 2009/10 Little Bluestem Court – Map 5, location I-13
- 2010/11 Crystal Street (along east corporate limits) – Map 9, location N-15
- 2011/12 South 16th Street/Bell Avenue (northwest quadrant) – Map 9, location R-13

Addressing these drainage problems will reduce flooding problems on both public and private property. The amount of time spent on duty calls to set out barricades in areas that flood during heavy rains will also be reduced.

The locations have been reorganized to better coordinate with street rehabilitation schedules.

FISCAL YEAR PRIORITY		1	1	1	1	1
TOTAL		2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Planning	25,000	5,000	5,000	5,000	5,000	5,000
Engineering	50,000	10,000	10,000	10,000	10,000	10,000
Construction	425,000	85,000	85,000	85,000	85,000	85,000
TOTAL	500,000	100,000	100,000	100,000	100,000	100,000
FINANCING:						
Storm Sewer Utility Fund	500,000	100,000	100,000	100,000	100,000	100,000
TOTAL	500,000	100,000	100,000	100,000	100,000	100,000

PROGRAM - ACTIVITY:
Utilities - Storm Sewer

DEPARTMENT:
Public Works

ACCOUNT NO.
560-8681-489

STORM SEWER INTAKE REHABILITATION PROGRAM

PROJECT STATUS: No Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This annual program is to repair or replace deteriorated storm sewer intakes. Areas of concentration for storm sewer intake repairs will be those locations programmed for street improvements.

Except for cleaning and inspecting storm sewer intakes on a five-year rotation, the storm sewer system has had little maintenance since its installation 80 to 100 years ago. The intakes are brick or concrete and have experienced repeated “freeze/thaw” conditions during winters and springs. This repeated “freeze/thaw” action has caused the bricks and mortar to deteriorate, resulting in collapsed intakes. This program provides for a proactive response by contractually repairing/replacing intakes on a scheduled basis. It will result in an upgrading of all substandard intakes within twenty years. In addition to the contractual work provided in this program, City crews provide immediate repair to those intakes that pose an immediate concern for life, health, or safety.

COMMENTS

Delay of this program will lead to unsafe drainage structures in the gutter sections of many streets.

FISCAL YEAR PRIORITY		2	2	2	2	2
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Planning	25,000	5,000	5,000	5,000	5,000	5,000
Engineering	25,000	5,000	5,000	5,000	5,000	5,000
Construction	700,000	140,000	140,000	140,000	140,000	140,000
	TOTAL	750,000	150,000	150,000	150,000	150,000
FINANCING:						
Storm Sewer Utility Fund	750,000	150,000	150,000	150,000	150,000	150,000
	TOTAL	750,000	150,000	150,000	150,000	150,000

PROGRAM - ACTIVITY:
Utilities - Storm Sewer

DEPARTMENT:
Public Works

ACCOUNT NO.
560-8682-489

STORM SEWER OUTLET EROSION CONTROL

PROJECT STATUS: No Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This annual program provides for stabilization of areas that have become eroded due to discharges of the storm sewer system into swales, gullies, or drainage ways in residential areas. This program will provide a more permanent control of the erosion and will reduce recurring maintenance costs in these areas.

COMMENTS

An inventory of drainage ways within the City will be established based on National Pollution Discharge Elimination System (NPDES) Phase II requirements. As monitoring activities associated with the NPDES permit requirements begin, locations for future improvements will be identified.

LOCATION

Frost Drive/Norris Street (west corporate limits) – Map 4, location C-11

FISCAL YEAR PRIORITY		3	3	3	3	3
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Engineering	50,000	10,000	10,000	10,000	10,000	10,000
Construction	450,000	90,000	90,000	90,000	90,000	90,000
	TOTAL	500,000	100,000	100,000	100,000	100,000
FINANCING:						
Storm Sewer Utility Fund	500,000	100,000	100,000	100,000	100,000	100,000
	TOTAL	500,000	100,000	100,000	100,000	100,000

PROGRAM - ACTIVITY:
Utilities - Storm Sewer

DEPARTMENT:
Public Works

ACCOUNT NO.
560-8683-489

UTILITIES - SANITARY SEWER

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
1 Sanitary Sewer Rehabilitation Program	1,500,000	300,000	300,000	300,000	300,000	300,000	48
2 Clear Water Diversion	1,000,000	200,000	200,000	200,000	200,000	200,000	49
Total Expenditures	2,500,000	500,000	500,000	500,000	500,000	500,000	
REVENUES:							
Sewer Utility Fund	2,500,000	500,000	500,000	500,000	500,000	500,000	
Total Revenues	2,500,000	500,000	500,000	500,000	500,000	500,000	

SANITARY SEWER REHABILITATION PROGRAM

PROJECT STATUS: No Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This is the annual program for rehabilitation/reconstruction of deficient sanitary sewers and deteriorated manholes at various locations throughout the city.

Televising the sewer system has revealed problem areas that could result in future blockages. Most of these problem areas are in sewers that are deeper than 14 feet, and City forces are not equipped to make repairs on sewers of that depth. This program, therefore, provides for those repairs by outside firms.

COMMENTS

A 1995/96 Inflow and Infiltration Study identified work activities in which an increased emphasis (through this program) proved cost effective in reducing peak flows. Suggested work activities included rehabilitating manholes, repairing pipe, and similar work. In addition, sewer maintenance crews systematically investigate interceptor and trunk sewers to identify major sources of inflow that could be eliminated as a means of lowering the peak wet weather flow at the treatment plant.

Locations for future years will be further identified from the Sanitary Sewer System Study which was completed in 2006/07. Purchased or leased monitoring equipment is also used in determining problem areas.

LOCATION

South 3rd Street/South Duff Avenue – Map 5, location M-11

FISCAL YEAR PRIORITY		1	1	1	1	1
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Planning	50,000	10,000	10,000	10,000	10,000	10,000
Engineering	50,000	10,000	10,000	10,000	10,000	10,000
Construction	1,400,000	280,000	280,000	280,000	280,000	280,000
	TOTAL	300,000	300,000	300,000	300,000	300,000
FINANCING:						
Sewer Utility Fund	1,500,000	300,000	300,000	300,000	300,000	300,000
	TOTAL	300,000	300,000	300,000	300,000	300,000

PROGRAM – ACTIVITY:
Utilities - Sanitary Sewer

DEPARTMENT:
Public Works

ACCOUNT NO.
520-8534-489

CLEAR WATER DIVERSION

PROJECT STATUS: No Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This is the annual program providing for diversion of footing drain discharge from sanitary sewers to storm sewers.

Clear water from footing drains causes overloading and backups in the sanitary sewer as well as increases in the volume of clean water that is treated at the sewage treatment facility. The Clear Water Diversion program involves diverting footing drain discharge from sanitary sewers to storm sewers. This diversion results in lower volumes of clean water needing treatment at the sewage treatment facility, thereby decreasing operating and maintenance costs of that facility. In addition, customers should experience fewer, less severe sewer backups.

COMMENTS

The Inflow and Infiltration Study, undertaken in 1995, showed that in order for clear water diversion to be cost effective, an individual sump pump must discharge in excess of 1,000 gallons per day. To encourage participation in the footing grant program, City Council has authorized a grant to each participating property owner of either \$1,100 or \$1,300 depending upon the type of work involved on the property. Funding of these grants is provided on an annual basis, and the conversion work for qualified properties must be completed in the year for which the grants are given. 2,140 footing drain grants have been issued to property owners under this program as of October 1, 2006, and over 1,500 property owners are still eligible to participate.

In addition to funding grants, this program also includes construction of collector lines as needed along city streets. Available funding for this program has always been split evenly between footing drain grants and construction. This allowed for funding approximately 80 grants per year. In recent years, however, the number of requests for grants has been declining, allowing additional money to become available for construction. It is anticipated that this trend will continue; therefore, changes to the grant/construction allocation will be made for implementation with the 2007/08 program.

FISCAL YEAR PRIORITY		2		2		2		2	
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12			
COST:									
Planning	50,000	10,000	10,000	10,000	10,000	10,000			
Engineering	100,000	20,000	20,000	20,000	20,000	20,000			
Construction	850,000	170,000	170,000	170,000	170,000	170,000			
	TOTAL	1,000,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000
FINANCING:									
Sewer Utility Fund	1,000,000	200,000	200,000	200,000	200,000	200,000			
	TOTAL	1,000,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000

PROGRAM - ACTIVITY:
Utilities - Sanitary Sewer

DEPARTMENT:
Public Works

ACCOUNT NO.
520-8577-489

UTILITIES - WATER POLLUTION CONTROL

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
1 WPC Plant Automation Upgrade	400,000	200,000	200,000				51
2 WPC Plant Equipment	500,000	350,000	150,000				52
3 WPC Plant Wind Turbine/Generator	900,000	25,000	600,000	275,000			53
4 Biosolids Storage/Thickening	450,000		50,000	400,000			54
5 WPC Plant Expansion	7,000,000			800,000	2,900,000	3,300,000	55
Total Expenditures	9,250,000	575,000	1,000,000	1,475,000	2,900,000	3,300,000	
REVENUES:							
Bonds:							
Sewer Revenue Bonds	7,000,000			800,000	2,900,000	3,300,000	
City:							
Sewer Utility Fund	2,250,000	575,000	1,000,000	675,000			
Total Revenues	9,250,000	575,000	1,000,000	1,475,000	2,900,000	3,300,000	

DESCRIPTION/JUSTIFICATION

This project provides for the replacement and upgrade of the WPC Plant supervisory control and data acquisition (SCADA) system originally installed in 1989.

COMMENTS

The existing WPC Plant SCADA system is a sole-source proprietary system that provides mostly data-logging and limited report generation with some plant control and operation. The existing system consists of a main panel and four sub-panels which require proprietary hardware and software services to maintain or reconfigure. Technical and equipment support is difficult to obtain and more expensive because the industry has moved away from this type of system.

A team of plant personnel and an engineering consultant reviewed the present system in 2003-04 and determined that complete replacement and phased transition to a new PLC- (programmable logic controller) based system was the best option offering the most flexibility, greater operational control capability, and the most cost-effective approach to upgrade and enhance the plant's SCADA system. The FY 05/06-06/07 expenses provide for immediate replacement of the main computer and remote location sub-panels. Fiscal years 07/08 and 08/09 expenses allow transition to state-of-the-art sensors and controllers and replacement of obsolete equipment components.

Project Schedule:

FY 05/06 – 06/07	\$705,000	Main computer
FY 07/08	\$200,000	On-site controllers
FY 08/09	\$200,000	On-site controllers

The cost was reduced due to very favorable bids received for the FY 05/06 – 06/07 portion of the project, and a corresponding reduction in the FY 07/08 and FY 08/09 portions of the project.

LOCATION

WPC Plant; four miles south of Highway 30, east of I-35

FISCAL YEAR PRIORITY	TOTAL	1		2009/10	2010/11	2011/12
		2007/08	2008/09			
COST:						
Engineering	100,000	50,000	50,000			
Equipment	300,000	150,000	150,000			
	TOTAL	400,000	200,000	200,000		
FINANCING:						
Sewer Utility Fund	400,000	200,000	200,000			
	TOTAL	400,000	200,000	200,000		

PROGRAM - ACTIVITY:
Utilities – WPC Plant

DEPARTMENT:
Water & Pollution Control

ACCOUNT NO.:
520-3416-489

WPC PLANT EQUIPMENT

PROJECT STATUS: No Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project involves annual equipment repairs, maintenance, replacement, and upgrades at the plant. This plant became operational in May 1989, and the entire plant became fully operational in November 1989. Life expectancies for plant equipment vary from five to six years to more than 10 years. It is necessary to plan for orderly repair/replacement/upgrade of the plant and equipment in order to continue high quality treatment and comply with environmental regulations.

COMMENTS

Projects scheduled thus far include:

- FY 07/08 Second year of a 3-year painting project (\$150,000)
- FY 07/08 Methane fuel boiler project (\$200,000)
- FY 08/09 Final year of 3-year painting project (\$150,000)

Additional repairs will be identified in future years. The schedule may change in response to impending failure, regulatory agency requirements, etc.

LOCATION

WPC Plant; four miles south of Highway 30, east of I-35

FISCAL YEAR PRIORITY		2				
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Engineering	90,000	65,000	25,000			
Equipment	160,000	160,000				
Construction	250,000	125,000	125,000			
TOTAL	500,000	350,000	150,000			
FINANCING:						
Sewer Utility Fund	500,000	350,000	150,000			
TOTAL	500,000	350,000	150,000			

PROGRAM - ACTIVITY:

Utilities - WPC Plant

DEPARTMENT:

Water & Pollution Control

ACCOUNT NO.

Multiple

DESCRIPTION/JUSTIFICATION

This project provides for installation of a 500 KW or larger wind turbine/generator to produce electrical power for WPC Plant operation.

COMMENTS

An engineering evaluation completed in 1999 reviewed potential water and wind energy alternatives to provide supplemental power at the WPC Plant. The most feasible wind turbine option was considerably more expensive than originally estimated and was not determined to be cost-effective at that time. In addition, the rural electric co-op supplying power to the plant was not receptive to the concept and indicated the power rate for our facility might be revised if we pursued this option. Two changes over the past several years prompt staff to revisit this project. First, electric charges for the WPC Plant have increased, and updating the cost-effective evaluation is appropriate. Second, new management for the co-op may provide a more receptive response. A wind generator could produce 10-15 percent of the power used at the plant, for a \$50,000-\$75,000 annual savings. The financial feasibility of this project will be reviewed before any project design or construction will be undertaken. **The ultimate recommendation on whether or not to proceed with this project will depend on the outcome of the financial feasibility study, and on its fiscal priority relative to other projects.**

FY 07/08 Update fiscal feasibility study
FY 08/09 – 09/10 Design and construction

LOCATION

WPC Plant; four miles south of Highway 30, east of I-35

FISCAL YEAR PRIORITY		TOTAL	3 2007/08	3 2008/09	3 2009/10	2010/11	2011/12
COST:							
Engineering		200,000	25,000	100,000	75,000		
Equipment		700,000		500,000	200,000		
	TOTAL	900,000	25,000	600,000	275,000		
FINANCING:							
Sewer Utility Fund		900,000	25,000	600,000	275,000		
	TOTAL	900,000	25,000	600,000	275,000		

PROGRAM - ACTIVITY:
Utilities – WPC Plant

DEPARTMENT:
Water & Pollution Control

ACCOUNT NO.
520-3407-489

BIOSOLIDS STORAGE/THICKENING

PROJECT STATUS: Delayed

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project includes the addition of thickening and/or storage facilities for biosolids prior to land application. Solids removed and treated at the WPC Plant are recycled to adjacent cropland for nutrient recovery and soil conditioning. Thickening will reduce the total volume hauled to the fields while the additional storage will expand the time window for applications to occur and improve operational flexibility to meet increasingly more stringent regulatory controls.

COMMENTS

This project was originally included as part of the WPC Plant Equipment, but the higher cost and complexity caused it to be identified separately. A feasibility study will be conducted prior to any construction. The project was delayed when digester cleaning emerged as a higher priority.

LOCATION

WPC Plant; four miles south of Highway 30, east of I-35

FISCAL YEAR PRIORITY		TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:							
Engineering/Architects		75,000		50,000	25,000		
Construction		375,000			375,000		
	TOTAL	450,000		50,000	400,000		
FINANCING:							
Sewer Utility Fund		450,000		50,000	400,000		
	TOTAL	450,000		50,000	400,000		

PROGRAM - ACTIVITY:
Utilities – WPC Plant

DEPARTMENT:
Water & Pollution Control

ACCOUNT NO.

WPC PLANT EXPANSION**PROJECT STATUS:** Cost Increase

Delayed

City of Ames, Iowa
Capital Improvements Plan**DESCRIPTION/JUSTIFICATION**

The Iowa Department of Natural Resource's (IDNR) Water Quality Standards for the South Skunk River may require a more stringent discharge quality than the WPC Plant was designed to achieve. The plant will need to be upgraded to provide the level of treatment required by state and federal statutes. It is not a question of "if" something will be needed; it is more a question of "when" or "what" must be done.

COMMENTS

Although the extent of any improvements is not known, it is anticipated that a project(s) will be necessary. This is only a preliminary estimate subject to change. Due to uncertainty about rule revisions and regulatory reviews, this project continues to be "on hold". Further adjustments to the project schedule may occur following re-authorization of the Clean Water Act, state/federal rule revisions, and/or permit renewal. Costs have been adjusted to more closely estimate 2007 dollars. Pending standards that may impact the cost and extent of necessary improvements include wastewater disinfection, air quality requirements (primarily organics, ammonia, and hydrogen sulfide), and nutrient criteria (nitrogen and phosphorus). Even if a capacity expansion project can be delayed, it is likely that multiple projects costing \$3-4 million each may be necessary over the next 5-10 years to meet new and/or changing requirements. This project has been included in the CIP since the early 1990s but is projected in the final years of the five-year period due to the uncertainty about what requirements must be met and the time frame to achieve compliance. The estimated expense for this project includes disinfection facilities (\$2.9 million) and expansion of wastewater flow equalization (previously shown as a separate project at an estimated cost of \$650,000). Operation and maintenance expenses are estimated to increase by approximately \$750,000 annually.

LOCATION

WPC Plant; four miles south of Highway 30, east of I-35

FISCAL YEAR PRIORITY	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Engineering/Architects	1,000,000			300,000	400,000	300,000
Construction	6,000,000			500,000	2,500,000	3,000,000
TOTAL	7,000,000			800,000	2,900,000	3,300,000
FINANCING:						
Sewer Revenue Bonds	7,000,000			800,000	2,900,000	3,300,000
TOTAL	7,000,000			800,000	2,900,000	3,300,000

PROGRAM – ACTIVITY:

Utilities - WPC Plant

DEPARTMENT:

Water & Pollution Control

ACCOUNT NO.

UTILITIES - ELECTRIC PRODUCTION

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
1 Mid-American/Alliant Interconnection	7,917,172	3,717,172	4,200,000				58
2 Nitrogen Oxide Control	2,500,000	2,000,000	500,000				59
3 Demand Side Management Programs	3,200,000	400,000	400,000	800,000	800,000	800,000	60
4 69 kV Breaker Addition/Ontario Substation	290,000	290,000					61
5 SCADA Upgrade	800,000	150,000	650,000				62
6 Power Plant Passenger Elevator	150,000	150,000					63
7 #7 Closed Cooling Bearing Water System	150,000	150,000					64
8 GT-1 Evaporator Cooler Replacement	150,000	150,000					65
9 Coal Yard Fugitive Dust Control	250,000	250,000					66
10 69 kV Breaker Addition/Top-O-Hollow	770,000	120,000	650,000				67
11 Power Plant Fire Protection System	587,000		301,000	286,000			68
12 Vet Med Substation Additional Feeder	400,000		400,000				69
13 Grand Avenue 13.8 kV Line Relocation	508,000		508,000				70
14 Base Load Generating Capacity	157,000,000			157,000,000			71
15 Well Water Iron Removal System	1,070,000			1,070,000			72
16 Power Plant Heating Boiler	1,000,000				1,000,000		73
Total Expenditures	176,742,172	7,377,172	7,609,000	159,156,000	1,800,000	800,000	

UTILITIES - ELECTRIC PRODUCTION

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
REVENUES:						
Bonds:						
Electric Revenue Bonds	157,000,000			157,000,000		
City:						
Electric Utility Fund	18,079,566	6,596,566	6,727,000	2,156,000	1,800,000	800,000
Other:						
Iowa State University	1,662,606	780,606	882,000			
Total Revenues	176,742,172	7,377,172	7,609,000	159,156,000	1,800,000	800,000

MID-AMERICAN ENERGY CO. INTERCONNECTION AND UPGRADE ALLIANT UTILITIES INTERCONNECTION

PROJECT STATUS: Cost Increase Delayed

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project is to construct a 161-kV line from Ames to Mid-American Energy Company's (MEC) 161-kV switching station northwest of Ankeny, and to upgrade the 69-kV line to Boone to 161-kV. This is the fifth year of a six-year project started in FY 03/04.

In FY 06/07, Ames converted its 69-kV line interconnection with Alliant Utilities at Boone from 69-kV operation to 161-kV operation. During this time, work was completed to create two 161-kV terminations at Stange Substation and Ames Plant Substation.

Ames has a second 69-kV line interconnection that is with MEC at Ankeny. This line was built in 1958, and over the years has served the Ames system well. Because of the age of this line and its limited capacity, an additional line is needed from Ames to the south. MEC is upgrading its 161-kV transmission facilities in the Ankeny area and has committed to work with Ames to install a 161-kV line interconnection at its switching station near Ankeny. This interconnection will provide Ames with the much needed increase in transmission capacity for system reliability. The final phase will be to connect Ames' two 161-kV substations with a 161-kV line.

The total cost of this project is now estimated at \$25,313,003 with \$5,315,730 in funding from Iowa State University, and \$19,997,273 from the Electric Fund.

FY 03/04	Actual	\$ 14,572	
FY 04/05	Actual	741,086	
FY 05/06	Actual	6,663,462	
FY 06/07	Amended	9,976,711	
	Total	<u>\$ 17,395,831</u>	
FY 07/08	Budget	3,717,172	Ames Plant to Stange Substation
FY 08/09	Budget	4,200,000	Ames Plant to Ankeny Substation
	Total	<u>\$ 25,313,003</u>	

LOCATION

A route between Ames Plant Substation and MEC 161-kV switch station near Ankeny.

FISCAL YEAR PRIORITY			1	1			
	TOTAL		2007/08	2008/09	2009/10	2010/11	2011/12
COST:							
Construction	7,917,172		3,717,172	4,200,000			
	TOTAL	7,917,172	3,717,172	4,200,000			
FINANCING:							
Electric Utility Fund	6,254,566		2,936,566	3,318,000			
Iowa State University	1,662,606		780,606	882,000			
	TOTAL	7,917,172	3,717,172	4,200,000			

PROGRAM - ACTIVITY:
Utilities – Electric Production

DEPARTMENT:
Electric

ACCOUNT NO.
530-4871-489

NITROGEN OXIDE CONTROL

PROJECT STATUS: Delayed

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

New EPA rules require lower NO_x (nitrogen oxide) emissions on boilers #7 and #8. Nitrogen oxides (NO_x) form when fuel is burned at high temperatures as in an internal combustion engine or a coal fired power plant. Reducing emissions of NO_x is a component of the Environmental Protection Agency's (EPA) strategy for cleaner air. Plans by the EPA to reduce NO_x emissions by 2009 are being finalized. The NO_x from Ames' units #7 and #8 can be lowered by reducing the combustion temperature by means of modified burners and added fans. Detailed equipment cost and specific design engineering work must be completed before the plan is begun for Ames along with equipment purchases to follow. The \$2,500,000 estimate is a preliminary estimate.

COMMENTS

Modifications to lower NO_x on boiler #7 = \$500,000
Modifications to lower NO_x on boiler #8 = \$2,000,000

LOCATION

Power Plant 200 East 5th Street – Map 5, location N-11

FISCAL YEAR PRIORITY		2				
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Construction	2,500,000	2,000,000	500,000			
TOTAL	2,500,000	2,000,000	500,000			
FINANCING:						
Electric Utility Fund	2,500,000	2,000,000	500,000			
TOTAL	2,500,000	2,000,000	500,000			

PROGRAM - ACTIVITY:
Utilities – Electric Production

DEPARTMENT:
Electric

ACCOUNT NO.
530-4887-489

**DEMAND SIDE MANAGEMENT (DSM)
ENERGY CONSERVATION PROGRAMS**

PROJECT STATUS: New

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

Develop and administer programs aimed at reducing demand for electricity. Reductions in the demand for electricity positively impact future energy production/supply costs.

Demand side management (DSM) programs are utility programs aimed at reducing consumer use of energy through conservation or efficiency measures. Programs included are:

- Residential energy audit
- Residential high efficiency air conditioner rebate
- Residential weatherization
- Commercial high efficiency lighting rebate

Load management (LM) programs control energy consumption at any instant through the use of mechanical or electronic devices. Programs included are:

- Prime Time Power air conditioner load control system upgrade
- Purchase of digital control units (DCU)

LOCATION

Electric Administration, 502 Carroll Avenue – Map 5, location M-11

FISCAL YEAR PRIORITY		3	3	3	2	1
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Program Development and Administration	3,200,000	400,000	400,000	800,000	800,000	800,000
TOTAL	3,200,000	400,000	400,000	800,000	800,000	800,000
FINANCING:						
Electric Utility Fund	3,200,000	400,000	400,000	800,000	800,000	800,000
TOTAL	3,200,000	400,000	400,000	800,000	800,000	800,000

PROGRAM – ACTIVITY:
Utilities – Electric Administration

DEPARTMENT:
Electric

ACCOUNT NO.
530-4815-489

69 KV BREAKER ADDITION ONTARIO SUBSTATION

PROJECT STATUS: No Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

Add 69 kV breakers and related equipment to Ontario Substation.

Addition of 69 kV breakers at the Ontario Substation will improve reliability of 69 kV transmission service to the substation. This will improve service for customers served by this substation.

Use of breakers for 69 kV transmission service to distribution substations is consistent with good engineering practice in the electric utility industry.

LOCATION

Delaware Avenue and Utah Drive – Map 4, location E-10

FISCAL YEAR PRIORITY							
		4					
		TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:							
Engineering		50,000	50,000				
Construction		240,000	240,000				
	TOTAL	290,000	290,000				
FINANCING:							
Electric Utility Fund		290,000	290,000				
	TOTAL	290,000	290,000				

PROGRAM – ACTIVITY:
Utilities – Electric Extension Improvements

DEPARTMENT:
Electric

ACCOUNT NO.
530-4888-489

SCADA UPGRADE

PROJECT STATUS: Delayed

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project will upgrade the SCADA system at the Electric Power Plant. SCADA is an acronym for supervisory control and data acquisition, a computer system for gathering and analyzing real time data. Our SCADA system is used to monitor and control the plant and equipment. It gathers information, transfers the information to a central site, carrying out necessary analysis and control, such as determining if a “change of state” is critical, and displaying the information in a logical and organized fashion.

Current equipment will be at the end of its useful life and will need to be replaced. The first year of the project is hardware and software pre-programming and the second year is for the balance of SCADA equipment to be replaced.

LOCATION

Power Plant – 200 East 5th Street – Map 5, location N-11

FISCAL YEAR PRIORITY		TOTAL	5	4	2009/10	2010/11	2011/12
COST:			2007/08	2008/09			
Equipment and Software		800,000	150,000	650,000			
	TOTAL	800,000	150,000	650,000			
FINANCING:							
Electric Utility Fund		800,000	150,000	650,000			
	TOTAL	800,000	150,000	650,000			
PROGRAM - ACTIVITY:		DEPARTMENT:		ACCOUNT NO.			
Utility – Electric Production		Electric		530-4885-489			

POWER PLANT PASSENGER ELEVATOR

PROJECT STATUS: New

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project will repair/replace the passenger elevator located in the Power Plant. The current elevator is old and operating erratically. This is a safety issue.

LOCATION

Power Plant, 200 East 5th Street – Map 5, location N-11

FISCAL YEAR PRIORITY		6					
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	
COST:							
Equipment	150,000	150,000					
	TOTAL	150,000	150,000				
FINANCING:							
Electric Utility Fund	150,000	150,000					
	TOTAL	150,000	150,000				

PROGRAM - ACTIVITY:
Utility – Electric Production

DEPARTMENT:
Electric

ACCOUNT NO.
530-4889-489

#7 CLOSED COOLING BEARING WATER SYSTEM

PROJECT STATUS: New

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

The #7 cooling water system is an open cooling water system using circulating water for make-up and cooling and has the capability to use city water for make-up when needed. Its purpose is to supply the necessary cooling for all the generating and auxiliary equipment.

Because the circulating water is raw well water that has been cycled up in the cooling tower, the iron levels can reach 12 to 14 ppm and the calcium hardness can also be extremely high. The high levels of iron and calcium require frequent cleaning of heat exchangers due to tube fouling.

COMMENTS

The #8 unit was built with a closed cooling water system to prevent this. The closed cooling system allows the cooling water to be treated to maximize the efficiency of the cooling system and prevent tube fouling of the heat exchangers.

LOCATION

Power Plant, 200 East 5th Street – Map 5, location N-11

FISCAL YEAR PRIORITY		7				
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Engineering	20,000	20,000				
Construction	130,000	130,000				
TOTAL	150,000	150,000				
FINANCING:						
Electric Utility Fund	150,000	150,000				
TOTAL	150,000	150,000				

PROGRAM - ACTIVITY:
Utilities – Electric Production

DEPARTMENT:
Electric

ACCOUNT NO.
530-4890-489

GAS TURBINE #1 (GT-1) EVAPORATOR COOLER REPLACEMENT

PROJECT STATUS: New

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

The evaporator cooler on GT-1 is the original unit provided in 1972. The unit consists of three separate basins, louver assemblies and nozzle piping arrangements. The unit has been repaired numerous times in the past. The louvers have had to be shortened and the nozzle piping replaced and these are again in need of work. The basins are the biggest concern. These steel basins have been repaired three times over many years due to rusting completely through. Fiberglass mats and resin were used to rebuild these units. Even though the basins are drained in the winter, moisture still collects and the freezing and thawing has taken a toll.

The evaporator cooler is an open air cooler that cools the inlet air to the GT engine and also washes the air to help prevent dust and dirt from entering the engine. The cooling of the inlet air actually allows the engine to produce more megawatts on a hot summer day.

LOCATION

Power Plant, 200 East 5th Street – Map 5, location N-11

FISCAL YEAR PRIORITY		8				
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Engineering	20,000	20,000				
Construction	130,000	130,000				
TOTAL	150,000	150,000				
FINANCING:						
Electric Utility Fund	150,000	150,000				
TOTAL	150,000	150,000				

PROGRAM - ACTIVITY:
Utilities – Electric Production

DEPARTMENT:
Electric

ACCOUNT NO.
530-4891-489

COAL YARD FUGITIVE DUST CONTROL

PROJECT STATUS: Delayed

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project is to install fugitive coal dust control measures and/or pave the truck road in the coal yard. This project was originally approved as a CIP project in the 2005-2010 Capital Improvements Plan under the title of "Pave Truck Road in Coal Yard".

As trucks travel over the coal surface, the coal is pulverized, thereby creating a lot of fugitive dust. When the wind blows, the dust is carried out of the coal storage lot to neighboring properties. Currently, the road is watered down to control dust, which is not as effective as a hard surface would be. Also, with a hard surface road, the coal dust can be picked up with a street sweeper.

COMMENTS

A new contract to truck coal to the plant started September 1, 2004, and expires on December 31, 2009.

LOCATION

Power Plant, 200 East 5th Street – Map 5, location N-11

FISCAL YEAR PRIORITY		9				
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Construction	250,000	250,000				
TOTAL	250,000	250,000				
FINANCING:						
Electric Utility Fund	250,000	250,000				
TOTAL	250,000	250,000				

PROGRAM - ACTIVITY:
Utilities - Electric Production

DEPARTMENT:
Electric

ACCOUNT NO.
530-4875-489

**69 KV BREAKER ADDITION TOP-O-HOLLOW
SUBSTATION**

PROJECT STATUS: Delayed

Cost Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

Add 69 kV breakers and related equipment to the Top-O-Hollow substation.

Addition of 69 kV breakers at the Top-O-Hollow substation will improve reliability of 69 kV transmission service to the substation. This will improve service for customers served by this substation.

COMMENTS

Use of breakers for 69 kV transmission service to distribution substations is consistent with good engineering practice in the electric utility industry. Expanding the existing substation requires land purchase, substation design, and construction.

LOCATION

Top-O-Hollow Road west of Calhoun Avenue – Map 2, location L-5

FISCAL YEAR PRIORITY			10	6			
	TOTAL		2007/08	2008/09	2009/10	2010/11	2011/12
COST:							
Engineering and Land Acquisition	120,000		120,000				
Construction	650,000			650,000			
	TOTAL	770,000	120,000	650,000			
FINANCING:							
Electric Utility Fund	770,000		120,000	650,000			
	TOTAL	770,000	120,000	650,000			

PROGRAM – ACTIVITY:
Utilities – Electric Extension/Improvements

DEPARTMENT:
Electric

ACCOUNT NO.
530-4882-489

POWER PLANT FIRE PROTECTION SYSTEM

PROJECT STATUS: Delayed

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

The City's insurance carrier has made several loss prevention recommendations for the Power Plant. These recommendations are for fire suppression systems for the coal conveying equipment, turbine-generators, coal pulverizers, and cooling towers. The cost and schedule for installation of the recommendations is as follows:

FY 2004/05	Upgrading City Water Service	\$ 475,000
FY 2006/07	Coal Handling Sprinkler System	583,000
FY 2008/09	Turbine Generator Sprinkler System	301,000
FY 2009/10	Cooling Tower Sprinkler System	286,000
		\$ 1,645,000

COMMENTS

A serious fire in any one of the systems can force the outage of either Unit #7 or #8 or the entire plant. Replacement power during an extended period of time can be very expensive.

LOCATION

Power Plant, 200 East 5th Street – Map 5, location N-11

FISCAL YEAR PRIORITY		TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:				4	2		
Construction		587,000		301,000	286,000		
	TOTAL	587,000		301,000	286,000		
FINANCING:							
Electric Utility Funds		587,000		301,000	286,000		
	TOTAL	587,000		301,000	286,000		

PROGRAM - ACTIVITY:
Utilities – Electric Production

DEPARTMENT:
Electric

ACCOUNT NO.

DESCRIPTION/JUSTIFICATION

Install another new main feeder (VM24) to serve load south of Highway 30.

Recently, a large industrial customer (Clarion Technologies) began operations near the Ames Airport. Concurrently, the Electric Services Department is experiencing electrical load growth along S.E. 16th Street and expects to see an increase in the area around the Iowa State University Veterinary Medical School. Due to these increases and the need to maintain a reliable source of electricity, it has become necessary to add another main feeder from the Vet Med Substation to an area near the intersection of Airport Road and Riverside Drive. Due to the surrounding area and terrain, the majority of this main feeder would be installed underground.

COMMENTS

Currently, only one major feeder from the Vet Med Substation supplies electricity to the majority of the area south of Highway 30. The addition of this new main feeder allows for splitting the load, thus increasing the reliability in the Research Park and the Teagarden area plus the Ames Airport.

LOCATION

Vet Med School – Map 8, location K-14

FISCAL YEAR PRIORITY		TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:							
Engineering		50,000		50,000			
Construction		350,000		350,000			
	TOTAL	400,000		400,000			
FINANCING:							
Electric Utility Fund		400,000		400,000			
	TOTAL	400,000		400,000			

PROGRAM - ACTIVITY:	DEPARTMENT:	ACCOUNT NO.
Utilities – Electric Extensions & Improvements	Electric	

DESCRIPTION/JUSTIFICATION

Relocate the overhead 13.8 kV distribution line along Grand Avenue (U.S. 69) between 13th Street and 20th Street.

This is required due to planned improvement of Grand Avenue (U.S. 69). The existing overhead facilities cannot be relocated in the existing right-of-way. Therefore, easements will have to be purchased to complete the relocation.

COMMENTS

An alternative to relocating the overhead 13.8 kV distribution line is to underground the lines. The total cost would increase to \$1,000,000.

This project is related to the U. S. 69 Intersection Improvements Project located on page 25. This project has been coordinated with Public Works' schedule.

LOCATION

Grand Avenue between 13th and 20th Street - Map 5, location L-9

FISCAL YEAR PRIORITY		TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:							
Easements		116,000		116,000			
Construction		392,000		392,000			
	TOTAL	508,000		508,000			
FINANCING:							
Electric Utility Fund		508,000		508,000			
	TOTAL	508,000		508,000			

PROGRAM – ACTIVITY:
Utilities – Electric Extension/Improvements

DEPARTMENT:
Electric

ACCOUNT NO.

BASE LOAD GENERATING CAPACITY

PROJECT STATUS: Cost Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

A recently completed Integrated Resource Study indicated that the Electric Utility will need an additional 108 MW to 120 MW in base load capacity by 2010. The study recommends that a more in-depth analysis is required to explore the alternatives of 1) re-powering Units 7 & 8; and 2) entering into a partnership or long-term contract with an outside utility; or a combination of these options.

COMMENTS

Prior to any final decision being made as to the preferred course of action to meet our future electric demand, this further analysis will take place over the next two years and require further study of the Power Plant regarding the remaining life of its components, re-powering options for existing units, decommissioning costs, alternative fuel supply options, and alternative refuse derived fuel (RDF) disposal options.

The funding of this project is likely to be spread across multiple years. City staff will be performing further financial analysis to determine a funding plan that is likely to include a combination of rate increases and revenue bonds.

FISCAL YEAR PRIORITY		TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:							
Joint Ownership		157,000,000			157,000,000		
	TOTAL	157,000,000			157,000,000		
FINANCING:							
Electric Revenue Bonds		157,000,000			157,000,000		
	TOTAL	157,000,000			157,000,000		

PROGRAM - ACTIVITY:
Utilities - Electric Production

DEPARTMENT:
Electric

ACCOUNT NO.

WELL WATER IRON REMOVAL SYSTEM

PROJECT STATUS: Delayed

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

Install an iron removal system for makeup water to the Power Plant cooling towers. Well water is used for cooling tower makeup. The well water has a very high iron content which makes it very difficult to use in the cooling tower circulating water system. Currently, the circulating water is chemically treated to keep the iron from depositing on the condenser tubes. This treatment program is only partially effective and iron deposition is occurring. This deposition reduces the cooling efficiency of the condenser and eventually reduces the capability of the unit. When this happens, the unit must be removed from service to clean the condenser at a cost of \$12,800 per cleaning. The installation of an iron removal system will result in the following savings:

Annual Savings:		
Annual Condenser Cleaning 2 @ \$12,800		\$ 25,600
Reduced Chemical Cost		60,000
Reduced Water Consumption		14,200
Less New Operating Cost		<u>(15,000)</u>
Net Annual Savings		\$ 84,800

COMMENTS

FY 05/06 Engineering	\$	125,000
FY 09/10 Construction		<u>1,070,000</u>
	\$	1,195,000

LOCATION

Power Plant – 200 East 5th Street – Map 5, location N-11

FISCAL YEAR PRIORITY		TOTAL	2007/08	2008/09	2009/10 ⁴	2010/11	2011/12
COST:							
Construction		1,070,000			1,070,000		
	TOTAL	1,070,000			1,070,000		
FINANCING:							
Electric Utility Fund		1,070,000			1,070,000		
	TOTAL	1,070,000			1,070,000		

PROGRAM - ACTIVITY:
Utility – Electric Production

DEPARTMENT:
Electric

ACCOUNT NO.

POWER PLANT HEATING BOILER

PROJECT STATUS: Delayed

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

Install a small package boiler for Power Plant building heat. Presently, Power Plant building heat comes from boiler #7 or boiler #8. During the heating season, boiler #8 is normally operating and boiler #7 is in storage. If boiler #8 has a forced outage, boiler #7 is brought into service which takes 10-12 hours and is adequate to prevent freeze problems in the plant.

Good risk management practice is to install a package heating boiler to be available if both boilers (#7 and #8) are out of service. This would ensure a source of building heat to prevent freeze up of critical equipment in the plant.

LOCATION

Power Plant, 200 East 5th Street – Map 5, location N-11

FISCAL YEAR PRIORITY	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Engineering	100,000				100,000	
Construction	900,000				900,000	
TOTAL	1,000,000				1,000,000	
FINANCING:						
Electric Utility Fund	1,000,000				1,000,000	
TOTAL	1,000,000				1,000,000	

PROGRAM - ACTIVITY:
Utility – Electric Production

DEPARTMENT:
Electric

ACCOUNT NO.



The Northridge Subdivision area has completed many Neighborhood Improvement Program projects in recent years. Several included the planting of gardens, trees, and shrubs. A theme of limestone blocks runs throughout the projects.

These pictures show how Neighborhood Improvement Program projects to plant trees and shrubs, and to add rock or mulch to the median, beautify streets like Wilder Boulevard.



TRANSPORTATION - SUMMARY

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
Streets/Engineering	38,140,000	12,920,000	4,150,000	4,350,000	6,120,000	10,600,000	77
Streets/Maintenance	7,600,000	600,000	2,100,000	2,300,000	1,300,000	1,300,000	92
Transit	10,613,500	1,067,500	1,686,500	2,321,500	3,201,500	2,336,500	97
Airport	100,000	100,000					105
Total Expenditures	56,453,500	14,687,500	7,936,500	8,971,500	10,621,500	14,236,500	
REVENUES:							
Bonds:							
G.O. Bonds	25,980,633	5,990,000	4,242,573	4,566,060	5,507,000	5,675,000	
City:							
Road Use Tax	5,048,000	748,000	1,075,000	1,075,000	1,075,000	1,075,000	
Local Option Sales Tax	750,000	150,000	150,000	150,000	150,000	150,000	
Water Utility Fund	36,000	36,000					
Sewer Utility Fund	36,000	36,000					
Transit Fund	1,766,970	182,270	306,400	430,550	410,600	437,150	
Airport Construction Fund	20,000	20,000					
Sub-Total City Funds	7,656,970	1,172,270	1,531,400	1,655,550	1,635,600	1,662,150	

TRANSPORTATION - SUMMARY

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
REVENUES, continued:						
Other:						
Federal Earmark Funds	9,000,000	4,000,000				5,000,000
Developer	200,000	200,000				
MPO/STP Funds	3,189,367	860,000	782,427	858,940	688,000	
Property Owner Assessments	1,500,000	1,500,000				
Federal Transit Administration	7,963,209	735,809	1,066,200	1,850,950	2,450,900	1,859,350
Federal Grants	583,321	149,421	313,900	40,000	40,000	40,000
Iowa State University	300,000				300,000	
Iowa D.O.T. Grant Funds	80,000	80,000				
Sub-Total Other Funds	22,815,897	7,525,230	2,162,527	2,749,890	3,478,900	6,899,350
Total Revenues	56,453,500	14,687,500	7,936,500	8,971,500	10,621,500	14,236,500

TRANSPORTATION - STREET ENGINEERING

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
1 Southeast 16th Street Paving/Bridge	3,000,000	3,000,000					79
2 Grand Avenue Extension	12,920,000	5,000,000			720,000	7,200,000	80
3 Northeast Area Commercial Improvement	950,000	950,000					81
4 South Dayton Avenue Realignment	1,050,000	1,050,000					82
5 Bloomington Road Widening	450,000	450,000					83
6 Collector Street Pavement Improvements	5,800,000	1,800,000	1,000,000	1,000,000	1,000,000	1,000,000	84
7 Asphalt Resurfacing	2,500,000	500,000	500,000	500,000	500,000	500,000	85
8 Neighborhood Curb Replacement Program	250,000	50,000	50,000	50,000	50,000	50,000	86
9 Topographical Mapping/Aerial Photography	120,000	120,000					87
10 Arterial Street Pavement Improvements	4,500,000		1,500,000	1,500,000	750,000	750,000	88
11 CyRide Route Pavement Improvements	2,400,000		600,000	600,000	600,000	600,000	89
12 Downtown Street Pavement Improvements	2,000,000		500,000	500,000	500,000	500,000	90
13 South Dakota Widening (L'Way to Mortensen)	2,200,000			200,000	2,000,000		91
Total Expenditures	38,140,000	12,920,000	4,150,000	4,350,000	6,120,000	10,600,000	

TRANSPORTATION - STREET ENGINEERING, continued

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
REVENUES:						
Bonds:						
G.O. Bonds	21,380,633	5,690,000	2,817,573	2,941,060	4,882,000	5,050,000
City:						
Road Use Tax	2,298,000	498,000	450,000	450,000	450,000	450,000
Local Option Sales Tax	500,000	100,000	100,000	100,000	100,000	100,000
Water Utility Fund	36,000	36,000				
Sewer Utility Fund	36,000	36,000				
City Sub-Total	2,870,000	670,000	550,000	550,000	550,000	550,000
Other:						
Federal Earmark Funds	9,000,000	4,000,000				5,000,000
Developer	200,000	200,000				
MPO/STP Funds	3,189,367	860,000	782,427	858,940	688,000	
Property Owner Assessments	1,500,000	1,500,000				
Other Sub-Total	13,889,367	6,560,000	782,427	858,940	688,000	5,000,000
Total Revenues	38,140,000	12,920,000	4,150,000	4,350,000	6,120,000	10,600,000

**SOUTHEAST 16TH STREET PAVING AND
BRIDGE REPLACEMENT**

PROJECT STATUS: Cost Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project is for paving the gravel portion of Southeast 16th Street between the Dayton Avenue/US 30 interchange and approximately two blocks east of South Duff Avenue. This paved street will provide a connecting roadway between the businesses on South Dayton Avenue and South Duff Avenue.

COMMENTS

The 2003/04 operations budget included \$25,000 for hydraulic evaluations of bridge openings. The chosen alternative involves a bridge that will pass a 50-year frequency flood with a street profile that will then be overtopped. In 2004/05, \$200,000 was included for land acquisition and engineering expenses funded by G.O. bonds. The bridge was replaced in 2006/07 through \$1,500,000 funding from G.O. Bonds. Street paving is budgeted in 2007/08.

In 2007/08, funding from the Arterial Street Rehabilitation Program (page 88) will be shifted to this project. The increase in cost (\$200,000) is due to wetland mitigation as required by the Army Corps of Engineers.

The elimination of the gravel road will result in decreased maintenance to that type of roadway; however, the addition of this paved street to the city street system will also result in increased snow and ice control costs in the operations budget.

LOCATION

Southeast 16th Street (Dayton Avenue/I-35 interchange to two blocks east of South Duff Avenue) – Map 9, location Q-13

FISCAL YEAR PRIORITY		1				
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Engineering	200,000	200,000				
Construction	2,800,000	2,800,000				
	TOTAL	3,000,000	3,000,000			
FINANCING:						
G. O. Bonds	1,500,000	1,500,000				
Property Owner Assessments	1,500,000	1,500,000				
	TOTAL	3,000,000	3,000,000			

PROGRAM - ACTIVITY:
Transportation - Streets Engineering

DEPARTMENT:
Public Works

ACCOUNT NO.
368-8154-439
310-8154-439

GRAND AVENUE EXTENSION

PROJECT STATUS: Cost Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project is for the extension of Grand Avenue from Lincoln Way to South 16th Street. Included is a segment of South 5th Street (Grand Avenue to South Duff Avenue).

Extending Grand Avenue to South 16th Street will divert traffic from the US Highway 69 (Grand Avenue to Lincoln Way to South Duff Avenue) corridor to the new extension. It will help to alleviate the existing congestion and allow for easier access to area businesses along that portion of Lincoln Way. In addition, through-traffic on the Grand Avenue extension will also encounter less traffic congestion.

COMMENTS

A concept and cost allocation study (\$37,500) for this project was completed in 2002/03. Design for the Lincoln Way to South 4th Street segment of the project was funded in 2005/06. Construction and land acquisition for that segment will be completed in 2007/08.

Design and land acquisition will occur in 2010/11 for the Grand Avenue (Squaw Creek Drive to South 16th Street) and the South 5th Street (Grand Avenue to South Duff Avenue) segments of the project. Construction of those segments is projected to occur in 2011/12. This four-lane roadway will include turn lanes at South 16th Street, a bridge over Squaw Creek, a golf cart underpass at Coldwater Creek Golf Course, and a bike path along the west side of the roadway.

This CIP project sheet has been combined with the CIP project sheet previously titled "Grand Avenue (US69) Extension (South 5th Street to South 16th Street)". Cost changes are due to including construction estimates for 2011/12.

The addition of this street extension will result in increased snow removal and ice control costs.

LOCATION

- 2007/08 Grand Avenue (Lincoln Way to Squaw Creek Drive) (construction) – Map 5, location L-11
- 2010/11 Grand Avenue (Squaw Creek Drive to South 16th Street) and South 5th Street (Grand Avenue to South Duff Avenue) (engineering and land acquisition) – Map 5, location L-12
- 2011/12 Grand Avenue (Squaw Creek Drive to S. 16th Street) and S. 5th Street (Grand Avenue to South Duff Avenue) (construction) – Map 5, location L-12

FISCAL YEAR PRIORITY		2		6			1
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	
COST:							
Engineering	1,150,000	750,000			300,000		100,000
Land Acquisition	420,000				420,000		
Construction	11,350,000	4,250,000					7,100,000
TOTAL	12,920,000	5,000,000			720,000		7,200,000
FINANCING:							
G. O. Bonds	3,920,000	1,000,000			720,000		2,200,000
Federal Earmark Funds	9,000,000	4,000,000					5,000,000
TOTAL	12,920,000	5,000,000			720,000		7,200,000

PROGRAM – ACTIVITY: Transportation – Streets Engineering	DEPARTMENT: Public Works	ACCOUNT NO. 320-8174-439 368-8174-439
--	------------------------------------	--

NORTHEAST AREA REGIONAL COMMERCIAL IMPROVEMENT (570TH AVENUE PAVING)

PROJECT STATUS: No Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project is to pave 570th Avenue (East 13th Street to the northerly limit of the regional commercial center) to accommodate traffic requirements for the Regional Life Style Center at Interstate 35 and East 13th Street.

COMMENTS

Paving 570th Avenue (East 13th Street to the northerly limit of the regional commercial center) will help to accommodate traffic requirements for the Regional Life Style Center at Interstate 35 and East 13th Street. This project is included as a City obligation in the Zoning Agreement for the Life Style Center. In accordance with the City's normal policy of paying for extra width and depth for off-site road improvements, the City would have been responsible for improvements to East 13th Street. This project was estimated to cost the equivalent to extra width and depth on East 13th Street.

LOCATION

570th Avenue (East 13th Street to the northerly limit of the regional commercial center) - Map 6, location S-11

FISCAL YEAR PRIORITY							
		3					
		TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:							
Engineering		95,000	95,000				
Construction		855,000	855,000				
	TOTAL	950,000	950,000				
FINANCING:							
G. O. Bonds		950,000	950,000				
	TOTAL	950,000	950,000				

PROGRAM - ACTIVITY:
Transportation – Streets Engineering

DEPARTMENT:
Public Works

ACCOUNT NO.
368-8146-439

SOUTH DAYTON AVENUE IMPROVEMENTS

PROJECT STATUS: Cost Change

Project Expansion

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project will relocate South Dayton Avenue diagonally between the US Highway 30/South Dayton Avenue Interchange and South Dayton Avenue/Southeast 5th Street. In addition, the project has now been expanded from its original scope to include dowel bar retrofit and grinding of the existing pavement north of the relocation to Lincoln Way. The expansion of the original scope is due to increased truck traffic and the need to mitigate further damage which will delay full reconstruction.

COMMENTS

The realignment of South Dayton Avenue is included as part of the South Gateway Subdivision developer's agreement. As stated in the recorded document, the City of Ames is responsible for completing the connection between the re-routed and the existing South Dayton Avenue.

The dowel bar retrofit and grinding of the existing pavement will extend the life of the pavement by providing better load transfer.

This project is included in the Transportation Master Plan.

Cost change is due to updated estimates and the expanded scope of the project.

LOCATION

South Dayton Avenue (South Dayton Avenue/US30 Interchange diagonally between South Dayton Avenue and Southeast 5th Street) – Map 9, location Q-13

FISCAL YEAR PRIORITY						
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Engineering	100,000	100,000				
Construction	950,000	950,000				
	TOTAL	1,050,000	1,050,000			
FINANCING:						
G. O. Bonds	1,050,000	1,050,000				
	TOTAL	1,050,000	1,050,000			

PROGRAM – ACTIVITY:
Transportation - Streets Engineering

DEPARTMENT:
Public Works

ACCOUNT NO.
368-8147-439

**BLOOMINGTON ROAD WIDENING
(UPRR CROSSING TO HYDE AVENUE)**

PROJECT STATUS: Cost Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project is to add two lanes on the north side of Bloomington Road from the Union Pacific Railroad (UPRR) crossing to Hyde Avenue. This project also includes the addition of gates and constant warning time detection at the railroad crossing.

COMMENTS

The additional lanes from Hyde Avenue west to the UPRR crossing will complete the widening of Bloomington Road to the railroad crossing. Currently, extra lanes extend only to just west of Eisenhower Avenue.

This project will include drainage and storm sewer improvements.

The cost change is based on updated estimates and the additional cost of the gates and the constant warning time detection. This project began in 2006/07 at a budgeted cost of \$75,000.

LOCATION

Bloomington Avenue (UPRR crossing to Hyde Avenue) – Map 2, location I-5

FISCAL YEAR PRIORITY		5		2008/09	2009/10	2010/11	2011/12
	TOTAL	2007/08					
COST:							
Engineering	30,000	30,000					
Construction	420,000	420,000					
	TOTAL	450,000	450,000				
FINANCING:							
G. O. Bonds	250,000	250,000					
Developer	200,000	200,000					
	TOTAL	450,000	450,000				

PROGRAM - ACTIVITY:
Transportation – Streets Engineering

DEPARTMENT:
Public Works

ACCOUNT NO.
320-8188-439
368-8188-439

COLLECTOR STREET PAVEMENT IMPROVEMENTS

PROJECT STATUS: Cost Change

Site Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This is the annual program for reconstruction or rehabilitation of collector streets. Locations are chosen in accordance with the most current street condition inventory.

COMMENTS

- 2007/08 Beach Avenue (Lincoln Way to Mortensen Parkway) – Map 5, location J-11
- 2008/09 20th Street (Grand Avenue to Burnett Avenue) – Map 5, location L-8; and Marshall Avenue (Lincoln Way to Story Street) – Map 4, location F-11
- 2009/10 16th Street (Burnett Avenue to Duff Avenue) – Map 5, location M-9; and Garfield Avenue (Phoenix Street to Ross Road) – Map 5, location F-10
- 2010/11 George W. Carver Avenue (Stange Road to Bloomington Road) – Map 2, location H-7
- 2011/12 Storm Street (Ash Avenue to Hayward Avenue) – Map 5, location I-12; and Woodland Avenue (West Street to Hickory Drive) – Map 5, location G-11

Cost and revenue changes in 2007/08 are due to updated estimates which reflect increased construction costs and decreased funding allocated through the Metropolitan Planning Organization (MPO). Cost decrease from \$1,600,000 to \$1,000,000 in 2008/09 and 2009/10 is the result of reprioritizing project locations and balancing G.O. Bond funding for those years. Site changes are due to reprioritization of collector streets most in need of rehabilitation.

Collector street pavement improvements should result in lower street maintenance costs.

FISCAL YEAR PRIORITY		6	3	3	4	4
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Planning	130,000	30,000	30,000	30,000	20,000	20,000
Engineering	460,000	80,000	70,000	70,000	120,000	120,000
Construction	5,210,000	1,690,000	900,000	900,000	860,000	860,000
TOTAL	5,800,000	1,800,000	1,000,000	1,000,000	1,000,000	1,000,000
FINANCING:						
G. O. Bonds	4,252,000	940,000	1,000,000	1,000,000	312,000	1,000,000
MPO/STP Funds	1,548,000	860,000			688,000	
TOTAL	5,800,000	1,800,000	1,000,000	1,000,000	1,000,000	1,000,000

PROGRAM – ACTIVITY:
Transportation – Streets Engineering

DEPARTMENT:
Public Works

ACCOUNT NO.
368-8144-439
320-8144-439

ASPHALT RESURFACING

PROJECT STATUS: No Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This is the annual program for asphalt resurfacing of various streets.

This program restores surface texture, corrects structural deficiencies, and prevents deterioration of various streets. This resurfacing process results in better riding surfaces, increased safety with improved surface texture, and increased life expectancy of streets.

COMMENTS

The areas to be resurfaced are chosen each spring based on the current street condition inventory.

Cost estimates include funding for concrete curb and gutter repairs that need to be made prior to asphaltting the street. Typically, curb and gutter repairs are between 20- and 25-percent of the total cost.

Street maintenance operation costs for patching will be reduced for the streets involved in this program.

FISCAL YEAR PRIORITY		7	4	4	5	5
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Planning	50,000	10,000	10,000	10,000	10,000	10,000
Engineering	75,000	15,000	15,000	15,000	15,000	15,000
Construction	2,375,000	475,000	475,000	475,000	475,000	475,000
TOTAL	2,500,000	500,000	500,000	500,000	500,000	500,000
FINANCING:						
Road Use Tax	2,000,000	400,000	400,000	400,000	400,000	400,000
Local Option Sales Tax	500,000	100,000	100,000	100,000	100,000	100,000
TOTAL	2,500,000	500,000	500,000	500,000	500,000	500,000

PROGRAM – ACTIVITY:
Transportation – Streets Engineering

DEPARTMENT:
Public Works

ACCOUNT NO.
030-8107-439
060-8107-439

NEIGHBORHOOD CURB REPLACEMENT PROGRAM

PROJECT STATUS: Site Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This is the annual program for replacement of deteriorated curb and gutter in selected neighborhood areas.

Areas to receive curb and gutter replacement are selected by comparing and prioritizing applications received from neighborhoods using evaluation criteria that have been approved by Council.

COMMENTS

Neighborhood Curb Replacement Program decision criteria approved by Council includes extent of curb deterioration, number of residential structures in the block, and longitudinal grade. Future locations will be identified based on established criteria.

Curb and gutter replacement enhances neighborhood aesthetics.

LOCATION

North Riverside Drive (Lincoln Way to North 2nd Street) – Map 5, location K-11

FISCAL YEAR PRIORITY		8	5	6	7	6
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Engineering	25,000	5,000	5,000	5,000	5,000	5,000
Construction	225,000	45,000	45,000	45,000	45,000	45,000
TOTAL	250,000	50,000	50,000	50,000	50,000	50,000
FINANCING:						
Road Use Tax	250,000	50,000	50,000	50,000	50,000	50,000
TOTAL	250,000	50,000	50,000	50,000	50,000	50,000

PROGRAM – ACTIVITY:
Transportation – Streets Engineering

DEPARTMENT:
Public Works

ACCOUNT NO.
060-8131-439

DESCRIPTION/JUSTIFICATION

Mapping and Policy Support (MAPS), a joint committee between the City of Ames and Story County, will have new aerial photography available in 2008. Topographic maps are also available at that time for an additional cost. The most recent topographic maps of the City of Ames are dated from 1954 to 1963. More current topographic maps will result in decreased engineering fees for Capital Improvement Plan (CIP) projects. The mapping would also provide supplemental information for National Pollution Discharge Elimination System (NPDES) drainage activities.

COMMENTS

Updating topographic maps and aerial photography would result in enhanced customer service as well as in lower consulting costs for CIP projects. The cost change is based on updated estimates. This project has been advanced one year to more accurately coordinate with MAPS' schedule.

The cost change is due to updated estimates.

FISCAL YEAR PRIORITY		9				
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Engineering	120,000	120,000				
TOTAL	120,000	120,000				
FINANCING:						
Road Use Tax	48,000	48,000				
Water Fund	36,000	36,000				
Sanitary Sewer Fund	36,000	36,000				
TOTAL	120,000	120,000				

PROGRAM - ACTIVITY:
Transportation – Streets Engineering

DEPARTMENT:
Public Works

ACCOUNT NO.
060-8148-439
510-8148-439
520-8148-439

ARTERIAL STREET PAVEMENT IMPROVEMENTS

PROJECT STATUS: No Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This annual program utilizes current repair techniques to improve arterial streets with asphalt or concrete. These pavement improvements are needed to restore structural integrity, serviceability, and rideability. Targeted streets are reaching a point of accelerated deterioration. By improving these streets prior to excessive problems, the service life will be extended by 10 to 15 years.

COMMENTS

- 2008/09 North Dakota Avenue (600 ft. south of Delaware Avenue to Ontario Street) – Map 4, location E-10
- 2009/10 13th Street (Stange Road to the UPRR overpass) – Map 5, location I-9
- 2010/11 Duff Avenue (Lincoln Way to 10th Street), Map 5, location M-11; and 6th Street (Grand Avenue to Northwestern Avenue), Map 5, location L-11
- 2011/12 Lincoln Way (South Duff Avenue to Skunk River), Map 5, location M-11

In 2007/08, funding from this program has been shifted to the Southeast 16th Street Paving and Bridge Replacement project (page 80).

Improving these streets will reduce maintenance budget needs. This reduction will allow for additional and earlier maintenance of other streets.

FISCAL YEAR PRIORITY	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Planning	105,000		30,000	30,000	30,000	15,000
Engineering	475,000		170,000	170,000	80,000	55,000
Construction	3,920,000		1,300,000	1,300,000	640,000	680,000
TOTAL	4,500,000		1,500,000	1,500,000	750,000	750,000
FINANCING:						
G. O. Bonds	2,858,633		717,573	641,060	750,000	750,000
MPO/STP Funds	1,641,367		782,427	858,940		
TOTAL	4,500,000		1,500,000	1,500,000	750,000	750,000

PROGRAM – ACTIVITY:
Transportation - Streets Engineering

DEPARTMENT:
Public Works

ACCOUNT NO.

CYRIDE ROUTE PAVEMENT IMPROVEMENTS

PROJECT STATUS: Site Change

Delay

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This is the annual program for pavement improvements to streets that are bus routes.

These streets were designed and built for light, residential traffic. With these streets designated as bus routes, accelerated deterioration of the street surface has occurred. Pavement improvements will restore street sections that will carry projected traffic volumes.

COMMENTS

- 2008/09 Toronto Street (Florida Avenue to North Dakota Avenue) – Map 4, location D-9; Northwestern Avenue (28th Street to 30th Street) – Map 2, location K-7; and Hutchison Street (Florida Avenue to North Dakota Avenue) – Map 4, location O-9
- 2009/10 Ash Avenue (Lincoln Way to Knapp Street) – Map 5, location I-11 and Knapp Street (Lynn Avenue to Ash Avenue) – Map 5, location I-12
- 2010/11 Lincoln Way (Franklin Avenue to Hayward Avenue) – Map 5, location G-11
- 2011/12 Todd Drive (South Dakota Avenue to Thackeray Avenue) – Map 4, location E-11

Reconstructing these streets will reduce maintenance budget needs for them. This reduction will allow for additional and earlier maintenance of other streets, prolonging their useful life.

Site (location) changes in this program are reflective of current CyRide routes. The program delay is proposed to balance funding levels due to increased costs for the South Dayton Avenue Improvements Project (page 82).

FISCAL YEAR PRIORITY			2	2	3	3
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Planning	40,000		10,000	10,000	10,000	10,000
Engineering	200,000		50,000	50,000	50,000	50,000
Construction	2,160,000		540,000	540,000	540,000	540,000
	TOTAL	2,400,000	600,000	600,000	600,000	600,000
FINANCING:						
G. O. Bonds	2,400,000		600,000	600,000	600,000	600,000
	TOTAL	2,400,000	600,000	600,000	600,000	600,000

PROGRAM - ACTIVITY:
Transportation - Streets Engineering

DEPARTMENT:
Public Works

ACCOUNT NO.

DOWNTOWN STREET PAVEMENT IMPROVEMENTS

PROJECT STATUS: New

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This program is for the rehabilitation/reconstruction of streets within the downtown area (Lincoln Way to 7th Street and Grand Avenue to Duff Avenue). The Downtown Improvements Study (1996/97) recommended several improvement projects in the downtown area. Since that time, Main Street, 5th Street, and 6th Street have all benefited from improvement projects recommended by the Downtown Improvements Study. These projects involved pavement reconstruction, rehabilitation of storm and sanitary sewers, and streetscapes.

This project will meet the recommendations of the Downtown Improvements Study for the side streets in the downtown area. These streets have not had any improvements in recent years. This program will begin in the second year to allow time to communicate with area businesses about construction impacts.

COMMENTS

Improvements to the streets in the downtown area will enhance the Cultural District.

LOCATION

2008/09	Burnett Avenue (Main Street to 7 th Street) – Map 5, location M-11
2009/10	Kellogg Avenue (Lincoln Way to 7 th Street) – Map 5, location M-11
2010/11	Main Street (Allan Drive to Clark Avenue) – Map 5, location L-11
2011/12	Douglas Avenue (Main Street to 7 th Street) – Map 5, location M-11

FISCAL YEAR PRIORITY			6	7	8	7
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Engineering	200,000		50,000	50,000	50,000	50,000
Construction	1,800,000		450,000	450,000	450,000	450,000
	TOTAL	2,000,000	500,000	500,000	500,000	500,000
FINANCING:						
G. O. Bonds	2,000,000		500,000	500,000	500,000	500,000
	TOTAL	2,000,000	500,000	500,000	500,000	500,000

PROGRAM - ACTIVITY:
Transportation – Streets Engineering

DEPARTMENT:
Public Works

ACCOUNT NO.

**SOUTH DAKOTA AVENUE WIDENING
(LINCOLN WAY TO MORTENSEN ROAD)**

PROJECT STATUS: No Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project is for widening South Dakota Avenue to a five-lane roadway south of Lincoln Way. Continued growth has resulted in an increase in traffic volumes on South Dakota Avenue. A widened roadway is necessary to increase capacity and improve safety.

COMMENTS

Widening the highway will increase traffic volume capacity and will improve safety in the area.

The addition of this street extension will result in increased snow removal and ice control costs.

LOCATION

South Dakota Avenue (Lincoln Way to Mortensen Road) – Map 4, location E-11

FISCAL YEAR PRIORITY					5	1	
	TOTAL		2007/08	2008/09	2009/10	2010/11	2011/12
COST:							
Engineering	200,000				200,000		
Construction	2,000,000					2,000,000	
TOTAL	2,200,000				200,000	2,000,000	
FINANCING:							
G. O. Bonds	2,200,000				200,000	2,000,000	
TOTAL	2,200,000				200,000	2,000,000	

PROGRAM – ACTIVITY:
Transportation – Streets Engineering

DEPARTMENT:
Public Works

ACCOUNT NO.

TRANSPORTATION - STREET MAINTENANCE

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
1 Concrete Pavement Improvements	6,100,000	300,000	1,800,000	2,000,000	1,000,000	1,000,000	93
2 Seal Coat Removal/Asphalt Reconstruction	750,000	150,000	150,000	150,000	150,000	150,000	94
3 Sidewalk Safety Program	250,000	50,000	50,000	50,000	50,000	50,000	95
4 Slurry Seal Program	500,000	100,000	100,000	100,000	100,000	100,000	96
Total Expenditures	7,600,000	600,000	2,100,000	2,300,000	1,300,000	1,300,000	
REVENUES:							
Bonds:							
G.O. Bonds	4,600,000	300,000	1,425,000	1,625,000	625,000	625,000	
City:							
Road Use Tax	2,750,000	250,000	625,000	625,000	625,000	625,000	
Local Option Sales Tax	250,000	50,000	50,000	50,000	50,000	50,000	
City Sub-Total	3,000,000	300,000	675,000	675,000	675,000	675,000	
Total Revenues	7,600,000	600,000	2,100,000	2,300,000	1,300,000	1,300,000	

CONCRETE PAVEMENT IMPROVEMENTS

PROJECT STATUS: Cost Change

Site Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This annual program is to remove and replace concrete street sections that have deteriorated. Removal and replacement of concrete street sections provide enhanced rideability to residents and visitors.

COMMENTS

This program includes both arterial and non-arterial concrete streets. Increased funding for this program in 2008/09 and 2009/10 will allow for addressing priority needs in the repair of concrete streets; funding will decrease by 2010/11 as priority needs in this program are met.

LOCATION

2007/08:

Green Hills Drive (west from Elwood Drive to Red Oak Drive) – Map 8, location J-15

2008/09:

Northwestern Avenue (6th Street to Allan Drive) – Map 5, location L-11; Orchard Drive – Map 5, location K-9; South High Avenue south of South East 16th Street – Map 9, location N-13; and Des Moines Avenue (Lincoln Way to East 3rd Street) – Map 5, location M-11

2009/10:

South Hyland Avenue (Arbor Street to Lincoln Way) – Map 5, location H-11; Edison Street (Whitney Avenue to Dayton Avenue) – Map 6, location Q-10; Alexander Avenue (Lincoln Way to 350 feet south) – Map 6, location R-11; and Stanton Avenue (Chamberlain Street to Storm Street) – Map 5, location I-11

2010/11:

Oakland Street (Hawthorne Avenue to North Franklin Avenue) – Map 4, location G-10; Oakland Street (Hawthorne Avenue to Hyland Avenue) – Map 4, location G-10; and Lincoln Swing (South Dakota Avenue to Beedle Drive) – Map 4, location E-11

2011/12:

Southeast 16th Street (Duff Avenue to 600' east) – Map 8, location M-14; and South Kellogg Avenue (South 16th Street to South 17th Street) – Map 8, location M-14

Cost change in 2008/09 is the result of updated estimates. Site change occurs in 2010/11 with the addition of the Oakland Street location. This location was added due to the projected condition of the street by that year.

Repair of these streets will reduce maintenance and repairs needed for them.

FISCAL YEAR PRIORITY	TOTAL	1 2007/08	1 2008/09	1 2009/10	1 2010/11	1 2011/12
COST:						
Engineering	650,000	50,000	200,000	200,000	100,000	100,000
Construction	5,450,000	250,000	1,600,000	1,800,000	900,000	900,000
TOTAL	6,100,000	300,000	1,800,000	2,000,000	1,000,000	1,000,000
FINANCING:						
G.O. Bonds	4,600,000	300,000	1,425,000	1,625,000	625,000	625,000
Road Use Tax	1,500,000		375,000	375,000	375,000	375,000
TOTAL	6,100,000	300,000	1,800,000	2,000,000	1,000,000	1,000,000

PROGRAM – ACTIVITY:
Transportation - Streets Maintenance

DEPARTMENT:
Public Works

ACCOUNT NO.
368-7763-439

**SEAL COAT REMOVAL/ASPHALT
RECONSTRUCTION PROGRAM**

PROJECT STATUS: No Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This annual program provides for removal of built-up seal coat from streets and replacement with asphalt surface.

Built-up seal coat on streets causes excess crown that results in vehicles dragging at driveway entrances. Complete removal of this built-up seal coat will allow repairs to curb and gutter, and placement of 3" of asphalt surface.

COMMENTS

The operating budget will need to be increased for materials to repair streets to serviceable condition if this project is delayed.

FISCAL YEAR PRIORITY		2	2	2	2	2
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Construction	750,000	150,000	150,000	150,000	150,000	150,000
	TOTAL	750,000	150,000	150,000	150,000	150,000
FINANCING:						
Road Use Tax	750,000	150,000	150,000	150,000	150,000	150,000
	TOTAL	750,000	150,000	150,000	150,000	150,000

PROGRAM – ACTIVITY:
Transportation – Streets Maintenance

DEPARTMENT:
Public Works

ACCOUNT NO.
060-7756-439

SIDEWALK SAFETY PROGRAM

PROJECT STATUS: No Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This is the annual program to remove and replace sidewalk intersection crosswalk panels and handicap ramps at locations that fail to meet the City Sidewalk Improvement Program requirements.

This program provides safer pedestrian facilities and limits the City's liability for injury suffered by residents using public sidewalks that are in a deteriorated condition. The program also improves ADA accessibility at municipal facilities.

COMMENTS

An Americans with Disability Act (ADA) requirement to install truncated dome warning panels at crosswalks has increased the cost of these crosswalks. This reduces the number of locations that will be improved under this program each year.

This project has no direct impact on the operating budget.

FISCAL YEAR PRIORITY		3	3	3	3	3
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Construction	250,000	50,000	50,000	50,000	50,000	50,000
TOTAL	250,000	50,000	50,000	50,000	50,000	50,000
FINANCING:						
Local Option Sales Tax	250,000	50,000	50,000	50,000	50,000	50,000
TOTAL	250,000	50,000	50,000	50,000	50,000	50,000

PROGRAM - ACTIVITY:
Transportation - Streets Maintenance

DEPARTMENT:
Public Works

ACCOUNT NO.
030-7743-439

SLURRY SEAL PROGRAM

PROJECT STATUS: No Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

The annual Slurry Seal Program is to slurry seal cracks in asphalt streets at various locations.

Application of slurry as a preventive maintenance program for cracks in asphalt streets seals against moisture intrusion and improves rideability. Selected locations will have full-width slurry applied to seal coat streets.

COMMENTS

This program continues to provide for repair of street surfaces until a more permanent surface is installed.

LOCATION

Locations identified for 2007/08:

Main Street (Clark Avenue to Grand Avenue)
Kellogg Avenue (26th Street to 28th Street)
Taft Avenue
Greeley Street
Agg Avenue

Monroe Drive
Clinton Court
Glendale Avenue (13th Street to 16th Street)
Kildee Street
Indian Grass Court

FISCAL YEAR PRIORITY		4	4	4	4	4
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Construction	500,000	100,000	100,000	100,000	100,000	100,000
	TOTAL	500,000	100,000	100,000	100,000	100,000
FINANCING:						
Road Use Tax	500,000	100,000	100,000	100,000	100,000	100,000
	TOTAL	500,000	100,000	100,000	100,000	100,000

PROGRAM - ACTIVITY:
Transportation – Streets Maintenance

DEPARTMENT:
Public Works

ACCOUNT NO.
060-7719-439

TRANSPORTATION - TRANSIT

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
1 Vehicle Replacement	5,191,000	1,041,000	1,030,000	1,125,000	990,000	1,005,000	98
2 CyRide Shop/Office Equipment	452,500	26,500	106,500	106,500	106,500	106,500	99
3 Bus Stop Improvements	200,000		50,000	50,000	50,000	50,000	100
4 Building Expansion and Modernization	2,595,000		500,000	540,000	555,000	1,000,000	101
5 AVL Technology	1,000,000			500,000	500,000		102
6 Resurfacing	1,000,000				1,000,000		103
7 Control	175,000					175,000	104
Total Expenditures	10,613,500	1,067,500	1,686,500	2,321,500	3,201,500	2,336,500	
REVENUES:							
City:							
Transit Fund	1,766,970	182,270	306,400	430,550	410,600	437,150	
Other:							
Federal Transit Administration	7,963,209	735,809	1,066,200	1,850,950	2,450,900	1,859,350	
Federal Grants	583,321	149,421	313,900	40,000	40,000	40,000	
Iowa State University	300,000				300,000		
Other Sub-Total	8,846,530	885,230	1,380,100	1,890,950	2,790,900	1,899,350	
Total Revenues	10,613,500	1,067,500	1,686,500	2,321,500	3,201,500	2,336,500	

VEHICLE REPLACEMENT

PROJECT STATUS: Cost Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

The CyRide fleet has an average age of 12 years. Replacement buses are subject to federal funding levels and statewide distribution of federal funds, but should be more predictable than in previous years. Therefore, CyRide has scheduled the replacement of three vehicles per year in an effort to reduce the average fleet age closer to the national level of seven years. There are no expansion buses scheduled through FY11/12.

- 2007/08 – Replace large buses 898, 980, 981, shop truck 950, minibus for Heartland Senior Services
- 2008/09 – Replace large buses 982, 966, 962, minibus 949
- 2009/10 – Replace large buses 964, 991, 984, minibuses 938, 939
- 2010/11 – Replace large buses 952, 942, 943
- 2011/12 – Replace large buses 941, 869, 900

FISCAL YEAR PRIORITY		1	1	1	1	1
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Large Buses	4,875,000	945,000	960,000	975,000	990,000	1,005,000
Minibuses	286,000	66,000	70,000	150,000		
Trucks	30,000	30,000				
TOTAL	5,191,000	1,041,000	1,030,000	1,125,000	990,000	1,005,000
FINANCING:						
Transit Fund	882,470	176,970	175,100	191,250	168,300	170,850
Federal Transit Administration	3,725,209	714,609	541,000	893,750	781,700	794,150
Federal Grants	583,321	149,421	313,900	40,000	40,000	40,000
TOTAL	5,191,000	1,041,000	1,030,000	1,125,000	990,000	1,005,000

PROGRAM - ACTIVITY:	DEPARTMENT:	ACCOUNT NO.
Transportation – Transit	CyRide	552-1172-439
		552-1177-439
		552-1178-439
		552-1179-439

CYRIDE SHOP AND OFFICE EQUIPMENT

PROJECT STATUS: New

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

CyRide receives approximately \$800,000 per year in Small Transit Intensive Cities (STIC) funds from the Federal Transit Administration (FTA). Most of the grant is spent on large items such as buses, AVL, and shelters, but some is used every year to pay for smaller capital items for the shop and office. These items are either too minor or too far down the eligibility list to be funded under the Iowa Department of Transportation (IDOT) grant process.

Three to four replacement computers will be funded each year, and approximately \$100,000 per year will fund other shop and office items (\$50,000 each for fiscal years 2008/09 – 2011/12). Because these are smaller items where replacement need is less predictable, only specific purchases for FY07/08 have been identified. Equipment for the remaining years will be identified in future Capital Improvement Plans prior to purchase.

LOCATION

CyRide – Map 5, location J-10

FISCAL YEAR PRIORITY		2	2	2	2	2
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Computers	32,500	6,500	6,500	6,500	6,500	6,500
Tire Changer	8,000	8,000				
Parts Shelves	12,000	12,000				
Other Shop Equipment	200,000		50,000	50,000	50,000	50,000
Other Office Equipment	200,000		50,000	50,000	50,000	50,000
TOTAL	452,500	26,500	106,500	106,500	106,500	106,500
FINANCING:						
Transit Fund	90,500	5,300	21,300	21,300	21,300	21,300
Federal Transit Administration	362,000	21,200	85,200	85,200	85,200	85,200
TOTAL	452,500	26,500	106,500	106,500	106,500	106,500

PROGRAM - ACTIVITY:
Transportation – Transit

DEPARTMENT:
CyRide

ACCOUNT NO.
552-1176-439

BUS STOP IMPROVEMENTS

PROJECT STATUS: New

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

One of the most numerous customer suggestions CyRide receives regards the condition or lack of amenities at its more than 400 bus stop locations throughout the city. In FY07/08, CyRide will begin to systematically identify needs at each stop, and beginning in FY08/09, shelters, benches, concrete pads and lights will be placed at stops with higher customer activity. It is anticipated that five to ten bus stop locations will receive improvements each year.

FISCAL YEAR PRIORITY		TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:				3	3	3	3
Technical Study		200,000		50,000	50,000	50,000	50,000
	TOTAL	200,000		50,000	50,000	50,000	50,000
FINANCING:							
Transit Fund		40,000		10,000	10,000	10,000	10,000
Federal Transit Administration		160,000		40,000	40,000	40,000	40,000
	TOTAL	200,000		50,000	50,000	50,000	50,000

PROGRAM - ACTIVITY:
Transportation – Transit

DEPARTMENT:
CyRide

ACCOUNT NO.

BUILDING EXPANSION & MODERNIZATION

PROJECT STATUS: Cost Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

The current CyRide building was constructed in 1983 and was originally designed to accommodate 25 vehicles. The building was expanded in 1990, 2002, and 2004 and can now accommodate 77 vehicles. Office expansion and modernization will be accomplished in FY07/08.

CyRide has identified more than \$2.5 million dollars in building repairs and modernization which include major projects such as rehabilitation of the old wash bay, upgrading of the bus storage ventilation system, steam cleaning and repainting of walls, replacing the shop air-conditioning system, replacing the shop exhaust removal system, replacing lights with energy efficient T8 fluorescent lights, rehabilitating the maintenance office, relocating the parts room, replacing shop hoists, replacing overhead doors with energy efficient doors, replacing or repairing exterior walls, installing an independent backup power supply, relocating the fluids room, and adding a building security system. A majority of these projects will be scheduled for completion from FY09/10 through FY11/12.

LOCATION

CyRide – Map 5, location J-10

FISCAL YEAR PRIORITY			4	4	4	4
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Architect/Engineering	250,000		50,000	50,000	50,000	100,000
Repairs/Modifications	2,345,000		450,000	490,000	505,000	900,000
	TOTAL	2,595,000	500,000	540,000	555,000	1,000,000
FINANCING:						
Transit Fund	519,000		100,000	108,000	111,000	200,000
Federal Transit Administration	2,076,000		400,000	432,000	444,000	800,000
	TOTAL	2,595,000	500,000	540,000	555,000	1,000,000

PROGRAM - ACTIVITY:
Transportation – Transit

DEPARTMENT:
CyRide

ACCOUNT NO.

AVL TECHNOLOGY

PROJECT STATUS: Cost Change

Delayed

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

The purchase of Automatic Vehicle Location (AVL) technology will enable CyRide to track the exact location of buses to give better service on both Fixed Route and Moonlight Express. It will also improve overall security on buses.

Moonlight Express scheduling will be improved, resulting in fewer scheduling errors and the possibility of slightly lower operating costs per passenger.

This AVL technology is the first step toward enabling customer-friendly bus information to be relayed through CyRide’s website, at kiosks and at shelters through the transit system. This second step in technology advancement will be scheduled beyond FY11/12.

FISCAL YEAR PRIORITY		TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:					5	5	
Global Positioning/Design Installation		1,000,000			500,000	500,000	
	TOTAL	1,000,000			500,000	500,000	
FINANCING:							
Transit Fund		200,000			100,000	100,000	
Federal Transit Administration		800,000			400,000	400,000	
	TOTAL	1,000,000			500,000	500,000	

PROGRAM - ACTIVITY:
Transportation – Transit

DEPARTMENT:
CyRide

ACCOUNT NO.

RESURFACE COMMUTER LOTS AT IOWA STATE CENTER

PROJECT STATUS: Delayed

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project is to resurface commuter lots at Iowa State Center.

COMMENTS

In 2000, commuter parking lots A-2, 3, 4, and B-4, 5, 6 were resurfaced. Federal Transit Administration (FTA) funds provided 70% of the cost. CyRide passengers occupy the spaces 88% of the time they are used.

Currently, commuter parking has spilled over into lots C-5 and C-6 and these areas also need repair. Lot D-3 is used as a staging area for buses between scheduled trips. FTA funds will provide up to 70% of the cost and ISU will provide the remainder.

LOCATION

Iowa State Center – Map 5, location J-12

FISCAL YEAR PRIORITY		TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:							
Engineering		100,000				100,000	
Construction		900,000				900,000	
	TOTAL	1,000,000				1,000,000	
FINANCING:							
Federal Transit Administration		700,000				700,000	
Iowa State University		300,000				300,000	
	TOTAL	1,000,000				1,000,000	

PROGRAM - ACTIVITY:
Transportation – Transit

DEPARTMENT:
CyRide

ACCOUNT NO.

STANGE ROAD/UNIVERSITY VILLAGE TRAFFIC CONTROL

PROJECT STATUS: Delayed

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

CyRide experiences unpredictable delays while attempting to turn left from Bruner Road to Stange Road. The wide variation in delay has caused serious schedule and reliability problems for the #3 Blue route. A traffic light will provide a predictable intersection delay and will greatly improve schedule adherence.

LOCATION

Bruner Road to Stange Road – Map 5, location I-8

FISCAL YEAR PRIORITY		TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:							5
Traffic Light		175,000					175,000
	TOTAL	175,000					175,000
FINANCING:							
Transit Fund		35,000					35,000
Federal Transit Administration		140,000					140,000
	TOTAL	175,000					175,000

PROGRAM - ACTIVITY:
Transportation – Transit

DEPARTMENT:
CyRide

ACCOUNT NO.

**TRANSPORTATION -
AIRPORT**

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
1 Airport Improvements	100,000	100,000					106
Total Expenditures	100,000	100,000					
REVENUES:							
City:							
Airport Construction Fund	20,000	20,000					
Other:							
Iowa D.O.T. Grant Funds	80,000	80,000					
Total Revenues	100,000	100,000					

AIRPORT IMPROVEMENTS

PROJECT STATUS: Cost Change

Revenue Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

Airport improvement projects are accomplished through this program.

COMMENTS

The projects included in this program are determined by the Airport Master Plan which details Airport development needs for a ten-year period. The Master Plan Update that will be completed in 2007 will identify projects that qualify for Federal Aviation Administration (FAA) funding. (FAA funding provides for 95% of the cost of identified projects.) These projects will then be prioritized and included in the 2008 – 2013 Capital Improvements Plan.

The project scheduled for 2007/08 utilizes a state of Iowa infrastructure grant program that will fund 80% of the cost to paint and/or replace the roofs and to paint the side walls of the 52 tee hangars at the airport.

LOCATION

Ames Municipal Airport - Map 8, location L-16

FISCAL YEAR PRIORITY						
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Engineering	100,000	100,000				
TOTAL	100,000	100,000				
FINANCING:						
Airport Construction Fund	20,000	20,000				
Iowa DOT Grant	80,000	80,000				
TOTAL	100,000	100,000				

PROGRAM – ACTIVITY:
Transportation – Airport

DEPARTMENT:
Public Works

ACCOUNT NO.:
330-7071-439



The Eastwood Village Community Gathering Place project included the addition of benches, tables, and trash cans to the play area at the apartment complex. The Neighborhood Improvement Project increased the safety of children by creating community gathering areas where families can socialize and get to know each other better while watching their children play.

A second Neighborhood Improvement Project added toddler play equipment and spring rider equipment.

COMMUNITY ENRICHMENT/INTERNAL SERVICES - SUMMARY

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
Parks and Recreation	3,325,000	961,000	629,500	769,500	467,500	497,500	109
Library	438,560	52,760	180,800		25,000	180,000	121
Public Works	250,000	50,000	50,000	50,000	50,000	50,000	126
City Manager	250,000	50,000	50,000	50,000	50,000	50,000	128
Planning and Housing	1,138,000	938,000	50,000	50,000	50,000	50,000	130
Fleet Services	375,500	48,000	52,500	48,000	15,000	212,000	133
Total Expenditures	5,777,060	2,099,760	1,012,800	967,500	657,500	1,039,500	
REVENUES:							
City:							
Local Option Sales Tax	3,165,060	705,260	647,800	517,000	560,000	735,000	
Park Development Fund	362,500	362,500					
Hotel/Motel Tax	250,000	50,000	50,000	50,000	50,000	50,000	
Road Use Tax	93,875	12,000	13,125	12,000	3,750	53,000	
Water Utility Fund	93,875	12,000	13,125	12,000	3,750	53,000	
Sewer Utility Fund	93,875	12,000	13,125	12,000	3,750	53,000	
Fleet Services Fund	93,875	12,000	13,125	12,000	3,750	53,000	
Sub-Total City Funds	4,153,060	1,165,760	750,300	615,000	625,000	997,000	

COMMUNITY ENRICHMENT/INTERNAL SERVICES - SUMMARY

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
REVENUES, continued:						
Other:						
Ames Community School District	410,000	95,000	162,500	77,500	32,500	42,500
Private Contributions	356,000	156,000	100,000	100,000		
State Grants	175,000			175,000		
Iowa D.O.T. Grant Funds	683,000	683,000				
Sub-Total Other Funds	1,624,000	934,000	262,500	352,500	32,500	42,500
Total Revenues	5,777,060	2,099,760	1,012,800	967,500	657,500	1,039,500

COMMUNITY ENRICHMENT - PARKS AND RECREATION

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
1 Municipal Pool Maintenance	815,000	185,000	325,000	155,000	65,000	85,000	111
2 Parks and Recreation Facility Maintenance	702,500	328,500	122,000	132,000	70,000	50,000	112
3 Playground/Park Equipment Improvements	137,500	27,500	27,500	27,500	27,500	27,500	113
4 Ada Hayden Park Restroom Construction	125,000	125,000					114
5 Charles Calhoun Memorial Park	137,500	137,500					115
6 Dog Park	150,000	150,000					116
7 Tennis Court Improvements	357,500	7,500	5,000	5,000	5,000	335,000	117
8 Ada Hayden Park Overlook/Fishing Pier	150,000		150,000				118
9 Bike Park	450,000			450,000			119
10 Interactive Fountain	300,000				300,000		120
Total Expenditures	3,325,000	961,000	629,500	769,500	467,500	497,500	

COMMUNITY ENRICHMENT - PARKS AND RECREATION, continued

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
REVENUES:						
City:						
Local Option Sales Tax	2,127,500	453,500	367,000	417,000	435,000	455,000
Park Development Fund	362,500	362,500				
City Sub-Total	2,490,000	816,000	367,000	417,000	435,000	455,000
Other:						
Ames Community School District	410,000	95,000	162,500	77,500	32,500	42,500
Private Contributions	250,000	50,000	100,000	100,000		
State Grants	175,000			175,000		
Other Sub-Total	835,000	145,000	262,500	352,500	32,500	42,500
Total Revenues	3,325,000	961,000	629,500	769,500	467,500	497,500

MUNICIPAL POOL MAINTENANCE

PROJECT STATUS: Cost Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

In 2006, consultants were retained to provide recommendations regarding mechanical, electrical, structural, and any other needed improvements for the Municipal Pool. With the goal of keeping this 41-year old facility operational a minimum of 8 to 10 additional years, the 2006 Study reflects that substantial improvements, totaling \$815,000, are needed over the next five years. All costs are shared equally by the City and Ames Community School District.

The consultants have warned that following approximately 2015, the cost of further repairs to this facility could be cost prohibitive. It should be noted that the City and District's joint use agreement expires on April 30, 2015. Therefore, it appears that the City and School District will have to address the need for a new indoor aquatics facility no later than 2015.

COMMENTS

2007/08 – **Total \$185,000**

Replace shower columns and flow controls, asbestos abatement and re-insulate piping in the basement, seal leaky pipe penetration into pool basin, replace corroded electrical conduit in pipe in the tunnels, repair pre-cast concrete floor over pool room, replace compressor relay, add ductwork to south pipe tunnel area, and other miscellaneous repairs.

2008/09 – **Total \$325,000**

Replace boilers, pumps, replace deteriorated ladders, encase corroded surge tank legs, install a new ADA access lift, patch the exterior roof (\$2,500), replace a pair of corridor doors from men/women locker rooms to pool, paint exterior steel channels at roof edge, additional tuck pointing on exterior, and other miscellaneous projects.

2009/10 – **Total \$155,000**

Replace balance of steel pipe, install a dehumidifier in the equipment room, interconnect Desert Air with roof exhaust, place acoustical panels in the pool area, and other miscellaneous and unknown projects.

2010/11 – **Total \$65,000**

Replace electrical panels, roof patching allowance (\$10,000), replace plywood veneer and flashing at arch bases, and other miscellaneous and unknown projects.

2011/12 – **Total \$85,000**

Replace lighting in pool, temperature controls integration with District NOVAR system, roof patching allowance (\$10,000), and other miscellaneous and unknown projects.

Over a 17-year period (FY95/96 and continuing through FY11/12), the City and School District will have invested approximately \$2,022,589 (\$119,000 per year average) in capital improvements at this facility.

It should be noted that the previous CIP included \$150,000 to renovate the outdoor wading pool at Municipal Pool and install spray and water play features. However, due to the uncertainty of the Municipal Pool's long-range viability, staff has removed this project from the CIP and replaced it with an interactive fountain project to be located in the Downtown core of the City.

LOCATION

Ames High School – Map 5, location J-8

FISCAL YEAR PRIORITY		1	1	1	1	1
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Construction	733,500	166,500	292,500	139,500	58,500	76,500
Architects/Engineering	81,500	18,500	32,500	15,500	6,500	8,500
TOTAL	815,000	185,000	325,000	155,000	65,000	85,000
FINANCING:						
Local Option Sales Tax	407,500	92,500	162,500	77,500	32,500	42,500
Ames School District	407,500	92,500	162,500	77,500	32,500	42,500
TOTAL	815,000	185,000	325,000	155,000	65,000	85,000

PROGRAM – ACTIVITY:

Community Enrichment

DEPARTMENT:

Parks and Recreation

ACCOUNT NO.

030-4921-459

DESCRIPTION/JUSTIFICATION

To maintain City facilities in a quality manner, the FY2007 to 2012 projects listed below address maintenance issues at various facilities within the Parks and Recreation Department.

COMMENTS

2007/08: Total = \$328,500

Carr Pool: Replace diving board; install a shade structure; replace guard chairs and deck furniture/tables (\$33,000); and a handicap lift to access pool (\$6,000) – Map 6, location N-8

Brookside Park: Replace the suspension bridge (\$220,000); renovate limestone walls leading to the suspension bridge (\$30,000) – Map 5, location K-10

Homewood Golf Course: Renovate the restroom; install fencing (\$39,500) – Map 5, location M-8

2008/09: Total = \$122,000

Carr Pool: Sandblast/repaint basin (\$30,000); filter repair or replacement (\$20,000); pool water heaters (\$28,000); family changing room (\$8,000) – Map 6, location N-8

Auditorium: Replace the sound system (\$30,000) – Map 5, location L-10

Bandshell: Replace lighting (\$6,000) – Map 5, location M-10

2009/10: Total = \$132,000

Daley Park: Asphalt overlay on existing pathway from Wilder Blvd. to South Dakota (\$45,000) – Map 4, location C-11

Franklin Park: Asphalt overlay on existing crushed rock pathway through the park (\$15,000) – Map 4, location F-12

Inis Grove: Sanitary sewer installation (\$50,000) – Map 2, location M-7

Gateway Park: Demolition of the garage/storage facility (\$22,000) – Map 8, location I-14

2010/11: Total = \$70,000

Homewood Golf Course: Replace green #1 (\$50,000) and tee renovations (\$20,000) – Map 5, location M-8

2011/12: Total = \$50,000

Bandshell: Weatherproof the domed roof (\$50,000) – Map 5, location M-10

FISCAL YEAR PRIORITY		2	2	2	2	2
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Construction	620,825	267,825	116,000	127,000	65,000	45,000
Engineering	81,675	60,675	6,000	5,000	5,000	5,000
	TOTAL	702,500	328,500	122,000	132,000	70,000
FINANCING:						
Local Option Sales Tax	702,500	328,500	122,000	132,000	70,000	50,000
	TOTAL	702,500	328,500	122,000	132,000	70,000

PROGRAM - ACTIVITY:

Community Enrichment

DEPARTMENT:

Parks and Recreation

ACCOUNT NO.

030-4902-459

PLAYGROUND/PARK EQUIPMENT IMPROVEMENTS

PROJECT STATUS: Site Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

With the emergence of the U.S. Consumer Products Safety Commission recommendations for public playground safety, questionable, antiquated metal playground equipment in the park system was removed and replaced with equipment that complies with recognized safety standards. That phase of the program was completed in 1996/97.

The second phase of the equipment replacement program was to replace all wood structures. This effort began in FY97/98 and was completed in FY06/07. The next phase of this program calls for the replacement of independent pieces of play equipment (swings, one slide, spring animals) in both neighborhood and community parks with all-inclusive play structures and basketball pads as deemed appropriate for the size of the parcel.

COMMENTS

2007-2012: Replace independent pieces with all-inclusive play structures

- 2007/08: Emma McCarthy Lee Park – north of Ross Road (\$27,500) – Map 4, location G-10
- 2008/09: South Parkview Park (\$17,500) – Map 2, location J-7; South River Valley, adjacent the softball fields (\$10,000) – Map 6, location O-9
- 2009/10: Gartner Park (\$17,500) – Map 4, location E-12; Moore Park – off Beach Avenue (\$10,000) – Map 5, location J-12
- 2010/11: Daley Park (\$17,500) – Map 4, location C-11; Teagarden Park (\$10,000) – Map 9, location N-16
- 2011/12: Brookside Park (\$27,500) – Map 5, location K-10
- 2012/13: Hutchison Park (\$17,500) – Map 4, location E-9; Duff Park (\$10,000) – Map 5, location M-9
- 2013/14: North River Valley – adjacent Cottonwood Shelter (\$27,500) – Map 6, location O-9

FISCAL YEAR PRIORITY		3	3	3	3	3
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Construction	137,500	27,500	27,500	27,500	27,500	27,500
TOTAL	137,500	27,500	27,500	27,500	27,500	27,500
FINANCING:						
Local Option Sales Tax	137,500	27,500	27,500	27,500	27,500	27,500
TOTAL	137,500	27,500	27,500	27,500	27,500	27,500

PROGRAM - ACTIVITY:
Community Enrichment

DEPARTMENT:
Parks and Recreation

ACCOUNT NO.
030-4967-459

**ADA HAYDEN HERITAGE PARK RESTROOM
CONSTRUCTION**

PROJECT STATUS: New

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

Due to the popularity of Ada Hayden Heritage Park and the development of Charles Calhoun Memorial Park (FY07/08), a permanent restroom facility is needed on the southern end of the park.

COMMENTS

2007/08: Restroom construction – southern edge of Ada Hayden Heritage Park (\$125,000)

Budget Impact: Increased water and electric usage

LOCATION

Map 2, location K-4

FISCAL YEAR PRIORITY		4				
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Construction	112,500	112,500				
Engineering	12,500	12,500				
TOTAL	125,000	125,000				
FINANCING:						
Park Development Fund	125,000	125,000				
TOTAL	125,000	125,000				

PROGRAM – ACTIVITY:
Community Enrichment

DEPARTMENT:
Parks and Recreation

ACCOUNT NO.
110-4996-459

DESCRIPTION/JUSTIFICATION

This project is to develop a 4-acre parcel across Dawes Drive adjacent to Ada Hayden Heritage Park. In 2004, the Calhoun family donated this land to the City with the understanding that the land be named "Charles Calhoun Memorial Park". Its location is strategic, as it will allow the development of a 20-stall parking lot, small shelter house, grills, benches, and drinking fountain on the southeast corner of Ada Hayden Heritage Park.

This site will provide access to the southern end of the park. The site will also serve as a passive environmental area.

COMMENTS

2007/08: Develop Calhoun parcel into a passive park (\$137,500)

Budget Impact: Increased water and electric usage

LOCATION

Map 2, location L-4

FISCAL YEAR PRIORITY		5				
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Construction	125,000	125,000				
Engineering	12,500	12,500				
TOTAL	137,500	137,500				
FINANCING:						
Park Development Fund	137,500	137,500				
TOTAL	137,500	137,500				

PROGRAM - ACTIVITY:
Community Enrichment

DEPARTMENT:
Parks and Recreation

ACCOUNT NO.
110-4978-459

DOG PARK

PROJECT STATUS No Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project is for the development (\$150,000) of an approximate 10-acre dog park at the abandoned 43-acre Water and Pollution Control Plant (east of Animal Control). The project will include: fencing (\$60,000), drinking fountains (\$10,000), 25-stall parking lot (\$47,500), site development (\$17,500), park amenities (\$15,000), and design/contingency (\$15,000). A significant trend across the nation is the development of dog parks. Local interest seems to support this trend. Dog owners in Ames have expressed strong feelings that a facility is needed to accommodate this form of recreation. Additionally, many local dog owners reside in rental units with limited space to exercise. A dog park is a place where dogs can socialize and run off-leash in a safe, secure environment. Community benefits of a dog park include providing elderly and disabled people with an accessible place to exercise their companions, enabling dogs to legally run off-leash, promoting public health and safety, and promoting responsible pet guardianship.

COMMENTS

Contingent on the receipt of private fundraising efforts (\$50,000), the Parks and Recreation Department will provide construction, ongoing maintenance (mowing, fence repair, snow removal, utilities, etc.), and management of the facility. The Animal Control Division will provide technical assistance. The annual operational costs will be approximately \$11,000. However, staff will be employing a permit fee to be assessed with the goal of making this a non-tax subsidized facility. The permit will also ensure that dogs have current vaccinations. To minimize labor costs, it is anticipated that numerous individuals who volunteer their time in support of Animal Control will also serve as "Friends of the Dog Park" to assist with policy development and rule enforcement, site supervision, checking that vaccinations are current, etc. These volunteers would also serve as a communications liaison between the City and dog handlers.

Budget Impact: Increased water and sewer usage

LOCATION

Map 9, location N-14

FISCAL YEAR PRIORITY		6				
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Construction	135,000	135,000				
Engineering	15,000	15,000				
TOTAL	150,000	150,000				
FINANCING:						
Park Development Fund	100,000	100,000				
Private Contributions	50,000	50,000				
TOTAL	150,000	150,000				

PROGRAM – ACTIVITY:

Community Enrichment

DEPARTMENT:

Parks and Recreation
Police – Animal Control

ACCOUNT NO.

110-4997-459

TENNIS COURT IMPROVEMENTS

PROJECT STATUS: New

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION:

In 1997, the decision was made to shift \$100,000 in funding that would have been used to renovate the tennis courts at Brookside Park to partnering with the School District and Friends of Ames Tennis to construct a new 8-court facility at Ames High. In addition, the School District agreed to pay the City \$2,500 annually for a period of ten years (through FY07/08) to help pay for the ongoing maintenance costs of the tennis courts at Brookside. At that time, the City Council decided that the four courts at Brookside would be maintained at a “recreational level” until the City made a final decision regarding the future existence of these courts.

The Brookside courts have been successfully maintained during the past ten years (1997 – 2007). Staff anticipates that they will continue to serve the public a minimum of five more years (2012) at the recreational level. During 2011, staff will analyze the condition of these courts and determine if reconstruction is needed or if the project can be delayed.

COMMENTS

2007/2008: Total = \$7,500 (City \$5,000 to be utilized for the courts at Ames High, Brookside, Inis Grove, McCarthy Lee , while the School District’s \$2,500 to be utilized for the courts at Brookside).

2008–2011: Total = \$5,000 each year
City will contribute \$5,000/year for tennis court maintenance for Ames High/Brookside/Inis Grove/McCarthy Lee.

2011/12: City will contribute \$5,000 for ongoing court maintenance at three sites and exclude Brookside. The Brookside courts will be reconstructed (\$300,000) if an analysis at the time indicates the project is warranted.

LOCATION

Ames High – Map 5, location J-8; Brookside Park – Map 5, location K-10; Inis Grove Park – Map 2, location N-7; and Emma McCarthy Lee Park – Map 4, location G-10

FISCAL YEAR PRIORITY		7	5	5	5	4
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Engineering / Design	30,000					30,000
Maintenance	27,500	7,500	5,000	5,000	5,000	5,000
Reconstruction	300,000					300,000
TOTAL	357,500	7,500	5,000	5,000	5,000	335,000
FINANCING:						
Local Options Sales Tax	355,000	5,000	5,000	5,000	5,000	335,000
Ames Community School District	2,500	2,500				
TOTAL	357,500	7,500	5,000	5,000	5,000	335,000

PROGRAM - ACTIVITY:
Community Enrichment

DEPARTMENT:
Parks and Recreation

ACCOUNT NO.:
030-4902-459

DESCRIPTION/JUSTIFICATION

Due to the popularity of Ada Hayden Heritage Park, a large lakeside overlook/fishing pier is needed. Since the park opened, it has been observed that the existing fishing pier is not adequate to accommodate the quantity of casual park users and anglers who would like to utilize the pier.

The new structure would be located immediately south of the shelter/restroom. The pier will be approximately 110' x 15' and cantilever over the water by 8'.

It is anticipated that this project will be funded by local option sales tax and private contributions. State grants will also be pursued to help offset the private contribution portion of the funding.

COMMENTS

2008/09: Construction of Lakeside Overlook / Fishing Pier (\$150,000)

LOCATION

Ada Hayden Heritage Park – Map 2, location K-3

FISCAL YEAR PRIORITY						
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Construction	140,000		140,000			
Engineering / Design	10,000		10,000			
	TOTAL		150,000			
FINANCING:						
Local Option Sales Tax	50,000		50,000			
Private Contributions	100,000		100,000			
	TOTAL		150,000			

PROGRAM - ACTIVITY:
Community Enrichment

DEPARTMENT:
Parks and Recreation

ACCOUNT NO.

BIKE PARK

PROJECT STATUS: New

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

The Skate Park has been a successful facility for a specific population within our community – males between the ages of 10 and 25. State regulations, related to liability issues, do not allow bikes to utilize this facility. Staff believes that if a comparable Bike Park were constructed, significant usage would occur within this same age group. A Bike Park, also constructed with concrete, would be approximately 15,000 square feet versus 10,200 for the City’s Skate Park.

The State of Iowa passed legislation in early 2000 providing exceptions to municipal tort liability for Bike Parks if they are built with “generally recognized engineering or safety standards”.

During the next few years, staff will research engineering firms to determine who has significant experience in designing bike parks and evaluate potential locations where such a facility could be located.

Due to the anticipated popularity of this activity with young adults, staff would recommend that State of Iowa grant options be researched to determine if additional fiscal resources can be obtained to assist with this project.

COMMENTS

2009/10: Bike Park construction (\$450,000)

LOCATION

To be determined

FISCAL YEAR PRIORITY		TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:							
Construction		410,000			410,000		
Engineering/Design		40,000			40,000		
	TOTAL	450,000			450,000		
FINANCING:							
Local Option Sales Tax		175,000			175,000		
State Grants		175,000			175,000		
Private Contributions (Bike Park Users)		100,000			100,000		
	TOTAL	450,000			450,000		

PROGRAM - ACTIVITY:

Community Enrichment

DEPARTMENT:

Parks and Recreation

ACCOUNT NO.

INTERACTIVE FOUNTAIN

PROJECT STATUS: New

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

Throughout the country, a popular facility that has been emerging for the past several years is the installation of interactive fountains. These facilities are not fenced, nor staffed, and no admission fee is collected. No water accumulates at grade. During the daytime, spray features allow children to direct water at others and themselves. In the evening, the fountain will convert into an appealing visual feature for viewing only.

Due to the cost of constructing a facility that has water as its main attraction, staff recommends one large, centralized facility in the Downtown area. Additionally, it is recommended that the wading pool at Brookside not be renovated to accommodate this need. Staff recommends that the current wading pool be abandoned after a new facility is constructed. The Brookside facility is located in the floodplain and is over 20 years old.

During the next few years, staff will assess possible business district locations.

COMMENTS

2010/11: Interactive fountain construction (\$300,000)

LOCATION

To be determined

FISCAL YEAR PRIORITY		TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:							
Construction		270,000				270,000	
Engineering / Design		30,000				30,000	
	TOTAL	300,000				300,000	
FINANCING:							
Local Option Sales Tax		300,000				300,000	
	TOTAL	300,000				300,000	

PROGRAM - ACTIVITY:
Community Enrichment

DEPARTMENT:
Parks and Recreation

ACCOUNT NO.

COMMUNITY ENRICHMENT - LIBRARY

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
1 Library Security/Surveillance/Fire System	52,760	52,760					122
2 Library Air Conditioning System Replacement	180,800		180,800				123
3 Library Landscaping	25,000				25,000		124
4 Library Floor Covering Replacement	180,000					180,000	125
Total Expenditures	438,560	52,760	180,800		25,000	180,000	
REVENUES:							
CITY:							
Local Option Sales Tax	438,560	52,760	180,800		25,000	180,000	
Total Revenues	438,560	52,760	180,800		25,000	180,000	

SECURITY/SURVEILLANCE/FIRE SYSTEM

PROJECT STATUS: New

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

Installation of this system will monitor theft, misconduct within the Library, vandalism, break-ins, etc. Upgrading the fire panel and security/surveillance system will allow better protection of the property.

COMMENTS

Included in the security/surveillance/fire system are the following:

- Cameras
- Recording devices
- Window breakage alarms
- Motion detectors
- Horn strobes
- New smoke detectors
- Fire alarm pull stations
- Upgraded fire panel

LOCATION

Ames Public Library, 515 Douglas – Map 5, location M-10

FISCAL YEAR PRIORITY		1				
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Fire Alarm System	33,461	33,461				
Equipment	9,233	9,233				
Installation of Security Cameras	10,066	10,066				
TOTAL	52,760	52,760				
FINANCING:						
Local Option Sales Tax	52,760	52,760				
TOTAL	52,760	52,760				

PROGRAM - ACTIVITY:
Community Enrichment

DEPARTMENT:
Library

ACCOUNT NO.
030-2660-459

AIR-CONDITIONING SYSTEM REPLACEMENT

PROJECT STATUS: New

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project provides replacement of the 130-ton air-chilling unit with a contemporary model. The old model, installed during the expansion of the Library in 1985, has served beyond the service capability, typically rated for 13-15 years. The current model failed in the summers of 2005 and 2006. Parts had to be fabricated for repair since the current unit is no longer in production.

COMMENTS

This replacement project will provide energy efficiency. The current unit has an EER (energy efficiency rating) of 6.0. The recommended model has an EER of 10.0 at full load or 14.5 EER at half-load. Savings in energy costs with the newer, more efficient model is estimated to be about \$2,900 each cooling season, if operating at full load.

LOCATION

Ames Public Library, 515 Douglas – Map 5, location M-10

FISCAL YEAR PRIORITY						
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Equipment	180,800		180,800			
TOTAL	180,800		180,800			
FINANCING:						
Local Option Sales Tax	180,800		180,800			
TOTAL	180,800		180,800			

PROGRAM - ACTIVITY:	DEPARTMENT:	ACCOUNT NO.
Community Enrichment	Library	

LANDSCAPING OF LIBRARY GROUNDS

PROJECT STATUS: New

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

The purpose of this project is to improve the aesthetic appeal of the grounds surrounding the Library by planting low maintenance vegetation. This will reduce costs and alleviate reliance on volunteer labor.

The Ames Public Library is one of the most visited public buildings in Ames. The Library does not have the resources for routine plant maintenance during the spring and summer months.

COMMENTS

Landscaping projects include the following:

- Removal of existing plants and shrubs
- Placement of a “weed barrier” and oak mulch on the southeast planting bed; installation of cobblestone appointments
- Planting of low maintenance vegetation such as wintergreen boxwoods, little bluestem ornamental grass, yews, daylilies, junipers
- Re-mulching the raised planters and planting of low maintenance vegetation
- Removal of existing shrubs and flower beds from the north side of the building; planting of low maintenance vegetation; installation of river gravel top dress

LOCATION

Ames Public Library, 515 Douglas – Map 5, location M-10

FISCAL YEAR PRIORITY		TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:							
Landscaping		25,000				25,000	
	TOTAL	25,000				25,000	
FINANCING:							
Local Option Sales Tax		25,000				25,000	
	TOTAL	25,000				25,000	

PROGRAM - ACTIVITY:
Community Enrichment

DEPARTMENT:
Library

ACCOUNT NO.

FLOOR COVERING REPLACEMENT

PROJECT STATUS: New

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

The current carpeting in the Library is 10-12 years old and is showing serious wear damage in high-traffic areas. Because 400,000 to 500,000 visitors come to the Library annually, the carpeting will continue to deteriorate in the next few years.

COMMENTS

Prior carpet replacement occurred after only 9-11 years of usage and annual foot traffic has greatly increased since that time.

LOCATION

Ames Public Library, 515 Douglas – Map 5, location M-10

FISCAL YEAR PRIORITY		TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:							1
Carpeting		180,000					180,000
	TOTAL	180,000					180,000
FINANCING:							
Local Option Sales Tax		180,000					180,000
	TOTAL	180,000					180,000

PROGRAM - ACTIVITY:
Community Enrichment

DEPARTMENT:
Library

ACCOUNT NO.

COMMUNITY ENRICHMENT - PUBLIC WORKS

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
1 City Hall Improvements	250,000	50,000	50,000	50,000	50,000	50,000	127
Total Expenditures	250,000	50,000	50,000	50,000	50,000	50,000	
REVENUES:							
CITY:							
Local Option Sales Tax	250,000	50,000	50,000	50,000	50,000	50,000	
Total Revenues	250,000	50,000	50,000	50,000	50,000	50,000	

CITY HALL IMPROVEMENTS

PROJECT STATUS: No Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

The City Hall Improvements program is for the replacement or repair of equipment, materials, and mechanical system components at City Hall.

As the City Hall facility begins to show signs of wear and tear, the atmosphere citizens have been proud of will deteriorate. This program provides for replacement of equipment and materials such as portions of the roof, the boiler and chiller parts, and major air conditioning units. In addition, vital mechanical system components will also be replaced under this program.

COMMENTS

Proposed schedule:

- 2007/08 Replace 10% of the heat pumps in the building; mechanical maintenance and repairs
- 2008/09 Replace the north and courtyard exterior doors; replace 10% of the heat pumps in the building; mechanical maintenance and repairs
- 2009/10 Replace 10% of the heat pumps in the building; mechanical maintenance and repairs
- 2010/11 Replace 10% of the heat pumps in the building; mechanical maintenance and repairs
- 2011/12 Replace 10% of the heat pumps in the building; mechanical maintenance and repairs

Future year projects will involve roof and boiler replacement.

A project to replace the south and east exterior doors of the building was identified in 2006/07. The historical significance of the City Hall building allows for (historical) grant eligibility for certain repairs/replacements done to the building. Therefore, grant funding is being sought for that project, and it is pending the outcome of that search. The same process will be utilized in 2008/09 when the north and courtyard doors are replaced.

LOCATION

City Hall (515 Clark Avenue) – Map 5, location L-10

FISCAL YEAR PRIORITY		1	1	1	1	1
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Construction	250,000	50,000	50,000	50,000	50,000	50,000
	TOTAL	50,000	50,000	50,000	50,000	50,000
FINANCING:						
Local Option Sales Tax	250,000	50,000	50,000	50,000	50,000	50,000
	TOTAL	50,000	50,000	50,000	50,000	50,000

PROGRAM - ACTIVITY:

Community Enrichment

DEPARTMENT:

Public Works

ACCOUNT NO.

030-7163-419

COMMUNITY ENRICHMENT - CITY MANAGER

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
1 Neighborhood Improvement Program	250,000	50,000	50,000	50,000	50,000	50,000	129
Total Expenditures	250,000	50,000	50,000	50,000	50,000	50,000	
REVENUES:							
CITY:							
Local Option Sales Tax	250,000	50,000	50,000	50,000	50,000	50,000	
Total Revenues	250,000	50,000	50,000	50,000	50,000	50,000	

DESCRIPTION/JUSTIFICATION

This program was originally designed to enhance the appearance of our neighborhoods with the addition of permanent physical improvements and to promote a greater sense of community through resident participation in neighborhood projects. The program focused solely on providing City grants to help residents accomplish those projects that they have identified as top priorities for their neighborhoods. Competitive proposals are solicited from neighborhood groups and are rated according to the following criteria approved by the City Council: public impact, neighborhood participation, safety, environment, housing, and public space. Residents were expected to provide a local match to these grants in the form of labor, materials, or cash.

Since the program was initiated in 1996/97, 96 neighborhood projects have been funded by the City, totaling \$273,156. Projects have included cul-de-sac, right-of-way and median landscaping; playground restoration and/or purchase; alleyway beautification; over 300 street trees planted; pond renovation; historic house plaques and house medallions; prairie restoration; construction of a neighborhood message center; construction of a shelter house in a neighborhood City park, park sidewalks and basketball court; landscaping of neighborhood entryways; installation of neighborhood barbecue grills; and a neighborhood clean-up day.

With the implementation of the Neighborhood Liaison Program, the City is committed to creating great neighborhoods with a sense of community. To complement this initiative, eligibility for these funds has been expanded beyond the original intent of the Neighborhood Improvement Grant Program to include such projects as sub-area planning elements or other support programs for neighborhood associations that are identified to bolster the development of strong, vibrant neighborhoods. In 2006-07, for example, the South Campus Neighborhood Association will use these funds to hire student interns to help eliminate City code violations in the neighborhood through education and mediation rather than through City enforcement.

FISCAL YEAR PRIORITY		1	1	1	1	1
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Construction	250,000	50,000	50,000	50,000	50,000	50,000
	TOTAL	50,000	50,000	50,000	50,000	50,000
FINANCING:						
Local Option Sales Tax	250,000	50,000	50,000	50,000	50,000	50,000
	TOTAL	50,000	50,000	50,000	50,000	50,000

PROGRAM – ACTIVITY:
Community Enrichment

DEPARTMENT:
City Manager’s Office

ACCOUNT NO.
030-0420-459

COMMUNITY ENRICHMENT - PLANNING & HOUSING

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
1 Downtown Facade Program	250,000	50,000	50,000	50,000	50,000	50,000	131
2 Southeast Entryway Improvements	888,000	888,000					132
Total Expenditures	1,138,000	938,000	50,000	50,000	50,000	50,000	
REVENUES:							
City:							
Local Option Sales Tax	99,000	99,000					
Hotel/Motel Tax	250,000	50,000	50,000	50,000	50,000	50,000	
City Sub-Total	349,000	149,000	50,000	50,000	50,000	50,000	
Other:							
Iowa D.O.T. Grant Funds	683,000	683,000					
Private Contributions	106,000	106,000					
Other Sub-Total	789,000	789,000					
Total Revenues	1,138,000	938,000	50,000	50,000	50,000	50,000	

DOWNTOWN FAÇADE IMPROVEMENT PROGRAM

PROJECT STATUS: No Change

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project was introduced in 2001/02 to facilitate private improvements to façades of the buildings in the Downtown area with a no-interest loan program. Downtown design guidelines were approved by the City Council in 2001 to ensure that the financial assistance for façade improvements influence improvements that are consistent with the historical character of Downtown. In order to qualify for these funds, improvements must be made to, at least, one of the following exterior elements: upper façades, store fronts, transoms, display windows, kick plates, entrances, signs, or awnings/canopies.

COMMENTS

To date, only three property owners have taken advantage of this program: Dayton Road Development Corporation at 413 Kellogg, Ames Silversmithing at 220 Main Street, and Antique Ames at 203-205 Main Street. Based on a recommendation from the Downtown Cultural District, the program is being transformed from a loan to a grant program. Downtown building owners can receive grant funds up to \$15,000 if a dollar-for-dollar match is provided to accomplish eligible façade elements.

LOCATION

Map 5, location M-11

FISCAL YEAR PRIORITY		¹	¹	¹	¹	¹
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Incentives (Loans or Grants)	250,000	50,000	50,000	50,000	50,000	50,000
	TOTAL	50,000	50,000	50,000	50,000	50,000
FINANCING:						
Hotel/Motel Tax	250,000	50,000	50,000	50,000	50,000	50,000
	TOTAL	50,000	50,000	50,000	50,000	50,000

PROGRAM - ACTIVITY:
Community Enrichment

DEPARTMENT:
Planning & Housing

ACCOUNT NO.
040-1030-459

SOUTHEAST ENTRYWAY IMPROVEMENTS

PROJECT STATUS: New

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project was originally included in the 2004-2009 CIP. Several initial improvements were completed during fiscal years 2005-06 and 2006-07, including seeding of prairie within the US 30 right of way immediately east of the Dayton Road overpass, as well as earthwork, drainage improvements and landscaping at the intersection of Dayton Avenue and SE 16th Street. The original improvements were financed through a combination of City funding (\$37,444), IDOT grant funding (\$49,882), and a cash match (\$15,592) from the South Ames Business Neighborhood (SABN). SABN also contributed \$142,500 of in-kind services towards the project.

COMMENTS

The new project is a continued partnership between the City of Ames and the South Ames Business Neighborhood (SABN) to complete the following new improvement features to the South East Entryway: installation of light columns, installation of wildflowers, and installation of a multi-use trail. The balance of the unspent public and private funding has now been pledged as a local match for a \$683,000 statewide transportation enhancement grant application to the IDOT. The balance of the unspent funding from the City is \$187,000 (\$99,000 from the previous project and \$88,000 of local funds (included in the G. O. Bonds sold for the Southeast 16th Street Paving and Bridge Replacement, page 79); the balance of the unspent funding from private funding is \$106,000 (\$46,000 from the previous project and a new pledge of \$60,000) for a total program budget of \$976,000.

Project Summary: FY 2007-08	<u>City of Ames</u> \$187,000	<u>SABN</u> \$106,000	<u>Iowa DOT</u> \$683,000	<u>Total</u> \$976,000
------------------------------------	----------------------------------	--------------------------	------------------------------	---------------------------

Project Schedule:

October-November 2007	Design Development
November-January 2008	Easement acquisition, Final design, plans, and specs
January – April 2008	Bidding, Award, Contract
April-October 2008	Site work, trails, column fabrication, and Install columns
October – December 2008	Project closeout

LOCATION

At U.S. Highway 30 interchange with Dayton Avenue, Map 9, location Q-14

FISCAL YEAR PRIORITY

	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Construction	838,000	838,000				
Engineering	50,000	50,000				
TOTAL	888,000	888,000				
FINANCING:						
Local Option Sales Tax	99,000	99,000				
Iowa DOT Grant	683,000	683,000				
South Ames Business Neighborhood	106,000	106,000				
TOTAL	888,000	888,000				

PROGRAM - ACTIVITY:
Community Enrichment

DEPARTMENT:
Planning & Housing

ACCOUNT NO.
030-0814-419
030-0815-419

INTERNAL SERVICES - FLEET SERVICES

PROJECT/REVENUE DESCRIPTION	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12	PAGE
EXPENDITURES:							
1 City Maintenance Facility Improvements	375,500	48,000	52,500	48,000	15,000	212,000	134
Total Expenditures	375,500	48,000	52,500	48,000	15,000	212,000	
REVENUES:							
Road Use Tax	93,875	12,000	13,125	12,000	3,750	53,000	
Water Utility Fund	93,875	12,000	13,125	12,000	3,750	53,000	
Sewer Utility Fund	93,875	12,000	13,125	12,000	3,750	53,000	
Fleet Services Fund	93,875	12,000	13,125	12,000	3,750	53,000	
Total Revenues	375,500	48,000	52,500	48,000	15,000	212,000	

BUILDING MAINTENANCE & IMPROVEMENTS

PROJECT STATUS: New

City of Ames, Iowa
Capital Improvements Plan

DESCRIPTION/JUSTIFICATION

This project is for major maintenance and improvements on the City's Maintenance Facility. This 40,000 square foot building (built in four phases from 1967 to 1997) provides the shop and office space for several City departments. Fleet Services uses 50% of the space and Public Works divisions of Street Maintenance, Traffic Sign & Signal, Parking Meter, Utility Maintenance, and Engineering Construction Inspection use the other 50%.

Roof replacements on two sections (east and middle) will be done in 07/08 and 09/10 @ \$40,000. The exterior block walls will be re-coated in 08/09 for \$10,000 with a water sealant to stop water/moisture from leaking through to the inside. This was originally done in 1999 and was to be re-coated every three years; however, no leakage has occurred yet. Bathroom fixtures and old plumbing will be upgraded in the men's locker room for \$2,500. The original door locks will be upgraded and re-keyed for \$32,000 to improve control to building access and security. Entrance enclosures will be built at the west and north walk-in doors over three years @ \$8,000 each year; these will provide better energy management for the building. The floor drain and grates in the fleet garage will be replaced in 10/11 for \$15,000 due to deteriorated steel and concrete. A \$200,000 addition to the building is proposed to combine the three separate shops, that now exist by division, into one isolated shop; where welding, grinding, cutting and other activities that create extreme noise and hazardous fumes can be confined and controlled. This will also reduce or prevent tool and equipment redundancies that may exist or be requested. The building's sprinkler system will be updated for \$8,000 and a watts backflow valve for \$4,000 will be required when the addition is built, or the sprinkler system modified.

COMMENTS

This building currently is the only facility the City has for the divisions that are domiciled there. There are no long-term plans for expansion, or additional facilities at other sites. Maintaining this facility is important to support these divisions and their ability to provide essential services.

LOCATION

City Maintenance Facility, 2207 Edison Street - East Ames north of Lincoln Way just west of Dayton Ave – Map 6, location P-11

FISCAL YEAR PRIORITY		1	1	1	1	1
	TOTAL	2007/08	2008/09	2009/10	2010/11	2011/12
COST:						
Roof Replacement (Phase I / Phase II)	80,000	40,000		40,000		
Construct entrance enclosures	24,000	8,000	8,000	8,000		
Exterior Wall Recoat	10,000		10,000			
Replace door locks, ext. & interior	32,000		32,000			
Replace plumbing fixtures	2,500		2,500			
Replace shop floor grates	15,000				15,000	
Building addition – shared shop	200,000					200,000
Upgrade sprinkler system	8,000					8,000
Install watts backflow valve on sprinkler sys	4,000					4,000
TOTAL	375,500	48,000	52,500	48,000	15,000	212,000
FINANCING:						
Road Use Tax	93,875	12,000	13,125	12,000	3,750	53,000
Water Utility Fund	93,875	12,000	13,125	12,000	3,750	53,000
Sewer Utility Fund	93,875	12,000	13,125	12,000	3,750	53,000
Fleet Services Fund	93,875	12,000	13,125	12,000	3,750	53,000
TOTAL	375,500	48,000	52,500	48,000	15,000	212,000

PROGRAM - ACTIVITY:

Internal Services

DEPARTMENT:

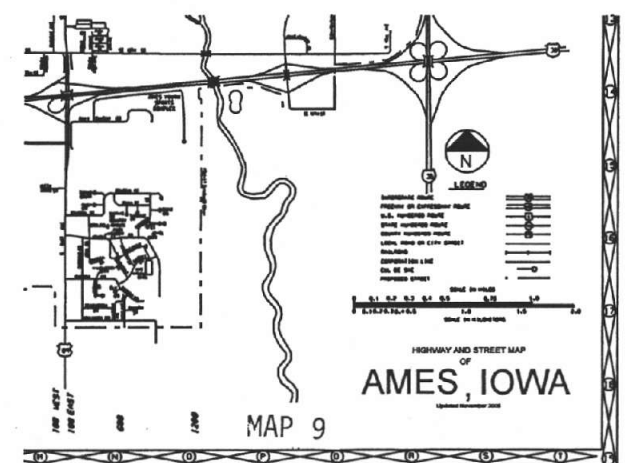
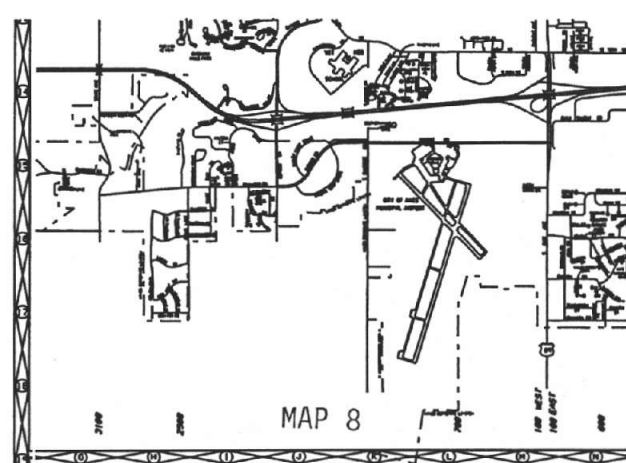
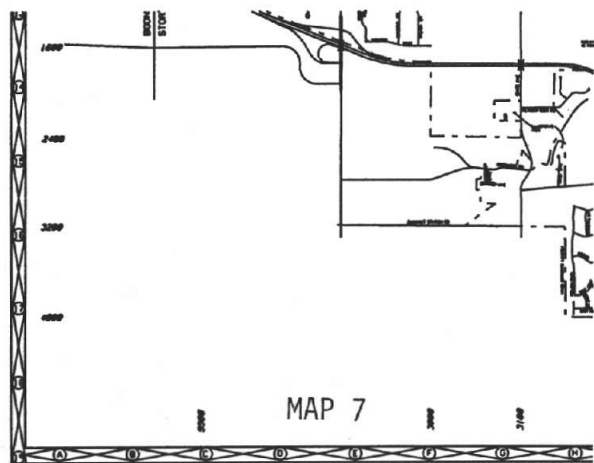
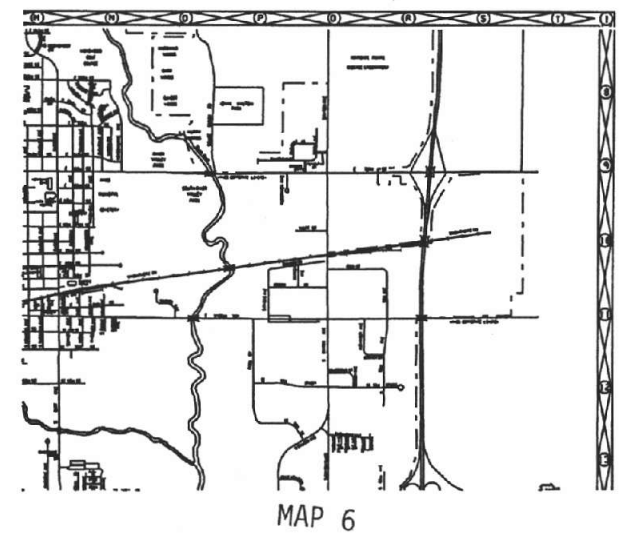
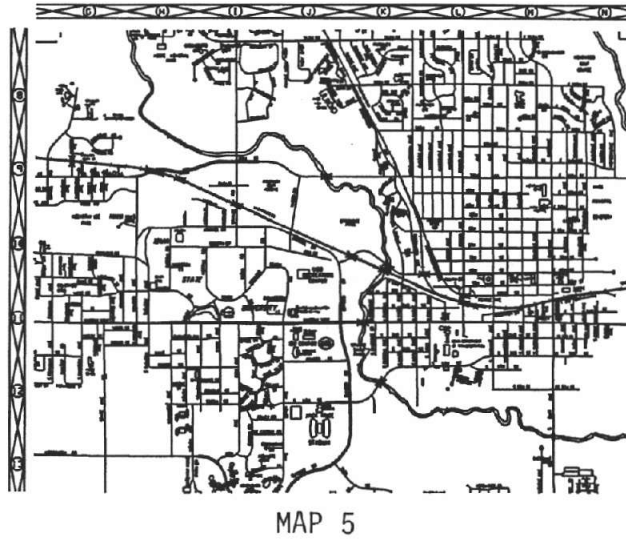
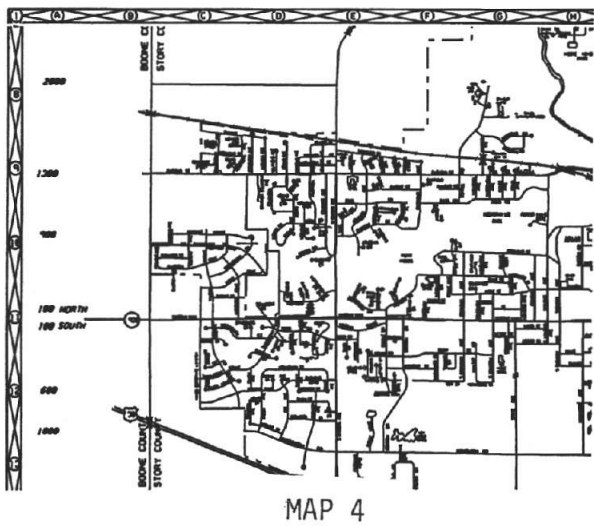
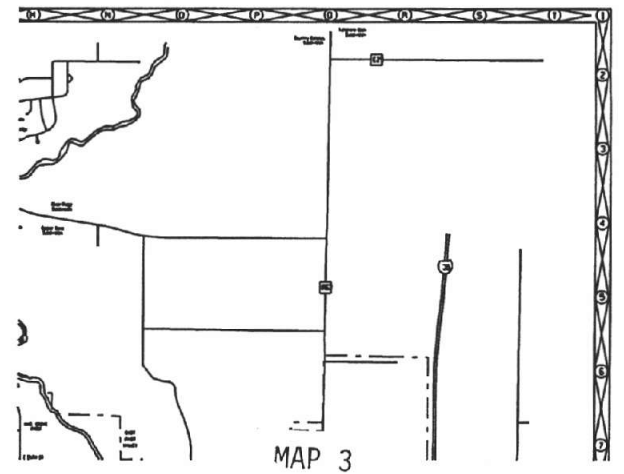
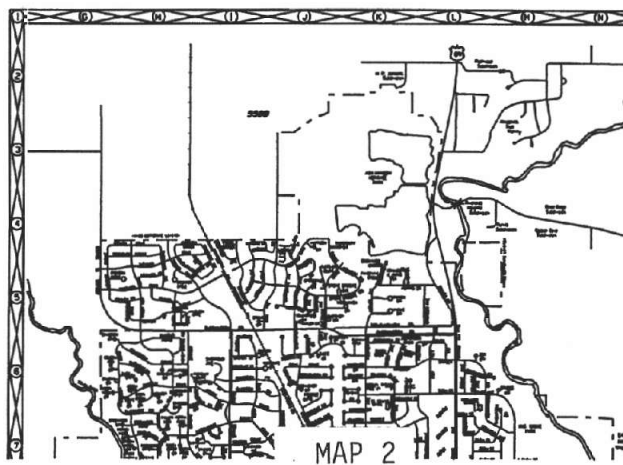
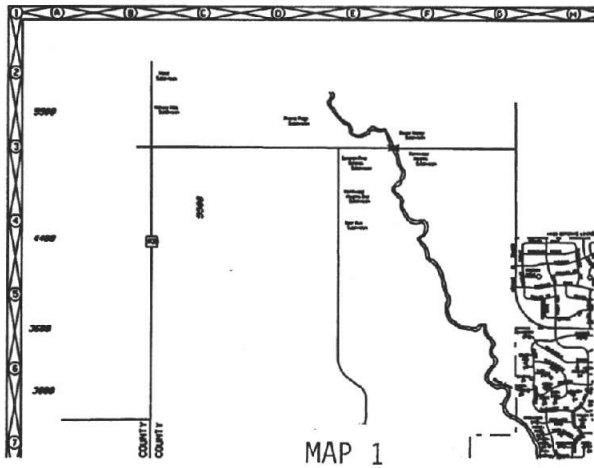
Fleet Services

ACCOUNT NO.

810-2770-529



Two separate Neighborhood Improvement Program projects provided 40 trees initially, then 26 trees throughout the Old Town Neighborhood. The trees are now 6-9 years old and provide beautiful color and shade for the neighborhood.



1 (A) (B) (C) (D) (E) (F) (G)

MAP 1

2
3
4
5
6
7

5500

4400

3600

3000

Wood
Subdivision

Hickory Hills
Subdivision

Prairie Ridge
Subdivision

Squaw Valley
Subdivision

Cameron Pine
Estates
Subdivision

Northwood
Heights
Subdivision

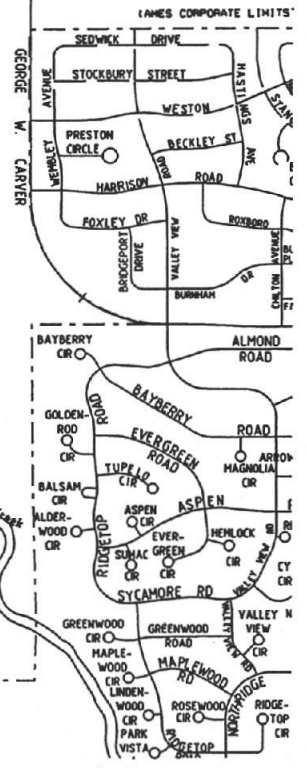
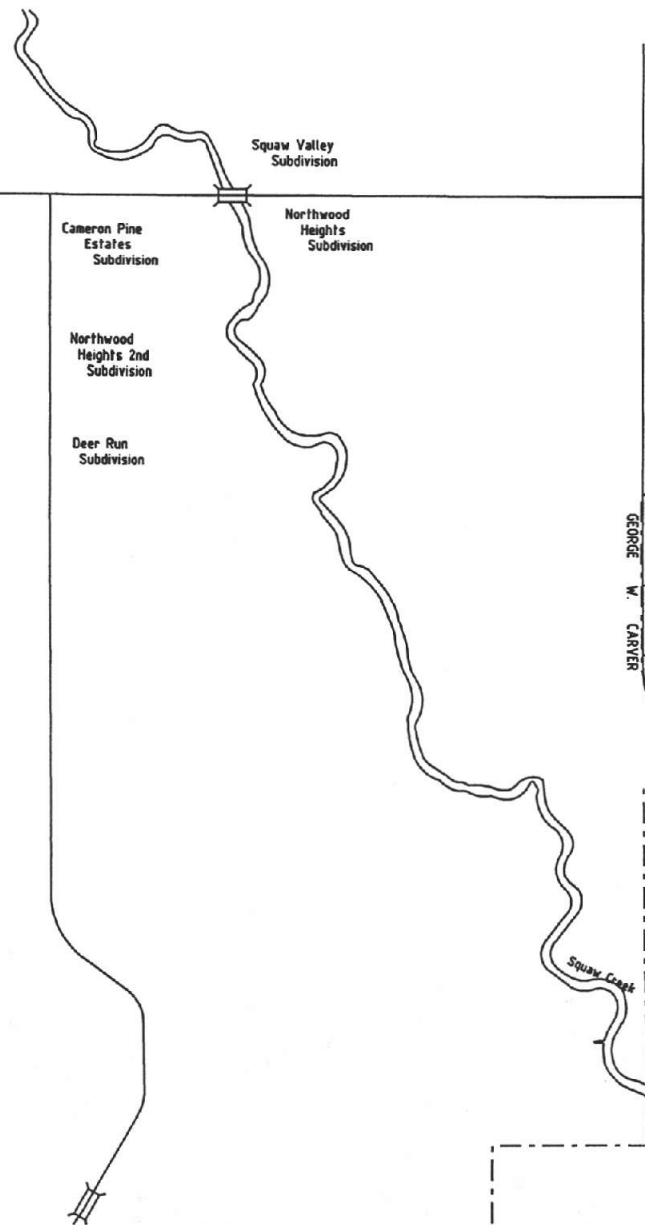
Northwood
Heights 2nd
Subdivision

Deer Run
Subdivision

R38

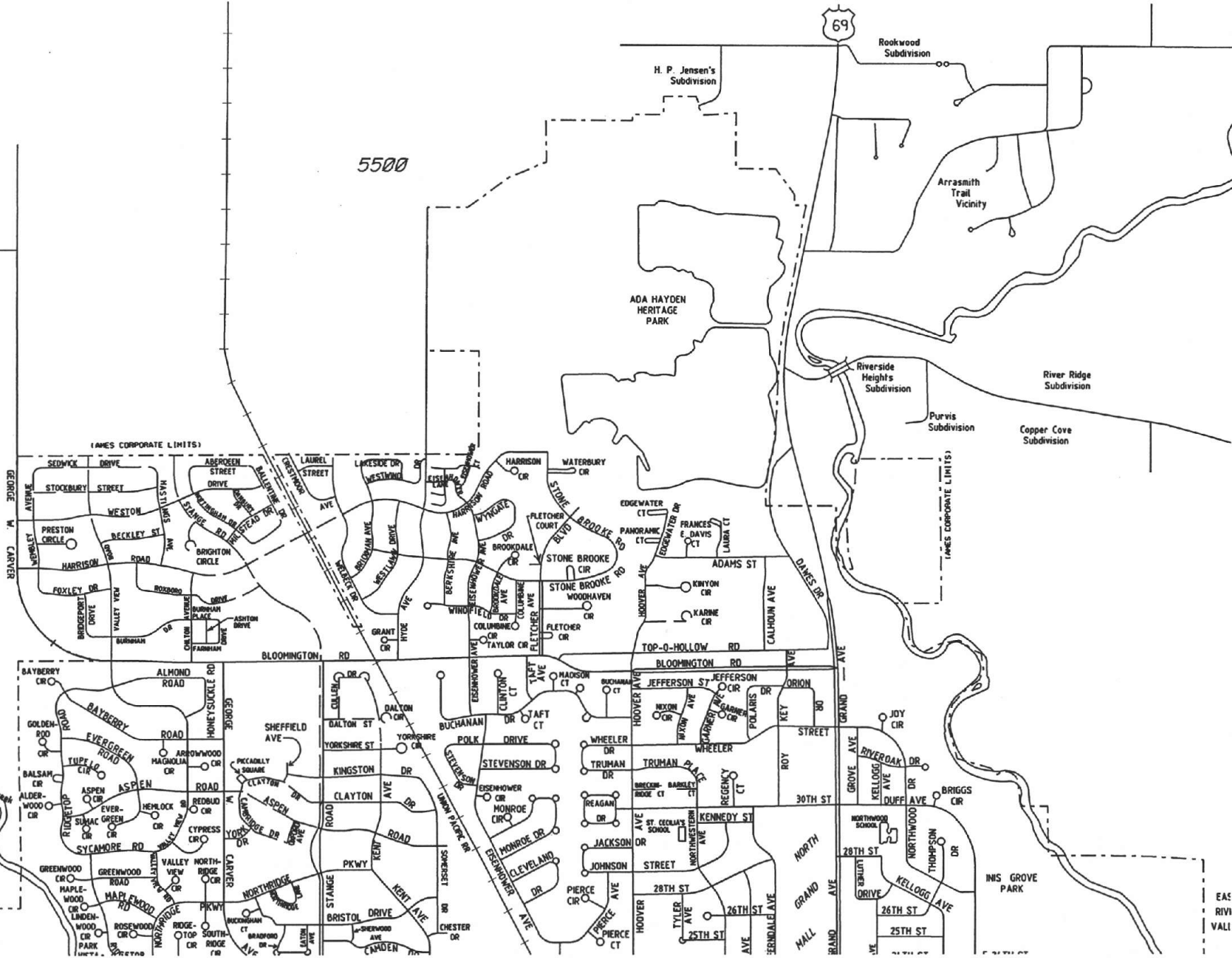
5500

COUNTY
COUNTY

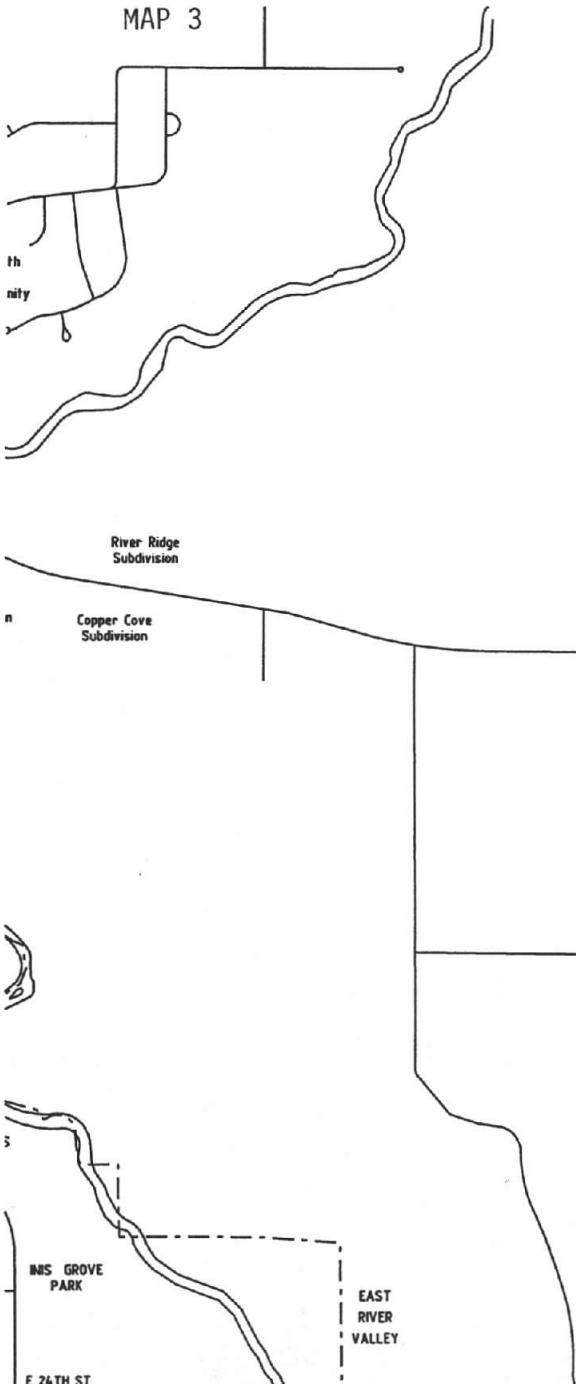


MAP 2

5500



MAP 3



Country Estates Subdivision

Tullamore Glen Subdivision

E29

R63

35

EAST RIVER VALLEY

MAP 4

2000

1300

900

100 NORTH

100 SOUTH

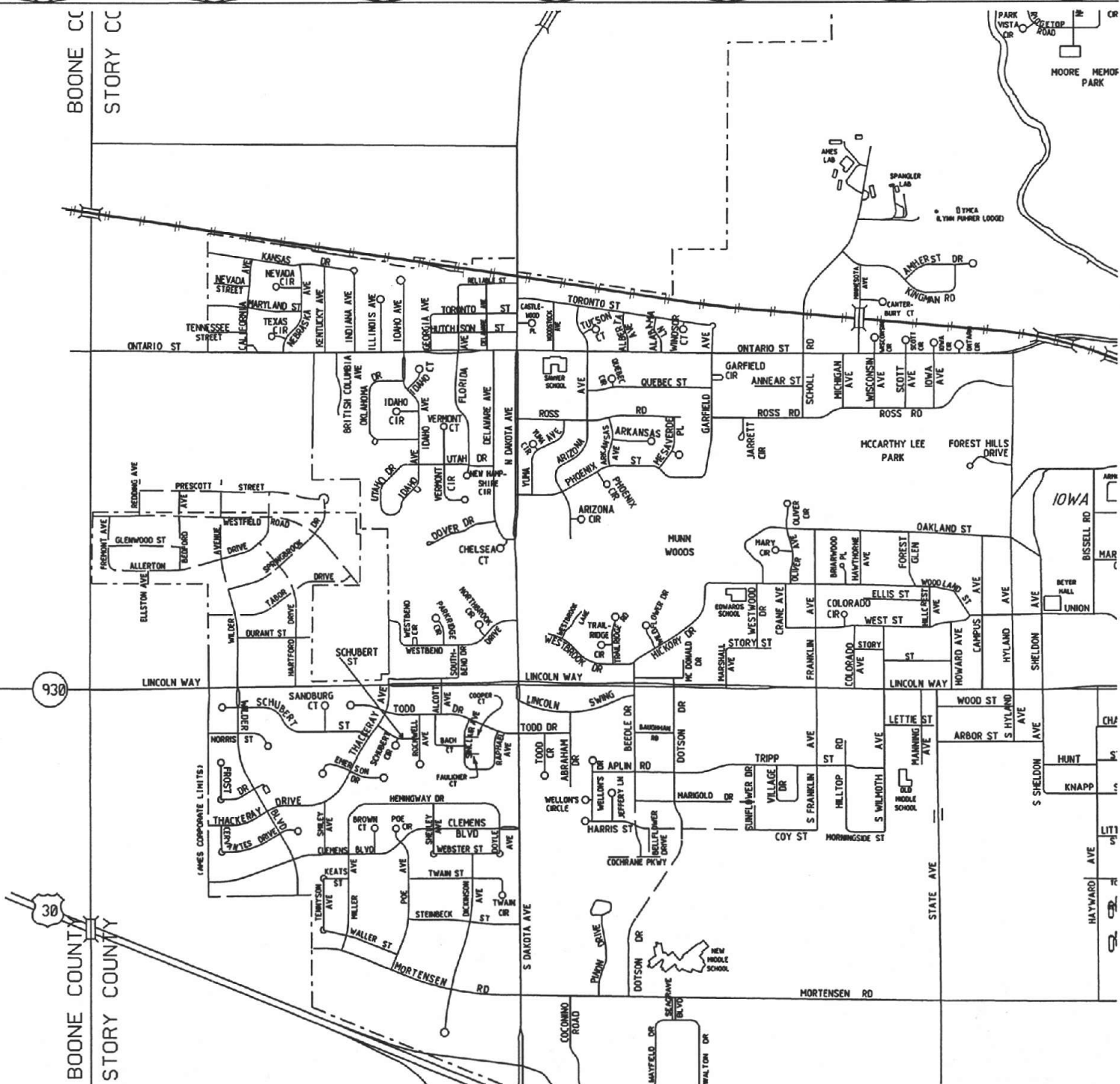
600

1000

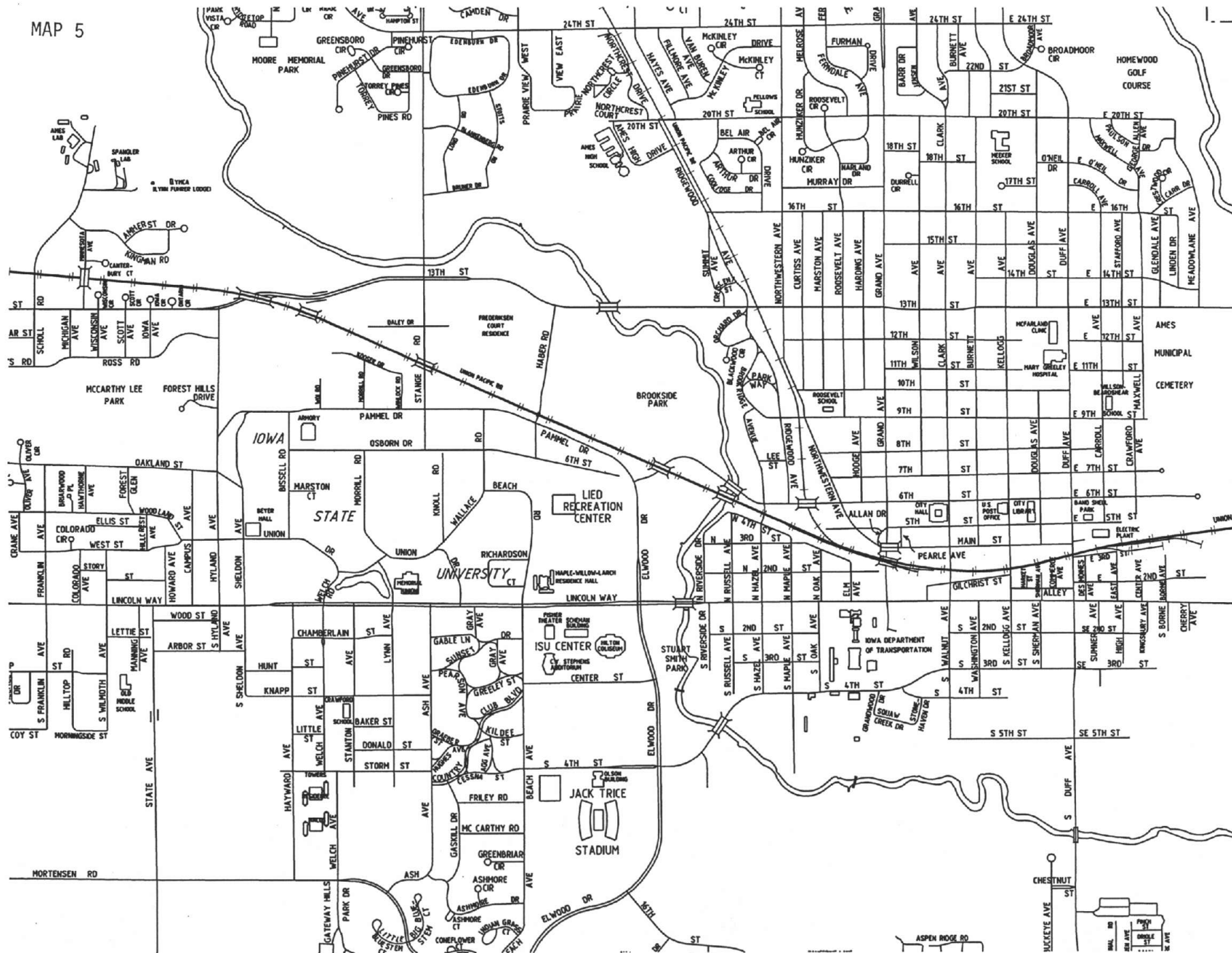
8
9
10
11
12
13

BOONE CC
STORY CC

BOONE COUNTY
STORY COUNTY



MAP 5



8

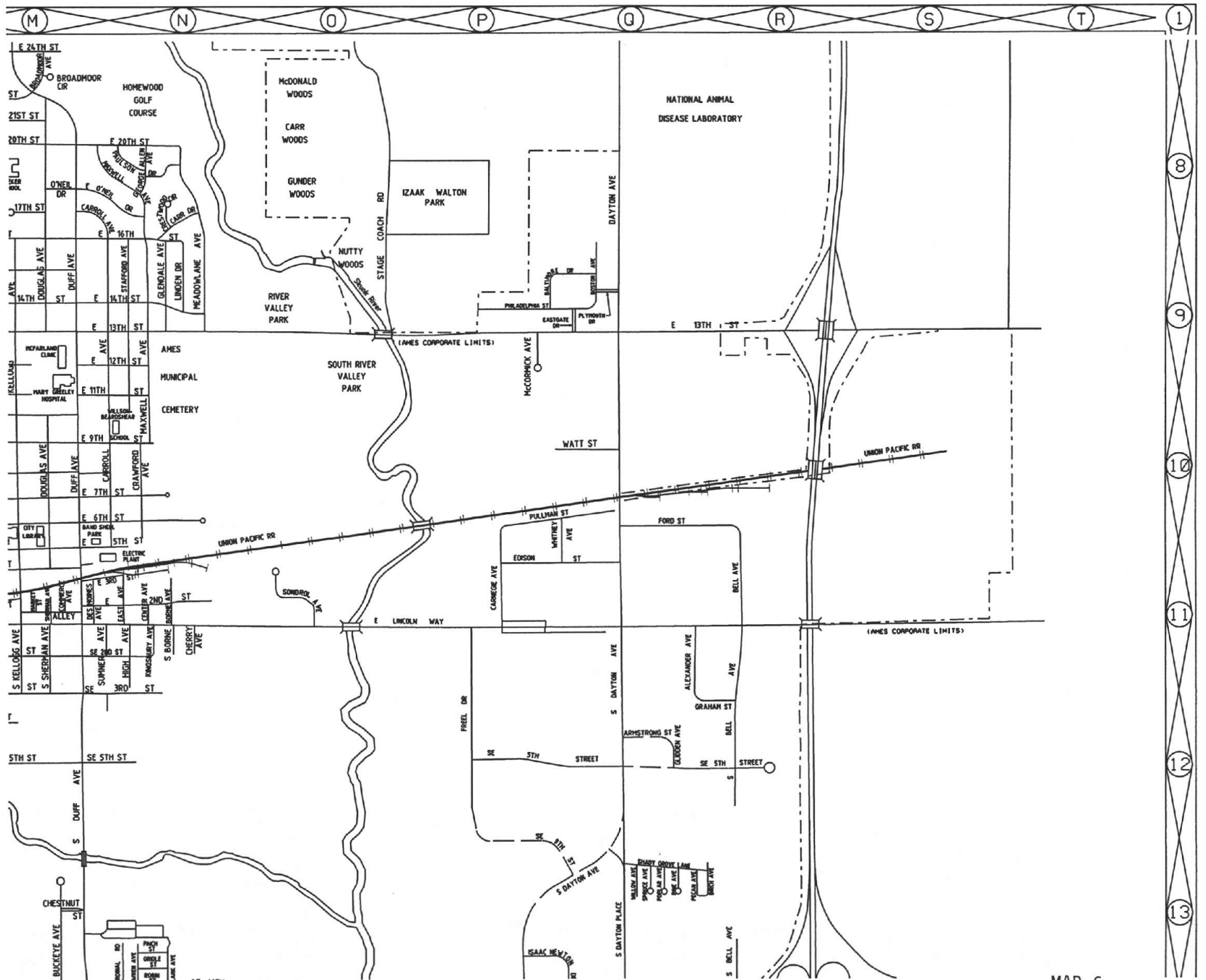
9

10

11

12

13



MAP 7

BOON
STOR

142

AMES / E
KE AREA

1600

2400

3200

4000

5500

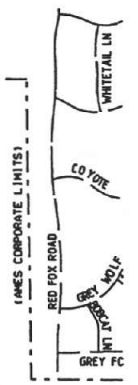
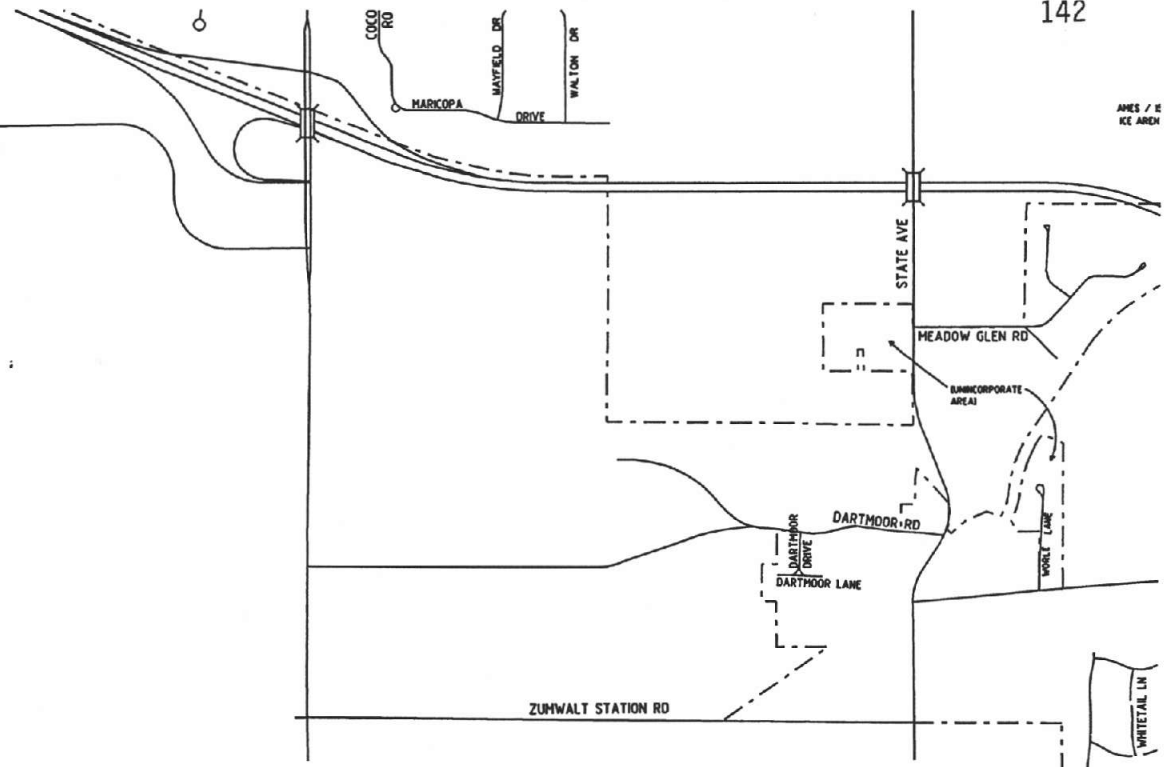
4500

3800

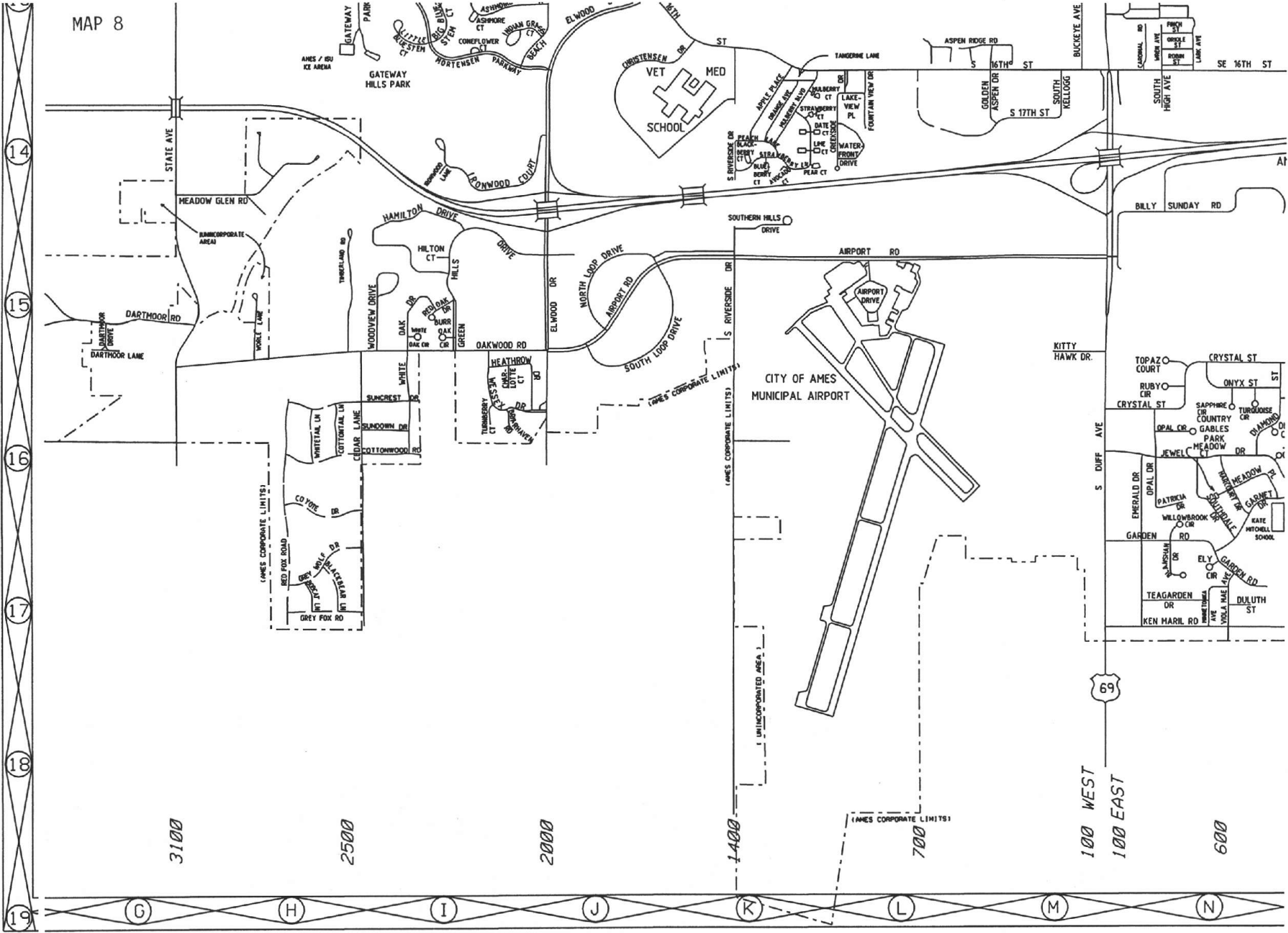
3100

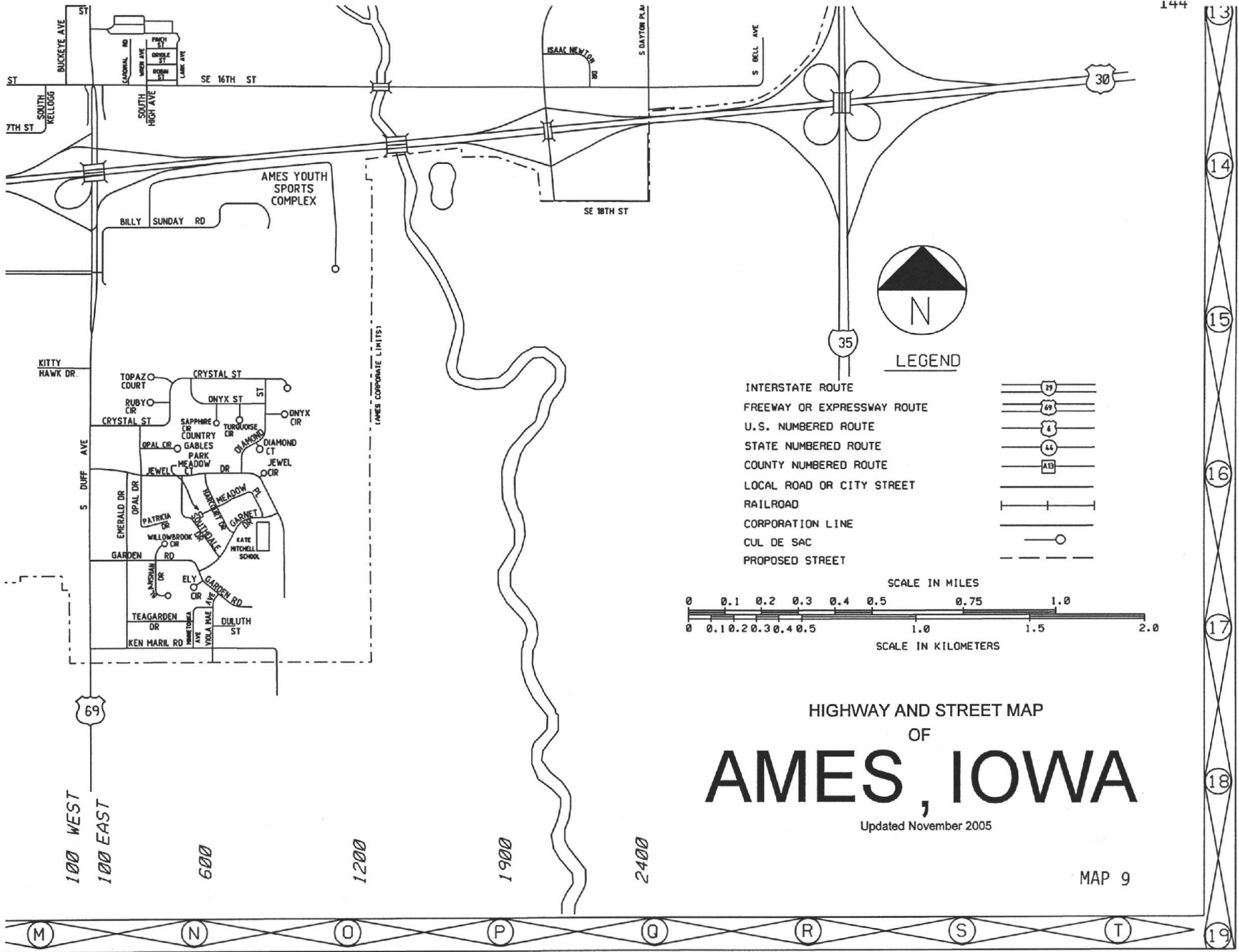
13
14
15
16
17
18
19

A B C D E F G H



MAP 8

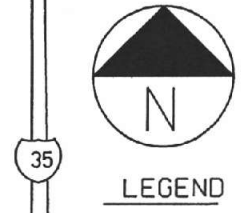




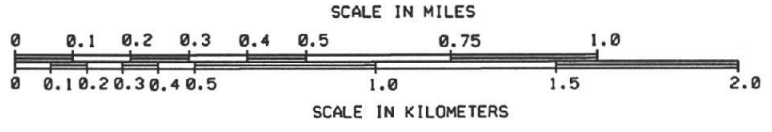
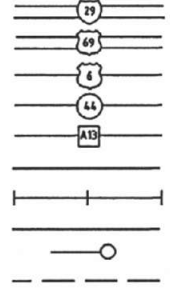
ST
BUCKEYE AVE
ST
SOUTH KELLOOG
7TH ST
SOUTH HIGH AVE
SE 16TH ST
AMES YOUTH SPORTS COMPLEX
BILLY SUNDAY RD
KITTY HAWK DR.
TOPAZ COURT
RUBY CIR
CRYSTAL ST
SAPPHIRE CIR
COUNTRY GABLES PARK MEADOW DR
JEWEL DR
EMERALD DR
OPAL DR
PATRICIA DR
WILLOWBROOK CIR
GARDEN RD
SANSHAN DR
ELY CIR
TEAGARDEN DR
KEN MARL RD
CRYSTAL ST
DNYX ST
SAPPHIRE CIR
TURQUOISE CIR
DIAMOND CT
JEWEL CIR
MEADOW DR
SUNNYSIDE DR
GARNET DR
LATE MITCHELL SCHOOL
VIOLET AVE
DULUTH ST

(AMES CORPORATE LIMITS)

ISAAC NEWTON DR
S DAYTON P.L.A.
S BELL AVE
SE 18TH ST



- INTERSTATE ROUTE
- FREEWAY OR EXPRESSWAY ROUTE
- U.S. NUMBERED ROUTE
- STATE NUMBERED ROUTE
- COUNTY NUMBERED ROUTE
- LOCAL ROAD OR CITY STREET
- RAILROAD
- CORPORATION LINE
- CUL DE SAC
- PROPOSED STREET



HIGHWAY AND STREET MAP
OF
AMES, IOWA

Updated November 2005

MAP 9

100 WEST
100 EAST

600

1200

1900

2400

M N O P Q R S T

13
14
15
16
17
18
19