

CAPITAL IMPROVEMENT PROGRAM

2023-2027



2023-2027

CAPITAL IMPROVEMENT PROGRAM

INTRODUCTION

The capital improvement program serves as a guide for the provision of public improvements and outlines the timing and financing of projects for a five-year period. The capital budget is a significant portion of the fiscal year 2024 budget. It includes the costs associated with the 2023 capital projects, the first year of the 2023-2027 Capital Improvement Program.

The capital improvement program identifies capital needs, establishes priorities and identifies secured and potential funding sources. Key resources used in formulating the capital improvement program include *The Ankeny Plan 2040*, as well as professional studies of facilities, transportation, utilities and drainage needs.

The capital improvement program neither appropriates funds nor authorizes projects. The city council must act to initiate projects. Proceedings to initiate capital improvement program projects are presented to the council when sources of funding are available and the project is set for design and/or construction.

Annually, staff performs an extensive evaluation of capital project requirements, updates the adopted capital improvement program document, incorporates recommended changes, and submits the revised program to the city council for consideration, modification, and adoption as a part of the annual budget process.

During the preparation of the recommended capital improvement program, city staff employs judgment to identify which projects can be accomplished within a given year and within the city's financial constraints. As would be expected, project expenditures and revenue estimates for the earlier years are more precise than the later years.

FISCAL OVERVIEW

The 2023-2027 Capital Improvement Program reflects a \$35,162,889 increase in project expenditures over last year's program due to large increases in the bridge/box culvert, park facilities, storm water, streets and traffic control categories. The bridge/box culvert, streets and traffic control categories have grown as a result of adding projects to the capital improvement program, specifically the NE 18th Street Bridge over Interstate 35, NE 62nd Street RCB Culvert for Four Mile Creek Tributary, North Ankeny Boulevard Improvements – 1st Street to 11th Street, South Ankeny Boulevard Improvements – SE Peterson Drive to 1st Street and the Fiber Optic Network Upgrade. The increase in park facilities is related to adding pickleball courts to the Des Moines Street Parks project and the addition of the Prairie Ridge Sports Complex Tennis Courts Overlay project to the program. The increase in storm water is related to the

potential for Natural Resources Conservation Service (NRCS) grant funding for the construction of several storm water projects.

GOALS

The city council's goals provide policy guidance for the evaluation of capital improvement program projects. These goals include:

- Upgrade essential infrastructure
- Exercise financial discipline
- Deliver exceptional service
- Enhance quality of life
- Strengthen community engagement
- Ensure economic vitality
- Provide regional leadership
- Become the employer of choice

In addition to these goals, *The Ankeny Plan 2040* serves as the basis for many of the city's policy decisions related to a wide range of issues including capital projects. *The Ankeny Plan 2040* community goals related to the 2023-2027 Capital Improvement Program include:

1. Provide infrastructure investments that correspond to the community's growth potential;
2. Ensure that development within Ankeny and on Ankeny's periphery demonstrates environmental responsibility and adheres to the city's long-term growth goals;
3. Assure that the transportation system is adequate to meeting future demands; and
4. Encourage the development of an interconnected system of parks, trails and civic parkways and maintain a high level of service for recreational facilities as new neighborhoods emerge.

PROCESS

The capital improvement program process includes the submittal of request forms that gather information about capital projects including information on the department, project type and purpose, funding sources, underlying studies, and reasons for the project's timing. This information is combined with other factors such as relevance to city council goals, method of financing and whether or not it is a new or replacement project.

The projects are then evaluated based on the information provided on the forms. The following criteria may be considered when evaluating capital projects:

- Meets legal mandates
- Reduces hazards and improves public safety
- Advances a council goal or priority

- Improves efficiency
- Maintains standards of service
- Supports economic development
- Improves services and convenience
- Affordability
- Improves the quality of life or aesthetic values

These criteria are used as general guidelines that help determine priorities among the capital project requests. Projects are then evaluated and presented to the city council for consideration based on priorities and financial guidelines.

Since the 2023 capital improvement program projects will become part of the adopted fiscal year 2024 budget, the emphasis in the capital improvement program process is on the 2023 capital program. The projects for the remaining four years of the program become part of the city’s long-term financial program. Although not an official part of the capital improvement program, an overall summary is included that contains an additional five years of high priority projects.

PROGRAM OVERVIEW

For 2023-2027, the capital improvement program totals \$200,022,000. Of this total, 57% is identified for transportation projects, 33% for municipal utilities (water, sewer and storm water) projects, 5% for park facilities, 4% for municipal buildings and 1% for sidewalks/trails.

Capital budget requirements for 2023 total \$58,980,000. Capital spending authorizations by project category for the upcoming year include:

Bridge/Box Culvert	\$165,000	0.28%
Municipal Buildings	1,395,000	2.36%
Park Facilities	4,985,000	8.45%
Sanitary Sewers	4,582,000	7.77%
Sidewalks/Trails	535,000	0.91%
Storm Water	2,955,000	5.01%
Streets	23,124,000	39.21%
Traffic Control	1,655,000	2.81%
Water Mains	8,222,000	13.94%
Water Towers/Storage	11,362,000	19.26%

For additional information see the Category Summary and Projects by Category reports in Section 3 of the capital improvement program.

FINANCIAL PLAN

The program represents a concerted effort to ensure that needed capital projects are in place in a timely manner to accommodate growth and development. Staff has worked to mitigate the impact that debt service requirements have on the debt service levy by careful review of the need for projects and the timing of projects.

The financial plan presents a diversified approach to funding the 2023-2027 Capital Improvement Program with 63% coming from sources other than property taxes. The plan focuses on finding revenue sources from outside the community to lessen the burden on taxpayers and aggressively seeks partnerships for enhancing the city's infrastructure. The capital improvement program financial plan relies on regular general obligation debt with substantial reinvestment in infrastructure. Typically, any infrastructure reinvestment, such as street rehabilitation, is funded primarily by property taxes from the debt service levy.

Below is a summary of the funding sources for the 2023-2027 Capital Improvement Program.

Funding Source	Revenue	% of Revenue
Property Taxes	\$74,290,000	37%
Grants and Intergovernmental	21,025,661	11%
Tax Increment Financing	13,415,500	7%
Municipal Utilities Revenues	54,796,000	27%
Miscellaneous Revenues	36,494,839	18%
Total	\$200,022,000	100%

For additional information see the Funding Source Summary and Projects by Funding Source reports in Section 3 of the capital improvement program.

PROPERTY TAXES

Property taxes, specifically those collected through the city's debt service levy, are the largest source of revenue for the capital improvement program representing \$74,290,000, or 37%, of the overall financial plan. Property tax revenue is used to make principal and interest payments on general obligation debt issued by the city to pay for infrastructure projects.

There are six types of general obligation debt issued by the city with all types backed by the full faith and credit of the city's taxing authority:

1. Regular general obligation debt—debt service levy
2. Water-abated general obligation debt—reimbursement received from water fund
3. Sewer-abated general obligation debt—reimbursement received from sewer fund
4. Storm water-abated general obligation debt—reimbursement received from storm water fund

5. Tax increment financing (TIF)-abated general obligation debt—reimbursement received from tax increment financing fund
6. Referendum approved general obligation debt—additional debt service levy authority for capital projects approved by a vote of a super-majority of voters

GRANTS AND INTERGOVERNMENTAL

Each year staff looks for opportunities outside of the normal funding mechanisms (property taxes and utility rates) to assist with the construction of infrastructure projects. These opportunities can include awards of federal and state grants, regional resources, or assistance from other governments. The proposed capital improvement program financial plan identifies \$21,025,661 to be received from grant awards or intergovernmental assistance, representing 11% of all revenue sources.

The projects most dependent upon grants and intergovernmental support are the South Ankeny Boulevard Improvements – SE Peterson Drive to 1st Street, NE Delaware Avenue Reconstruction – NE 5th Street to NE 18th Street, SW Oralabor Road and SW State Street Intersection Improvements and North Ankeny Boulevard Improvements – 1st Street to 11th Street. Staff has secured \$10.12 million from the Iowa Department of Transportation and \$4.58 million from the Des Moines Area Metropolitan Planning Organization (MPO) for these projects.

For 2023, staff has secured \$1.67 million from the Iowa DOT and \$2.61 million from the Des Moines Area MPO for various transportation projects with the largest being the NE Delaware Avenue Reconstruction – NE 5th Street to NE 18th Street and the SW Oralabor Road and SW State Street Intersection Improvements. In addition, \$1.35 million is anticipated from the Iowa Finance Authority, Iowa Department of Agriculture and Land Stewardship and Polk County for the SE Creekview Drive Wetland.

TAX INCREMENT FINANCING

Of the five funding sources, \$13,415,500, or 7%, is being financed through TIF abatement. The Uptown Parking Improvements are planned for construction in 2023. This project is located within the Ankeny 1991 Urban Renewal Area.

MUNICIPAL UTILITIES

The municipal utilities (water, sewer and storm water) help support numerous infrastructure projects to ensure each utility can adequately provide service to Ankeny's utility customers. Resources from the utility funds make up \$54,796,000, or 27%, of the capital improvement program financial plan.

Projects within the annual utility programs for 2023 include:

- NW Northlawn Area utility improvements;
- Sanitary sewer spot repairs, manhole repairs and slip lining; and

- Storm water projects include small open cut repairs to storm sewers and/or structures at various locations; repairs to flow control structures at various locations; erosion repairs at SW Ordnance Road and SW State Street and NW Greenwood Street; cost share to repair/replace the culvert under SW Ankeny Road; and survey, analysis and design of streambank repairs and bioretention cells located along Saylor Creek.

Major utility projects planned for 2023 construction include the Four Mile Creek Trunk Sewer, NE Crestmoor Sanitary Sewer Replacement, High Trestle Trail Channel Stabilization, SE Creekview Drive Wetland, High Trestle Trail Transmission Main, South Ankeny Boulevard Transmission Main and Northwest Water Tower

MISCELLANEOUS REVENUES

The financial plan includes contributions from miscellaneous sources totaling \$36,494,839, or 18%, of the 2023-2027 Capital Improvement Program. This includes capital project fund cash balances, capital reserve fund cash balances, civic trust fund contributions, hotel/motel tax fund revenues, park dedication fund cash balances, private contributions, road use tax fund revenues and special assessment revenues.

CONCLUSION

This document represents the culmination of a systematic process employed by the city council and staff to develop a five-year program of infrastructure projects critical to the growth of the Ankeny community.

Projects proposed for completion from 2023 through 2027 will sustain existing infrastructure and support the expansion of new economic development opportunities. It is noted, however, that a significant number of projects will need to be considered in the future. With this in mind, the capital improvement program represents a balanced approach, making prudent investments while targeting construction in areas essential to sustaining Ankeny's commitment to attracting businesses, managing growth, and expanding the quality of life.

Section 1

2023-2027 Capital Improvement Program

2023 CIP Projects by Funding Source

Project	Project #	2023	General Obligation Bonds				Revenue Bonds		Miscellaneous					
			Debt Service Levy	Storm Water	Tax Increment Financing	Referendum	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Road Use Tax	Capital Reserve	Other
Annual Park Development Program	PRK-00-002	\$ 450,000	\$ 365,000						\$ 85,000					
Annual Sidewalk/Trail Construction Program	SDW-00-001	535,000	210,000									325,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	745,000							745,000					
Annual Storm Water Replacement Program	STM-00-001	450,000							450,000					
Annual PCC Street Patching Program	STR-00-001	1,490,000	1,490,000											
Annual Asphalt Street Resurfacing Program	STR-00-002	475,000	475,000											
Annual Pavement Preservation Program	STR-00-003	350,000	350,000											
Annual Street Replacement Program	STR-00-004	1,450,000										1,450,000		
Annual Traffic Signal Improvement Program	TRF-00-001	1,315,000	875,000						40,000			400,000		
Annual Water Main Replacement Program	WTM-00-001	765,000							765,000					
Fire Station No. 4	BLD-20-002	1,080,000	700,000						150,000				230,000	
Lakeside Center Renovations	BLD-21-001	265,000											265,000	
Public Works Satellite Salt Storage Facility	BLD-21-002	50,000										50,000		
NE Frisk Drive Bridge over Deer Creek	BRG-22-001	90,000	90,000											
NE 62nd Street RCB Culvert for Four Mile Creek Tributary	BRG-23-001	75,000	75,000											
Des Moines Street Parks, including Pickleball Courts (12)	PRK-21-002	2,490,000												2,490,000
High Trestle Trail Experience Park	PRK-22-005	700,000							400,000	300,000				
Cherry Glen Ballfield	PRK-22-006	625,000							500,000					125,000
Prairie Ridge Sports Complex Tennis Courts Overlay	PRK-23-001	720,000	260,000						100,000					360,000
Otter Creek Trunk Sewer - Phase 4	SNS-12-001	252,000							252,000					
Four Mile Creek Trunk Sewer	SNS-20-001	2,765,000							2,765,000					
Trestle Ridge Trunk Sewer Cost Share	SNS-22-001	300,000							300,000					
NE Crestmoor Sanitary Sewer Replacement	SNS-22-002	520,000							520,000					
Four Mile Creek Channel Stabilization - NE 47th Street to NE 54th Street	STM-20-001	65,000							65,000					
High Trestle Trail Channel Stabilization	STM-20-002	480,000							480,000					
Tributary to Four Mile Creek Channel Stabilization	STM-20-004	250,000		250,000										
Westwinds Storm Sewer Extension	STM-21-002	210,000							210,000					
SE Creekview Drive Wetland	STM-22-001	1,500,000								1,350,000				150,000
NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	STR-14-006	5,675,000	2,170,000						1,750,000	1,500,000				255,000
North Ankeny Boulevard and 18th Street Intersection Improvements	STR-18-001	440,000	240,000						200,000					
NW 36th Street Asphalt Overlay - NW Weigel Drive to NW Irvinedale Drive	STR-19-004	115,000	115,000											
SW Oralabor Road and SW Edgewood Lane Intersection Improvements	STR-19-006	200,000	50,000						150,000					
NW 18th Street Reconstruction - NW Ash Drive to North Ankeny Boulevard	STR-20-004	5,400,000	5,400,000											
NW 36th Street Widening - NW Ash Drive to North Ankeny Boulevard	STR-20-005	125,000	125,000											
SW Oralabor Road and SW State Street Intersection Improvements	STR-20-008	3,679,000							1,927,913	1,751,087				
SW State Street Reconstruction - SW Ordinance Road to West 1st Street (Southbound Lanes)	STR-21-001	1,825,000								1,825,000				
NW Irvinedale Drive and NW 18th Street Intersection Improvements	STR-21-004	100,000	100,000											
Uptown Parking Improvements	STR-21-006	410,000				272,000				138,000				
NW Weigel Drive Asphalt Overlay - NW 18th Street to NW 36th Street	STR-22-002	130,000	130,000											
North Ankeny Boulevard Improvements - 1st Street to 11th Street	STR-23-001	500,000	250,000						250,000					
NW State Street Extension Preliminary Design	STR-23-004	500,000	500,000											
South Ankeny Boulevard Improvements - SE Peterson Drive to 1st Street	STR-23-005	200,000	200,000											
SW Magazine Road and SW State Street Intersection Capacity Improvements	STR-23-006	60,000	60,000											
Interstate 35 and SE Corporate Woods Drive Interchange Justification Report	TRF-21-001	100,000							50,000			50,000		
Fiber Optic Network Upgrade	TRF-23-001	200,000	200,000											
SE Corporate Woods Drive and SE Crosswinds Drive Traffic Signal	TRF-23-002	40,000	40,000											
High Trestle Trail Transmission Main	WTM-17-001	4,254,000								4,254,000				
South Ankeny Boulevard Transmission Main	WTM-18-001	2,950,000					2,950,000							
NE 36th Street and NE 38th Street Water Main Loop	WTM-21-009	253,000								253,000				
Northwest Water Tower	WTT-19-002	10,945,000					10,945,000							
SE Delaware Ground Storage Tank Repaint	WTT-20-001	367,000								367,000				
SE Magazine Ground Storage Tank Repaint	WTT-20-002	50,000								50,000				
		\$ 58,980,000	\$ 14,470,000	\$ 250,000	\$ 272,000	\$ -	\$ 13,895,000	\$ -	\$ 5,677,913	\$ 17,965,087	\$ 300,000	\$ 2,275,000	\$ 495,000	\$ 3,380,000

2023 Bond Issue Project Costs	\$ 14,992,000
Cost of Issuance	208,000
Projected 2023 Bond Issue Total	\$ 15,200,000

2023-2027 Capital Improvement Program

2024 CIP Projects by Funding Source

Project	Project #	2024	General Obligation Bonds				Revenue Bonds		Miscellaneous					
			Debt Service Levy	Storm Water	Tax Increment Financing	Referendum	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Road Use Tax	Capital Reserve	Other
Annual Park Development Program	PRK-00-002	\$ 445,000	\$ 365,000							\$ 80,000				
Annual Sidewalk/Trail Construction Program	SDW-00-001	535,000	210,000									325,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	1,130,000								1,130,000				
Annual Storm Water Replacement Program	STM-00-001	450,000								450,000				
Annual PCC Street Patching Program	STR-00-001	1,425,000	1,425,000											
Annual Asphalt Street Resurfacing Program	STR-00-002	475,000	475,000											
Annual Pavement Preservation Program	STR-00-003	375,000	375,000											
Annual Street Replacement Program	STR-00-004	1,725,000	1,725,000											
Annual Traffic Signal Improvement Program	TRF-00-001	990,000	740,000									250,000		
Annual Water Main Replacement Program	WTM-00-001	625,000								625,000				
Fire Station No. 4	BLD-20-002	6,270,000											6,270,000	
Public Works Satellite Salt Storage Facility	BLD-21-002	475,000										475,000		
SE Frisk Drive RCB Culvert for Four Mile Creek	BRG-20-001	375,000	375,000											
NE 62nd Street RCB Culvert for Four Mile Creek Tributary	BRG-23-001	590,000	590,000											
Otter Creek Trunk Sewer - Phase 4	SNS-12-001	1,673,000								1,673,000				
SE 3rd Street Trunk Sewer Extension	SNS-20-002	1,130,000								1,130,000				
Trestle Ridge Trunk Sewer Cost Share	SNS-22-001	400,000								400,000				
Clover Ridge Trunk Sewer Extension	SNS-22-003	101,000								101,000				
Sawgrass Park Dam Improvements	STM-19-004	90,000		90,000										
Four Mile Creek Channel Stabilization - NE 47th Street to NE 54th Street	STM-20-001	555,000		275,000					280,000					
High Trestle Trail Channel Stabilization	STM-20-002	310,000		310,000										
Tributary to Four Mile Creek Channel Stabilization	STM-20-004	1,275,000		235,000					640,000	400,000				
SE 3rd Street Area Trunk Storm Sewer Improvements	STM-20-006	1,275,000		1,275,000										
SE 3rd Street Area Collection Storm Sewer Improvements	STM-21-001	180,000		180,000										
NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	STR-14-006	6,075,000	4,325,000						1,750,000					
SW Oralabor Road and SW Irvinedale Drive Intersection Improvements	STR-16-003	250,000								250,000				
NW 36th Street Reconstruction - NW Irvinedale Drive to NW Abilene Road	STR-18-003	250,000	250,000											
NW 36th Street Asphalt Overlay - NW Weigel Drive to NW Irvinedale Drive	STR-19-004	1,030,000	1,030,000											
SW Oralabor Road and SW State Street Intersection Improvements	STR-20-008	1,576,000							826,248	749,752				
NW Irvinedale Drive and NW 18th Street Intersection Improvements	STR-21-004	350,000	350,000											
South Ankeny Boulevard and SE Oralabor Road Safety Improvements	STR-21-005	100,000	100,000											
Uptown Parking Improvements	STR-21-006	540,000			540,000									
NW Weigel Drive Asphalt Overlay - NW 18th Street to NW 36th Street	STR-22-002	1,190,000	1,190,000											
West 1st Street Widening and Improvements - Phase 2	STR-22-003	500,000			500,000									
North Ankeny Boulevard Improvements - 1st Street to 11th Street	STR-23-001	205,000	185,000						20,000					
NW State Street Corridor Improvements Study - West 1st Street to NW 18th Street	STR-23-003	100,000										100,000		
South Ankeny Boulevard Improvements - SE Peterson Drive to 1st Street	STR-23-005	400,000	400,000											
SW Magazine Road and SW State Street Intersection Capacity Improvements	STR-23-006	550,000	550,000											
Fiber Optic Network Upgrade	TRF-23-001	625,000	625,000											
SE Corporate Woods Drive and SE Crosswinds Drive Traffic Signal	TRF-23-002	385,000	305,000											80,000
Saylorville Feeder Main Purchase Capacity	WTM-17-008	604,000						604,000						
SW Walnut Street and SW Ordnance Road Water Main	WTM-20-002	211,000						211,000						
NE 36th Street and NE 38th Street Water Main Loop	WTM-21-009	2,722,000						2,722,000						
SE Magazine Ground Storage Tank Repaint	WTT-20-002	654,000						654,000						
		\$ 41,191,000	\$ 15,590,000	\$ 2,365,000	\$ 1,040,000	\$ -	\$ 4,191,000	\$ -	\$ 3,516,248	\$ 6,988,752	\$ -	\$ 1,150,000	\$ 6,270,000	\$ 80,000

2024 Bond Issue Project Costs	\$ 18,995,000
Cost of Issuance	245,000
Projected 2024 Bond Issue Total	\$ 19,240,000

2023-2027 Capital Improvement Program

2025 CIP Projects by Funding Source

Project	Project #	2025	General Obligation Bonds				Revenue Bonds		Miscellaneous					
			Debt Service Levy	Storm Water	Tax Increment Financing	Referendum	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Road Use Tax	Capital Reserve	Other
Annual Park Development Program	PRK-00-002	\$ 445,000	\$ 365,000						\$ 80,000					
Annual Sidewalk/Trail Construction Program	SDW-00-001	535,000	210,000									325,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	710,000							710,000					
Annual Storm Water Replacement Program	STM-00-001	450,000							450,000					
Annual PCC Street Patching Program	STR-00-001	1,555,000	1,555,000											
Annual Asphalt Street Resurfacing Program	STR-00-002	350,000	350,000											
Annual Pavement Preservation Program	STR-00-003	400,000	400,000											
Annual Street Replacement Program	STR-00-004	1,750,000	1,750,000											
Annual Traffic Signal Improvement Program	TRF-00-001	990,000	740,000									250,000		
Annual Water Main Replacement Program	WTM-00-001	705,000							705,000					
Fire Station No. 4	BLD-20-002	625,000											625,000	
NW Reinhart Drive RCB Culvert for Rock Creek	BRG-22-003	115,000	115,000											
Hawkeye Park Sports Complex Tennis Courts Reconstruction	PRK-18-003	850,000	850,000											
Des Moines Street Parks	PRK-21-002	322,000												322,000
High Trestle Trail Experience Park	PRK-22-005	500,000							100,000		400,000			
Clover Ridge Trunk Sewer Extension	SNS-22-003	824,000								824,000				
Polk County Lift Station Decommissioning	SNS-22-004	105,000								105,000				
Sawgrass Park Dam Improvements	STM-19-004	445,000		445,000										
Four Mile Creek Channel Stabilization - NE 47th Street to NE 54th Street	STM-20-001	440,000			210,000				230,000					
Tributary to Four Mile Creek Channel Stabilization	STM-20-004	1,220,000			180,000				640,000	400,000				
Westlawn Area Storm Sewer Improvements	STM-20-005	150,000			150,000									
SE 3rd Street Area Collection Storm Sewer Improvements	STM-21-001	1,380,000			1,380,000									
Diamond Hills Greenway Stream Stabilization	STM-22-002	75,000			75,000									
NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	STR-14-006	150,000	150,000											
SW Oralabor Road and SW Irvinedale Drive Intersection Improvements	STR-16-003	500,000								500,000				
NW 36th Street Reconstruction - NW Irvinedale Drive to NW Abilene Road	STR-18-003	800,000	800,000											
NW Irvinedale Drive and NW 18th Street Intersection Improvements	STR-21-004	3,750,000	3,750,000											
South Ankeny Boulevard and SE Oralabor Road Safety Improvements	STR-21-005	250,000	250,000											
West 1st Street Widening and Improvements - Phase 2	STR-22-003	2,350,000			2,350,000									
NW 18th Street Reconstruction - NW State Street to NW Ash Drive	STR-22-004	100,000	100,000											
North Ankeny Boulevard Improvements - 1st Street to 11th Street	STR-23-001	4,320,000	1,870,000						2,450,000					
South Ankeny Boulevard Improvements - SE Peterson Drive to 1st Street	STR-23-005	375,000	150,000						225,000					
Fiber Optic Network Upgrade	TRF-23-001	500,000	500,000											
South Ankeny Boulevard Water Main Improvements - SE 3rd Street to SW Ordnance Road	WTM-19-001	222,000						222,000						
SW Walnut Street and SW Ordnance Road Water Main	WTM-20-002	1,564,000						1,564,000						
		\$ 29,822,000	\$ 13,905,000	\$ 2,440,000	\$ 2,350,000	\$ -	\$ 1,786,000	\$ -	\$ 3,645,000	\$ 3,774,000	\$ 400,000	\$ 575,000	\$ 625,000	\$ 322,000

2025 Bond Issue Project Costs	\$ 18,695,000
Cost of Issuance	250,000
Projected 2025 Bond Issue Total	\$ 18,945,000

2023-2027 Capital Improvement Program

2026 CIP Projects by Funding Source

Project	Project #	2026	General Obligation Bonds				Revenue Bonds		Miscellaneous					
			Debt Service Levy	Storm Water	Tax Increment Financing	Referendum	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Road Use Tax	Capital Reserve	Other
Annual Park Development Program	PRK-00-002	\$ 445,000	\$ 365,000						\$ 80,000					
Annual Sidewalk/Trail Construction Program	SDW-00-001	535,000	210,000									325,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	1,265,000							1,265,000					
Annual Storm Water Replacement Program	STM-00-001	450,000							450,000					
Annual PCC Street Patching Program	STR-00-001	1,660,000	1,660,000											
Annual Asphalt Street Resurfacing Program	STR-00-002	375,000	375,000											
Annual Pavement Preservation Program	STR-00-003	425,000	425,000											
Annual Street Replacement Program	STR-00-004	1,750,000	1,750,000											
Annual Traffic Signal Improvement Program	TRF-00-001	1,025,000	775,000									250,000		
Annual Water Main Replacement Program	WTM-00-001	760,000							760,000					
NE 18th Street Bridge over Interstate 35	BRG-22-002	750,000	750,000											
NW Reinhart Drive RCB Culvert for Rock Creek	BRG-22-003	1,025,000	1,025,000											
NE Spectrum Drive RCB Culvert for Otter Creek	BRG-22-004	130,000				130,000								
Polk County Lift Station Decommissioning	SNS-22-004	1,146,000							1,146,000					
SW Irvinedale Drive Sanitary Sewer Replacement	SNS-23-002	11,000							11,000					
Westlawn Area Storm Sewer Improvements	STM-20-005	250,000		250,000										
SE 3rd Street Area Collection Storm Sewer Improvements	STM-21-001	1,330,000		930,000					400,000					
Diamond Hills Greenway Stream Stabilization	STM-22-002	75,000		75,000										
Four Mile Creek Channel Stabilization - Downstream of East 1st Street	STM-22-003	160,000		95,000					65,000					
Four Mile Creek Channel Stabilization - NE 36th Street to NE 47th Street	STM-22-004	270,000		165,000					105,000					
Four Mile Creek Channel Stabilization - Heritage Park	STM-23-001	95,000		45,000					50,000					
SW Oralabor Road and SW Irvinedale Drive Intersection Improvements	STR-16-003	4,350,000				350,000			1,000,000	3,000,000				
NW 36th Street Reconstruction - NW Irvinedale Drive to NW Abilene Road	STR-18-003	7,750,000	7,000,000											750,000
West 1st Street Widening and Improvements - Phase 2	STR-22-003	4,600,000				3,448,500			1,151,500					
NW 18th Street Reconstruction - NW State Street to NW Ash Drive	STR-22-004	425,000	425,000											
North Ankeny Boulevard Improvements - 1st Street to 11th Street	STR-23-001	330,000	330,000											
South Ankeny Boulevard Improvements - SE Peterson Drive to 1st Street	STR-23-005	5,650,000	150,000						5,500,000					
Fiber Optic Network Upgrade	TRF-23-001	500,000	500,000											
South Ankeny Boulevard Water Main Improvements - SE 3rd Street to SW Ordance Road	WTM-19-001	2,028,000						2,028,000						
NW State Street Water Main Improvements	WTM-19-003	125,000							125,000					
SW Irvinedale Elevated Storage Tank Repaint	WTT-23-001	90,000							90,000					
		\$ 39,780,000	\$ 15,740,000	\$ 1,560,000	\$ 3,928,500	\$ -	\$ 2,028,000	\$ -	\$ 7,871,500	\$ 7,327,000	\$ -	\$ 575,000	\$ -	\$ 750,000

2026 Bond Issue Project Costs	\$21,228,500
Cost of Issuance	271,500
Projected 2026 Bond Issue Total	\$21,500,000

2023-2027 Capital Improvement Program

2027 CIP Projects by Funding Source

Project	Project #	2027	General Obligation Bonds				Revenue Bonds		Miscellaneous					
			Debt Service Levy	Storm Water	Tax Increment Financing	Referendum	Water	Sewer	Grant	Cash	Hotel/Motel Tax	Road Use Tax	Capital Reserve	Other
Annual Park Development Program	PRK-00-002	\$ 445,000	\$ 365,000						\$ 80,000					
Annual Sidewalk/Trail Construction Program	SDW-00-001	535,000	210,000									325,000		
Annual Sanitary Sewer Replacement Program	SNS-00-001	765,000							765,000					
Annual Storm Water Replacement Program	STM-00-001	450,000							450,000					
Annual PCC Street Patching Program	STR-00-001	1,710,000	1,710,000											
Annual Asphalt Street Resurfacing Program	STR-00-002	350,000	350,000											
Annual Pavement Preservation Program	STR-00-003	450,000	450,000											
Annual Street Replacement Program	STR-00-004	1,750,000	1,750,000											
Annual Traffic Signal Improvement Program	TRF-00-001	1,290,000	1,040,000									250,000		
Annual Water Main Replacement Program	WTM-00-001	760,000							760,000					
NE 18th Street Bridge over Interstate 35	BRG-22-002	2,450,000	2,450,000											
NE Spectrum Drive RCB Culvert for Otter Creek	BRG-22-004	1,175,000			1,175,000									
High Trestle Trail Experience Park	PRK-22-005	500,000						100,000		400,000				
SW Irvinedale Drive Sanitary Sewer Replacement	SNS-23-002	114,000							114,000					
Deer Creek Trunk Sewer Extension	SNS-23-003	193,000							193,000					
Westlawn Area Storm Sewer Improvements	STM-20-005	1,640,000		1,240,000						400,000				
Diamond Hills Greenway Stream Stabilization	STM-22-002	1,610,000		1,610,000										
Four Mile Creek Channel Stabilization - Downstream of East 1st Street	STM-22-003	150,000		90,000					60,000					
Four Mile Creek Channel Stabilization - NE 36th Street to NE 47th Street	STM-22-004	260,000		155,000					105,000					
Saylor Creek Tributary Channel Improvements	STM-22-005	190,000		190,000										
Four Mile Creek Channel Stabilization - Heritage Park	STM-23-001	90,000		40,000					50,000					
NW 36th Street Reconstruction - NW Irvinedale Drive to NW Abilene Road	STR-18-003	125,000	125,000											
NW 18th Street Extension - NW Spruce Drive to Iowa Highway 415	STR-18-004	50,000	50,000											
South Ankeny Boulevard and SE Oralabor Road Safety Improvements	STR-21-005	150,000	150,000											
West 1st Street Widening and Improvements - Phase 2	STR-22-003	4,650,000			4,650,000									
NW 18th Street Reconstruction - NW State Street to NW Ash Drive	STR-22-004	4,775,000	4,775,000											
NE Delaware Avenue Reconstruction - Four Mile Creek to NE 36th Street	STR-23-002	250,000	250,000											
Fiber Optic Network Upgrade	TRF-23-001	910,000	910,000											
NW State Street Water Main Improvements	WTM-19-003	1,275,000						1,275,000						
SW Irvinedale Elevated Storage Tank Repaint	WTT-23-001	1,187,000						1,187,000						
		\$ 30,249,000	\$ 14,585,000	\$ 3,325,000	\$ 5,825,000	\$ -	\$ 2,462,000	\$ -	\$ 315,000	\$ 2,762,000	\$ 400,000	\$ 575,000	\$ -	\$ -

2027 Bond Issue Project Costs	\$23,735,000
Cost of Issuance	300,000
Projected 2027 Bond Issue Total	\$24,035,000

<u>Annual Park Development Program</u>	<u>Projected 2022</u>	<u>Projected 2023</u>	<u>Projected 2024</u>	<u>Projected 2025</u>	<u>Projected 2026</u>	<u>Projected 2027</u>
Beginning Cash Balance	\$ 114,295	\$ 31,815	\$ 26,815	\$ 26,815	\$ 26,815	\$ 26,815
<u>Transfers In</u>						
General Obligation Bonds	\$ 305,000	\$ 365,000	\$ 365,000	\$ 365,000	\$ 365,000	\$ 365,000
Park Dedication Fund	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000
Memorial and Tribute Program	\$ 7,553					
Total Transfers In	\$ 392,553	\$ 445,000	\$ 445,000	\$ 445,000	\$ 445,000	\$ 445,000
<u>Project Expenditures</u>						
Memorial and Tribute Program	\$ 9,810					
Hawkeye Park Pond Improvements (Outlet Structure, Dredging, Trail Realignment, Shore Stabilization and Fishing Pier)	\$ 22,128					
Bellagio Park Development (Playground, Trail Connection and Shelter)	\$ 427,495					
Aspen Ridge Park Development (Trail Connection and Turf Improvements)		\$ 220,000				
Creekside Mini-Park		\$ 230,000				
Watercrest Park Expansion (Splash Pad, Shelter and Trail Loop)	\$ 15,600		\$ 445,000			
Kimberley Crossing Park Development (Playground, Trail Connection and Shelter)				\$ 445,000		
Other Projects TBD (based on park dedication, development funding and pace of development)					\$ 445,000	\$ 445,000
Total Project Expenditures	\$ 475,033	\$ 450,000	\$ 445,000	\$ 445,000	\$ 445,000	\$ 445,000
Remaining Cash Balance	\$ 31,815	\$ 26,815	\$ 26,815	\$ 26,815	\$ 26,815	\$ 26,815

<u>Annual Sanitary Sewer Replacement Program</u>	<u>Projected 2022</u>	<u>Projected 2023</u>	<u>Projected 2024</u>	<u>Projected 2025</u>	<u>Projected 2026</u>	<u>Projected 2027</u>
Beginning Cash Balance	\$ 1,761,779	\$ 1,424,042	\$ 1,379,042	\$ 949,042	\$ 989,042	\$ 474,042
<u>Transfers In</u>						
Sewer Fund	\$ 600,000	\$ 700,000	\$ 700,000	\$ 750,000	\$ 750,000	\$ 800,000
Total Transfers In	\$ 600,000	\$ 700,000	\$ 700,000	\$ 750,000	\$ 750,000	\$ 800,000
<u>Project Expenditures</u>						
Sanitary Sewer Oversizing		\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
Sanitary Sewer Spot Repairs, Manhole Repairs and Slip Lining	\$ 710,063	\$ 75,000	\$ 575,000	\$ 75,000	\$ 575,000	\$ 75,000
NW Northlawn Area Utility Improvements	\$ 227,674	\$ 640,000	\$ 495,000	\$ 545,000		
Original Ankeny Area Utility Improvements			\$ 30,000	\$ 60,000	\$ 660,000	\$ 660,000
Total Project Expenditures	\$ 937,737	\$ 745,000	\$ 1,130,000	\$ 710,000	\$ 1,265,000	\$ 765,000
Remaining Cash Balance	\$ 1,424,042	\$ 1,379,042	\$ 949,042	\$ 989,042	\$ 474,042	\$ 509,042

<u>Annual Storm Water Replacement Program</u>	<u>Projected</u> <u>2022</u>	<u>Projected</u> <u>2023</u>	<u>Projected</u> <u>2024</u>	<u>Projected</u> <u>2025</u>	<u>Projected</u> <u>2026</u>	<u>Projected</u> <u>2027</u>
Beginning Cash Balance	\$ 525,515	\$ 383,900	\$ 283,900	\$ 233,900	\$ 183,900	\$ 183,900
<u>Transfers In</u>						
Storm Water Fund	\$ 300,000	\$ 350,000	\$ 400,000	\$ 400,000	\$ 450,000	\$ 450,000
Federal Emergency Management Agency (FEMA)	\$ 26,265					
Special Assessments	\$ 136					
Total Transfers In	\$ 326,401	\$ 350,000	\$ 400,000	\$ 400,000	\$ 450,000	\$ 450,000
<u>Project Expenditures</u>						
Saylor Creek Repairs and Stabilization	\$ 10,013					
Magazine Road Bioswale Repairs	\$ 20,900					
Saylor Creek Repairs and Restoration	\$ 24,993					
Cherry Glen Trail Culvert Improvements	\$ 14,500					
Diamond Hills Greenway Stream Repairs	\$ 362,109					
West 1st Street Basin Structure Repairs	\$ 15,000					
Small open cut repairs to storm sewers and/or structures near NW Briargate Drive, 700 block of NE 5th Street, SW 2nd Court, 1500 block of NW Linwood Street, 700 block of NE Hayes Drive and NE 31st Street and NE Trilein Drive		\$ 160,000				
Repairs to flow control structures/orifice plates in Renaissance Park, NE Briarwood Drive and the Public Services Building		\$ 50,000				
Erosion repairs at SW Ordinance Road and SW State Street and NW Greenwood Street		\$ 40,000				
Cost share to repair/replace culvert under SW Ankeny Road		\$ 25,000				
Survey, analysis and design of streambank repairs and bioretention cells located along Saylor Creek between old Magazine Road and Vintage Greenway		\$ 130,000				
Storm Water Conservation Design Features within City Property	\$ 5,000	\$ 15,000				
Storm Water Projects (TBD)	\$ 15,500	\$ 30,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000
Total Project Expenditures	\$ 468,016	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000
Remaining Cash Balance	\$ 383,900	\$ 283,900	\$ 233,900	\$ 183,900	\$ 183,900	\$ 183,900

<u>Annual Traffic Signal Improvement Program</u>	<u>Projected</u> <u>2022</u>	<u>Projected</u> <u>2023</u>	<u>Projected</u> <u>2024</u>	<u>Projected</u> <u>2025</u>	<u>Projected</u> <u>2026</u>	<u>Projected</u> <u>2027</u>
Beginning Cash Balance	\$ 716,890	\$ 288,056	\$ 248,056	\$ 248,056	\$ 248,056	\$ 248,056
<u>Transfers In</u>						
General Obligation Bonds	\$ 950,000	\$ 875,000	\$ 740,000	\$ 740,000	\$ 775,000	\$ 1,040,000
Road Use Tax Fund	\$ 130,000	\$ 400,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Ankeny Community School District	\$ 8,712					
Total Transfers In	\$ 1,088,712	\$ 1,275,000	\$ 990,000	\$ 990,000	\$ 1,025,000	\$ 1,290,000
<u>Project Expenditures</u>						
SE Delaware Avenue and SE 8th Street Traffic Signal, Left Turn Lanes and Fiber Optic Connection	\$ 38,686					
North Ankeny Boulevard and NE 54th Street Traffic Signal and Left Turn Lanes	\$ 158,690					
SE Corporate Woods Drive and SE Convenience Boulevard Traffic Signal and Lane Modifications Cost Share	\$ 200,000					
NE 36th Street and NE Otterview Circle Traffic Signal Cost Share	\$ 150,000					
2022 Fiber Optic Cable and Switches	\$ 54,817					
North Ankeny Boulevard Fiber Optic Upgrade - 1st Street to 18th Street	\$ 186,681					
SE Quadrant Fiber Optic Upgrade, Phase 1 - Public Works Maintenance Facility to Gay Lea Wilson Trail	\$ 96,389					
SW Oralabor Road and SW Irvinedale Drive Interim Signal Modifications	\$ 45,674					
High Trestle Trail Crossing Rectangular Rapid Flashing Beacon - NW Irvinedale Drive and NW 18th Street	\$ 26,228					
South Ankeny Boulevard and SE 8th Street Traffic Detection Replacement	\$ 17,310					
SE Oralabor Road and SW Snyder Boulevard Traffic Signal Cost Share	\$ 130,264					

SW State Street and SW 11th Street Traffic Signal Cost Share	\$ 150,000					
SE Delaware Avenue Fiber Optic Connection	\$ 119,054					
SE Delaware and SE Lorenz Drive Traffic Detection Replacement	\$ 15,390					
Northwest Elementary School Signal Replacement	\$ 55,264					
2023 Fiber Optic Cable	\$ 65,000					
NW 36th Street Fiber Optic Redundancy		\$ 50,000				
High Trestle Trail Rectangular Rapid Flashing Beacons - SE Magazine Road and SE Shurfine Drive		\$ 40,000				
NW Prairie Ridge Drive, NW Ash Drive and NW 9th Street Intersection Concept Study		\$ 35,000				
SE Oralabor Road, SE Convenience Boulevard and SE Creekview Drive Traffic Signal Replacement	\$ 8,100	\$ 400,000				
School Walkability Improvements - Pedestrian Ramp Upgrades, School Speed Zone Beacons and Rectangular Rapid Flashing Beacons		\$ 220,000				
SE Delaware Avenue and SE 54th Street Traffic Signal		\$ 380,000				
Miscellaneous Upgrade Projects - NW 18th Street and NW Irvinedale Drive Vehicle Detection Improvements and NE Delaware Avenue and NE 5th Street Fiber Optic Cable Installation		\$ 40,000				
East 1st Street and Four Mile Drive Traffic Signal Cost Share		\$ 150,000				
South Ankeny Boulevard and SE 8th Street Traffic Signal Replacement			\$ 250,000			
South Ankeny Boulevard and SE Lorenz Drive Traffic Signal Replacement				\$ 250,000		
Existing Traffic Signal Infrastructure Replacement					\$ 250,000	\$ 250,000
Traffic Signal Cost Share Projects (TBD)			\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000
Miscellaneous Upgrade Projects (TBD)			\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000
Traffic Signal and Fiber Optic Projects (TBD)			\$ 550,000	\$ 550,000	\$ 585,000	\$ 850,000
Total Project Expenditures	\$ 1,517,546	\$ 1,315,000	\$ 990,000	\$ 990,000	\$ 1,025,000	\$ 1,290,000
Remaining Cash Balance	\$ 288,056	\$ 248,056	\$ 248,056	\$ 248,056	\$ 248,056	\$ 248,056

<u>Annual Water Main Replacement Program</u>	<u>Projected</u> <u>2022</u>	<u>Projected</u> <u>2023</u>	<u>Projected</u> <u>2024</u>	<u>Projected</u> <u>2025</u>	<u>Projected</u> <u>2026</u>	<u>Projected</u> <u>2027</u>
Beginning Cash Balance	\$ 1,011,828	\$ 1,163,568	\$ 998,568	\$ 973,568	\$ 868,568	\$ 708,568
<u>Transfers In</u>						
Water Fund	\$ 500,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000
Total Transfers In	\$ 500,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000
<u>Project Expenditures</u>						
Water Main Oversizing	\$ 120,586	\$ 125,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000
NW Northlawn Area Utility Improvements	\$ 227,674	\$ 640,000	\$ 495,000	\$ 545,000		
Original Ankeny Area Utility Improvements			\$ 30,000	\$ 60,000	\$ 660,000	\$ 660,000
Total Project Expenditures	\$ 348,260	\$ 765,000	\$ 625,000	\$ 705,000	\$ 760,000	\$ 760,000
Remaining Cash Balance	\$ 1,163,568	\$ 998,568	\$ 973,568	\$ 868,568	\$ 708,568	\$ 548,568

2023-2027 Capital Improvement Program
Overall Project Listing with 10-Year High Priority Projects

Proposed Projects	Project No.	2023	2024	2025	2026	2027	High Priority Projects	Project Cost
ANNUAL PROGRAMS								
Annual Park Development Program	PRK-00-002	\$ 450,000	\$ 445,000	\$ 445,000	\$ 445,000	\$ 445,000	\$ 2,225,000	\$ 4,455,000
Annual Sidewalk/Trail Construction Program	SDW-00-001	535,000	535,000	535,000	535,000	535,000	2,675,000	5,350,000
Annual Sanitary Sewer Replacement Program	SNS-00-001	745,000	1,130,000	710,000	1,265,000	765,000	3,825,000	8,440,000
Annual Storm Water Replacement Program	STM-00-001	450,000	450,000	450,000	450,000	450,000	2,250,000	4,500,000
Annual PCC Street Patching Program	STR-00-001	1,490,000	1,425,000	1,555,000	1,660,000	1,710,000	8,550,000	16,390,000
Annual Asphalt Street Resurfacing Program	STR-00-002	475,000	475,000	350,000	375,000	350,000	1,750,000	3,775,000
Annual Pavement Preservation Program	STR-00-003	350,000	375,000	400,000	425,000	450,000	2,250,000	4,250,000
Annual Street Replacement Program	STR-00-004	1,450,000	1,725,000	1,750,000	1,750,000	1,750,000	8,750,000	17,175,000
Annual Traffic Signal Improvement Program	TRF-00-001	1,315,000	990,000	990,000	1,025,000	1,290,000	6,450,000	12,060,000
Annual Water Main Replacement Program	WTM-00-001	765,000	625,000	705,000	760,000	760,000	3,800,000	7,415,000
BUILDINGS								
Fire Station No. 4	BLD-20-002	1,080,000	6,270,000	625,000	-	-	-	7,975,000
Lakeside Center Renovations	BLD-21-001	265,000	-	-	-	-	-	265,000
Public Works Satellite Salt Storage Facility	BLD-21-002	50,000	475,000	-	-	-	-	525,000
Public Safety Training Facility	Buildings	-	-	-	-	-	1,148,000	1,148,000
Community Entrance Signs	Buildings	-	-	-	-	-	305,000	305,000
Sewer Treatment Plant Demolition and Repurposing	Buildings	-	-	-	-	-	1,815,000	1,815,000
BRIDGES								
SE Frisk Drive RCB Culvert for Four Mile Creek	BRG-20-001	-	375,000	-	-	-	-	375,000
NE Frisk Drive Bridge over Deer Creek	BRG-22-001	90,000	-	-	-	-	-	90,000
NE 18th Street Bridge over Interstate 35	BRG-22-002	-	-	-	750,000	2,450,000	13,025,000	16,225,000
NW Reinhart Drive RCB Culvert for Rock Creek	BRG-22-003	-	-	115,000	1,025,000	-	-	1,140,000
NE Spectrum Drive RCB Culvert for Otter Creek	BRG-22-004	-	-	-	130,000	1,175,000	-	1,305,000
NE 62nd Street RCB Culvert for Four Mile Creek Tributary	BRG-23-001	75,000	590,000	-	-	-	-	665,000
Corporate Woods Drive Railroad Overpass	Bridges	-	-	-	-	-	23,500,000	23,500,000
Interstate 35 and NE 54th Street Overpass Justification Report	Bridges	-	-	-	-	-	150,000	150,000
Interstate 35 and SE Oralabor Road Interchange Upgrade Justification Report	Bridges	-	-	-	-	-	200,000	200,000
OPERATING/CONSTRUCTION EQUIPMENT								
Tractor Drawn Aerial Ladder Truck	OEC-23-001	-	-	-	-	-	2,200,000	2,200,000

2023-2027 Capital Improvement Program
Overall Project Listing with 10-Year High Priority Projects

Proposed Projects	Project No.	2023	2024	2025	2026	2027	High Priority Projects	Project Cost
		PARKS						
Hawkeye Park Sports Complex Tennis Courts Reconstruction	PRK-18-003	-	-	850,000	-	-	-	850,000
Des Moines Street Parks, including Pickleball Courts (12)	PRK-21-002	2,490,000	-	322,000	-	-	-	2,812,000
High Trestle Trail Experience Park	PRK-22-005	700,000	-	500,000	-	500,000	300,000	2,000,000
Cherry Glen Ballfield	PRK-22-006	625,000	-	-	-	-	-	625,000
Prairie Ridge Sports Complex Tennis Courts Overlay	PRK-23-001	720,000	-	-	-	-	-	720,000
Pickleball Courts	PRK-20-004	-	-	-	-	-	475,000	475,000
Outdoor Fitness Court	PRK-22-004	-	-	-	-	-	185,000	185,000
Heritage Park Expansion and Upgrades	Parks	-	-	-	-	-	700,000	700,000
Chautauqua and Promenade Park Development	Parks	-	-	-	-	-	6,600,000	6,600,000
Watercrest Community Park Expansion	Parks	-	-	-	-	-	2,200,000	2,200,000
SIDEWALKS/TRAILS								
Clover Ridge Trail	SDW-21-002	-	-	-	-	-	135,000	135,000
SW Ankeny Road Sidewalk Improvements	SDW-22-001	-	-	-	-	-	830,000	830,000
Safe Routes to School Study Update and Improvements	Trails	-	-	-	-	-	600,000	600,000
Hidden Creek Trail Extension - NW 5th Street to NW 13th Street	Trails	-	-	-	-	-	990,000	990,000
Four Mile Creek Trail - NE 47th Street to NE 54th Street	Trails	-	-	-	-	-	550,000	550,000
Oralabor Gateway Trail - SW White Birch Drive Grade-Separated Crossing	Trails	-	-	-	-	-	2,200,000	2,200,000
SANITARY SEWERS								
Otter Creek Trunk Sewer - Phase 4	SNS-12-001	252,000	1,673,000	-	-	-	-	1,925,000
Four Mile Creek Trunk Sewer	SNS-20-001	2,765,000	-	-	-	-	-	2,765,000
SE 3rd Street Trunk Sewer Extension	SNS-20-002	-	1,130,000	-	-	-	-	1,130,000
Trestle Ridge Trunk Sewer Cost Share	SNS-22-001	300,000	400,000	-	-	-	-	700,000
NE Crestmoor Sanitary Sewer Replacement	SNS-22-002	520,000	-	-	-	-	-	520,000
Clover Ridge Trunk Sewer Extension	SNS-22-003	-	101,000	824,000	-	-	-	925,000
Polk County Lift Station Decommissioning	SNS-22-004	-	-	105,000	1,146,000	-	-	1,251,000
SW Irvinedale Drive Sanitary Sewer Replacement	SNS-23-002	-	-	-	11,000	114,000	-	125,000
Deer Creek Trunk Sewer Extension	SNS-23-003	-	-	-	-	193,000	1,807,000	2,000,000
STORM WATER								
Sawgrass Park Dam Improvements	STM-19-004	-	90,000	445,000	-	-	-	535,000
Four Mile Creek Channel Stabilization - NE 47th Street to NE 54th Street	STM-20-001	65,000	555,000	440,000	-	-	-	1,060,000

2023-2027 Capital Improvement Program
Overall Project Listing with 10-Year High Priority Projects

Proposed Projects								High Priority Projects	Project Cost
	Project No.	2023	2024	2025	2026	2027			
High Trestle Trail Channel Stabilization	STM-20-002	480,000	310,000	-	-	-	-	790,000	
Tributary to Four Mile Creek Channel Stabilization	STM-20-004	250,000	1,275,000	1,220,000	-	-	-	2,745,000	
Westlawn Area Storm Sewer Improvements	STM-20-005	-	-	150,000	250,000	1,640,000	1,600,000	3,640,000	
SE 3rd Street Area Trunk Storm Sewer Improvements	STM-20-006	-	1,275,000	-	-	-	-	1,275,000	
SE 3rd Street Area Collection Storm Sewer Improvements	STM-21-001	-	180,000	1,380,000	1,330,000	-	-	2,890,000	
Westwinds Storm Sewer Extension	STM-21-002	210,000	-	-	-	-	-	210,000	
SE Creekview Drive Wetland	STM-22-001	1,500,000	-	-	-	-	-	1,500,000	
Diamond Hills Greenway Stream Stabilization	STM-22-002	-	-	75,000	75,000	1,610,000	-	1,760,000	
Four Mile Creek Channel Stabilization - Downstream of East 1st Street	STM-22-003	-	-	-	160,000	150,000	1,320,000	1,630,000	
Four Mile Creek Channel Stabilization - NE 36th Street to NE 47th Street	STM-22-004	-	-	-	270,000	260,000	2,265,000	2,795,000	
Saylor Creek Tributary Channel Improvements	STM-22-005	-	-	-	-	190,000	3,610,000	3,800,000	
Four Mile Creek Channel Stabilization - Heritage Park	STM-23-001	-	-	-	95,000	90,000	770,000	955,000	

STREETS

NE Delaware Avenue Reconstruction - NE 5th Street to NE 18th Street	STR-14-006	5,675,000	6,075,000	150,000	-	-	-	11,900,000
SW Oralabor Road and SW Irvinedale Drive Intersection Improvements	STR-16-003	-	250,000	500,000	4,350,000	-	-	5,100,000
North Ankeny Boulevard and 18th Street Intersection Improvements	STR-18-001	440,000	-	-	-	-	-	440,000
NW 36th Street Reconstruction - NW Irvinedale Drive to NW Abilene Road	STR-18-003	-	250,000	800,000	7,750,000	125,000	-	8,925,000
NW 18th Street Extension - NW Spruce Drive to Iowa Highway 415	STR-18-004	-	-	-	-	50,000	8,100,000	8,150,000
NW 36th Street Asphalt Overlay - NW Weigel Drive to NW Irvinedale Drive	STR-19-004	115,000	1,030,000	-	-	-	-	1,145,000
SW Oralabor Road and SW Edgewood Lane Intersection Improvements	STR-19-006	200,000	-	-	-	-	-	200,000
NW 18th Street Reconstruction - NW Ash Drive to North Ankeny Boulevard	STR-20-004	5,400,000	-	-	-	-	-	5,400,000
NW 36th Street Widening - NW Ash Drive to North Ankeny Boulevard	STR-20-005	125,000	-	-	-	-	-	125,000
SW Oralabor Road and SW State Street Intersection Improvements	STR-20-008	3,679,000	1,576,000	-	-	-	-	5,255,000
SW State Street Reconstruction - SW Ordnance Road to West 1st Street (Southbound Lanes)	STR-21-001	1,825,000	-	-	-	-	-	1,825,000
NW Irvinedale Drive and NW 18th Street Intersection Improvements	STR-21-004	100,000	350,000	3,750,000	-	-	-	4,200,000
South Ankeny Boulevard and SE Oralabor Road Safety Improvements	STR-21-005	-	100,000	250,000	-	150,000	4,310,000	4,810,000
Uptown Parking Improvements	STR-21-006	410,000	540,000	-	-	-	-	950,000
NW Weigel Drive Asphalt Overlay - NW 18th Street to NW 36th Street	STR-22-002	130,000	1,190,000	-	-	-	-	1,320,000
West 1st Street Widening and Improvements - Phase 2	STR-22-003	-	500,000	2,350,000	4,600,000	4,650,000	-	12,100,000
NW 18th Street Reconstruction - NW State Street to NW Ash Drive	STR-22-004	-	-	100,000	425,000	4,775,000	100,000	5,400,000

2023-2027 Capital Improvement Program
Overall Project Listing with 10-Year High Priority Projects

Proposed Projects	Project No.	2023	2024	2025	2026	2027	High Priority Projects	Project Cost
		North Ankeny Boulevard Improvements - 1st Street to 11th Street	STR-23-001	500,000	205,000	4,320,000	330,000	-
NE Delaware Avenue Reconstruction - Four Mile Creek to NE 36th Street	STR-23-002	-	-	-	-	250,000	8,000,000	8,250,000
NW State Street Corridor Improvements Study - West 1st Street to NW 18th Street	STR-23-003	-	100,000	-	-	-	-	100,000
NW State Street Extension Preliminary Design	STR-23-004	500,000	-	-	-	-	-	500,000
South Ankeny Boulevard Improvements - SE Peterson Drive to 1st Street	STR-23-005	200,000	400,000	375,000	5,650,000	-	-	6,625,000
SW Magazine Road and SW State Street Intersection Capacity Improvements	STR-23-006	60,000	550,000	-	-	-	-	610,000
NW State Street Extension to NW Irvinedale Drive	Streets	-	-	-	-	-	15,120,000	15,120,000
NW 36th Street Widening - NW Abilene Road to NW Ash Drive	Streets	-	-	-	-	-	9,000,000	9,000,000
NW 36th Street Reconstruction - NW Weigel Drive to NW Irvinedale Drive	Streets	-	-	-	-	-	7,900,000	7,900,000
East 1st Street Widening - NE Frisk Drive to NE Four Mile Drive	Streets	-	-	-	-	-	7,300,000	7,300,000
TRAFFIC								
Interstate 35 and SE Corporate Woods Drive Interchange Justification Report	TRF-21-001	100,000	-	-	-	-	-	100,000
Fiber Optic Network Upgrade	TRF-23-001	200,000	625,000	500,000	500,000	910,000	-	2,735,000
SE Corporate Woods Drive and SE Crosswinds Drive Traffic Signal	TRF-23-002	40,000	385,000	-	-	-	-	425,000
GPS Opticom Upgrade	TRF-22-003	-	-	-	-	-	1,024,000	1,024,000
WATER								
High Trestle Trail Transmission Main	WTM-17-001	4,254,000	-	-	-	-	-	4,254,000
Saylorville Feeder Main Purchase Capacity	WTM-17-008	-	604,000	-	-	-	-	604,000
South Ankeny Boulevard Transmission Main	WTM-18-001	2,950,000	-	-	-	-	-	2,950,000
South Ankeny Boulevard Water Main Improvements - SE 3rd Street to SW Ordnance Road	WTM-19-001	-	-	222,000	2,028,000	-	-	2,250,000
NW State Street Water Main Improvements	WTM-19-003	-	-	-	125,000	1,275,000	-	1,400,000
SW Walnut Street and SW Ordnance Road Water Main	WTM-20-002	-	211,000	1,564,000	-	-	-	1,775,000
NE 36th Street and NE 38th Street Water Main Loop	WTM-21-009	253,000	2,722,000	-	-	-	-	2,975,000
Northwest Water Tower	WTT-19-002	10,945,000	-	-	-	-	-	10,945,000
SE Delaware Ground Storage Tank Repaint	WTT-20-001	367,000	-	-	-	-	-	367,000
SE Magazine Ground Storage Tank Repaint	WTT-20-002	50,000	654,000	-	-	-	-	704,000
SW Irvinedale Elevated Storage Tank Repaint	WTT-23-001	-	-	-	90,000	1,187,000	-	1,277,000
	Year Totals	\$ 58,980,000	\$ 41,191,000	\$ 29,822,000	\$ 39,780,000	\$ 30,249,000	\$ 172,859,000	\$ 372,881,000

Section 2

City of Ankeny, Iowa

Financial Planning for Capital Projects

Projection of Tax Levies & Tax Rate Impact

FY24 Pre-Levy => 4,506,179

Debt Service Levy Impact	
Tax Impact for FY 21-22:	(\$0.05)
Tax Impact for FY 22-23:	(\$0.15)
Tax Impact for FY 23-24:	\$0.00
Tax Impact for FY 24-25:	\$0.00

Fiscal Year	Total Tax Valuation	Growth	Taxes Levied	Debt Levy	Utility/TIF Abatement	Misc Income	Property Tax Backfill	Total Resources	Par	\$14,665,000	\$15,785,000	\$14,085,000	\$15,935,000	\$14,765,000	Estimated Future GO Bonds	Bond Fees	Other Uses	Total Uses	Surplus/(Deficit)	Ending Cash/Fund Balance
									Proceeds Existing GO Debt	2023 CIP-Taxes	2024 CIP-Taxes	2025 CIP-Taxes	2026 CIP-Taxes	2027 CIP-Taxes						
2017 - 2018	3,117,104,836	7.6%	12,935,985	\$4.1500	9,021,835	11,510	373,393	22,342,723	23,123,605						7,000	(8,348)	23,122,257	(779,534)	2,148,966	
2018 - 2019	3,531,530,661	13.3%	13,243,241	\$3.7500	7,801,688	118,225	355,273	21,518,427	21,801,317						7,100	(1,115)	21,807,302	(288,875)	1,860,091	
2019 - 2020	3,842,245,193	8.8%	13,447,858	\$3.5000	8,617,551	74,261	343,629	22,483,299	22,703,697						7,700	125,359	22,836,756	(353,457)	1,506,634	
2020 - 2021	4,177,177,183	8.7%	13,575,825	\$3.2500	9,326,128	131,197	335,718	23,368,868	23,334,941						6,842	(135,238)	23,206,545	162,323	1,668,957	
2021 - 2022	4,456,458,887	6.7%	14,260,668	\$3.2000	8,824,235	3,242	342,757	23,430,902	23,356,250						6,400	(98,317)	23,264,334	166,569	1,835,526	
2022 - 2023	4,827,690,725	8.3%	14,724,457	\$3.0500	9,381,151	12,000	277,565	24,395,172	24,199,486						7,000		24,206,486	188,686	2,024,212	
2023 - 2024	5,161,244,789	6.9%	15,741,797	\$3.0500	9,248,830	12,000	207,310	25,209,936	20,699,113	4,506,179					7,600		25,212,892	(2,955)	2,021,257	
2024 - 2025	5,370,776,715	4.1%	16,380,869	\$3.0500	8,213,269	12,000	136,342	24,742,480	18,065,763	2,992,175	3,682,272				7,600		24,747,809	(5,329)	2,015,927	
2025 - 2026	5,595,206,376	4.2%	17,065,379	\$3.0500	7,782,588	12,000	68,028	24,927,995	17,411,019	1,310,175	3,156,850	3,046,131			7,600		24,931,774	(3,779)	2,012,149	
2026 - 2027	5,609,269,503	0.3%	17,108,272	\$3.0500	7,301,763	12,000	0	24,422,034	16,423,531	1,311,175	1,621,850	2,930,100	2,123,729		7,600		24,417,985	4,050	2,016,198	
2027 - 2028	5,855,181,705	4.4%	17,858,304	\$3.0500	6,132,144	12,000	0	24,002,448	14,666,050	1,314,925	1,622,350	1,504,700	2,113,225	2,773,842	7,600		24,002,692	(244)	2,015,954	

Debt Limit Projection

Based on Constitutional Limit:
5% of Assessed Valuation

Outstanding Debt

Issue Date	Maturity Date	Outstanding Debt
12/22/14	06/01/28	\$ 11,310,000
05/28/15	06/01/25	2,315,000
05/28/15	06/01/24	550,000
03/31/16	06/01/28	3,900,000
05/25/16	06/01/26	3,580,000
05/31/17	06/01/27	4,740,000
05/30/18	06/01/28	9,475,000
05/28/19	06/01/29	13,365,000
06/09/20	06/01/30	9,870,000
06/09/21	06/01/31	19,230,000
05/25/22	06/01/37	31,665,000
Rebate & Lease Agreements		6,605,702
Total Outstanding Debt		\$ 116,605,702

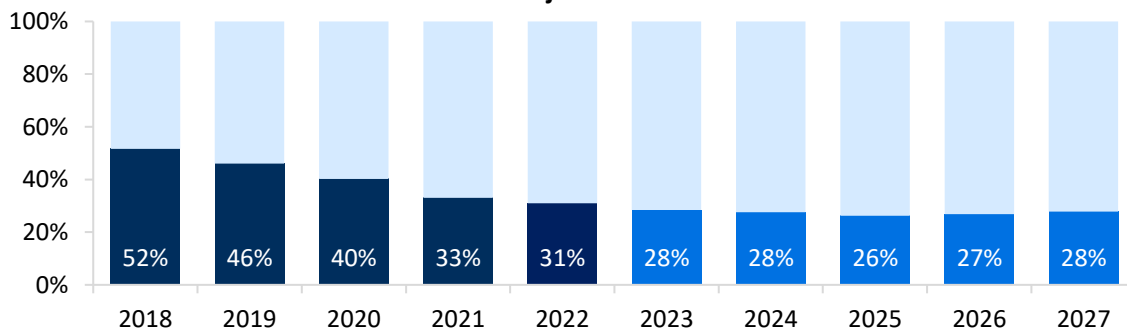
Projected Debt

Bond Year	Debt Addition	Debt Reduction	Change in Rebates	Net Change	Projected Outstanding Debt
2023	\$ 15,200,000	\$ 19,340,000	\$ -	\$ (4,140,000)	\$ 112,465,702
2024	19,240,000	16,780,000	(669,733)	1,790,267	114,255,969
2025	18,945,000	14,890,000	(498,069)	3,556,931	117,812,900
2026	21,500,000	14,920,000	(1,077,875)	5,502,125	123,315,025
2027	24,035,000	14,585,000	(1,429,675)	8,020,325	131,335,350

Calculation of Legal Debt Limit

FY	Assessed Value	Debt Limit Value (5%)	Projected Outstanding Debt	Unused Debt Limit	% of Debt Limit Used
2023	7,917,095,920	\$ 395,854,796	\$ 112,465,702	\$ 283,389,094	28%
2024	8,303,685,410	415,184,271	114,255,969	300,928,302	28%
2025	8,974,093,390	448,704,670	117,812,900	330,891,770	26%
2026	9,203,354,133	460,167,707	123,315,025	336,852,682	27%
2027	9,439,492,700	471,974,635	131,335,350	340,639,285	28%

Historical and Projected Use of Debt Limit



Section 3

City of Ankeny, Iowa
2023 - 2027 Capital Improvement Program
 2023 thru 2027

CATEGORY SUMMARY

Category	2023	2024	2025	2026	2027	Total
Bridge/Box Culvert	165,000	965,000	115,000	1,905,000	3,625,000	6,775,000
Municipal Buildings	1,395,000	6,745,000	625,000			8,765,000
Park Facilities	4,985,000	445,000	2,117,000	445,000	945,000	8,937,000
Sanitary Sewers	4,582,000	4,434,000	1,639,000	2,422,000	1,072,000	14,149,000
Sidewalks/Trails	535,000	535,000	535,000	535,000	535,000	2,675,000
Storm Water	2,955,000	4,135,000	4,160,000	2,630,000	4,390,000	18,270,000
Streets and Alleys	23,124,000	17,116,000	16,650,000	27,315,000	14,260,000	98,465,000
Traffic Control	1,655,000	2,000,000	1,490,000	1,525,000	2,200,000	8,870,000
Water Mains	8,222,000	4,162,000	2,491,000	2,913,000	2,035,000	19,823,000
Water Towers/Storage	11,362,000	654,000		90,000	1,187,000	13,293,000
TOTAL	58,980,000	41,191,000	29,822,000	39,780,000	30,249,000	200,022,000

Category	Project #	2023	2024	2025	2026	2027	Total
Storm Water							
Annual Storm Water Replacement Program	STM-00-001	450,000	450,000	450,000	450,000	450,000	2,250,000
Sawgrass Park Dam Improvements	STM-19-004		90,000	445,000			535,000
Four Mile Creek Channel Stabilization-NE 47th St	STM-20-001	65,000	555,000	440,000			1,060,000
High Trestle Trail Channel Stabilization	STM-20-002	480,000	310,000				790,000
Tributary to Four Mile Creek Channel Stabilization	STM-20-004	250,000	1,275,000	1,220,000			2,745,000
Westlawn Area Storm Sewer Improvements	STM-20-005			150,000	250,000	1,640,000	2,040,000
SE 3rd Street Area Trunk Storm Sewer Improvements	STM-20-006		1,275,000				1,275,000
SE 3rd St Area Collection Storm Sewer Improvements	STM-21-001		180,000	1,380,000	1,330,000		2,890,000
Westwinds Storm Sewer Extension	STM-21-002	210,000					210,000
SE Creekview Drive Wetland	STM-22-001	1,500,000					1,500,000
Diamond Hills Greenway Stream Stabilization	STM-22-002			75,000	75,000	1,610,000	1,760,000
Four Mile Creek Channel Stabilization-East 1st St	STM-22-003				160,000	150,000	310,000
Four Mile Creek Channel Stabilization-NE 36th St	STM-22-004				270,000	260,000	530,000
Saylor Creek Tributary Channel Improvements	STM-22-005					190,000	190,000
Four Mile Channel Stabilization-Heritage Park	STM-23-001				95,000	90,000	185,000
Storm Water Total		2,955,000	4,135,000	4,160,000	2,630,000	4,390,000	18,270,000

Streets and Alleys							
Annual PCC Street Patching Program	STR-00-001	1,490,000	1,425,000	1,555,000	1,660,000	1,710,000	7,840,000
Annual Asphalt Street Resurfacing Program	STR-00-002	475,000	475,000	350,000	375,000	350,000	2,025,000
Annual Pavement Preservation Program	STR-00-003	350,000	375,000	400,000	425,000	450,000	2,000,000
Annual Street Replacement Program	STR-00-004	1,450,000	1,725,000	1,750,000	1,750,000	1,750,000	8,425,000
NE Delaware Avenue Reconstruction-5th to 18th	STR-14-006	5,675,000	6,075,000	150,000			11,900,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	STR-16-003		250,000	500,000	4,350,000		5,100,000
N Ankeny Blvd & 18th St Intersection Improvements	STR-18-001	440,000					440,000
NW 36th St Reconstruction-Irvinedale to Abilene	STR-18-003		250,000	800,000	7,750,000	125,000	8,925,000
NW 18th Street Extension-Spruce to Highway 415	STR-18-004					50,000	50,000
NW 36th St Asphalt Overlay-Weigel to Irvinedale	STR-19-004	115,000	1,030,000				1,145,000
SW Oralabor Rd and SW Edgewood Ln Intersection	STR-19-006	200,000					200,000
NW 18th Street Reconstruction-Ash to Ankeny Blvd	STR-20-004	5,400,000					5,400,000
NW 36th Street Widening-Ash to Ankeny Blvd	STR-20-005	125,000					125,000
SW Oralabor Rd and SW State St Intersection	STR-20-008	3,679,000	1,576,000				5,255,000
SW State St Reconstruction-Ordinance to 1st St	STR-21-001	1,825,000					1,825,000
NW Irvinedale Dr and NW 18th St Intersection	STR-21-004	100,000	350,000	3,750,000			4,200,000
South Ankeny Blvd and SE Oralabor Rd Safety Impr	STR-21-005		100,000	250,000		150,000	500,000
Uptown Parking Improvements	STR-21-006	410,000	540,000				950,000
NW Weigel Dr Asphalt Overlay-NW 18 St to NW 36 St	STR-22-002	130,000	1,190,000				1,320,000
West 1st Street Widening and Improvements-Phase 2	STR-22-003		500,000	2,350,000	4,600,000	4,650,000	12,100,000
NW 18th St Reconstruction-NW State St to NW Ash Dr	STR-22-004			100,000	425,000	4,775,000	5,300,000
N Ankeny Boulevard Improvements-1st St to 11th St	STR-23-001	500,000	205,000	4,320,000	330,000		5,355,000
NE Delaware Reconstruction-Four Mile to NE 36th	STR-23-002					250,000	250,000
NW State State Corridor Improvements Study	STR-23-003		100,000				100,000
NW State State Extension Preliminary Design	STR-23-004	500,000					500,000
S Ankeny Blvd Improvements-SE Peterson to 1st St	STR-23-005	200,000	400,000	375,000	5,650,000		6,625,000
SW Magazine & State St Intersection Improvements	STR-23-006	60,000	550,000				610,000
Streets and Alleys Total		23,124,000	17,116,000	16,650,000	27,315,000	14,260,000	98,465,000

Traffic Control							
Annual Traffic Signal Improvement Program	TRF-00-001	1,315,000	990,000	990,000	1,025,000	1,290,000	5,610,000
I-35 & SE Corp Woods Dr Interchange Justification	TRF-21-001	100,000					100,000
Fiber Optic Network Upgrade	TRF-23-001	200,000	625,000	500,000	500,000	910,000	2,735,000
SE Corporate Woods & Crosswinds Traffic Signal	TRF-23-002	40,000	385,000				425,000
Traffic Control Total		1,655,000	2,000,000	1,490,000	1,525,000	2,200,000	8,870,000

Category	Project #	2023	2024	2025	2026	2027	Total
Water Mains							
Annual Water Main Replacement Program	WTM-00-001	765,000	625,000	705,000	760,000	760,000	3,615,000
High Trestle Trail Transmission Main	WTM-17-001	4,254,000					4,254,000
Saylorville Feeder Main Purchase Capacity	WTM-17-008		604,000				604,000
South Ankeny Boulevard Transmission Main	WTM-18-001	2,950,000					2,950,000
South Ankeny Boulevard Water Main Improvements	WTM-19-001			222,000	2,028,000		2,250,000
NW State Street Water Main Improvements	WTM-19-003				125,000	1,275,000	1,400,000
SW Walnut Street and SW Ordinance Road Water Main	WTM-20-002		211,000	1,564,000			1,775,000
NE 36th St and NE 38th St Water Main Loop	WTM-21-009	253,000	2,722,000				2,975,000
Water Mains Total		8,222,000	4,162,000	2,491,000	2,913,000	2,035,000	19,823,000
Water Towers/Storage							
Northwest Water Tower	WTT-19-002	10,945,000					10,945,000
SE Delaware Ground Storage Tank Repaint	WTT-20-001	367,000					367,000
SE Magazine Ground Storage Tank Repaint	WTT-20-002	50,000	654,000				704,000
SW Irvinedale Elevated Storage Tank Repaint	WTT-23-001				90,000	1,187,000	1,277,000
Water Towers/Storage Total		11,362,000	654,000		90,000	1,187,000	13,293,000
GRAND TOTAL		58,980,000	41,191,000	29,822,000	39,780,000	30,249,000	200,022,000

City of Ankeny, Iowa
 2023 - 2027 Capital Improvement Program
 2023 thru 2027

PROJECTS BY YEAR

Project Name	Department	Project #	Project Cost
2023			
Fire Station No. 4	Administration	BLD-20-002	1,080,000
Lakeside Center Renovation	Parks and Recreation	BLD-21-001	265,000
Public Works Satellite Salt Storage Facility	Public Works	BLD-21-002	50,000
NE Frisk Drive Bridge over Deer Creek	Public Works	BRG-22-001	90,000
NE 62nd Street RCB Culvert for Four Mile Creek	Public Works	BRG-23-001	75,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	450,000
Des Moines Street Parks	Parks and Recreation	PRK-21-002	2,490,000
High Trestle Trail Experience Park	Parks and Recreation	PRK-22-005	700,000
Cherry Glen Ballfield	Parks and Recreation	PRK-22-006	625,000
Prairie Ridge Sports Complex Tennis Courts Overlay	Parks and Recreation	PRK-23-001	720,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	535,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	745,000
Otter Creek Trunk Sewer-Phase 4	Sewer Utility	SNS-12-001	252,000
Four Mile Creek Trunk Sewer	Sewer Utility	SNS-20-001	2,765,000
Trestle Ridge Trunk Sewer Cost Share	Sewer Utility	SNS-22-001	300,000
NE Crestmoor Sanitary Sewer Replacement	Sewer Utility	SNS-22-002	520,000
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	450,000
Four Mile Creek Channel Stabilization-NE 47th St	Storm Water Utility	STM-20-001	65,000
High Trestle Trail Channel Stabilization	Storm Water Utility	STM-20-002	480,000
Tributary to Four Mile Creek Channel Stabilization	Storm Water Utility	STM-20-004	250,000
Westwinds Storm Sewer Extension	Storm Water Utility	STM-21-002	210,000
SE Creekview Drive Wetland	Storm Water Utility	STM-22-001	1,500,000
Annual PCC Street Patching Program	Public Works	STR-00-001	1,490,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	475,000
Annual Pavement Preservation Program	Public Works	STR-00-003	350,000
Annual Street Replacement Program	Public Works	STR-00-004	1,450,000
NE Delaware Avenue Reconstruction-5th to 18th	Public Works	STR-14-006	5,675,000
N Ankeny Blvd & 18th St Intersection Improvements	Public Works	STR-18-001	440,000
NW 36th St Asphalt Overlay-Weigel to Irvinedale	Public Works	STR-19-004	115,000
SW Oralabor Rd and SW Edgewood Ln Intersection	Public Works	STR-19-006	200,000
NW 18th Street Reconstruction-Ash to Ankeny Blvd	Public Works	STR-20-004	5,400,000
NW 36th Street Widening-Ash to Ankeny Blvd	Public Works	STR-20-005	125,000
SW Oralabor Rd and SW State St Intersection	Public Works	STR-20-008	3,679,000
SW State St Reconstruction-Ordnance to 1st St	Public Works	STR-21-001	1,825,000
NW Irvinedale Dr and NW 18th St Intersection	Public Works	STR-21-004	100,000
Uptown Parking Improvements	Public Works	STR-21-006	410,000
NW Weigel Dr Asphalt Overlay-NW 18 St to NW 36 St	Public Works	STR-22-002	130,000
N Ankeny Boulevard Improvements-1st St to 11th St	Public Works	STR-23-001	500,000
NW State State Extension Preliminary Design	Public Works	STR-23-004	500,000
S Ankeny Blvd Improvements-SE Peterson to 1st St	Public Works	STR-23-005	200,000
SW Magazine & State St Intersection Improvements	Public Works	STR-23-006	60,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	1,315,000
I-35 & SE Corp Woods Dr Interchange Justification	Public Works	TRF-21-001	100,000
Fiber Optic Network Upgrade	Public Works	TRF-23-001	200,000

Project Name	Department	Project #	Project Cost
SE Corporate Woods & Crosswinds Traffic Signal	Public Works	TRF-23-002	40,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	765,000
High Trestle Trail Transmission Main	Water Utility	WTM-17-001	4,254,000
South Ankeny Boulevard Transmission Main	Water Utility	WTM-18-001	2,950,000
NE 36th St and NE 38th St Water Main Loop	Water Utility	WTM-21-009	253,000
Northwest Water Tower	Water Utility	WTT-19-002	10,945,000
SE Delaware Ground Storage Tank Repaint	Water Utility	WTT-20-001	367,000
SE Magazine Ground Storage Tank Repaint	Water Utility	WTT-20-002	50,000
Total for 2023			58,980,000

2024

Fire Station No. 4	Administration	BLD-20-002	6,270,000
Public Works Satellite Salt Storage Facility	Public Works	BLD-21-002	475,000
SE Frisk Drive RCB Culvert for Four Mile Creek	Public Works	BRG-20-001	375,000
NE 62nd Street RCB Culvert for Four Mile Creek	Public Works	BRG-23-001	590,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	445,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	535,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	1,130,000
Otter Creek Trunk Sewer-Phase 4	Sewer Utility	SNS-12-001	1,673,000
SE 3rd Street Trunk Sewer Extension	Sewer Utility	SNS-20-002	1,130,000
Trestle Ridge Trunk Sewer Cost Share	Sewer Utility	SNS-22-001	400,000
Clover Ridge Trunk Sewer Extension	Sewer Utility	SNS-22-003	101,000
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	450,000
Sawgrass Park Dam Improvements	Storm Water Utility	STM-19-004	90,000
Four Mile Creek Channel Stabilization-NE 47th St	Storm Water Utility	STM-20-001	555,000
High Trestle Trail Channel Stabilization	Storm Water Utility	STM-20-002	310,000
Tributary to Four Mile Creek Channel Stabilization	Storm Water Utility	STM-20-004	1,275,000
SE 3rd Street Area Trunk Storm Sewer Improvements	Storm Water Utility	STM-20-006	1,275,000
SE 3rd St Area Collection Storm Sewer Improvements	Storm Water Utility	STM-21-001	180,000
Annual PCC Street Patching Program	Public Works	STR-00-001	1,425,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	475,000
Annual Pavement Preservation Program	Public Works	STR-00-003	375,000
Annual Street Replacement Program	Public Works	STR-00-004	1,725,000
NE Delaware Avenue Reconstruction-5th to 18th	Public Works	STR-14-006	6,075,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	Public Works	STR-16-003	250,000
NW 36th St Reconstruction-Irvinedale to Abilene	Public Works	STR-18-003	250,000
NW 36th St Asphalt Overlay-Weigel to Irvinedale	Public Works	STR-19-004	1,030,000
SW Oralabor Rd and SW State St Intersection	Public Works	STR-20-008	1,576,000
NW Irvinedale Dr and NW 18th St Intersection	Public Works	STR-21-004	350,000
South Ankeny Blvd and SE Oralabor Rd Safety Impr	Public Works	STR-21-005	100,000
Uptown Parking Improvements	Public Works	STR-21-006	540,000
NW Weigel Dr Asphalt Overlay-NW 18 St to NW 36 St	Public Works	STR-22-002	1,190,000
West 1st Street Widening and Improvements-Phase 2	Public Works	STR-22-003	500,000
N Ankeny Boulevard Improvements-1st St to 11th St	Public Works	STR-23-001	205,000
NW State State Corridor Improvements Study	Public Works	STR-23-003	100,000
S Ankeny Blvd Improvements-SE Peterson to 1st St	Public Works	STR-23-005	400,000
SW Magazine & State St Intersection Improvements	Public Works	STR-23-006	550,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	990,000
Fiber Optic Network Upgrade	Public Works	TRF-23-001	625,000
SE Corporate Woods & Crosswinds Traffic Signal	Public Works	TRF-23-002	385,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	625,000
Saylorville Feeder Main Purchase Capacity	Water Utility	WTM-17-008	604,000
SW Walnut Street and SW Ordnance Road Water Main	Water Utility	WTM-20-002	211,000
NE 36th St and NE 38th St Water Main Loop	Water Utility	WTM-21-009	2,722,000
SE Magazine Ground Storage Tank Repaint	Water Utility	WTT-20-002	654,000

Project Name	Department	Project #	Project Cost
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Total for 2024

41,191,000

2025

Fire Station No. 4	Administration	BLD-20-002	625,000
NW Reinhart Drive RCB Culvert for Rock Creek	Public Works	BRG-22-003	115,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	445,000
Hawkeye Park Tennis Courts Reconstruction	Parks and Recreation	PRK-18-003	850,000
Des Moines Street Parks	Parks and Recreation	PRK-21-002	322,000
High Trestle Trail Experience Park	Parks and Recreation	PRK-22-005	500,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	535,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	710,000
Clover Ridge Trunk Sewer Extension	Sewer Utility	SNS-22-003	824,000
Polk County Lift Station Decommissioning	Sewer Utility	SNS-22-004	105,000
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	450,000
Sawgrass Park Dam Improvements	Storm Water Utility	STM-19-004	445,000
Four Mile Creek Channel Stabilization-NE 47th St	Storm Water Utility	STM-20-001	440,000
Tributary to Four Mile Creek Channel Stabilization	Storm Water Utility	STM-20-004	1,220,000
Westlawn Area Storm Sewer Improvements	Storm Water Utility	STM-20-005	150,000
SE 3rd St Area Collection Storm Sewer Improvements	Storm Water Utility	STM-21-001	1,380,000
Diamond Hills Greenway Stream Stabilization	Storm Water Utility	STM-22-002	75,000
Annual PCC Street Patching Program	Public Works	STR-00-001	1,555,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	350,000
Annual Pavement Preservation Program	Public Works	STR-00-003	400,000
Annual Street Replacement Program	Public Works	STR-00-004	1,750,000
NE Delaware Avenue Reconstruction-5th to 18th	Public Works	STR-14-006	150,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	Public Works	STR-16-003	500,000
NW 36th St Reconstruction-Irvinedale to Abilene	Public Works	STR-18-003	800,000
NW Irvinedale Dr and NW 18th St Intersection	Public Works	STR-21-004	3,750,000
South Ankeny Blvd and SE Oralabor Rd Safety Impr	Public Works	STR-21-005	250,000
West 1st Street Widening and Improvements-Phase 2	Public Works	STR-22-003	2,350,000
NW 18th St Reconstruction-NW State St to NW Ash Dr	Public Works	STR-22-004	100,000
N Ankeny Boulevard Improvements-1st St to 11th St	Public Works	STR-23-001	4,320,000
S Ankeny Blvd Improvements-SE Peterson to 1st St	Public Works	STR-23-005	375,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	990,000
Fiber Optic Network Upgrade	Public Works	TRF-23-001	500,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	705,000
South Ankeny Boulevard Water Main Improvements	Water Utility	WTM-19-001	222,000
SW Walnut Street and SW Ordnance Road Water Main	Water Utility	WTM-20-002	1,564,000

Total for 2025

29,822,000

2026

NE 18th Street Bridge over Interstate 35	Public Works	BRG-22-002	750,000
NW Reinhart Drive RCB Culvert for Rock Creek	Public Works	BRG-22-003	1,025,000
NE Spectrum Drive RCB Culvert for Otter Creek	Public Works	BRG-22-004	130,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	445,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	535,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	1,265,000
Polk County Lift Station Decommissioning	Sewer Utility	SNS-22-004	1,146,000
SW Irvinedale Drive Sanitary Sewer Replacement	Sewer Utility	SNS-23-002	11,000
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	450,000
Westlawn Area Storm Sewer Improvements	Storm Water Utility	STM-20-005	250,000
SE 3rd St Area Collection Storm Sewer Improvements	Storm Water Utility	STM-21-001	1,330,000
Diamond Hills Greenway Stream Stabilization	Storm Water Utility	STM-22-002	75,000
Four Mile Creek Channel Stabilization-East 1st St	Storm Water Utility	STM-22-003	160,000
Four Mile Creek Channel Stabilization-NE 36th St	Storm Water Utility	STM-22-004	270,000

Project Name	Department	Project #	Project Cost
Four Mile Channel Stabilization-Heritage Park	Storm Water Utility	STM-23-001	95,000
Annual PCC Street Patching Program	Public Works	STR-00-001	1,660,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	375,000
Annual Pavement Preservation Program	Public Works	STR-00-003	425,000
Annual Street Replacement Program	Public Works	STR-00-004	1,750,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	Public Works	STR-16-003	4,350,000
NW 36th St Reconstruction-Irvinedale to Abilene	Public Works	STR-18-003	7,750,000
West 1st Street Widening and Improvements-Phase 2	Public Works	STR-22-003	4,600,000
NW 18th St Reconstruction-NW State St to NW Ash Dr	Public Works	STR-22-004	425,000
N Ankeny Boulevard Improvements-1st St to 11th St	Public Works	STR-23-001	330,000
S Ankeny Blvd Improvements-SE Peterson to 1st St	Public Works	STR-23-005	5,650,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	1,025,000
Fiber Optic Network Upgrade	Public Works	TRF-23-001	500,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	760,000
South Ankeny Boulevard Water Main Improvements	Water Utility	WTM-19-001	2,028,000
NW State Street Water Main Improvements	Water Utility	WTM-19-003	125,000
SW Irvinedale Elevated StorageTank Repair	Water Utility	WTT-23-001	90,000
Total for 2026			39,780,000

2027

NE 18th Street Bridge over Interstate 35	Public Works	BRG-22-002	2,450,000
NE Spectrum Drive RCB Culvert for Otter Creek	Public Works	BRG-22-004	1,175,000
Annual Park Development Program	Parks and Recreation	PRK-00-002	445,000
High Trestle Trail Experience Park	Parks and Recreation	PRK-22-005	500,000
Annual Sidewalk/Trail Construction Program	Public Works	SDW-00-001	535,000
Annual Sanitary Sewer Replacement Program	Sewer Utility	SNS-00-001	765,000
SW Irvinedale Drive Sanitary Sewer Replacement	Sewer Utility	SNS-23-002	114,000
Deer Creek Trunk Sewer Extension	Sewer Utility	SNS-23-003	193,000
Annual Storm Water Replacement Program	Storm Water Utility	STM-00-001	450,000
Westlawn Area Storm Sewer Improvements	Storm Water Utility	STM-20-005	1,640,000
Diamond Hills Greenway Stream Stabilization	Storm Water Utility	STM-22-002	1,610,000
Four Mile Creek Channel Stabilization-East 1st St	Storm Water Utility	STM-22-003	150,000
Four Mile Creek Channel Stabilization-NE 36th St	Storm Water Utility	STM-22-004	260,000
Saylor Creek Tributary Channel Improvements	Storm Water Utility	STM-22-005	190,000
Four Mile Channel Stabilization-Heritage Park	Storm Water Utility	STM-23-001	90,000
Annual PCC Street Patching Program	Public Works	STR-00-001	1,710,000
Annual Asphalt Street Resurfacing Program	Public Works	STR-00-002	350,000
Annual Pavement Preservation Program	Public Works	STR-00-003	450,000
Annual Street Replacement Program	Public Works	STR-00-004	1,750,000
NW 36th St Reconstruction-Irvinedale to Abilene	Public Works	STR-18-003	125,000
NW 18th Street Extension-Spruce to Highway 415	Public Works	STR-18-004	50,000
South Ankeny Blvd and SE Oralabor Rd Safety Impr	Public Works	STR-21-005	150,000
West 1st Street Widening and Improvements-Phase 2	Public Works	STR-22-003	4,650,000
NW 18th St Reconstruction-NW State St to NW Ash Dr	Public Works	STR-22-004	4,775,000
NE Delaware Reconstruction-Four Mile to NE 36th	Public Works	STR-23-002	250,000
Annual Traffic Signal Improvement Program	Public Works	TRF-00-001	1,290,000
Fiber Optic Network Upgrade	Public Works	TRF-23-001	910,000
Annual Water Main Replacement Program	Water Utility	WTM-00-001	760,000
NW State Street Water Main Improvements	Water Utility	WTM-19-003	1,275,000
SW Irvinedale Elevated StorageTank Repair	Water Utility	WTT-23-001	1,187,000
Total for 2027			30,249,000

GRAND TOTAL

200,022,000

City of Ankeny, Iowa
2023 - 2027 Capital Improvement Program
 2023 thru 2027

FUNDING SOURCE SUMMARY

Source	2023	2024	2025	2026	2027	Total
Capital Project Fund	11,628,087	1,804,752	655,000	3,675,000	160,000	17,922,839
Capital Reserve Fund	495,000	6,270,000	625,000			7,390,000
Civic Trust Fund	2,615,000		322,000			2,937,000
County Contributions	50,000					50,000
FHWA/IDOT Grants	1,672,500	622,500	2,675,000	6,500,000		11,470,000
G.O. Bonds	14,470,000	15,590,000	13,905,000	15,740,000	14,585,000	74,290,000
G.O. Bonds - Storm Water Abated	250,000	2,365,000	2,440,000	1,560,000	3,325,000	9,940,000
G.O. Bonds - TIF Abated	272,000	1,040,000	2,350,000	3,928,500	5,825,000	13,415,500
Hotel/Motel Tax Fund	300,000		400,000		400,000	1,100,000
MPO/STBG Grants	2,605,413	1,973,748		1,151,500		5,730,661
Other Grants	1,350,000	920,000	970,000	220,000	315,000	3,775,000
Park Dedication Fund	80,000	80,000	80,000	80,000	80,000	400,000
Private Contributions	510,000	80,000				590,000
Road Use Tax Fund	2,275,000	1,150,000	575,000	575,000	575,000	5,150,000
Sewer Fund	4,237,000	3,704,000	1,639,000	1,907,000	1,072,000	12,559,000
Special Assessments	255,000			750,000		1,005,000
Storm Water Fund	750,000	800,000	800,000	850,000	850,000	4,050,000
Water Fund	1,270,000	600,000	600,000	815,000	600,000	3,885,000
Water Revenue Bonds	13,895,000	4,191,000	1,786,000	2,028,000	2,462,000	24,362,000
GRAND TOTAL	58,980,000	41,191,000	29,822,000	39,780,000	30,249,000	200,022,000

City of Ankeny, Iowa
 2023 - 2027 Capital Improvement Program
 2023 thru 2027

PROJECTS BY FUNDING SOURCE

Source	Project #	2023	2024	2025	2026	2027	Total
Capital Project Fund							
Fire Station No. 4	<i>BLD-20-002</i>	150,000					150,000
Annual Park Development Program	<i>PRK-00-002</i>	5,000					5,000
High Trestle Trail Experience Park	<i>PRK-22-005</i>	400,000					400,000
Cherry Glen Ballfield	<i>PRK-22-006</i>	500,000					500,000
Prairie Ridge Sports Complex Tennis Courts Overlay	<i>PRK-23-001</i>	100,000					100,000
Annual Sanitary Sewer Replacement Program	<i>SNS-00-001</i>	45,000	430,000		515,000		990,000
Trestle Ridge Trunk Sewer Cost Share	<i>SNS-22-001</i>	300,000	300,000				600,000
Annual Storm Water Replacement Program	<i>STM-00-001</i>	100,000	50,000	50,000			200,000
High Trestle Trail Channel Stabilization	<i>STM-20-002</i>	165,000					165,000
Westwinds Storm Sewer Extension	<i>STM-21-002</i>	190,000					190,000
NE Delaware Avenue Reconstruction-5th to 18th	<i>STR-14-006</i>	1,500,000					1,500,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	<i>STR-16-003</i>		250,000	500,000	3,000,000		3,750,000
SW Oralabor Rd and SW State St Intersection	<i>STR-20-008</i>	1,751,087	749,752				2,500,839
SW State St Reconstruction-Ordinance to 1st St	<i>STR-21-001</i>	1,825,000					1,825,000
Uptown Parking Improvements	<i>STR-21-006</i>	138,000					138,000
Annual Traffic Signal Improvement Program	<i>TRF-00-001</i>	40,000					40,000
Annual Water Main Replacement Program	<i>WTM-00-001</i>	165,000	25,000	105,000	160,000	160,000	615,000
High Trestle Trail Transmission Main	<i>WTM-17-001</i>	4,254,000					4,254,000
Capital Project Fund Total		11,628,087	1,804,752	655,000	3,675,000	160,000	17,922,839
Capital Reserve Fund							
Fire Station No. 4	<i>BLD-20-002</i>	230,000	6,270,000	625,000			7,125,000
Lakeside Center Renovation	<i>BLD-21-001</i>	265,000					265,000
Capital Reserve Fund Total		495,000	6,270,000	625,000			7,390,000
Civic Trust Fund							
Des Moines Street Parks	<i>PRK-21-002</i>	2,490,000		322,000			2,812,000
Cherry Glen Ballfield	<i>PRK-22-006</i>	125,000					125,000
Civic Trust Fund Total		2,615,000		322,000			2,937,000
County Contributions							
SW Oralabor Rd and SW Edgewood Ln Intersection	<i>STR-19-006</i>	50,000					50,000
County Contributions Total		50,000					50,000
FHWA/IDOT Grants							
NE Delaware Avenue Reconstruction-5th to 18th	<i>STR-14-006</i>	250,000	250,000				500,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	<i>STR-16-003</i>				1,000,000		1,000,000
N Ankeny Blvd & 18th St Intersection Improvements	<i>STR-18-001</i>	200,000					200,000
SW Oralabor Rd and SW Edgewood Ln Intersection	<i>STR-19-006</i>	100,000					100,000

Source	Project #	2023	2024	2025	2026	2027	Total
SW Oralabor Rd and SW State St Intersection	STR-20-008	822,500	352,500				1,175,000
N Ankeny Boulevard Improvements-1st St to 11th St	STR-23-001	250,000	20,000	2,450,000			2,720,000
S Ankeny Blvd Improvements-SE Peterson to 1st St	STR-23-005			225,000	5,500,000		5,725,000
I-35 & SE Corp Woods Dr Interchange Justification	TRF-21-001	50,000					50,000
FHWA/IDOT Grants Total		1,672,500	622,500	2,675,000	6,500,000		11,470,000

G.O. Bonds

Fire Station No. 4	BLD-20-002	700,000					700,000
SE Frisk Drive RCB Culvert for Four Mile Creek	BRG-20-001		375,000				375,000
NE Frisk Drive Bridge over Deer Creek	BRG-22-001	90,000					90,000
NE 18th Street Bridge over Interstate 35	BRG-22-002				750,000	2,450,000	3,200,000
NW Reinhart Drive RCB Culvert for Rock Creek	BRG-22-003			115,000	1,025,000		1,140,000
NE 62nd Street RCB Culvert for Four Mile Creek	BRG-23-001	75,000	590,000				665,000
Annual Park Development Program	PRK-00-002	365,000	365,000	365,000	365,000	365,000	1,825,000
Hawkeye Park Tennis Courts Reconstruction	PRK-18-003			850,000			850,000
Prairie Ridge Sports Complex Tennis Courts Overlay	PRK-23-001	260,000					260,000
Annual Sidewalk/Trail Construction Program	SDW-00-001	210,000	210,000	210,000	210,000	210,000	1,050,000
Annual PCC Street Patching Program	STR-00-001	1,490,000	1,425,000	1,555,000	1,660,000	1,710,000	7,840,000
Annual Asphalt Street Resurfacing Program	STR-00-002	475,000	475,000	350,000	375,000	350,000	2,025,000
Annual Pavement Preservation Program	STR-00-003	350,000	375,000	400,000	425,000	450,000	2,000,000
Annual Street Replacement Program	STR-00-004		1,725,000	1,750,000	1,750,000	1,750,000	6,975,000
NE Delaware Avenue Reconstruction-5th to 18th	STR-14-006	2,170,000	4,325,000	150,000			6,645,000
N Ankeny Blvd & 18th St Intersection Improvements	STR-18-001	240,000					240,000
NW 36th St Reconstruction-Irvinedale to Abilene	STR-18-003		250,000	800,000	7,000,000	125,000	8,175,000
NW 18th Street Extension-Spruce to Highway 415	STR-18-004					50,000	50,000
NW 36th St Asphalt Overlay-Weigel to Irvinedale	STR-19-004	115,000	1,030,000				1,145,000
SW Oralabor Rd and SW Edgewood Ln Intersection	STR-19-006	50,000					50,000
NW 18th Street Reconstruction-Ash to Ankeny Blvd	STR-20-004	5,400,000					5,400,000
NW 36th Street Widening-Ash to Ankeny Blvd	STR-20-005	125,000					125,000
NW Irvinedale Dr and NW 18th St Intersection	STR-21-004	100,000	350,000	3,750,000			4,200,000
South Ankeny Blvd and SE Oralabor Rd Safety Impr	STR-21-005		100,000	250,000		150,000	500,000
NW Weigel Dr Asphalt Overlay-NW 18 St to NW 36 St	STR-22-002	130,000	1,190,000				1,320,000
NW 18th St Reconstruction-NW State St to NW Ash Dr	STR-22-004			100,000	425,000	4,775,000	5,300,000
N Ankeny Boulevard Improvements-1st St to 11th St	STR-23-001	250,000	185,000	1,870,000	330,000		2,635,000
NE Delaware Reconstruction-Four Mile to NE 36th	STR-23-002					250,000	250,000
NW State State Extension Preliminary Design	STR-23-004	500,000					500,000
S Ankeny Blvd Improvements-SE Peterson to 1st St	STR-23-005	200,000	400,000	150,000	150,000		900,000
SW Magazine & State St Intersection Improvements	STR-23-006	60,000	550,000				610,000
Annual Traffic Signal Improvement Program	TRF-00-001	875,000	740,000	740,000	775,000	1,040,000	4,170,000
Fiber Optic Network Upgrade	TRF-23-001	200,000	625,000	500,000	500,000	910,000	2,735,000
SE Corporate Woods & Crosswinds Traffic Signal	TRF-23-002	40,000	305,000				345,000
G.O. Bonds Total		14,470,000	15,590,000	13,905,000	15,740,000	14,585,000	74,290,000

G.O. Bonds - Storm Water Abated

Sawgrass Park Dam Improvements	STM-19-004		90,000	445,000			535,000
Four Mile Creek Channel Stabilization-NE 47th St	STM-20-001		275,000	210,000			485,000
High Trestle Trail Channel Stabilization	STM-20-002		310,000				310,000
Tributary to Four Mile Creek Channel Stabilization	STM-20-004	250,000	235,000	180,000			665,000
Westlawn Area Storm Sewer Improvements	STM-20-005			150,000	250,000	1,240,000	1,640,000
SE 3rd Street Area Trunk Storm Sewer Improvements	STM-20-006		1,275,000				1,275,000
SE 3rd St Area Collection Storm Sewer Improvements	STM-21-001		180,000	1,380,000	930,000		2,490,000
Diamond Hills Greenway Stream Stabilization	STM-22-002			75,000	75,000	1,610,000	1,760,000

Source	Project #	2023	2024	2025	2026	2027	Total
Four Mile Creek Channel Stabilization-East 1st St	STM-22-003				95,000	90,000	185,000
Four Mile Creek Channel Stabilization-NE 36th St	STM-22-004				165,000	155,000	320,000
Saylor Creek Tributary Channel Improvements	STM-22-005					190,000	190,000
Four Mile Channel Stabilization-Heritage Park	STM-23-001				45,000	40,000	85,000
G.O. Bonds - Storm Water Abated Total		250,000	2,365,000	2,440,000	1,560,000	3,325,000	9,940,000
G.O. Bonds - TIF Abated							
NE Spectrum Drive RCB Culvert for Otter Creek	BRG-22-004				130,000	1,175,000	1,305,000
SW Oralabor Rd and SW Irvinedale Dr Intersection	STR-16-003				350,000		350,000
Uptown Parking Improvements	STR-21-006	272,000	540,000				812,000
West 1st Street Widening and Improvements-Phase 2	STR-22-003		500,000	2,350,000	3,448,500	4,650,000	10,948,500
G.O. Bonds - TIF Abated Total		272,000	1,040,000	2,350,000	3,928,500	5,825,000	13,415,500
Hotel/Motel Tax Fund							
High Trestle Trail Experience Park	PRK-22-005	300,000		400,000		400,000	1,100,000
Hotel/Motel Tax Fund Total		300,000		400,000		400,000	1,100,000
MPO/STBG Grants							
NE Delaware Avenue Reconstruction-5th to 18th	STR-14-006	1,500,000	1,500,000				3,000,000
SW Oralabor Rd and SW State St Intersection	STR-20-008	1,105,413	473,748				1,579,161
West 1st Street Widening and Improvements-Phase 2	STR-22-003				1,151,500		1,151,500
MPO/STBG Grants Total		2,605,413	1,973,748		1,151,500		5,730,661
Other Grants							
High Trestle Trail Experience Park	PRK-22-005			100,000		100,000	200,000
Four Mile Creek Channel Stabilization-NE 47th St	STM-20-001		280,000	230,000			510,000
Tributary to Four Mile Creek Channel Stabilization	STM-20-004		640,000	640,000			1,280,000
SE Creekview Drive Wetland	STM-22-001	1,350,000					1,350,000
Four Mile Creek Channel Stabilization-East 1st St	STM-22-003				65,000	60,000	125,000
Four Mile Creek Channel Stabilization-NE 36th St	STM-22-004				105,000	105,000	210,000
Four Mile Channel Stabilization-Heritage Park	STM-23-001				50,000	50,000	100,000
Other Grants Total		1,350,000	920,000	970,000	220,000	315,000	3,775,000
Park Dedication Fund							
Annual Park Development Program	PRK-00-002	80,000	80,000	80,000	80,000	80,000	400,000
Park Dedication Fund Total		80,000	80,000	80,000	80,000	80,000	400,000
Private Contributions							
Prairie Ridge Sports Complex Tennis Courts Overlay	PRK-23-001	360,000					360,000
SE Creekview Drive Wetland	STM-22-001	150,000					150,000
SE Corporate Woods & Crosswinds Traffic Signal	TRF-23-002		80,000				80,000
Private Contributions Total		510,000	80,000				590,000
Road Use Tax Fund							
Public Works Satellite Salt Storage Facility	BLD-21-002	50,000	475,000				525,000

Source	Project #	2023	2024	2025	2026	2027	Total
Annual Sidewalk/Trail Construction Program	SDW-00-001	325,000	325,000	325,000	325,000	325,000	1,625,000
Annual Street Replacement Program	STR-00-004	1,450,000					1,450,000
NW State State Corridor Improvements Study	STR-23-003		100,000				100,000
Annual Traffic Signal Improvement Program	TRF-00-001	400,000	250,000	250,000	250,000	250,000	1,400,000
I-35 & SE Corp Woods Dr Interchange Justification	TRF-21-001	50,000					50,000
Road Use Tax Fund Total		2,275,000	1,150,000	575,000	575,000	575,000	5,150,000

Sewer Fund

Annual Sanitary Sewer Replacement Program	SNS-00-001	700,000	700,000	710,000	750,000	765,000	3,625,000
Otter Creek Trunk Sewer-Phase 4	SNS-12-001	252,000	1,673,000				1,925,000
Four Mile Creek Trunk Sewer	SNS-20-001	2,765,000					2,765,000
SE 3rd Street Trunk Sewer Extension	SNS-20-002		1,130,000				1,130,000
Trestle Ridge Trunk Sewer Cost Share	SNS-22-001		100,000				100,000
NE Crestmoor Sanitary Sewer Replacement	SNS-22-002	520,000					520,000
Clover Ridge Trunk Sewer Extension	SNS-22-003		101,000	824,000			925,000
Polk County Lift Station Decommissioning	SNS-22-004			105,000	1,146,000		1,251,000
SW Irvinedale Drive Sanitary Sewer Replacement	SNS-23-002				11,000	114,000	125,000
Deer Creek Trunk Sewer Extension	SNS-23-003					193,000	193,000
Sewer Fund Total		4,237,000	3,704,000	1,639,000	1,907,000	1,072,000	12,559,000

Special Assessments

NE Delaware Avenue Reconstruction-5th to 18th	STR-14-006	255,000					255,000
NW 36th St Reconstruction-Irvinedale to Abilene	STR-18-003				750,000		750,000
Special Assessments Total		255,000			750,000		1,005,000

Storm Water Fund

Annual Storm Water Replacement Program	STM-00-001	350,000	400,000	400,000	450,000	450,000	2,050,000
Four Mile Creek Channel Stabilization-NE 47th St	STM-20-001	65,000					65,000
High Trestle Trail Channel Stabilization	STM-20-002	315,000					315,000
Tributary to Four Mile Creek Channel Stabilization	STM-20-004		400,000	400,000			800,000
Westlawn Area Storm Sewer Improvements	STM-20-005					400,000	400,000
SE 3rd St Area Collection Storm Sewer Improvements	STM-21-001				400,000		400,000
Westwinds Storm Sewer Extension	STM-21-002	20,000					20,000
Storm Water Fund Total		750,000	800,000	800,000	850,000	850,000	4,050,000

Water Fund

Annual Water Main Replacement Program	WTM-00-001	600,000	600,000	600,000	600,000	600,000	3,000,000
NW State Street Water Main Improvements	WTM-19-003				125,000		125,000
NE 36th St and NE 38th St Water Main Loop	WTM-21-009	253,000					253,000
SE Delaware Ground Storage Tank Repaint	WTT-20-001	367,000					367,000
SE Magazine Ground Storage Tank Repaint	WTT-20-002	50,000					50,000
SW Irvinedale Elevated Storage Tank Repaint	WTT-23-001				90,000		90,000
Water Fund Total		1,270,000	600,000	600,000	815,000	600,000	3,885,000

Water Revenue Bonds

Saylorville Feeder Main Purchase Capacity	WTM-17-008		604,000				604,000
South Ankeny Boulevard Transmission Main	WTM-18-001	2,950,000					2,950,000
South Ankeny Boulevard Water Main Improvements	WTM-19-001			222,000	2,028,000		2,250,000

Source	Project #	2023	2024	2025	2026	2027	Total
NW State Street Water Main Improvements	<i>WTM-19-003</i>					1,275,000	<i>1,275,000</i>
SW Walnut Street and SW Ordnance Road Water Main	<i>WTM-20-002</i>		211,000	1,564,000			<i>1,775,000</i>
NE 36th St and NE 38th St Water Main Loop	<i>WTM-21-009</i>		2,722,000				<i>2,722,000</i>
Northwest Water Tower	<i>WTT-19-002</i>	10,945,000					<i>10,945,000</i>
SE Magazine Ground Storage Tank Repaint	<i>WTT-20-002</i>		654,000				<i>654,000</i>
SW Irvinedale Elevated Storage Tank Repaint	<i>WTT-23-001</i>					1,187,000	<i>1,187,000</i>
Water Revenue Bonds Total		13,895,000	4,191,000	1,786,000	2,028,000	2,462,000	24,362,000
GRAND TOTAL		58,980,000	41,191,000	29,822,000	39,780,000	30,249,000	200,022,000

Section 4

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Administration
Contact Assistant City Manager
Type New Construction
Useful Life 40 years
Category Municipal Buildings

Project #	BLD-20-002
Project Name	Fire Station No. 4

Description

This project will build a fourth fire station in northwest Ankeny, utilizing the same basic design as existing Fire Station No. 2 and 3. The new station will be located within ½ mile of the intersection of NW Weigel Drive and NW 18th Street, pending the acquisition of suitable land near that location. The acquisition cost for the land for this project was included in the 2021 CIP, however a larger footprint is desired, 2.5 acres, and carries a higher cost.

The design for the new fire station is recommended to be advanced from CY 2024 to CY 2023 for the purpose of accommodating a longer construction schedule for the facility. Construction is expected to begin in CY 2023, with construction completed in CY 2025. Occupancy is projected to take place on or about July 2025.

Justification

The City of Ankeny continues to experience strong commercial and residential growth. A large percentage of new residential construction is occurring within the northwest quadrant of the City. Past experience across the United States shows that residential buildings represent the highest risk to the community for both fire injuries and deaths. Additionally, the successful response to medical emergencies is most effective when paramedics arrive within five minutes of the 911 call for service. As this rapid growth continues over the next several years, call volume and the travel time for emergency vehicles to answer emergency calls for service in northwest Ankeny from the existing fire stations in the center of town and the northeast quadrant also continue to increase.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design	250,000					250,000
Engineering-Construction Services		75,000	25,000			100,000
Construction Costs	600,000	5,400,000	600,000			6,600,000
Land/ROW Acquisition	230,000					230,000
Other Costs		795,000				795,000
Total	1,080,000	6,270,000	625,000			7,975,000

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Project Fund	150,000					150,000
Capital Reserve Fund	230,000	6,270,000	625,000			7,125,000
G.O. Bonds	700,000					700,000
Total	1,080,000	6,270,000	625,000			7,975,000

Budget Impact/Other

The new building will require the purchase of a fire engine and ambulance as well as furniture, fixtures and equipment (FF&E) for use by City employees. There will also be regular maintenance and repairs needed after the warranty period from the building contractor expires. There will be monthly charges for services from utilities, such as electric, natural gas, garbage pickup, fiber optic internet access, cable tv, etc. The exact costs for these services will be determined when the new building is designed. The impact on 911 emergency response time in the northwest area of the City will be improved when the new fire station is opened, equipped and staffed with trained personnel.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs			4,000	4,000	4,000	12,000
Utilities			6,000	6,000	6,000	18,000
Total			10,000	10,000	10,000	30,000

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Parks and Recreation
Contact Parks and Recreation Director
Type Improvement
Useful Life 20 years
Category Municipal Buildings

Project #	BLD-21-001
Project Name	Lakeside Center Renovation

Description

Proposed renovations to the Lakeside Center that will provide a more functional space for recreational programming, as well as updating the facility for community use. Improvements needed to modernize the facility include:

- Ceiling, flooring and lighting finishes
- Windows
- Additional storage
- Landscaping/entrance work
- Interior painting
- Updated bathrooms

Justification

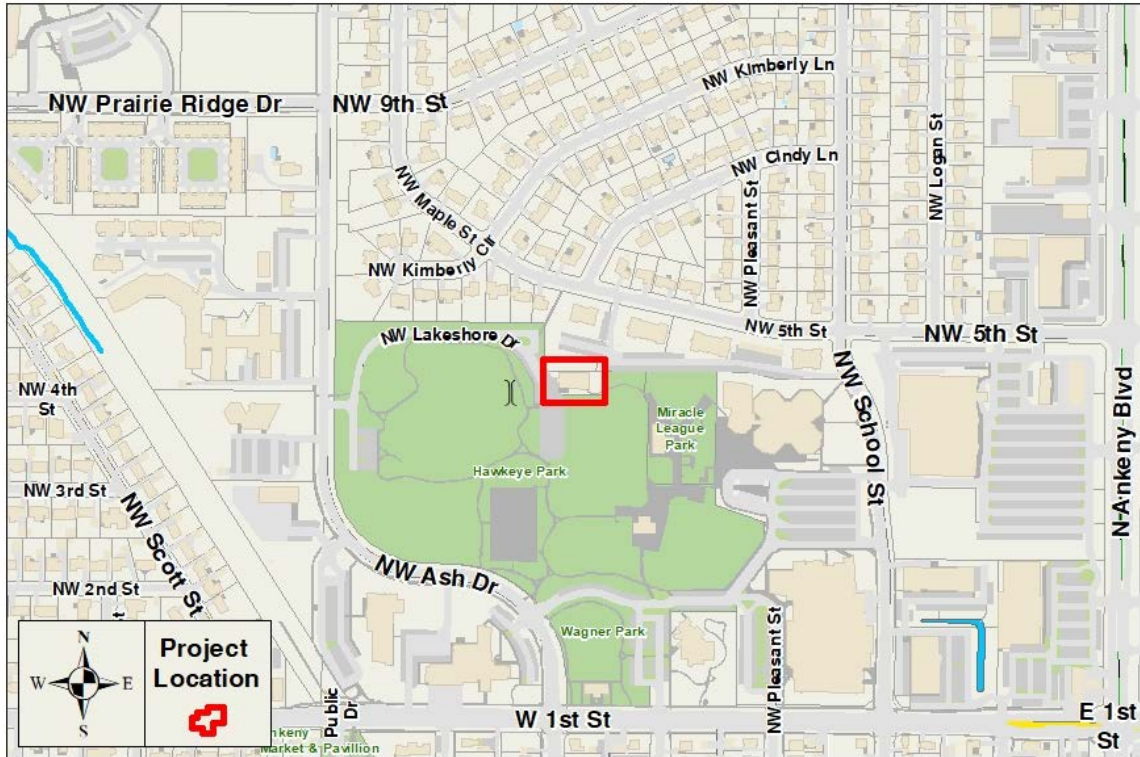
Although dated, the basic structure of the Lakeside Center building is in fair condition. The facility is programmed by the Recreation Division Monday-Thursday and available for community use Friday-Sunday. Even with the Senior Center Facility opening in late 2021, department staff believes that the Lakeside Centers fits a community need as a reasonably priced rental facility. With restricted programming space for the department and limited rental facilities in Ankeny, renovating the facility will provide better-quality options for the community. Annually, the Lakeside Center averages \$35,000 in rental fees from 75+ rentals, in addition to the recreational programming opportunities.

Expenditures	2023	2024	2025	2026	2027	Total
Construction Costs	250,000					250,000
Furniture, Fixtures & Equipment	15,000					15,000
Total	265,000					265,000
Funding Sources	2023	2024	2025	2026	2027	Total
Capital Reserve Fund	265,000					265,000
Total	265,000					265,000

Budget Impact/Other

Impacts will be minimal. This should be offset by the additional recreational use and facility rentals of the building.

Project #	BLD-21-001
Project Name	Lakeside Center Renovation



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Municipal Buildings

Project #	BLD-21-002
Project Name	Public Works Satellite Salt Storage Facility

Description

Design and construction of a structure to store salt material for use with winter maintenance operations. The facility will be located on the 1.6-acre property owned by the City where the planned Northwest Water Tower will be constructed – near the intersection of NW Irvinedale Drive and NW 36th Street. The structure will likely consist of a concrete block building enclosure with a hoop roof structure. The facility would be large enough to provide interior storage of up to 4,000 tons of salt material. The facility would also include a paved pad in front for material handling. The sitework needed for the facility would be completed with the Northwest Water Tower sitework. The salt storage facility would be constructed after the Northwest Water Tower is completed.

Justification

The City continues to experience strong residential growth, and a large percentage of the overall growth is occurring in the northwest quadrant of the City. As this growth continues, having a satellite salt storage facility on the north side of the City will maintain and improve the efficiency and effectiveness of our snow removal operations. The north side snow plow routes are becoming increasingly less efficient due to the amount of time it takes to travel from the maintenance facility to the north side snow plow routes in order to replenish the salt supply in the snow plow trucks.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design	50,000					50,000
Construction Costs		475,000				475,000
Total	50,000	475,000				525,000

Funding Sources	2023	2024	2025	2026	2027	Total
Road Use Tax Fund	50,000	475,000				525,000
Total	50,000	475,000				525,000

Budget Impact/Other

There will be additional lighting costs and minimal building upkeep needed.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs			300	300	300	900
Utilities			200	200	200	600
Total			500	500	500	1,500

Project #	BLD-21-002
Project Name	Public Works Satellite Salt Storage Facility



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Replacement

Useful Life 40 years

Category Bridge/Box Culvert

Project #	BRG-20-001
Project Name	SE Frisk Drive RCB Culvert for Four Mile Creek

Description

This project will replace the existing bridge with a reinforced concrete box (RCB) culvert. The existing bridge is a single span 16' arch bridge constructed of concrete and timber. The bridge is located south of East 1st Street on SE Frisk Drive, spanning a tributary stream to Four Mile Creek. This project includes engineering design, construction engineering services and construction in 2024.

Justification

The 2021 Iowa Structure Inventory and Appraisal conducted by Calhoun-Burns & Associates recommended replacing the bridge within the next several years due to cracks, deterioration, and erosion. This project will replace the existing bridge with a reinforced concrete box (RCB) culvert.

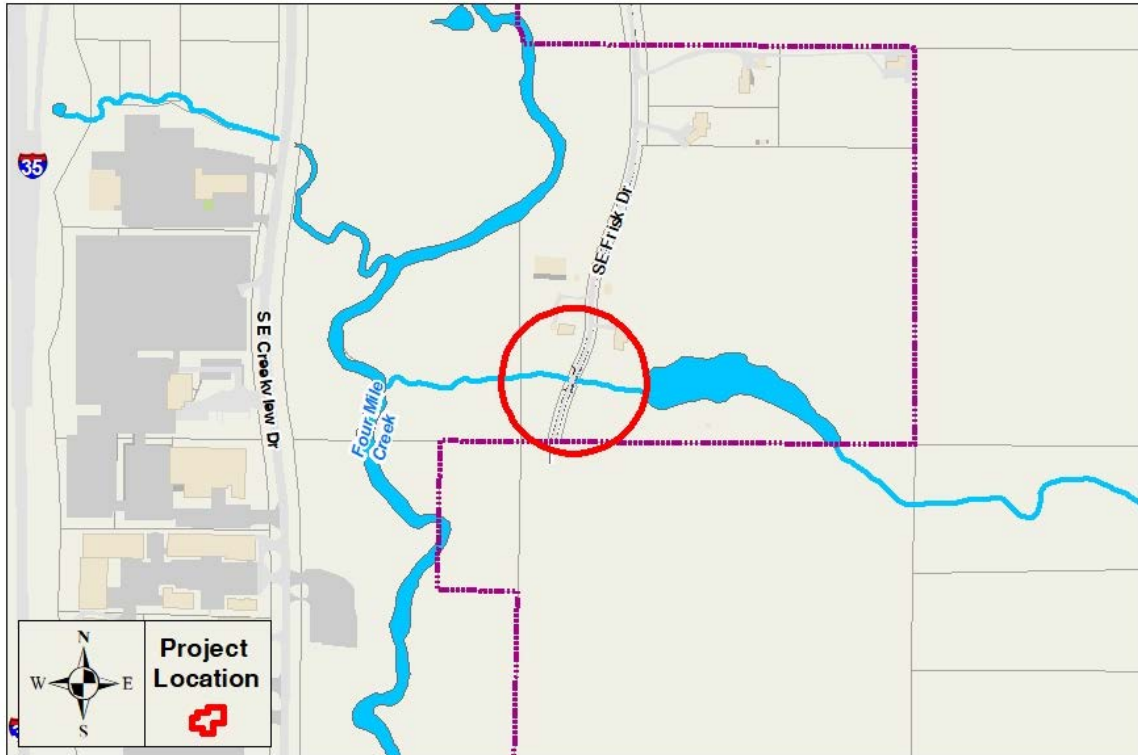
Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Construction Services		75,000				75,000
Construction Costs		300,000				300,000
Total		375,000				375,000
Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds		375,000				375,000
Total		375,000				375,000

Budget Impact/Other

The new RCB culvert will have a negligible impact on the City's maintenance costs. The RCB culvert will be added to the Annual Bridge Inspection Program for monitoring purposes.

Project # **BRG-20-001**

Project Name **SE Frisk Drive RCB Culvert for Four Mile Creek**



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Replacement

Useful Life 40 years

Category Bridge/Box Culvert

Project #	BRG-22-001
Project Name	NE Frisk Drive Bridge over Deer Creek

Description

Replace existing bridge on NE Frisk Drive over Deer Creek, approximately 700 feet south of NE Chambers Parkway. The new bridge will include sufficient width for a 10-ft. trail on the west side of the bridge.

Justification

Polk County is replacing the bridge on NE Frisk Drive over Deer Creek, beginning in the fall of 2022, due to its low service rating and currently posted weight restriction. The City requested additional width on the new bridge in order to accommodate a trail on one side. A pedestrian crossing of Deer Creek will be needed at this location in the future to provide connectivity in the City's sidewalk/trail system; and to provide better access for the residential developments north of the bridge to Heritage Park and the existing sidewalk/trail to the south. Polk County has requested reimbursement from the City in 2023 for the construction costs related to the additional width on the bridge for the trail. Only the City's cost-share amount is shown in the estimated construction costs.

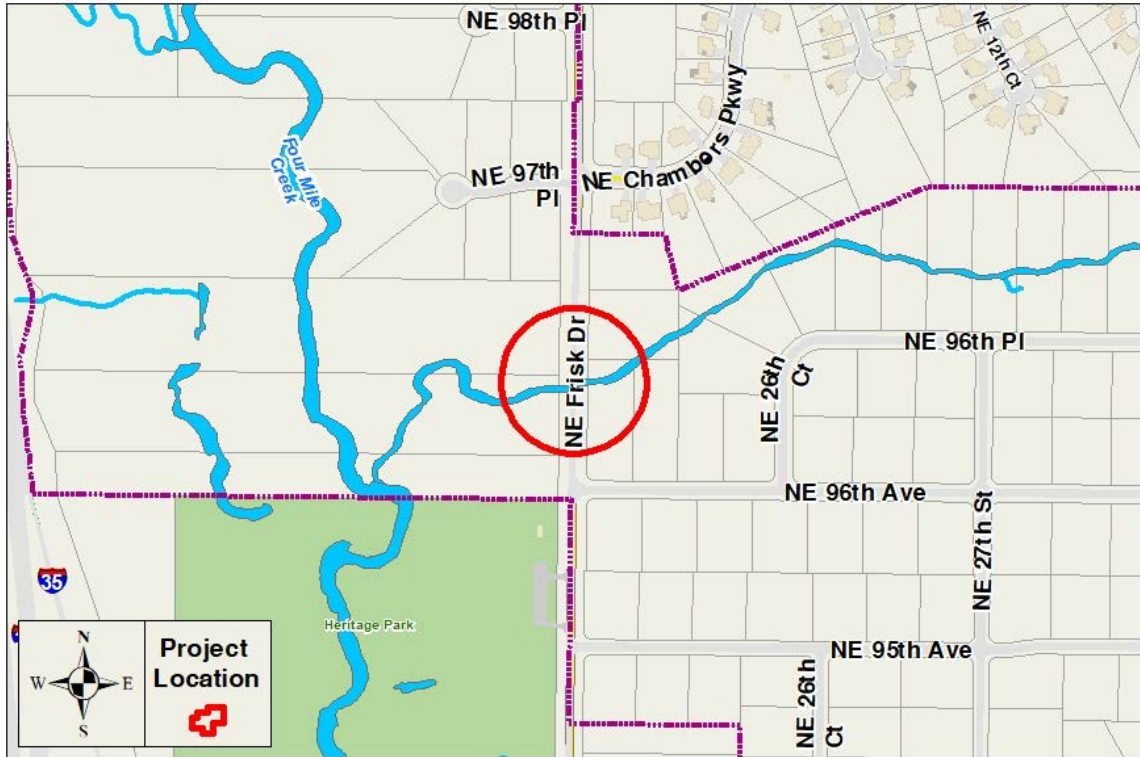
Expenditures	2023	2024	2025	2026	2027	Total
Construction Costs	90,000					90,000
Total	90,000					90,000

Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds	90,000					90,000
Total	90,000					90,000

Budget Impact/Other

Polk County will own and maintain the bridge, so this project would not have an operating impact on the City.

Project # BRG-22-001
Project Name NE Frisk Drive Bridge over Deer Creek



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Bridge/Box Culvert

Project # BRG-22-002

Project Name NE 18th Street Bridge over Interstate 35

Description

Reconstruction and extension of NE 18th Street from NE Delaware Avenue across Interstate 35 to approximately 225 feet east of NE Frisk Drive. The new roadway will include a bridge over Interstate 35, a pedestrian bridge over Four Mile Creek, 8-ft. wide sidewalk on the south side, streetlighting, and storm sewer. The existing roadway bridge over Four Mile Creek that was recently replaced by Polk County will be used as constructed. The proposed project schedule assumes topographic survey, preliminary design and NEPA documentation in early 2026; final design and right-of-way acquisition in late 2026/early 2027; vegetation clearing and embankment construction in summer 2027; I-35 bridge construction and Four Mile Creek pedestrian bridge construction in 2028; and NE 18th Street roadway and storm sewer construction in 2029. It is anticipated that the overall improvements will be constructed with three separate projects.

The City anticipates applying for STBG funding for the bridge project through the Des Moines Area MPO. In addition to the 2023-2027 costs shown in the table below, it is estimated that the 2028 project costs will be \$6,425,000 (includes \$350,000 for roadway design engineering services, \$5,675,000 for bridge construction, and \$400,000 for bridge construction engineering services) and that the 2029 project costs will be \$6,600,000 (includes \$6,175,000 for roadway construction and \$425,000 for roadway construction engineering services).

Justification

This street extension and bridge will improve traffic mobility and support the current and anticipated future residential and commercial development in the northeast quadrant of the City to the east of Interstate 35. The Deer Creek residential development located between NE 18th Street and East 1st Street currently has several hundred residential properties, with several hundred more planned.

It is anticipated that the Spectrum 36 commercial development located at NE 36th Street to the east of Interstate 35 will contain several big box retail stores, multi-unit strip malls, and restaurants over the next five to ten years. Having another route to access these residential and commercial properties to the east of Interstate 35 is essential to maintain the planned future growth in this area of the City.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design					675,000	675,000
Construction Costs					1,275,000	1,275,000
Land/ROW Acquisition					500,000	500,000
Survey/Preliminary Analysis				750,000		750,000
Total				750,000	2,450,000	3,200,000
Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds				750,000	2,450,000	3,200,000
Total				750,000	2,450,000	3,200,000

Budget Impact/Other

The added public street pavement and 8-ft. sidewalk will increase the maintenance costs for the City due to the additional winter maintenance and street sweeping that will be required. The new street lights will result in additional electric power costs for the City.

2023 - 2027 Capital Improvement Program

2023 thru 2027

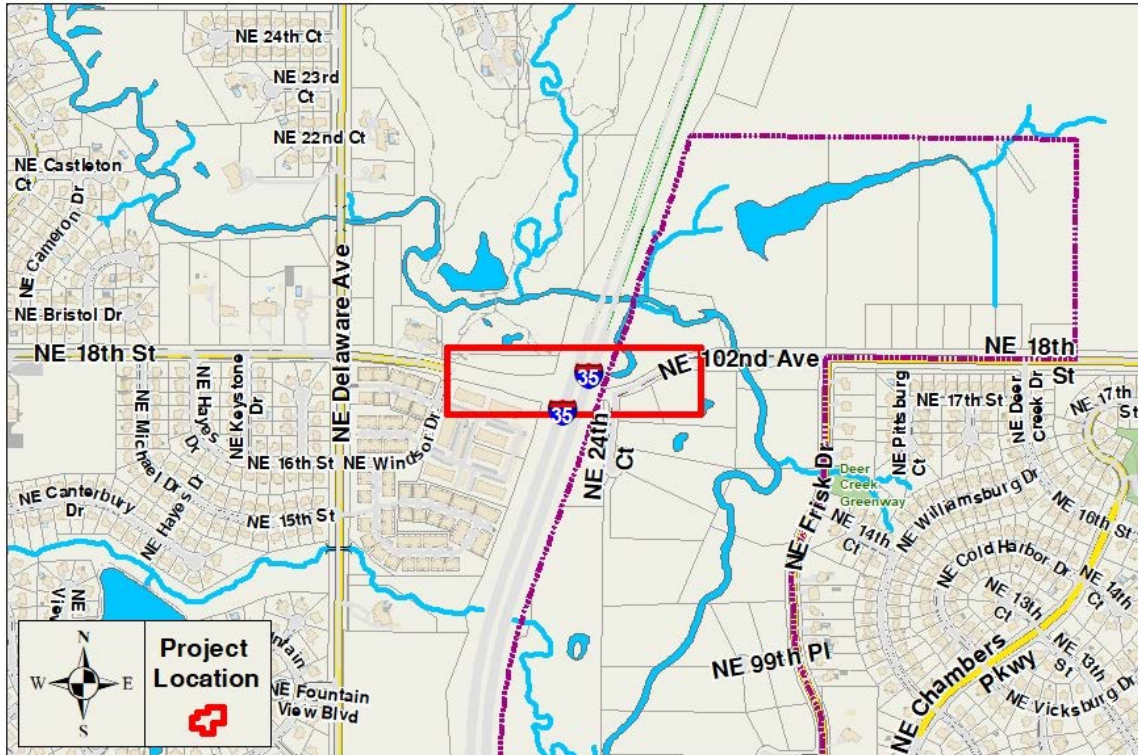
City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # BRG-22-002

Project Name NE 18th Street Bridge over Interstate 35



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Bridge/Box Culvert

Project #	BRG-22-003
Project Name	NW Reinhart Drive RCB Culvert for Rock Creek

Description

Complete a hydraulic study, design, and construct a new reinforced concrete box (RCB) culvert to accommodate future NW Reinhart Drive across Rock Creek.

Justification

The purpose of the project is to study, design and construct a new RCB culvert(s) to convey flow from Rock Creek under the future NW Reinhart Drive extension. The new RCB culvert(s) will support development north and west of NW 18th Street and NW Irvinedale Drive, respectively.

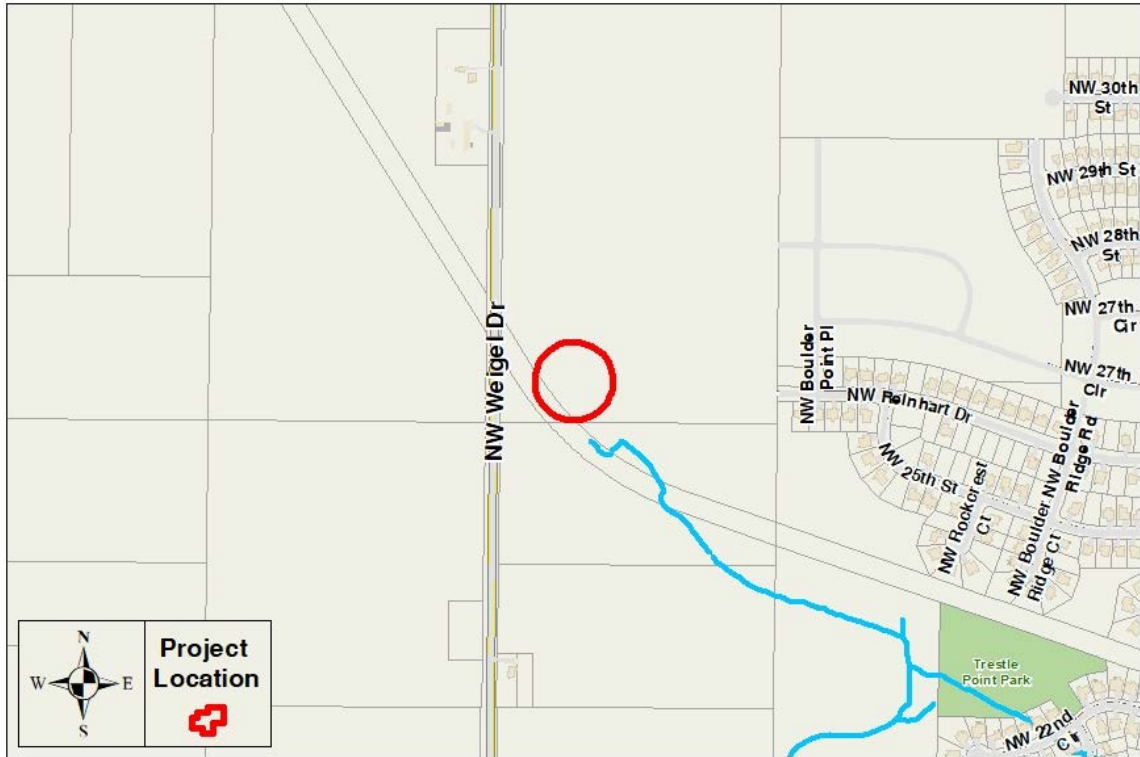
Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design			115,000			115,000
Engineering-Construction Services				75,000		75,000
Construction Costs				950,000		950,000
Total			115,000	1,025,000		1,140,000

Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds			115,000	1,025,000		1,140,000
Total			115,000	1,025,000		1,140,000

Budget Impact/Other

The new RCB culvert will have a negligible impact on the City's maintenance costs. The RCB culvert will be added to the Annual Bridge Inspection Program for monitoring purposes, following construction.

Project # BRG-22-003
Project Name NW Reinhart Drive RCB Culvert for Rock Creek



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Bridge/Box Culvert

Project #	BRG-22-004
Project Name	NE Spectrum Drive RCB Culvert for Otter Creek

Description

Complete a hydraulic study, design, and construct a new reinforced concrete box (RCB) culvert to accommodate future NE Spectrum Drive across Otter Creek.

Justification

The purpose of the project is to study, design and construct a new RCB culvert(s) to convey flow from Otter Creek under the future NE Spectrum Drive extension. The new RCB culvert(s) will support development east of Interstate 35 from NE 36th Street and north.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design				130,000		130,000
Engineering-Construction Services					100,000	100,000
Construction Costs					1,075,000	1,075,000
Total				130,000	1,175,000	1,305,000

Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds - TIF Abated				130,000	1,175,000	1,305,000
Total				130,000	1,175,000	1,305,000

Budget Impact/Other

The new RCB culvert will have a negligible impact on the City's maintenance costs. The RCB culvert will be added to the Annual Bridge Inspection Program for monitoring purposes, following construction.

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Bridge/Box Culvert

Project #	BRG-23-001
Project Name	NE 62nd Street RCB Culvert for Four Mile Creek

Description

This project will replace an old farm access culvert with a reinforced concrete box (RCB) culvert. The existing culvert is in poor condition and not rated for typical vehicular traffic. The culvert is located west of NE Delaware Avenue and just east of NE Hillcrest Drive along the future alignment of NE 62nd Street allowing the crossing of an unnamed tributary to Four Mile Creek. This project includes engineering design in 2023, with construction and engineering services in 2024.

Justification

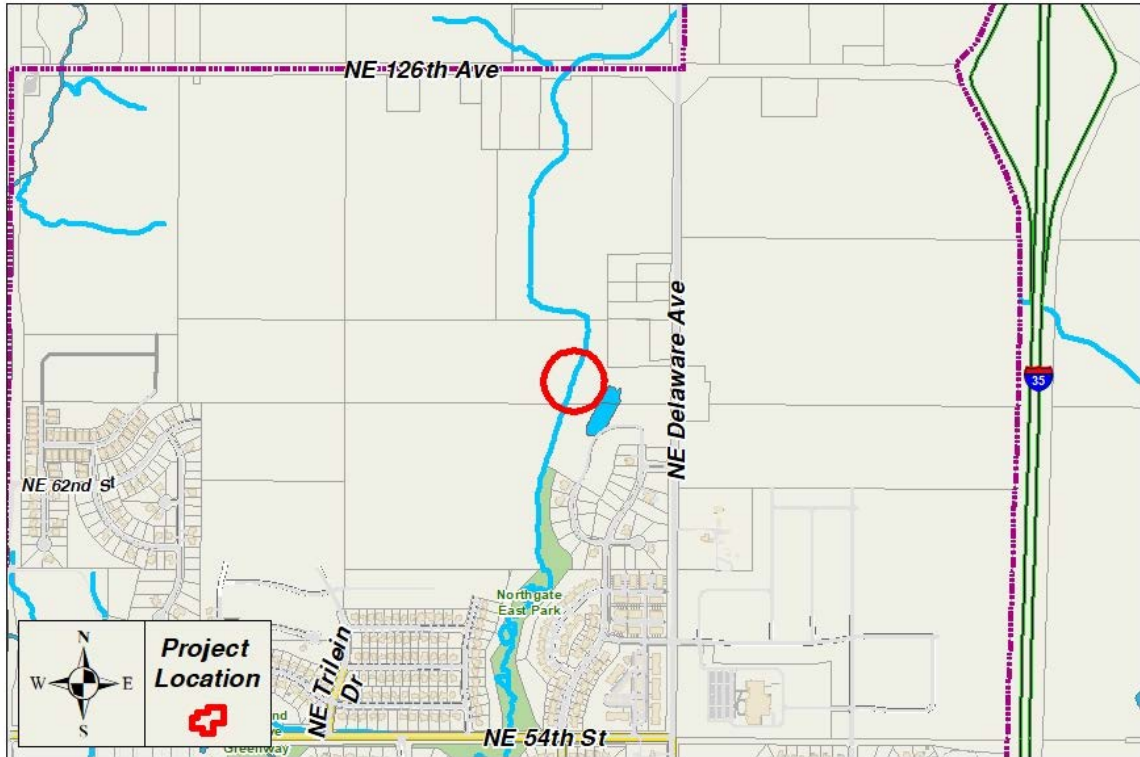
The purpose of this project is to design and construct a new RCB culvert to convey flow from the unnamed tributary of Four Mile Creek under the future NE 62nd Street extension west from NE Delaware Avenue. The new RCB culvert will support development west of NE Delaware utilizing NE 62nd Street as a future collector level street to connect North Ankeny Boulevard.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design	75,000					75,000
Engineering-Construction Services		90,000				90,000
Construction Costs		500,000				500,000
Total	75,000	590,000				665,000
Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds	75,000	590,000				665,000
Total	75,000	590,000				665,000

Budget Impact/Other

The new RCB culvert will have a negligible impact on the City's Maintenance costs. The RCB culvert(s) will be added to the Annual Bridge Inspection Program for monitoring purposes, following construction.

Project # BRG-23-001
Project Name NE 62nd Street RCB Culvert for Four Mile Creek



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Parks and Recreation

Contact Parks and Recreation Director

Project # PRK-00-002

Project Name Annual Park Development Program



city of
Ankeny

bringing it all together

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Parks and Recreation
Contact Parks and Recreation Director
Type Improvement
Useful Life 20 years
Category Park Facilities

Project #	PRK-18-003
Project Name	Hawkeye Park Tennis Courts Reconstruction

Description
Hawkeye Park Sports Complex – Tennis Courts Reconstruction

Justification
<p>The playing surface on the Hawkeye Park Sports Complex tennis courts (six courts) is in fair condition. In 2008, the City contracted Tennis Surfaces of Iowa to provide a temporary playing surface instead of the traditional asphalt overlay (which was occurring every 5-7 years). This temporary surfacing material, attached to the subsurface asphalt with fiberglass, has done an adequate job providing a safe playing surface, but does not provide a true competitive tennis court surface. The Parks Department continues to receive many complaints on the alternate court surfacing currently in place.</p> <p>Additionally, with high school tennis in the spring taking precedence at the Prairie Ridge Sports Complex, the tennis community complains about the congestion and lack of quality courts available for the public to utilize. The proposed project would demo the existing playing surface and subsurface asphalt, provide a new rock subbase, 5” asphalt playing surface and new nets/posts. The new 5” asphalt depth would provide the community another sufficient tennis option and would prolong any needed repairs due to the surfaces freeze/thaw process.</p>

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design			75,000			75,000
Construction Costs			775,000			775,000
Total			850,000			850,000

Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds			850,000			850,000
Total			850,000			850,000

Budget Impact/Other
None, as this project renovates a current park amenity.

Project #	PRK-18-003
Project Name	Hawkeye Park Tennis Courts Reconstruction



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Parks and Recreation
Contact Parks and Recreation Director
Type New Construction
Useful Life 40 years
Category Park Facilities

Project #	PRK-21-002
Project Name	Des Moines Street Parks

Description
 Des Moines Street Parks Development

Justification
 The Des Moines Street Master Plan was completed in 2019. The plan includes developing 50 total acres into three community parks (north, middle, and south) suitable for active park space, large stormwater management corridors and passive natural areas. The desired park elements include picnic shelters, playgrounds, practice fields, pickleball courts, trails and passive open space. Grading, utilities, parking lot and trail connections were completed for the middle park in 2022.

Proposed Design/Construction Phasing:
 2023: Middle Park – Construction (playground, shelter with single family restroom and park amenities)
 2023: South Park and trail connections – Design and construction (shelter, restrooms, pickleball courts, ballfields and park amenities)
 2025: North Park and Trail Park – Design and construction

These projects would qualify for Civic Trust Funds.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design	115,000		32,000			147,000
Construction Costs	2,375,000		290,000			2,665,000
Total	2,490,000		322,000			2,812,000

Funding Sources	2023	2024	2025	2026	2027	Total
Civic Trust Fund	2,490,000		322,000			2,812,000
Total	2,490,000		322,000			2,812,000

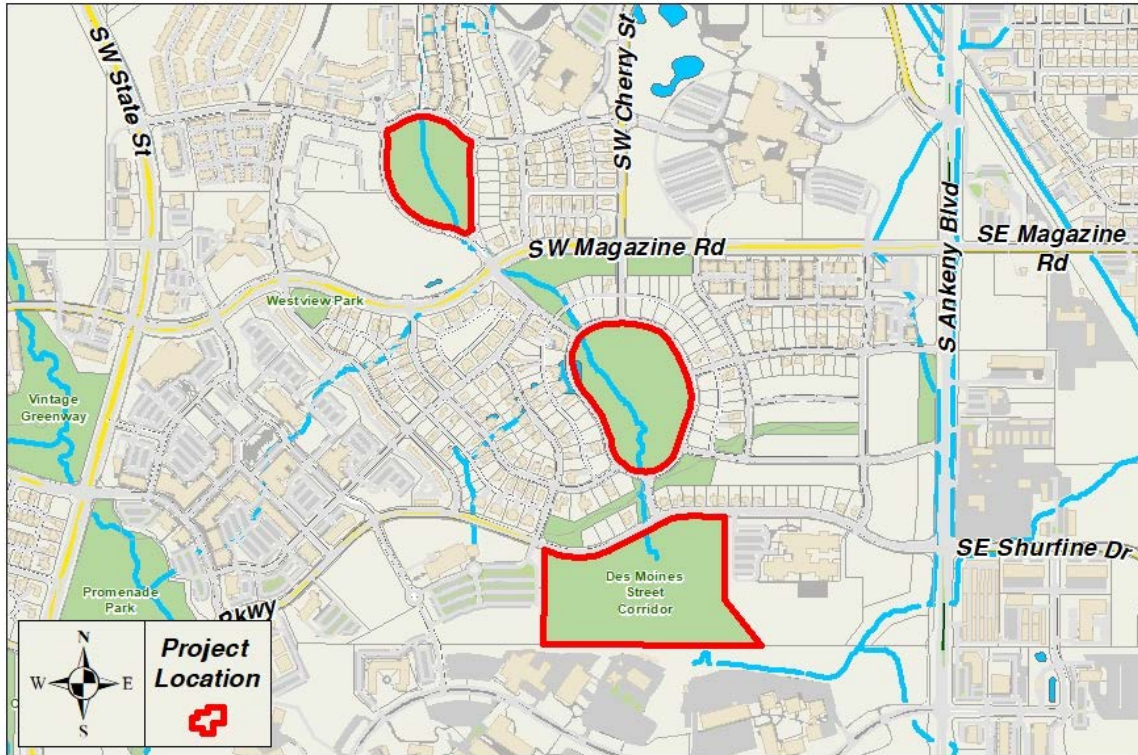
Budget Impact/Other

The maintained park space will include 20 active space acres and 30 natural acres.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs	4,700		750			5,450
Total	4,700		750			5,450

Project # PRK-21-002

Project Name Des Moines Street Parks



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Parks and Recreation
Contact Parks and Recreation Director
Type New Construction
Useful Life 40 years
Category Park Facilities

Project #	PRK-22-005
Project Name	High Trestle Trail Experience Park

Description

This request is for funding improvements to the High Trestle Trail corridor from the Senior Community Center on West 1st Street to the underpass under South Ankeny Boulevard. Improvements will include grading, importing soil, native plantings, 80+ trees, and installing lighting along this nearly 5,000 LF of trail right-of way. Grading will prepare the trail right-of-way for future public art projects, trail side paths/detours, and other interactive enhancements on both sides of the trail corridor from SW Cherry Street to South Ankeny Boulevard (or approximately 3,000 LF). The total area impacted will be approximately nine acres.

Justification

This work began with our Bicycle Tourism and Economic Development Strategy. One component of this work was enhancing the trail corridor, which lead to the creation of the High Trestle Trail Corridor Public Art Plan, and subsequently a specific vision for this area. The improvements associated with this request will begin to create a linear park on existing City-owned property in the center of Ankeny.

These site-preparation improvements will enhance the trail with landscaping and lighting, but also set the stage for adding interactive enhancements strategically placed along the trail to create a unique experience for both residents and visitors and trail users and non-trail users to enjoy. Regional and federal grants, along with private donations, will be pursued to support the enhancements after the grading and lighting is complete.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design	50,000					50,000
Construction Costs	650,000		500,000		500,000	1,650,000
Total	700,000		500,000		500,000	1,700,000

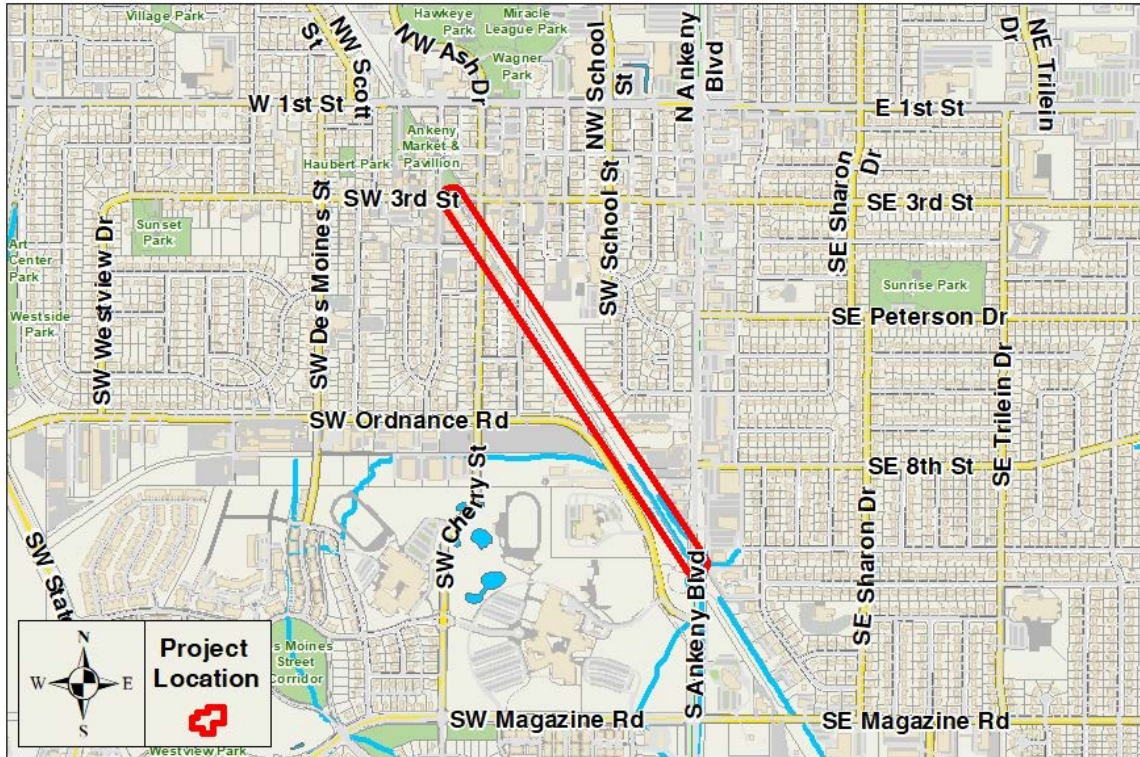
Funding Sources	2023	2024	2025	2026	2027	Total
Capital Project Fund	400,000					400,000
Hotel/Motel Tax Fund	300,000		400,000		400,000	1,100,000
Other Grants			100,000		100,000	200,000
Total	700,000		500,000		500,000	1,700,000

Budget Impact/Other

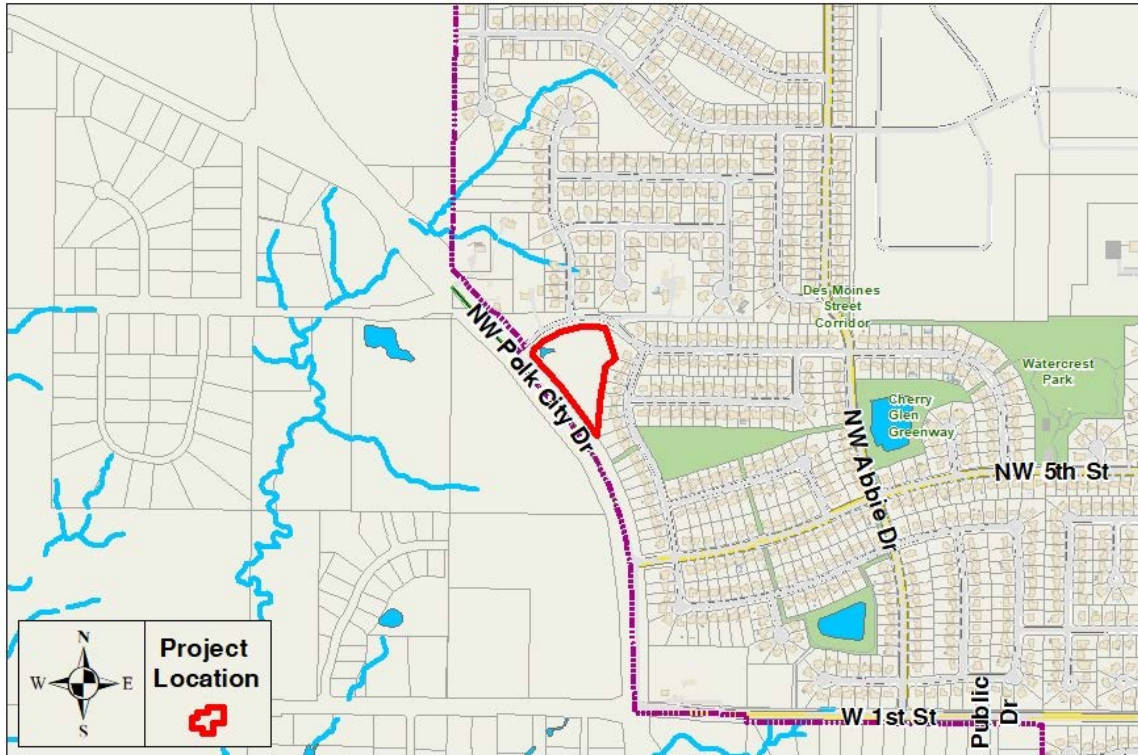
Operating impacts include ongoing park maintenance, including cleaning, trash removal, general maintenance of landscape, and electricity costs for lighting.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs	1,500					1,500
Personnel Costs	2,500					2,500
Utilities	750					750
Total	4,750					4,750

Project #	PRK-22-005
Project Name	High Trestle Trail Experience Park



Project #	PRK-22-006
Project Name	Cherry Glen Ballfield



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Parks and Recreation

Contact Parks and Recreation Director

Type Improvement

Useful Life 20 years

Category Park Facilities

Project # PRK-23-001

Project Name Prairie Ridge Sports Complex Tennis Courts Overlay

Description

Overlay of eight tennis courts at the Prairie Ridge Sports Complex.

Justification

In 2007, the City and School District entered into a 28E Agreement to construct eight (8) tennis courts at the Prairie Ridge Sports Complex. The City committed \$200,000 towards the construction of the courts. As part of the mutual responsibilities regarding costs, future maintenance, which includes resurfacing, shall be jointly paid for by both parties on a 50-50 basis.

The eight (8) east tennis courts are now in need of an overlay as annual crack sealing and other maintenance measures are no longer allowing for a safe and competitive playing surface. During the annual review of the courts in the fall of 2022, City and School District staff agreed that the overlay of the eight (8) courts needs to be completed. The School District has funding set aside to complete the overlay in 2023.

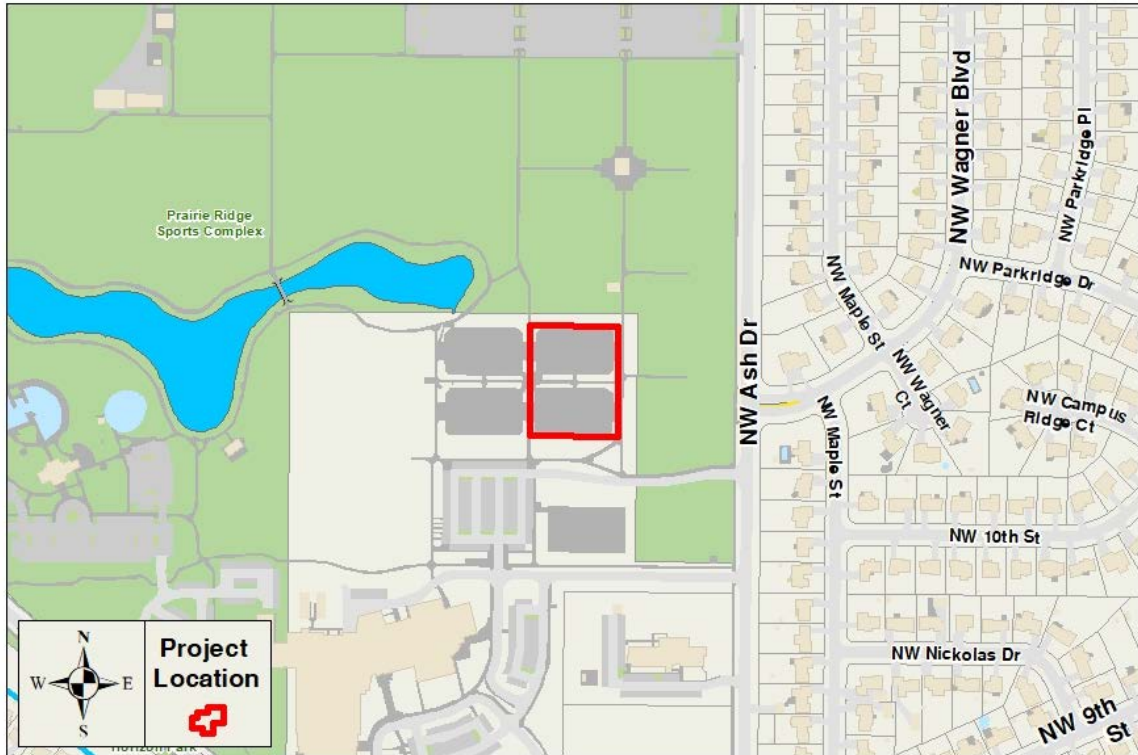
Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Construction Services	65,000					65,000
Construction Costs	655,000					655,000
Total	720,000					720,000

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Project Fund	100,000					100,000
G.O. Bonds	260,000					260,000
Private Contributions	360,000					360,000
Total	720,000					720,000

Budget Impact/Other

None, as this project renovates a current park amenity.

Project # PRK-23-001
Project Name Prairie Ridge Sports Complex Tennis Courts Overlay



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Sidewalks/Trails

Project #	SDW-00-001
Project Name	Annual Sidewalk/Trail Construction Program

Description

The Annual Sidewalk/Trail Construction Program includes constructing pedestrian improvements adjacent to City streets:

- Pedestrian ramp improvements for ADA compliance, 2023 to 2027 - \$325,000/year (construction)
- Sidewalk and pedestrian ramp gaps along City property and 8-ft. sidewalk and 10-ft. trail panel replacements, 2023 to 2027 - \$150,000/year (construction)
- Development sidewalk oversizing, 2023 to 2027 - \$60,000/year (previous development agreements)

The projects that are constructed annually from this program are designed and inspected in-house by Public Works Engineering Division staff. Development sidewalk oversizing is funding set aside for reimbursement to developers when constructing 8-ft. sidewalks on one side of collector streets within subdivisions.

The projects that are constructed annually from this program are designed and inspected in-house by Public Works Engineering Division staff.

Justification

The purpose of this program is to bring existing pedestrian ramps into Americans with Disabilities Act (ADA) compliance (per requirements mandated by the Federal Government) and provide new sections and/or replace deteriorated panels of 8-ft. sidewalks and 10-ft. trails adjacent to the City's arterial and collector streets in order to promote non-motorized travel and a corresponding healthier lifestyle within the City. These projects are often completed in conjunction with the Parks & Recreation Department to maximize the connectivity of the overall sidewalk and trail system.

Expenditures	2023	2024	2025	2026	2027	Total
Construction Costs	535,000	535,000	535,000	535,000	535,000	2,675,000
Total	535,000	535,000	535,000	535,000	535,000	2,675,000

Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds	210,000	210,000	210,000	210,000	210,000	1,050,000
Road Use Tax Fund	325,000	325,000	325,000	325,000	325,000	1,625,000
Total	535,000	535,000	535,000	535,000	535,000	2,675,000

Budget Impact/Other

Upgrading existing pedestrian ramps and bringing them into ADA compliance may reduce the number of complaints City staff follow up with regarding non-compliant or hazardous ramps. The additional 8-ft. sidewalks will increase maintenance costs for the City due to the additional winter maintenance that will be required. However, having a more connected trail system should make winter maintenance operations more efficient for Parks & Recreation staff.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs	2,600	3,000	3,400	3,800	4,200	17,000
Total	2,600	3,000	3,400	3,800	4,200	17,000

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # SDW-00-001

Project Name Annual Sidewalk/Trail Construction Program



city of
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2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Sewer Utility

Contact Municipal Utilities Director

Project # SNS-00-001

Project Name Annual Sanitary Sewer Replacement Program



city of
Ankeny

bringing it all together

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Sewer Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 40 years
Category Sanitary Sewers

Project #	SNS-12-001
Project Name	Otter Creek Trunk Sewer-Phase 4

Description

Install approximately 4,000 LF of 24" diameter sanitary trunk sewer from the north end of Otter Creek Trunk Sewer – Phase 3 north to NE 54th Street along the creek west of NE Four Mile Drive.

Justification

The purpose of this project is to extend sanitary sewer service north to the area around NE 54th Street and NE Four Mile Drive. The timing of this project will depend upon development in the area of the NE 36th Street interchange.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design	152,000					152,000
Engineering-Construction Services		152,000				152,000
Construction Costs		1,521,000				1,521,000
Land/ROW Acquisition	100,000					100,000
Total	252,000	1,673,000				1,925,000
Funding Sources	2023	2024	2025	2026	2027	Total
Sewer Fund	252,000	1,673,000				1,925,000
Total	252,000	1,673,000				1,925,000

Budget Impact/Other

Since this is a new trunk sewer, it is not anticipated that there will be any maintenance required initially. It will be added to our routine pipe cleaning and inspection programs once the maintenance bond period has passed. However, being a large diameter trunk sewer, this would have a lower frequency of maintenance and it would likely be hired out as we do not have the equipment to televise this size of active sewer.

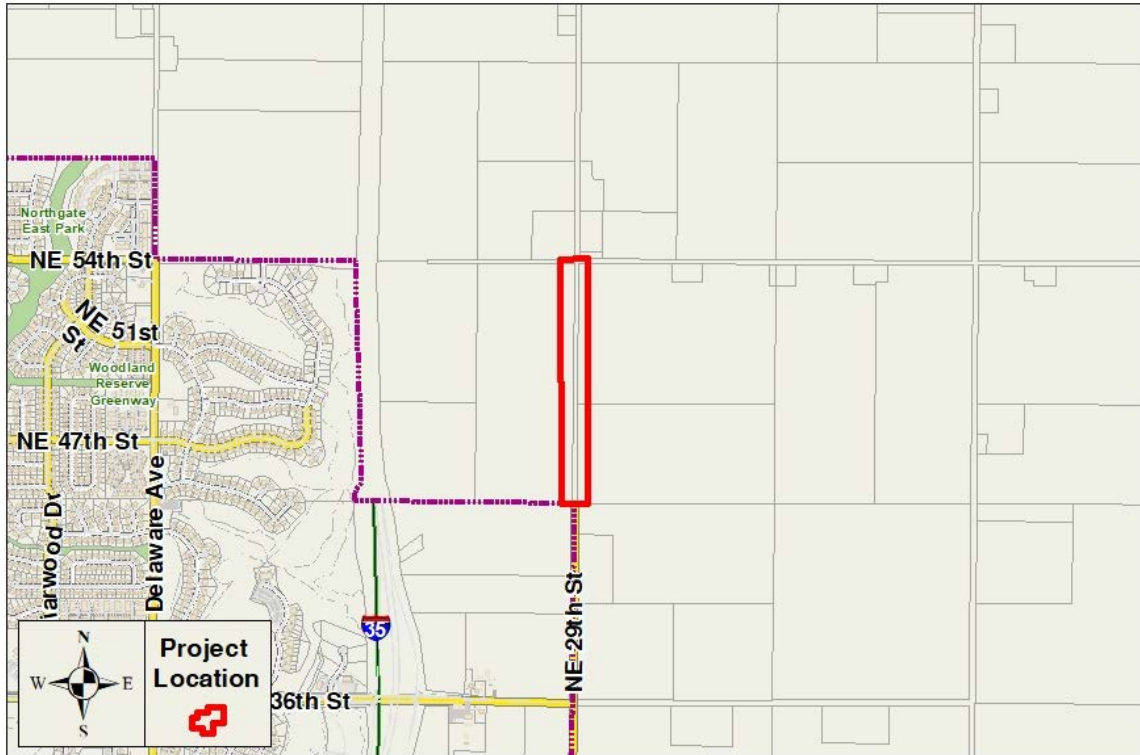
2023 - 2027 Capital Improvement Program
City of Ankeny, Iowa

2023 *thru* 2027

Department Sewer Utility

Contact Municipal Utilities Director

Project #	SNS-12-001
Project Name	Otter Creek Trunk Sewer-Phase 4



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Sewer Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 40 years
Category Sanitary Sewers

Project #	SNS-20-001
Project Name	Four Mile Creek Trunk Sewer

Description

Install approximately 4,400 LF of 30" diameter sanitary trunk sewer from the existing 30" sanitary line at west side of Northgate Plat 3 on the north side of NE 54th Street to about 700' north of NE 62nd Street on the east side of North Ankeny Boulevard.

Justification

This project has become a need due to recent development and annexations north of NE 54th Street. This trunk line will serve a large portion of developable land north of NE 54th Street. The timing of this project is proposed to be moved up due to a planned annexation of all property between North Ankeny Boulevard and NE Delaware Avenue, south of NE 126th Avenue.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Construction Services	250,000					250,000
Construction Costs	2,500,000					2,500,000
Land/ROW Acquisition	15,000					15,000
Total	2,765,000					2,765,000
Funding Sources	2023	2024	2025	2026	2027	Total
Sewer Fund	2,765,000					2,765,000
Total	2,765,000					2,765,000

Budget Impact/Other

Since this is a new trunk sewer, it is not anticipated that there will be any maintenance required initially. It will be added to our routine pipe cleaning and inspection programs once the maintenance bond period has passed. However, being large diameter trunk sewer, this would have a lower frequency of maintenance and it would likely be hired out as we do not have the equipment to televise this size of active sewer.

Project #	SNS-20-001
Project Name	Four Mile Creek Trunk Sewer



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Sewer Utility
Contact Municipal Utilities Director
Type Replacement
Useful Life 40 years
Category Sanitary Sewers

Project #	SNS-20-002
Project Name	SE 3rd Street Trunk Sewer Extension

Description

Installation of approximately 1,300 LF of 15” sanitary sewer along SE 3rd Street, between South Ankeny Boulevard and SE Sharon Drive. Additionally, the existing 4” water main within that same corridor will be replaced and upsized to 8” main (1,600 LF). The project will utilize open cut construction, and a temporary water supply system will be utilized to keep the existing homes within the area in service.

Justification

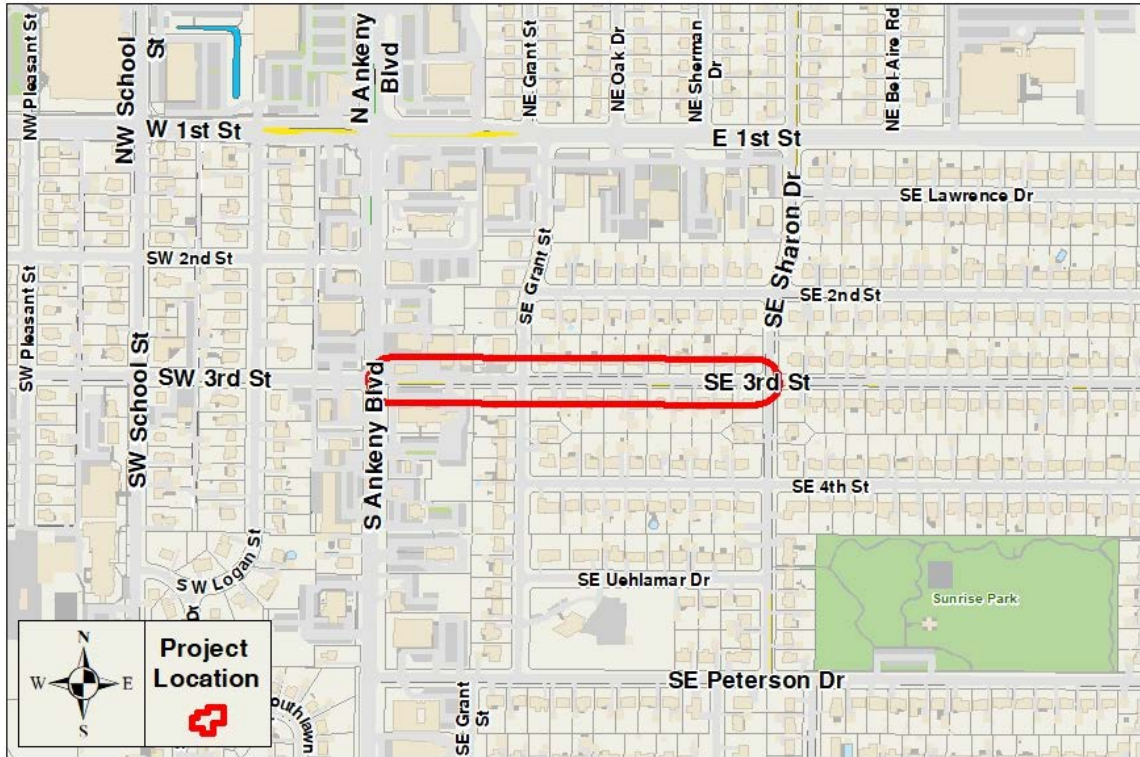
This project is necessary as many residences within the subject area have experienced historical basement flooding issues. Additionally, data from the June 30, 2018 rain event showed that a significant number of homes within the subject area experienced basement backups, with excess of 24” of water in the basement. With the extensive amount of disturbance needed to complete this project, it becomes more cost effective to upsize/replace the existing water main at this time as well. The proposed project will need to be coordinated with the Public Works proposed SE 3rd Street Area Trunk Storm Sewer Improvements along this corridor.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Construction Services		20,000				20,000
Construction Costs		1,110,000				1,110,000
Total		1,130,000				1,130,000
Funding Sources	2023	2024	2025	2026	2027	Total
Sewer Fund		1,130,000				1,130,000
Total		1,130,000				1,130,000

Budget Impact/Other

It is anticipated that construction of this project should have an immediate benefit to the sanitary sewer within this area by increasing system capacity, and reducing the frequency of basement backups. This should result in a reduced need for inspection and maintenance. Upsizing of the water main will help to reduce friction losses within the distribution system, and provide better hydraulics to serve the demand within the area. It will take approximately 25,100 gallons to fill and flush the new water main.

Project #	SNS-20-002
Project Name	SE 3rd Street Trunk Sewer Extension



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Sewer Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 40 years
Category Sanitary Sewers

Project #	SNS-22-001
Project Name	Trestle Ridge Trunk Sewer Cost Share

Description

The Trestle Ridge Trunk Sewer Cost Share project will include installation of approximately 1,600 LF of 24” sanitary sewer in 2023 and approximately 2,700 LF of 21” sanitary sewer in 2024. The Phase 1 trunk sewer will connect at an existing manhole at the northwest corner of Trestle Ridge Estates Plat 6 and continue north under NW 36th Street, terminating just north of NW 36th Street. Phase 2 will start at the north end of the Phase 1 limits to approximately 2,700 feet north of NW 36th Street and 1,400 feet west of NW Irvinedale Drive.

Justification

The Trestle Ridge Trunk Sewer Cost Share project is being proposed due to the developer planning to provide sanitary sewer to a subdivision north of NW 36 Street and west of NW Irvinedale Drive. The sanitary sewer (Phase 1 & 2) is approximately 4,300 feet short of serving this subdivision. We are proposing to pay the cost difference of upsizing from an 8” line in order to avoid creating a development agreement that will result in hundreds of acres of credit due to the developer that will take an unknown amount of time to pay out. This method should be cost beneficial for both the City and developer in the long run. This project was proposed for FY 2022 but the development project didn’t occur so this cost share is being proposed for FY 2023 in anticipation the development occurs next year. We splitting this project into two phases in 2023 and 2024 to account for the possibility that the land along this trunk line gets developed in phases similar to what we have shown.

Expenditures	2023	2024	2025	2026	2027	Total
Construction Costs	300,000	400,000				700,000
Total	300,000	400,000				700,000
Funding Sources	2023	2024	2025	2026	2027	Total
Capital Project Fund	300,000	300,000				600,000
Sewer Fund		100,000				100,000
Total	300,000	400,000				700,000

Budget Impact/Other

N/A

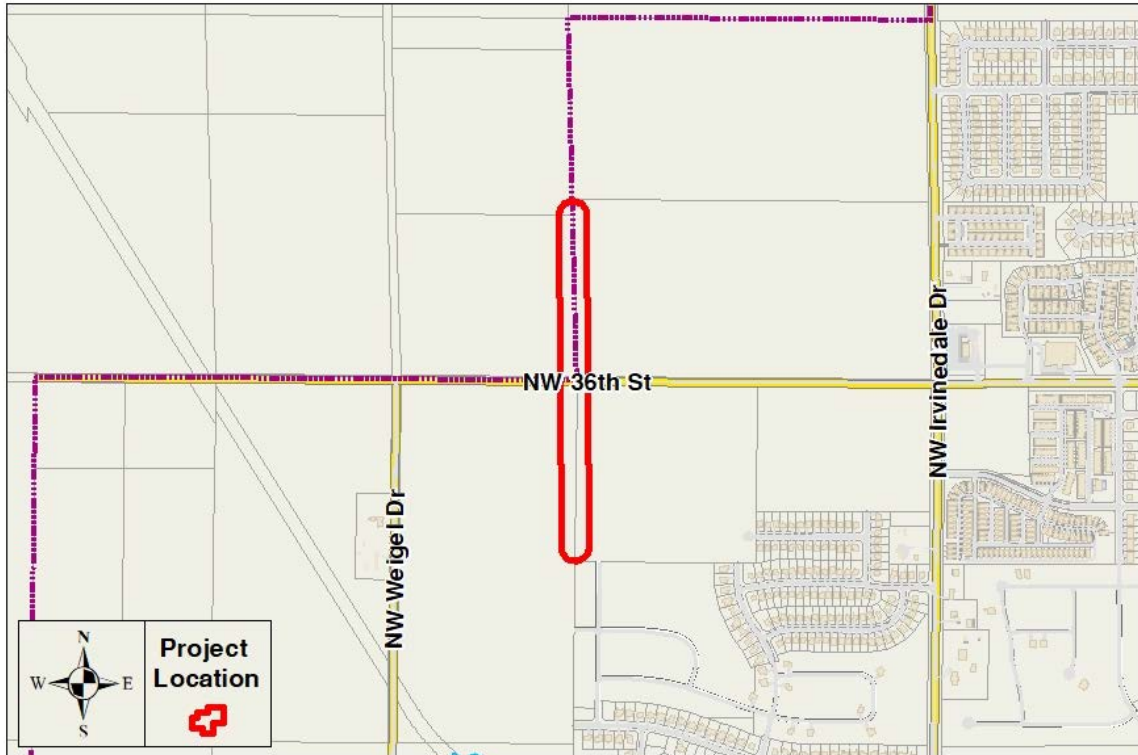
2023 - 2027 Capital Improvement Program
City of Ankeny, Iowa

2023 thru 2027

Department Sewer Utility

Contact Municipal Utilities Director

Project #	SNS-22-001
Project Name	Trestle Ridge Trunk Sewer Cost Share



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Sewer Utility
Contact Municipal Utilities Director
Type Replacement
Useful Life 40 years
Category Sanitary Sewers

Project #	SNS-22-002
Project Name	NE Crestmoor Sanitary Sewer Replacement

Description

Installation of approximately 600 LF of 8” sanitary sewer along NE Crestmoor Place, between NE 7th Street and NE 9th Street. This replacement project will utilize open-cut construction within the ROW.

Justification

This project is necessary due to the deterioration of the existing vitrified clay pipe which is nearing its useful lifespan. Several locations within this segment of pipe have sags ranging between 30-50%. Replacement is necessary in order to eliminate future backups which could adversely impact upstream development. With the proposed alignment located within the pavement, half-street improvements (paving, curb and gutter) will also need to be replaced.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Construction Services	50,000					50,000
Construction Costs	470,000					470,000
Total	520,000					520,000
Funding Sources	2023	2024	2025	2026	2027	Total
Sewer Fund	520,000					520,000
Total	520,000					520,000

Budget Impact/Other

It is anticipated that construction of this project should have an immediate benefit to the sanitary sewer within this area by increasing system capacity, and reducing the frequency of basement backups. This should result in a reduced need for inspection and maintenance.

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

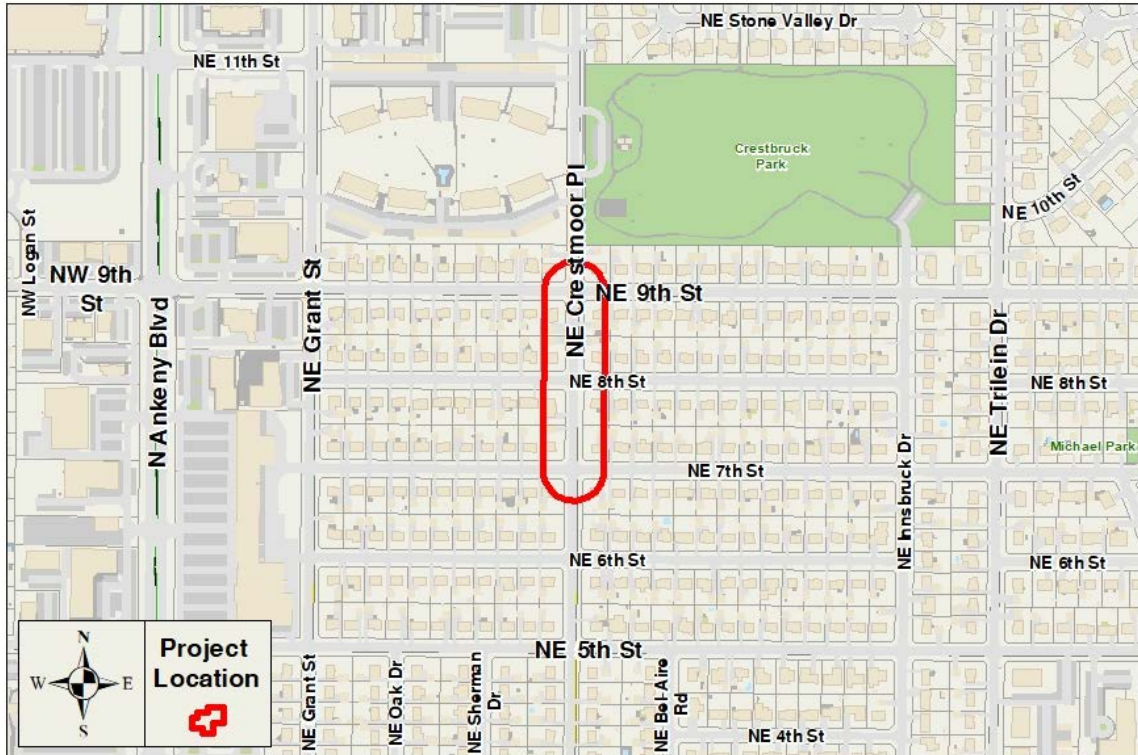
City of Ankeny, Iowa

Department Sewer Utility

Contact Municipal Utilities Director

Project # SNS-22-002

Project Name NE Crestmoor Sanitary Sewer Replacement



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Sewer Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 40 years
Category Sanitary Sewers

Project #	SNS-22-003
Project Name	Clover Ridge Trunk Sewer Extension

Description

Install approximately 1,375 LF of 24" diameter sanitary trunk sewer from the existing 24" sanitary line at west end of SE 17th Street, north to NE 86th Avenue (NE Magazine Road). The project will primarily utilize open-cut construction, with approximately 40 LF of trenchless construction beneath the existing road (NE 86th Avenue).

Justification

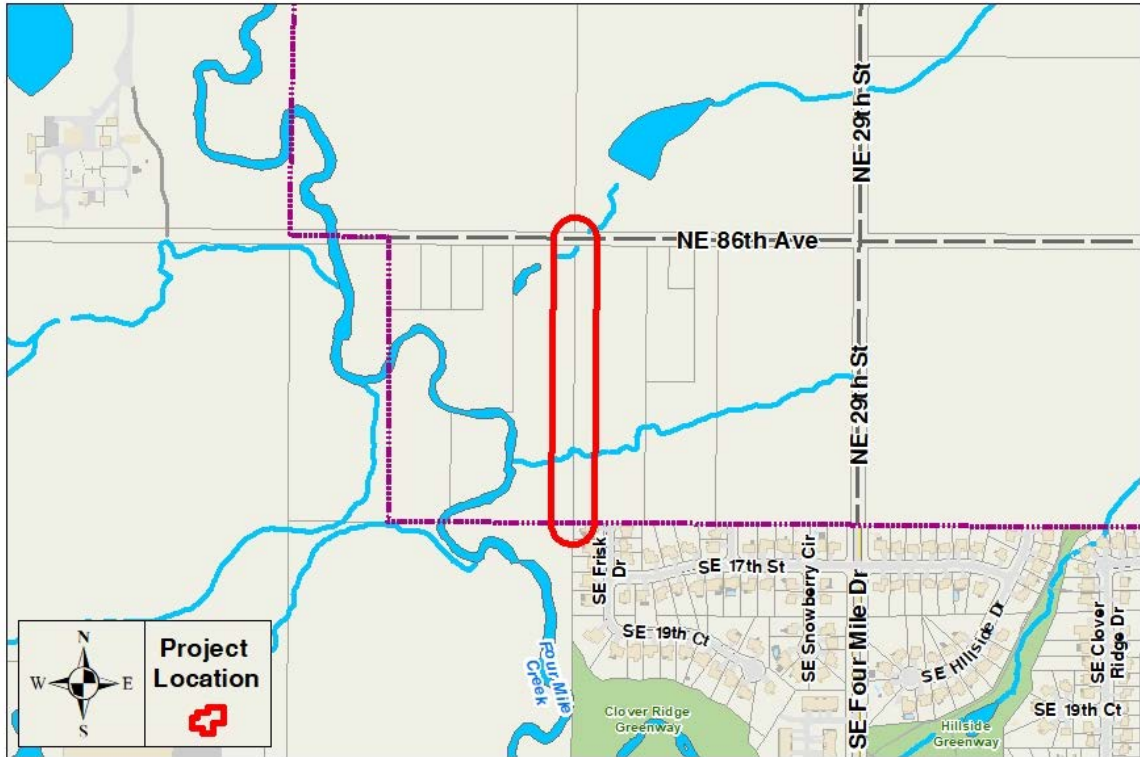
This project has become a need due to recent interest in the development of land and potential annexations within the vicinity of the East 1st Street/NE 29th Street intersection. This trunk line will serve a large portion of developable land south of East 1st Street. The timing of this project is dependent upon the annexation of much of the land within this area.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design		90,000				90,000
Engineering-Construction Services			75,000			75,000
Construction Costs			749,000			749,000
Land/ROW Acquisition		11,000				11,000
Total		101,000	824,000			925,000
Funding Sources	2023	2024	2025	2026	2027	Total
Sewer Fund		101,000	824,000			925,000
Total		101,000	824,000			925,000

Budget Impact/Other

Since this is a new trunk sewer, it is not anticipated that there will be any maintenance required initially. It will be added to our routine pipe cleaning and inspection programs once the maintenance bond period has passed. However, being large diameter trunk sewer, this would have a lower frequency of maintenance and it would likely be hired out as we do not have the equipment to televise this size of active sewer.

Project #	SNS-22-003
Project Name	Clover Ridge Trunk Sewer Extension



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Sewer Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 40 years
Category Sanitary Sewers

Project #	SNS-22-004
Project Name	Polk County Lift Station Decommissioning

Description

The project to decommission the Polk County Lift Station will include installation of approximately 2,850 LF of 12” sanitary sewer under Interstate 35 to connect existing manhole 23N 18 near the lift station to manhole 23N 3 south of SE Convenience Boulevard.

Justification

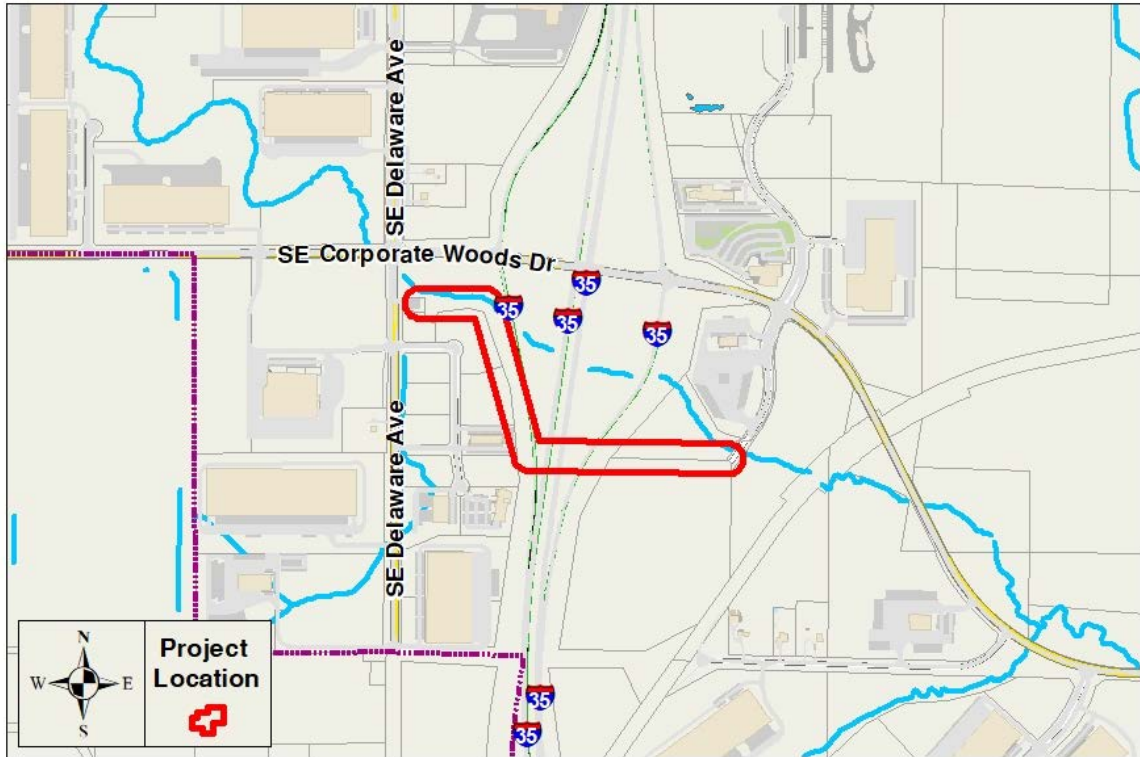
This lift station is currently owned and maintained by Polk County. The City has an agreement with them to overtake the ownership and maintenance once the land this lift station supports is 75% or more developed within the City of Ankeny. With the growth and development that has occurred in this area, we believe this will be the City’s responsibility within the next couple of years. This project will connect an existing manhole near the lift station to an existing manhole east of Interstate 35 so the sanitary sewer will bypass the lift station via gravity flow.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design			104,000			104,000
Engineering-Construction Services				104,000		104,000
Construction Costs				1,042,000		1,042,000
Land/ROW Acquisition			1,000			1,000
Total			105,000	1,146,000		1,251,000
Funding Sources	2023	2024	2025	2026	2027	Total
Sewer Fund			105,000	1,146,000		1,251,000
Total			105,000	1,146,000		1,251,000

Budget Impact/Other

Since this is a new sewer, it is not anticipated that there will be any maintenance required initially. It will be added to our routine pipe cleaning and inspection programs once the maintenance bond period has passed.

Project #	SNS-22-004
Project Name	Polk County Lift Station Decommissioning



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Sewer Utility
Contact Municipal Utilities Director
Type Replacement
Useful Life 40 years
Category Sanitary Sewers

Project #	SNS-23-002
Project Name	SW Irvinedale Drive Sanitary Sewer Replacement

Description

Installation of approximately 200 LF of 8” sanitary sewer west of SW Irvinedale Drive and south of West 1st Street. This replacement project will utilize open-cut construction.

Justification

This project is necessary due to a roughly 40% sag in the existing segment of pipe. Replacement is necessary in order to eliminate future backups and reduce the amount of maintenance the City currently performs on the line.

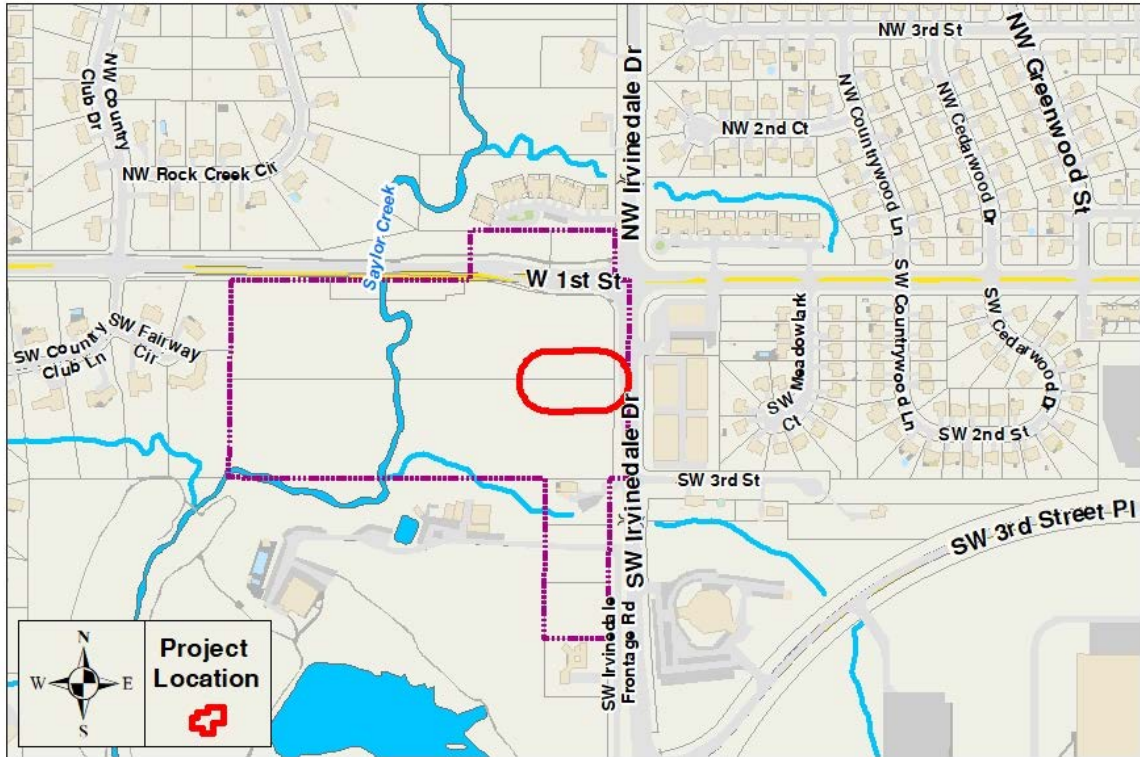
Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design				11,000		11,000
Engineering-Construction Services					9,000	9,000
Construction Costs					104,000	104,000
Land/ROW Acquisition					1,000	1,000
Total				11,000	114,000	125,000

Funding Sources	2023	2024	2025	2026	2027	Total
Sewer Fund				11,000	114,000	125,000
Total				11,000	114,000	125,000

Budget Impact/Other

It is anticipated that construction of this project should have an immediate benefit to the sanitary sewer within this area by increasing system capacity, and reducing the frequency of basement backups. This should result in a reduced need for inspection and maintenance.

Project #	SNS-23-002
Project Name	SW Irvinedale Drive Sanitary Sewer Replacement



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Sewer Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 40 years
Category Sanitary Sewers

Project #	SNS-23-003
Project Name	Deer Creek Trunk Sewer Extension

Description

Install approximately 2,900 LF of 30" diameter sanitary trunk sewer from the existing 30" sanitary line from the south side of NE 18th Street to about 2,800 feet north of NE 18th Street.

Justification

This sanitary sewer project is needed for future land to be annexed and developed north of NE 18th Street. This trunk line will serve a large portion of development land north of NE 18th Street and east of NE 29th Street (county) to our 2040 projected growth boundary. The construction cost and engineering construction services costs for this project are estimated to total \$1,807,000 in 2028.

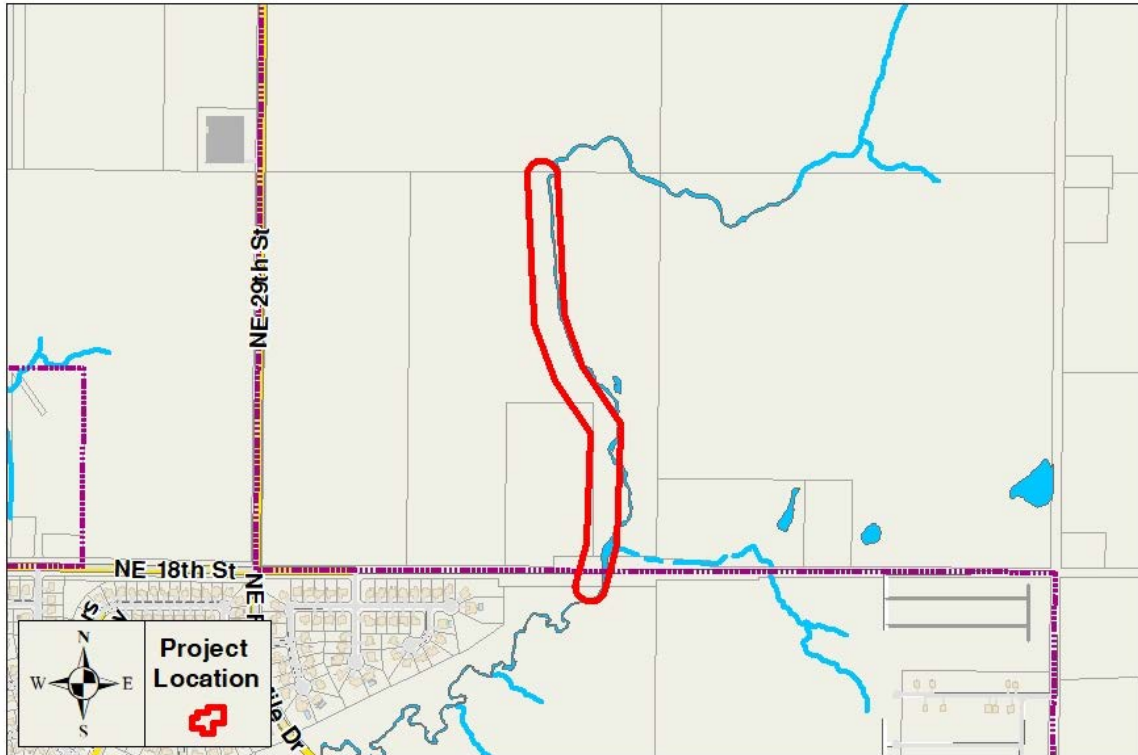
Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design					193,000	193,000
Total					193,000	193,000
Funding Sources	2023	2024	2025	2026	2027	Total
Sewer Fund					193,000	193,000
Total					193,000	193,000

Budget Impact/Other

Since this is new trunk sewer, it is not anticipated that there will be any maintenance required initially. It will be added to our routine pipe cleaning and inspection programs once the maintenance bond period has passed. However, being large diameter trunk sewer, this would have a lower frequency of maintenance and it would likely be hired out as we do not have the equipment to televise this size of active sewer.

Project # SNS-23-003

Project Name Deer Creek Trunk Sewer Extension



2023 - 2027 Capital Improvement Program

2023 thru 2027

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Storm Water

Project #	STM-00-001
Project Name	Annual Storm Water Replacement Program

Description

Annual allocation of capital improvement funds for repair and replacement of storm sewer, structures, channels, etc. Specific projects, listed in order of priority, for 2023 include:

- 1.Small open cut repairs to storm sewers and/or structures near NW Briargate Drive, 700 block of NE 5th Street, SW 2nd Court, 1500 block of NW Linwood Street, 700 block of NE Hayes Drive, and NE 31st Street and NE Trilein Drive – \$160,000
- 2.Repairs to flow control structures/orifice plates in Renaissance Park, NE Briarwood Drive and the Public Services Building – \$50,000
- 3.Erosion repairs at SW Ordance Road and SW State Street and NW Greenwood Street – \$40,000
- 4.Cost share to repair/replace a culvert under SW Ankeny Road – \$25,000
- 5.Survey, analysis and design of streambank repairs and bioretention cells located along Saylor Creek between Old Magazine Road and Vintage Greenway, with construction to occur in 2024 – \$130,000
- 6.Storm water conservation project to be designed and constructed in 2023 – \$15,000
- 7.Minor storm water management and storm sewer improvements and repairs (locations TBD) – \$30,000

Due to the increasing amount of stormwater infrastructure in the City, an increase in the cost of annual repairs and maintenance is expected in future years.

Justification

The purpose of these projects is to repair or improve stormwater infrastructure and associated areas to manage storm water more effectively, and stabilize and repair areas of erosion or structural issues. The open cut repairs will repair or replace failed or damaged storm sewers and/or structures. Repairs to flow controls will include replacement of failed orifice plates. The erosion repairs will include grading, stabilization, and permanent erosion controls. The streambank repairs and bioretention cell project will include clearing and grubbing in order to allow for survey work to be completed, and design of a project that will include stabilizing streambanks and repairs to the bioretention cells that required emergency repair work in 2021. Storm water conservation design projects will be added on City property to provide water quality improvements and serve as a demonstration for residents. Throughout the year, additional locations for minor storm water management and storm sewer improvements and repairs will likely be identified and need to be addressed.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design	65,000	65,000	65,000	65,000	65,000	325,000
Construction Costs	385,000	385,000	385,000	385,000	385,000	1,925,000
Total	450,000	450,000	450,000	450,000	450,000	2,250,000
Funding Sources	2023	2024	2025	2026	2027	Total
Capital Project Fund	100,000	50,000	50,000			200,000
Storm Water Fund	350,000	400,000	400,000	450,000	450,000	2,050,000
Total	450,000	450,000	450,000	450,000	450,000	2,250,000

Budget Impact/Other

Repairing and improving the storm water management system will reduce the annual maintenance costs for the City because the Public Works Department will not have to continue regularly addressing the maintenance issues caused by deficiencies in the storm water management system.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs	-8,000	-10,000	-10,000	-12,000	-12,000	-52,000
Total	-8,000	-10,000	-10,000	-12,000	-12,000	-52,000

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Project # STM-00-001

Project Name Annual Storm Water Replacement Program



city of
Ankeny

bringing it all together

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Storm Water

Project # STM-19-004
Project Name Sawgrass Park Dam Improvements

Description

Improvements to address functionality, safety and associated issues with the Sawgrass Park Dam. The improvements will likely include grading to install an emergency overflow, outlet structure modification and slope armoring to reduce downstream risks.

Justification

The Sawgrass Park Dam was identified as deficient by the Iowa DNR in 2018 because the dam does not meet the Iowa DNR's current design criteria. Due to the dam's age, it likely did not need a permit when it was originally constructed. This project will improve the functionality of the upstream storm water detention basin by modifying the size of the outlet structure opening and providing a more efficient emergency overflow path. The downslope of the dam will likely be hard-armored to protect from slope failure if overtopping occurs in the future. These improvements will allow the dam to be in compliance with current Iowa DNR standards for low hazard dams.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design		90,000				90,000
Engineering-Construction Services			30,000			30,000
Construction Costs			415,000			415,000
Total		90,000	445,000			535,000

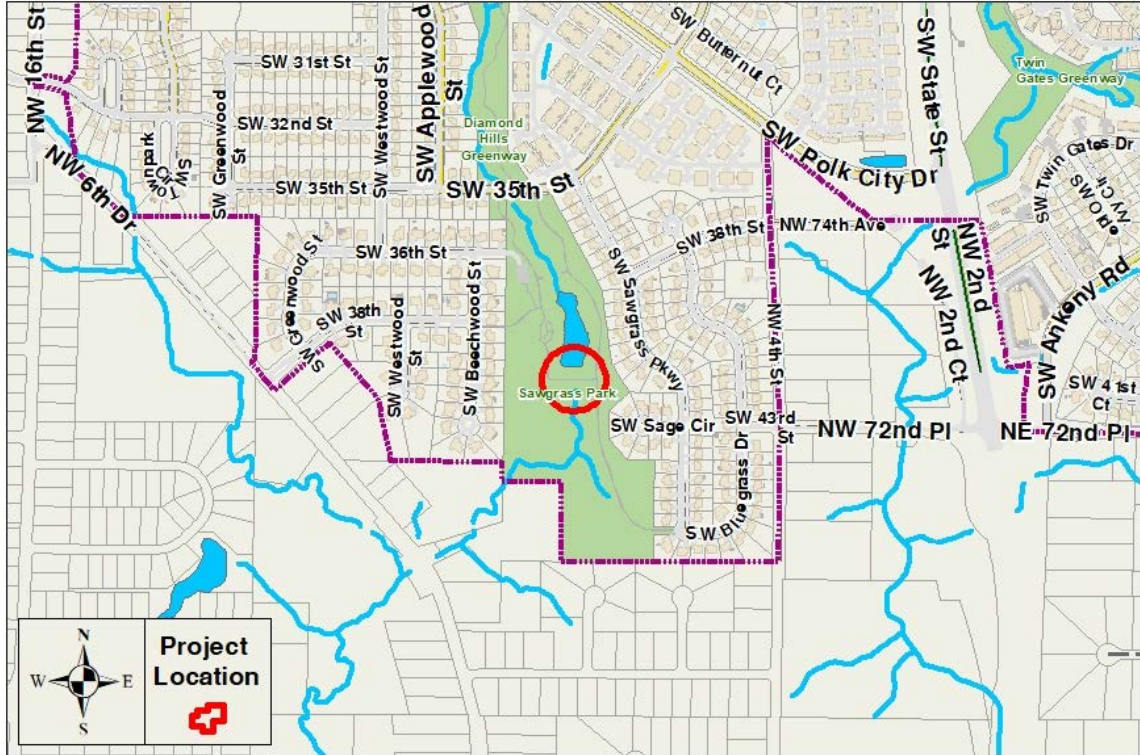
Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds - Storm Water Abated		90,000	445,000			535,000
Total		90,000	445,000			535,000

Budget Impact/Other

Improving the dam and the basin's outlet infrastructure will reduce the annual maintenance costs for the City because the Public Works and Parks & Recreation departments should not have to repair the dam's slope and the basin's outlet infrastructure.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs				-500	-500	-1,000
Total				-500	-500	-1,000

Project #	STM-19-004
Project Name	Sawgrass Park Dam Improvements



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Storm Water

Project # STM-20-001

Project Name Four Mile Creek Channel Stabilization-NE 47th St

Description

Improvements to address safety, capacity, functionality, sedimentation, erosion, and associated issues within Four Mile Creek between NE 47th Street and NE 54th Street. The improvements may include clearing and grubbing to remove flow impediments and significant invasive tree growth; targeted reshaping of the channel to establish stable slopes; repairing a horseshoe bend at risk of eroding and causing a shortened flow path; and establishing native/wetland plantings.

Justification

The purpose of this project is to stabilize the channel, repair a horseshoe meander, and remove debris and invasive vegetation which have caused safety and functionality concerns. The project costs are shown for the permitting and final design in 2023 and 2024, and construction scheduled in 2024 and 2025. This project is included in a Polk County led NRCS WFPO study to be completed early 2023, which is expected to result in 75% NRCS funding for construction observation and 50% NRCS funding for construction of the project.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design	65,000					65,000
Engineering-Construction Services		55,000	40,000			95,000
Construction Costs		500,000	400,000			900,000
Total	65,000	555,000	440,000			1,060,000

Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds - Storm Water Abated		275,000	210,000			485,000
Other Grants		280,000	230,000			510,000
Storm Water Fund	65,000					65,000
Total	65,000	555,000	440,000			1,060,000

Budget Impact/Other

Improving the channel will reduce the annual maintenance costs for the City as the Public Works Department will not have to perform spot repairs within the existing channel to protect infrastructure.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs			-750	-1,500	-1,500	-3,750
Total			-750	-1,500	-1,500	-3,750

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Storm Water

Project # STM-20-002
Project Name High Trestle Trail Channel Stabilization

Description

Improvements to address safety, capacity, functionality, sedimentation, erosion, and associated issues within the existing drainage channel on the west/south sides of the High Trestle Trail from north of West 1st Street to NW 18th Street. The improvements will include clearing and grubbing to remove flow impediments; reshaping the channel to establish stable slopes; addressing diminished flow capacity; providing toe protection; and establishing native/wetland plantings.

Justification

The purpose of this project is to stabilize the channel, re-establish flow capacity, and remediate drainage and erosion issues which have caused safety, health and infrastructure concerns. The survey, concept plan and design work were completed in 2021 and 2022 with construction of the project scheduled for 2023 and 2024. This project will be included with the Municipal Utilities Department's High Trestle Trail Water Transmission Main project which is proposed in the same corridor and on the same schedule.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Construction Services	40,000	20,000				60,000
Construction Costs	440,000	290,000				730,000
Total	480,000	310,000				790,000

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Project Fund	165,000					165,000
G.O. Bonds - Storm Water Abated		310,000				310,000
Storm Water Fund	315,000					315,000
Total	480,000	310,000				790,000

Budget Impact/Other

Improving the channel will reduce the annual maintenance costs for the City because the Public Works Department will not have to do spot repairs within the existing channel and storm water will not be standing or within public infrastructure.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs		-2,500	-4,500	-4,500	-4,500	-16,000
Total		-2,500	-4,500	-4,500	-4,500	-16,000

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Storm Water

Project #	STM-20-004
Project Name	Tributary to Four Mile Creek Channel Stabilization

Description

Improvements to address safety, capacity, functionality, sedimentation, erosion, and associated issues within the tributary to Four Mile Creek, east of St. James Place, between NE 47th Street and NE 54th Street. The improvements may include clearing and grubbing to remove flow impediments, reshaping the channel to establish stable slopes, reconnection to the floodplain, reestablishing the channel bottom, providing toe protection, repairing gully erosion, repairing undermined outlet structures, repairing and modifying an existing storm water detention basin, and establishing native/wetland plantings. Permanent drainage easements may need to be acquired in conjunction with this project.

Justification

The purpose of this project is to stabilize the channel, repair gully erosion, repair and modify a storm water detention basin, and repair outlet structures which have caused safety and functionality concerns. The project costs are shown for the permitting and final design in 2023 and 2024, and construction scheduled in 2024 and 2025. This project is included in a Polk County led NRCS WFPO study to be completed early 2023, which is expected to result in 75% NRCS funding for construction observation and 50% NRCS funding for construction of the project.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design	250,000					250,000
Engineering-Construction Services		165,000	110,000			275,000
Construction Costs		1,110,000	1,110,000			2,220,000
Total	250,000	1,275,000	1,220,000			2,745,000

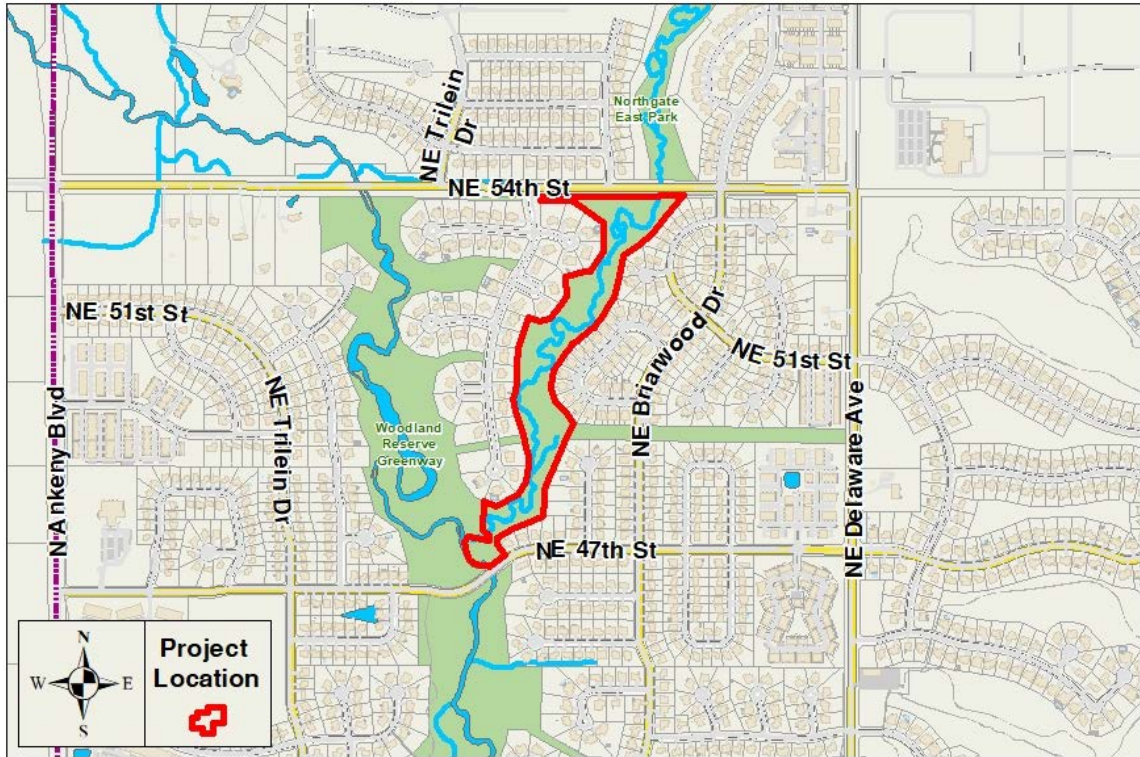
Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds - Storm Water Abated	250,000	235,000	180,000			665,000
Other Grants		640,000	640,000			1,280,000
Storm Water Fund		400,000	400,000			800,000
Total	250,000	1,275,000	1,220,000			2,745,000

Budget Impact/Other

Improving the channel will reduce the annual maintenance costs for the City because the Public Works Department will not have to do repairs within the existing channel to protect infrastructure.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs			-2,000	-4,000	-4,000	-10,000
Total			-2,000	-4,000	-4,000	-10,000

Project #	STM-20-004
Project Name	Tributary to Four Mile Creek Channel Stabilization



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Storm Water

Project #	STM-20-005
Project Name	Westlawn Area Storm Sewer Improvements

Description

Construction of storm sewer infrastructure improvements in underserved sections of the Westlawn area, which is located south of West 1st Street, north of SW Ordinance Road, east of SW State Street, and west of SW Des Moines Street. The proposed storm sewer improvements will include footing drain/sump collector lines, storm sewer pipes, intakes, utility accesses, and related pavement removal and replacement.

Justification

The purpose of the project is to address areas that lack storm sewer infrastructure or have known capacity issues within the existing storm sewer network. The June 30, 2018 extreme flash flooding event and other high intensity rainfall events in the past several years have demonstrated the need for adding storm sewer infrastructure in this low-lying area with poorly-drained soils. Adding sump collector lines and storm sewer will help reduce drainage issues and minor flooding on public and private properties. The project’s proposed schedule includes survey and concept design in 2025, design work in 2026, and construction of the project in 2027 and 2028 (cost estimate = \$1,600,000).

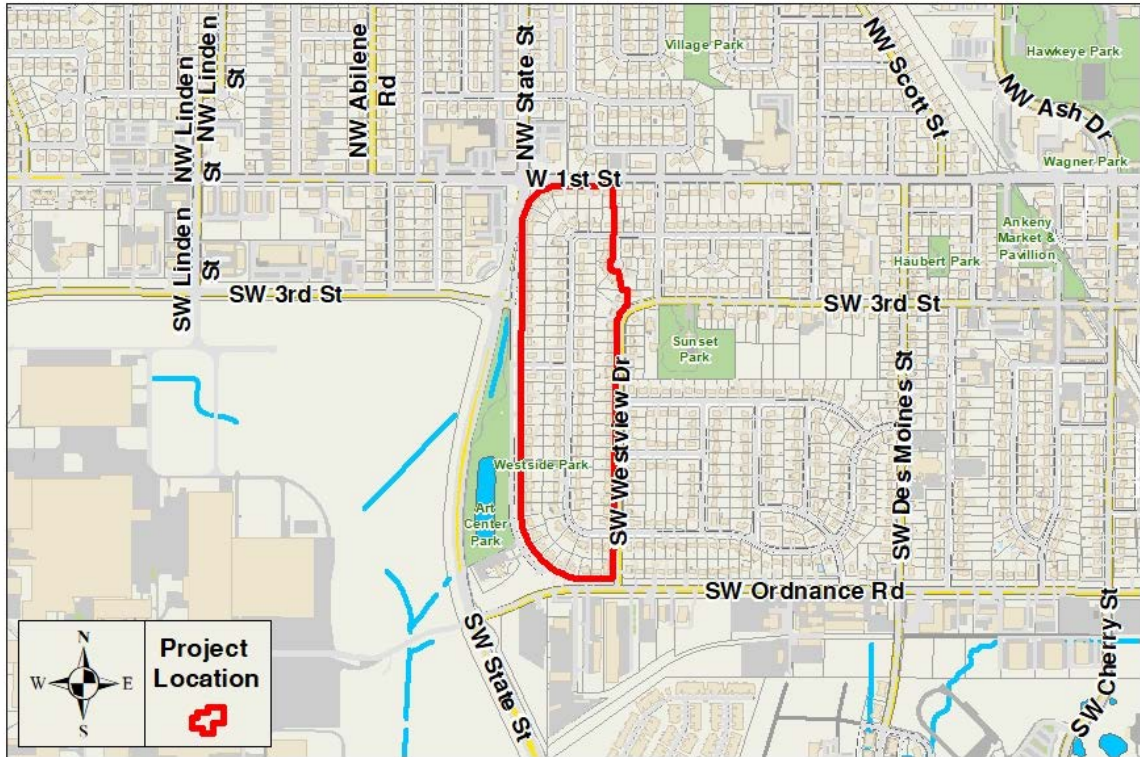
Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design			150,000	250,000		400,000
Engineering-Construction Services					40,000	40,000
Construction Costs					1,600,000	1,600,000
Total			150,000	250,000	1,640,000	2,040,000

Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds - Storm Water Abated			150,000	250,000	1,240,000	1,640,000
Storm Water Fund					400,000	400,000
Total			150,000	250,000	1,640,000	2,040,000

Budget Impact/Other

In the long term, adding new storm sewer infrastructure to the City’s storm water management system will reduce annual maintenance costs for the Public Works and Municipal Utilities departments, and it should reduce the amount of Storm Water Division staff time needed to address drainage issues and concerns in this area of the City.

Project #	STM-20-005
Project Name	Westlawn Area Storm Sewer Improvements



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Storm Water

Project #	STM-20-006
Project Name	SE 3rd Street Area Trunk Storm Sewer Improvements

Description

Construction of storm sewer infrastructure improvements in underserved sections of the SE 3rd Street area, which is located south of East 1st Street, north of SE Peterson Drive, east of South Ankeny Boulevard, and west of SE Sharon Drive. The proposed storm sewer infrastructure improvements will include footing drain/sump collector lines, storm sewer pipe, intakes, utility accesses, and related pavement removal and replacement necessary to install a trunk storm sewer along SE 3rd Street from South Ankeny Boulevard to SE Sharon Drive.

Justification

The purpose of the project is to address areas that lack storm sewer infrastructure or have known capacity issues within the existing storm sewer network. The June 30, 2018 extreme flash flooding event and other high intensity rainfall events in the past several years have demonstrated the need for adding storm sewer infrastructure in this low-lying area with poorly-draining soils. Adding sump collector lines and storm sewer will help reduce drainage issues and minor flooding on public and private properties. The project's proposed schedule includes construction in 2024. The proposed storm sewer improvements on SE 3rd Street will need to be coordinated with the Municipal Utilities Department's proposed SE 3rd Street Trunk Sanitary Sewer replacement, between South Ankeny Boulevard and SE Sharon Drive, and water main replacement along SE 3rd Street. The 2024 construction costs include approximately \$170,000 of water main improvements.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Construction Services		25,000				25,000
Construction Costs		1,250,000				1,250,000
Total		1,275,000				1,275,000

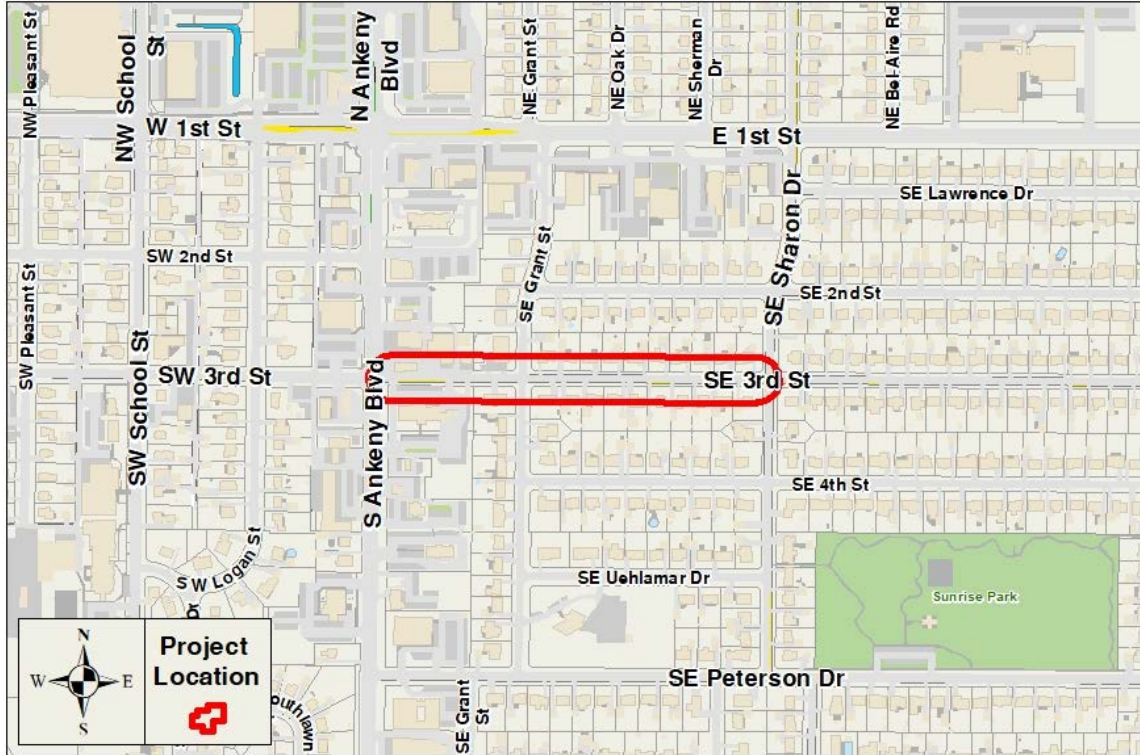
Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds - Storm Water Abated		1,275,000				1,275,000
Total		1,275,000				1,275,000

Budget Impact/Other

In the long term, adding new storm sewer infrastructure to the City's storm water management system will reduce annual maintenance costs for the Public Works and Municipal Utilities departments, and it should reduce the amount of Storm Water Division staff time needed to address drainage issues and concerns in this area of the City.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs		-1,000	-2,000	-2,000	-2,000	-7,000
Total		-1,000	-2,000	-2,000	-2,000	-7,000

Project #	STM-20-006
Project Name	SE 3rd Street Area Trunk Storm Sewer Improvements



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Storm Water

Project #	STM-21-001
Project Name	SE 3rd St Area Collection Storm Sewer Improvements

Description

Construction of storm sewer infrastructure improvements in underserved sections of the SE 3rd Street area, which is located south of East 1st Street, north of SE Peterson Drive, east of South Ankeny Boulevard, and west of SE Trilein Drive. The proposed storm sewer infrastructure improvements will include footing drain/sump collector lines, storm sewer pipe, and associated intakes, utility accesses, and related pavement removal and replacement necessary to install collection storm sewer in the area. The proposed improvements schedule will include constructing new storm sewer along SE 4th Street from SE Grant Street to SE Sharon Drive and along SE Lawrence Drive from SE Sharon Drive to SE Trilein Drive in 2025. New storm sewer along SE Uehlar Drive from SE Grant Street to SE Sharon Drive and along SE 2nd Street from SE Sharon Drive to SE Trilein Drive is being proposed for construction in 2026.

Justification

The purpose of the project is to address areas that lack storm sewer infrastructure or have known capacity issues within the existing storm sewer network. The June 30, 2018 extreme flash flooding event and other high intensity rainfall events in the past several years have demonstrated the need for adding storm sewer infrastructure in this low-lying area with poorly-drained soils. Adding sump collector lines and storm sewer will help reduce drainage issues and minor flooding on public and private properties. The project's proposed schedule includes survey and design work in 2024 through 2025 and construction of the projects in 2025 through 2026. The construction cost estimate for 2025 includes \$100,000 of water main replacement (upgrade existing 4" to new 8") along SE 4th Street.

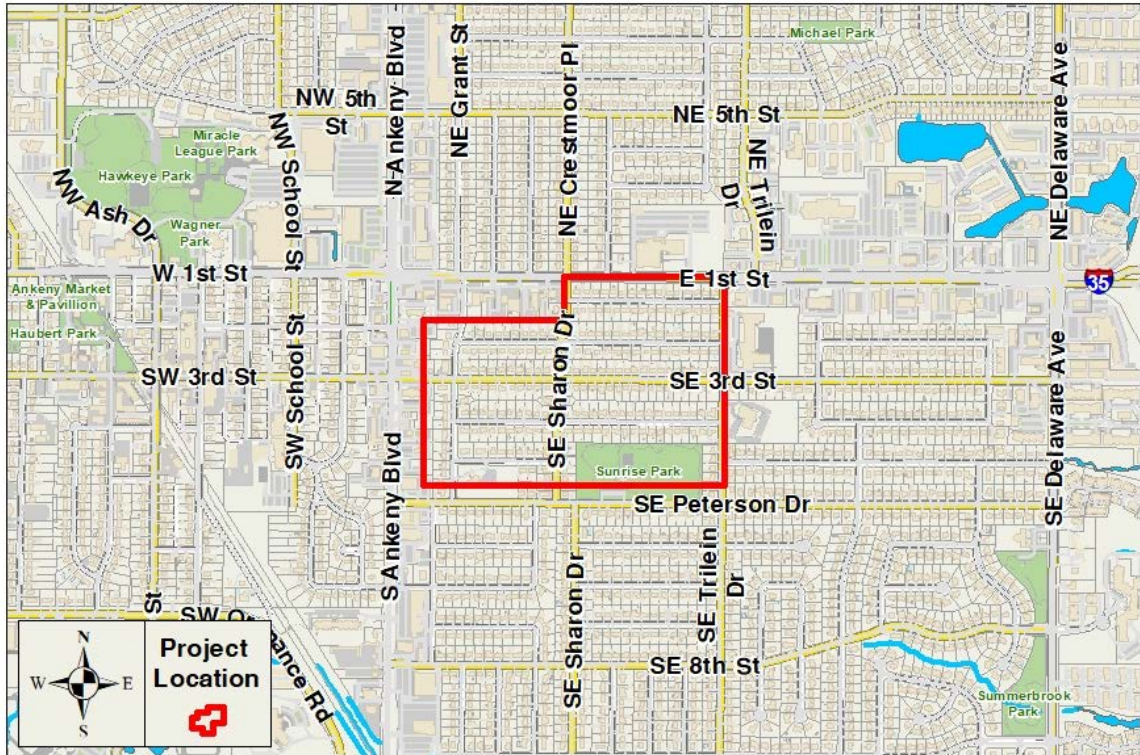
Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design		180,000				180,000
Engineering-Construction Services			210,000	30,000		240,000
Construction Costs			1,170,000	1,300,000		2,470,000
Total		180,000	1,380,000	1,330,000		2,890,000
Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds - Storm Water Abated		180,000	1,380,000	930,000		2,490,000
Storm Water Fund				400,000		400,000
Total		180,000	1,380,000	1,330,000		2,890,000

Budget Impact/Other

In the long term, adding new storm sewer infrastructure to the City's storm water management system will reduce annual maintenance costs for the Public Works and Municipal Utilities departments, and it should reduce the amount of Storm Water Division staff time needed to address drainage issues and concerns in this area of the City.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs				-1,000	-2,000	-3,000
Total				-1,000	-2,000	-3,000

Project # STM-21-001
Project Name SE 3rd St Area Collection Storm Sewer Improvements



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Storm Water

Project # STM-21-002
Project Name Westwinds Storm Sewer Extension

Description

The project will include extending an existing storm sewer in the Westwinds neighborhood, between 2012 and 2016 SW Westwinds Drive, in order to outlet the stormwater flow near the base of the channel.

Justification

Extending the existing storm sewer outlet and repairing erosion at the project site will help reduce future erosion issues.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design	35,000					35,000
Construction Costs	160,000					160,000
Land/ROW Acquisition	15,000					15,000
Total	210,000					210,000

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Project Fund	190,000					190,000
Storm Water Fund	20,000					20,000
Total	210,000					210,000

Budget Impact/Other

Extending the storm sewer will reduce Public Works staff time that is being spent on regularly reviewing this issue, and it will reduce the potential for future stream bank erosion at this location.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs		-1,000	-1,000	-1,000	-1,000	-4,000
Total		-1,000	-1,000	-1,000	-1,000	-4,000

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Storm Water

Project #	STM-22-001
Project Name	SE Creekview Drive Wetland

Description

The proposed project will use an undevelopable area for a new wetland on the east side of SE Creekview Drive, south of East 1st Street. The wetland will be designed to store approximately 30 acre-feet of stormwater, and treat approximately 250 acres of drainage area. The improvements will include grading, native vegetation, and flow control devices. The wetland design will be similar to other existing wetlands located within the City.

Justification

The current property owner is interested in donating the land to the City for the construction of a wetland, as this area of land cannot be developed. The location is near other City property and has a 422-acre drainage area of which approximately 250 acres will be treated through the wetland. The wetland will be designed in 2022 through 2023 and constructed in 2023 through 2024. The funding sources for the design and construction of project include grants from the Iowa Finance Authority, IDALS, and Polk County.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Construction Services	200,000					200,000
Construction Costs	1,300,000					1,300,000
Total	1,500,000					1,500,000

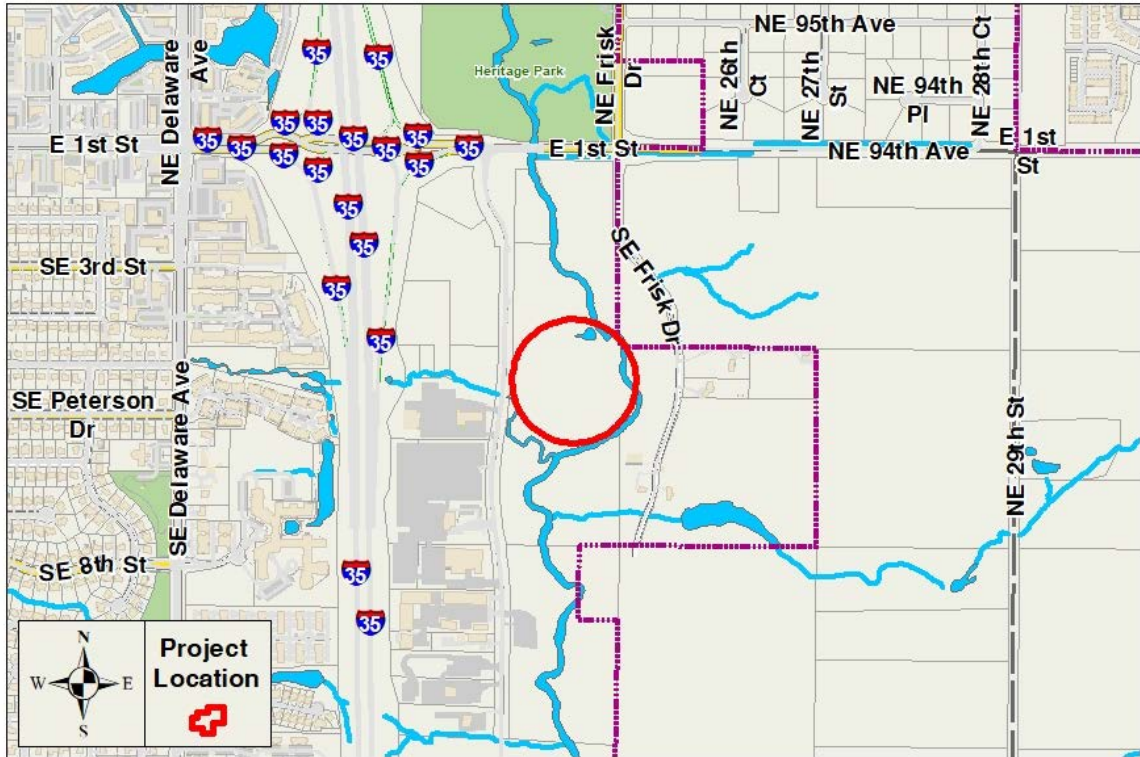
Funding Sources	2023	2024	2025	2026	2027	Total
Other Grants	1,350,000					1,350,000
Private Contributions	150,000					150,000
Total	1,500,000					1,500,000

Budget Impact/Other

After construction is complete, the City will be responsible for maintaining the wetland. It is expected to cost approximately \$5,000 to \$10,000 every 5 years to perform maintenance on the wetland.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs					5,000	5,000
Total					5,000	5,000

Project # STM-22-001
Project Name SE Creekview Drive Wetland



2023 - 2027 Capital Improvement Program

2023 thru 2027

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Storm Water

Project #	STM-22-002
Project Name	Diamond Hills Greenway Stream Stabilization

Description

Comprehensive improvements to address safety, capacity, functionality, sedimentation, erosion, and associated issues within a tributary to Saylor Creek, between SW Applewood Street and Sawgrass Park. The improvements will include clearing and grubbing to remove flow impediments and provide access to culverts for maintenance; reshaping the channel to establish stable slopes; re-establishing the channel bottom; providing toe protection; repairing gully erosion; repairing undermined outlet structures; extending storm sewer; and where possible, establishing native/wetland plantings. Temporary easements may need to be acquired in conjunction with this project.

Justification

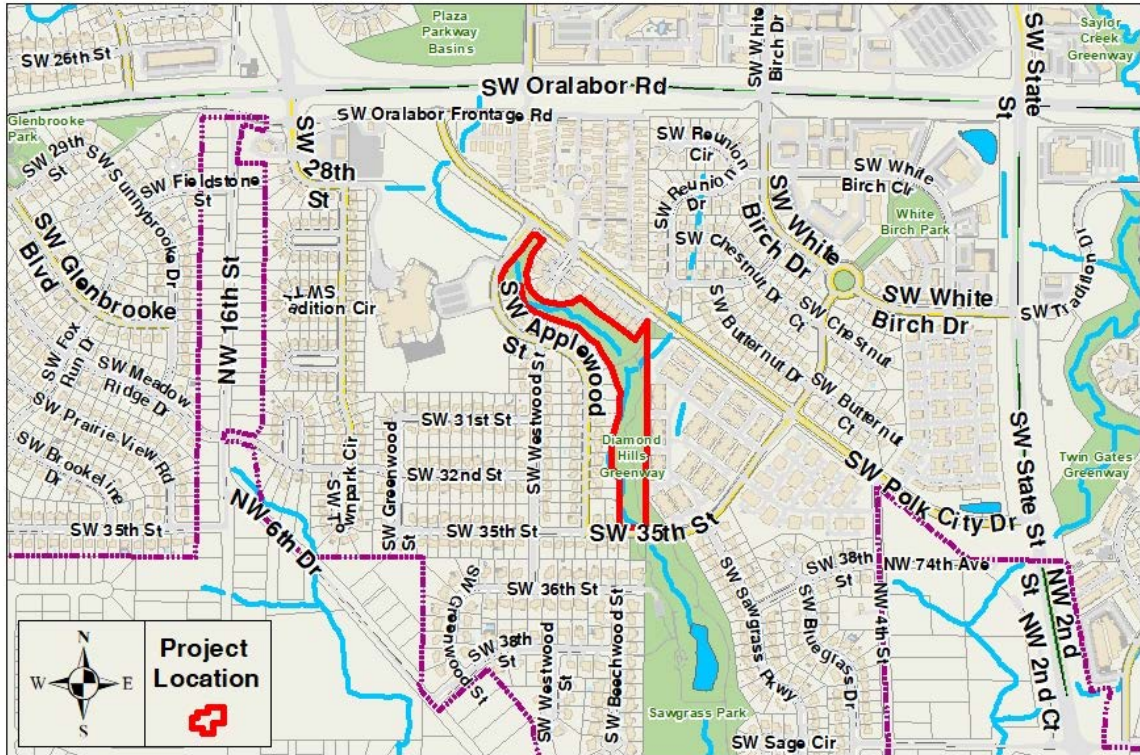
The purpose of this project is to stabilize the channel, repair gully erosion, and extend and repair outlet structures which have caused safety and functionality concerns. The project costs are shown for the concept study, preliminary design, and survey in 2025, design in 2026, and construction in 2027.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design			75,000	75,000		150,000
Engineering-Construction Services					80,000	80,000
Construction Costs					1,530,000	1,530,000
Total			75,000	75,000	1,610,000	1,760,000
Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds - Storm Water Abated			75,000	75,000	1,610,000	1,760,000
Total			75,000	75,000	1,610,000	1,760,000

Budget Impact/Other

After the channel is improved, the annual maintenance costs for the City will be reduced because the Public Works Department will not have to perform spot repairs within the existing channel to protect infrastructure.

Project # STM-22-002
Project Name Diamond Hills Greenway Stream Stabilization



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Storm Water

Project #	STM-22-003
Project Name	Four Mile Creek Channel Stabilization-East 1st St

Description

Improvements to address safety, functionality, sedimentation, erosion and associated issues within Four Mile Creek, located downstream of East 1st Street for approximately one-quarter (¼) of a mile. The improvements may include clearing and grubbing; reshaping the channel to establish stable slopes; reconnection to the floodplain; re-establishing the channel bottom; providing toe protection; repairing gully erosion; repairing undermined outlet structures; and where possible, establishing native/wetland plantings. Permanent drainage easements may need to be acquired in conjunction with this project.

Justification

The purpose of this project is to stabilize the channel, repair gully erosion, extend and repair outlet structures which have caused safety and functionality concerns. The project costs are shown for the survey and preliminary design to be completed in 2026, permitting to be completed in 2026 through 2027, final design in 2027, and construction in 2028. This project is included in a Polk County led NRCS WFPO study to be completed early 2023, which is expected to result in 50% NRCS funding for design (not including permitting), 75% NRCS funding for construction observation and 50% NRCS funding for construction of the project. The construction cost estimate is \$1,320,000.

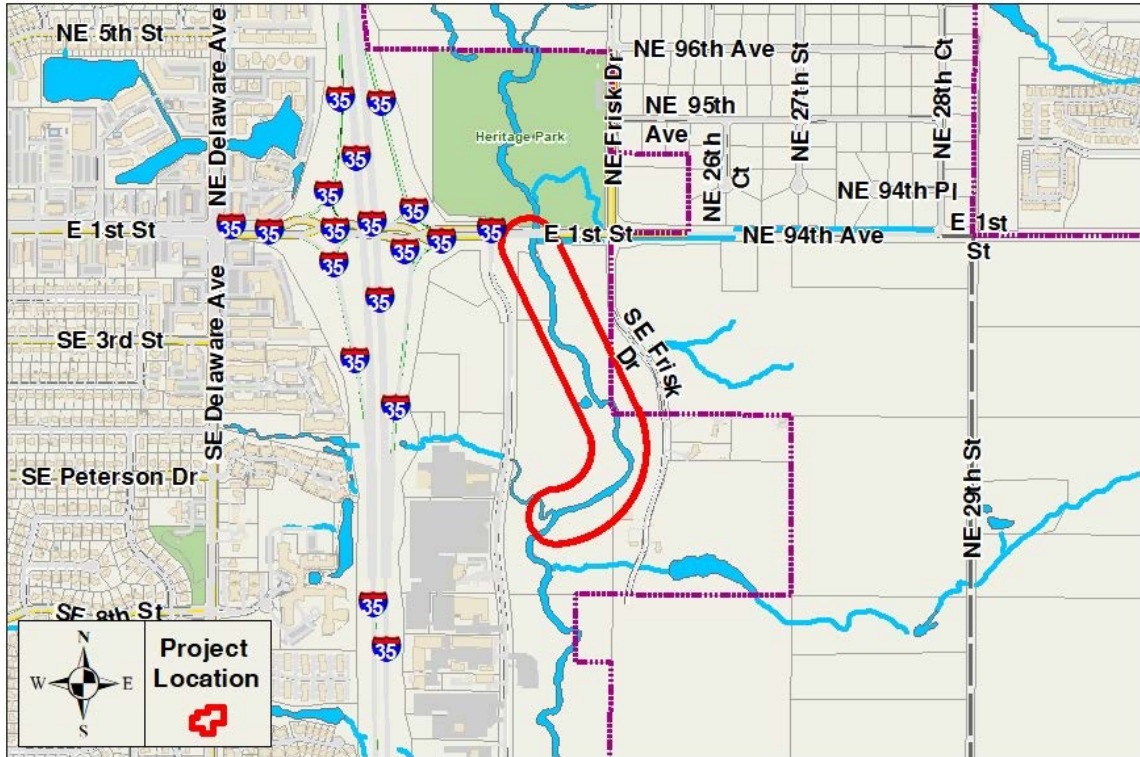
Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design					150,000	150,000
Survey/Preliminary Analysis				160,000		160,000
Total				160,000	150,000	310,000

Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds - Storm Water Abated				95,000	90,000	185,000
Other Grants				65,000	60,000	125,000
Total				160,000	150,000	310,000

Budget Impact/Other

After the channel is improved, the annual maintenance costs for the City will be reduced because the Public Works Department will not have to perform spot repairs within the existing channel to protect infrastructure.

Project # STM-22-003
Project Name Four Mile Creek Channel Stabilization-East 1st St



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Storm Water

Project #	STM-22-004
Project Name	Four Mile Creek Channel Stabilization-NE 36th St

Description

Improvements to address safety, functionality, sedimentation, erosion, and associated issues within Four Mile Creek, between NE 36th Street and NE 47th Street. The improvements may include clearing and grubbing; reshaping the channel to establish stable slopes; reconnection to the floodplain; re-establishing the channel bottom; providing toe protection; repairing gully erosion; repairing undermined outlet structures; and where possible, establishing native/wetland plantings. Permanent drainage easements may need to be acquired in conjunction with this project.

Justification

The purpose of this project is to stabilize the channel, repair gully erosion, and repair outlet structures which have caused safety and functionality concerns. The project costs are shown for the survey and preliminary design to be completed in 2026, permitting to be completed in 2026 through 2027, final design in 2027, and construction in 2028. This project is included in a Polk County led NRCS WFPO study to be completed early 2023, which is expected to result in 50% NRCS funding for design (not including permitting), 75% NRCS funding for construction observation and 50% NRCS funding for construction of the project. The construction cost estimate is \$2,265,000.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design					260,000	260,000
Survey/Preliminary Analysis				270,000		270,000
Total				270,000	260,000	530,000

Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds - Storm Water Abated				165,000	155,000	320,000
Other Grants				105,000	105,000	210,000
Total				270,000	260,000	530,000

Budget Impact/Other

After the channel is improved, the annual maintenance costs for the City will be reduced because the Public Works Department will not have to perform spot repairs within the existing channel to protect infrastructure.

2023 - 2027 Capital Improvement Program

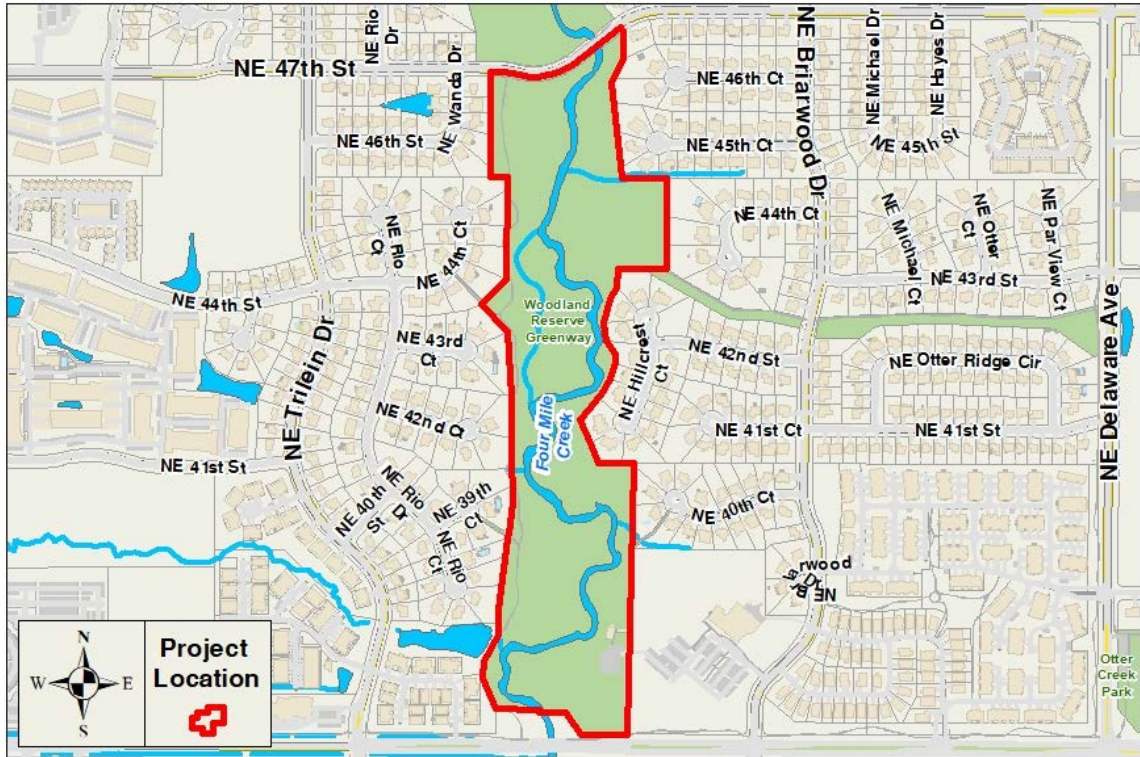
2023 thru 2027

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Project #	STM-22-004
Project Name	Four Mile Creek Channel Stabilization-NE 36th St



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Storm Water

Project #	STM-22-005
Project Name	Saylor Creek Tributary Channel Improvements

Description

Comprehensive improvements to address safety, capacity, functionality, sedimentation, erosion, and associated issues within a tributary to Saylor Creek, between SW State Street and SW Oralabor Road. The improvements may include clearing and grubbing to remove flow impediments; reshaping the channel to establish stable slopes; reconnection to the floodplain; re-establishing the channel bottom; providing toe protection; repairing gully erosion; repairing undermined outlet structures; and where possible, establishing native/wetland plantings. Permanent drainage easements may need to be acquired in conjunction with this project.

Justification

The purpose of this project is to stabilize the channel, repair gully erosion, and repair outlet structures which have caused safety and functionality concerns. The project costs are shown for the concept study, survey and preliminary design to be completed in 2027; and the final design and permitting in 2028. Construction (including construction engineering) is anticipated to occur in 2029, and the estimated construction cost is \$3,400,000.

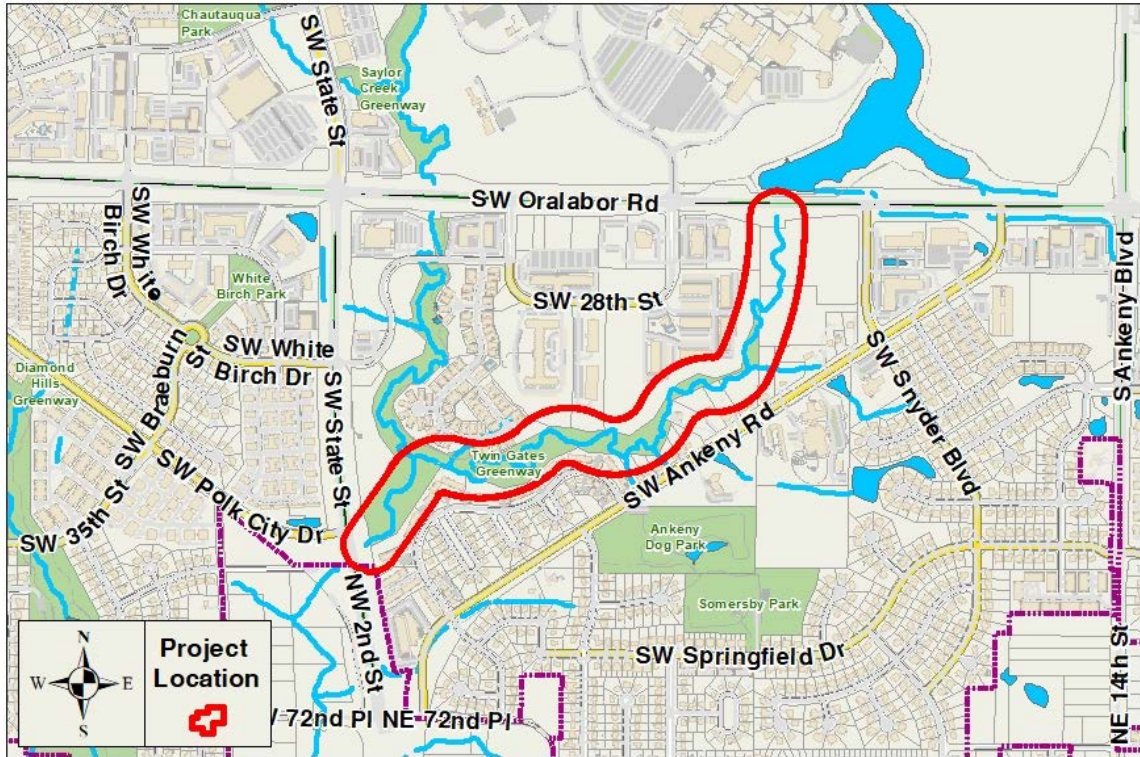
Expenditures	2023	2024	2025	2026	2027	Total
Survey/Preliminary Analysis					190,000	190,000
Total					190,000	190,000

Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds - Storm Water Abated					190,000	190,000
Total					190,000	190,000

Budget Impact/Other

After the channel is improved, the annual maintenance costs for the City will be reduced because the Public Works Department will not have to perform spot repairs within the existing channel to protect infrastructure.

Project #	STM-22-005
Project Name	Saylor Creek Tributary Channel Improvements



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Storm Water Utility

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Storm Water

Project #	STM-23-001
Project Name	Four Mile Channel Stabilization-Heritage Park

Description

Improvements to address safety, functionality, sedimentation, erosion and associated issues within Four Mile Creek, located through Heritage Park. The improvements may include clearing and grubbing; reshaping the channel to establish stable slopes; reconnection to the floodplain; re-establishing the channel bottom; providing toe protection; repairing gully erosion; repairing undermined outlet structures; and where possible, establishing native/wetland plantings. Permanent drainage easements may need to be acquired in conjunction with this project.

Justification

The purpose of this project is to stabilize the channel, repair gully erosion, extend and repair outlet structures which have caused safety and functionality concerns. The project costs are shown for the survey and preliminary design to be completed in 2026, permitting to be completed in 2026 through 2027, final design in 2027, and construction in 2028. This project is included in a Polk County led NRCS WFPO study to be completed early 2023, which is expected to result in 50% NRCS funding for design (not including permitting), 75% NRCS funding for construction observation and 50% NRCS funding for construction of the project. The construction cost estimate is \$770,000.

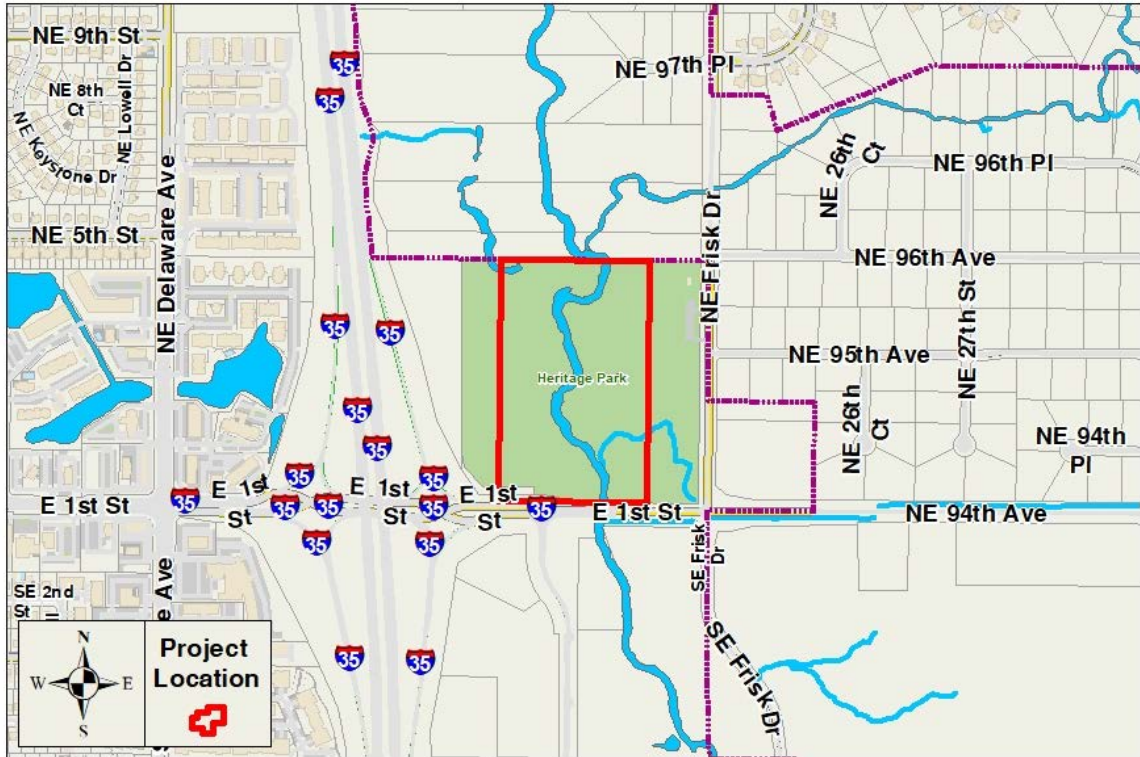
Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design					90,000	90,000
Survey/Preliminary Analysis				95,000		95,000
Total				95,000	90,000	185,000

Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds - Storm Water Abated				45,000	40,000	85,000
Other Grants				50,000	50,000	100,000
Total				95,000	90,000	185,000

Budget Impact/Other

After the channel is improved, the annual maintenance costs for the City will be reduced because the Public Works Department will not have to perform spot repairs within the existing channel to protect infrastructure.

Project # STM-23-001
Project Name Four Mile Channel Stabilization-Heritage Park



2023 - 2027 Capital Improvement Program

2023 thru 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Maintenance

Useful Life 20 years

Category Streets and Alleys

Project # STR-00-001

Project Name Annual PCC Street Patching Program

Description

This program includes both small-scale and large-scale PCC street patches on local, collector, and arterial streets along with manhole boxout repairs throughout the City. The Annual PCC Street Patching Program project is designed and inspected in-house by Public Works Engineering Division staff. Patching locations are selected based on an annual field assessment of existing deteriorated street conditions.

The Annual PCC Street Patching Program, along with Annual Sanitary Sewer Replacement Program and the Annual Water Main Replacement Program, also funds one-third of the annual Neighborhood Utility Improvements projects. These include:

- 1/3 NW Northlawn Area Utility Improvements (3 of 4 Phases Remaining): 2023 - \$600,000 (Phase 2 Construction) and \$15,000 (Phase 2 Construction Engineering) and \$25,000 (Phase 3 Design Engineering); 2024 - \$450,000 (Phase 3 Construction) and \$15,000 (Phase 3 Construction Engineering) and \$30,000 (Phase 4 Design Engineering); 2025 - \$520,000 (Phase 4 Construction) and \$25,000 (Phase 4 Construction Engineering)
- 1/3 Original Ankeny Area Utility Improvements (number of phases still TBD): 2024 - \$30,000 (Survey and Conceptual Design); 2025 - \$60,000 (Phase 1 Design Engineering); 2026 - \$600,000 (Phase 1 Construction) and \$30,000 (Phase 1 Construction Engineering) and \$30,000 (Phase 2 Design Engineering)

Justification

The Annual PCC Street Patching Program addresses the most critical street defects on the City's streets. Once the condition of the deteriorated streets is beyond being maintained by preventative measures such as joint preservation and partial depth repair, it becomes very important to maintain the older streets as they continue to deteriorate over time in order to delay cost-prohibitive full street reconstruction. The types of patching included with the annual project range from small-scale isolated patches (three panels or less) to large-scale truss screed patches (up to one city block in length). The funding allocated for the Annual PCC Street Patching Program project included within the table below assumes a \$850,000 patching project in 2023 with incremental \$50,000 increases each year to \$1,050,000 in 2027.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design	25,000	30,000	60,000	30,000	30,000	175,000
Engineering-Construction Services	15,000	15,000	25,000	30,000	30,000	115,000
Construction Costs	1,450,000	1,350,000	1,470,000	1,600,000	1,650,000	7,520,000
Survey/Preliminary Analysis		30,000				30,000
Total	1,490,000	1,425,000	1,555,000	1,660,000	1,710,000	7,840,000
Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds	1,490,000	1,425,000	1,555,000	1,660,000	1,710,000	7,840,000
Total	1,490,000	1,425,000	1,555,000	1,660,000	1,710,000	7,840,000

Budget Impact/Other

The utility and pavement improvement projects will replace and upgrade existing sanitary sewer, water main, storm sewer, and pavement infrastructure which will reduce annual maintenance costs for the City's Public Works and Municipal Utilities Departments. The street patching will extend the service life of existing concrete streets and reduce annual maintenance costs for the City because the Public Works Department will not have to do less effective maintenance (e.g. asphalt cold patching) on the existing pavements.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs	-48,000	-60,000	-72,000	-84,000	-96,000	-360,000
Total	-48,000	-60,000	-72,000	-84,000	-96,000	-360,000

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-00-001

Project Name Annual PCC Street Patching Program



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2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Streets and Alleys

Project # STR-00-002

Project Name Annual Asphalt Street Resurfacing Program

Description

The Annual Asphalt Street Resurfacing Program focuses on the HMA overlay of County rural roadways now within the City of Ankeny corporate limits. Future projects would focus on overlaying existing asphalt streets within the interior of the City which are typically designed and construction administered in-house by Public Works Engineering Division staff.

The specific projects for 2023 include:

- SW Ordinance Road, SW Cherry Street to SW Railroad Drive, HMA Overlay (\$365,000 construction)
- County NE 38th Street, East 1st Street to NE 18th Street, HMA Overlay (\$75,000 cost share with Polk County)
- County NW 4th Street, South City Limits to SW Polk City Drive, HMA Overlay (\$35,000 cost share with Polk County)

Potential future projects:

- SW Ordinance Road, SW Des Moines Street to SW Cherry Street, HMA Overlay (\$360,000 construction)
- NE Frisk Drive, East 1st Street to NE 18th Street, HMA Overlay (\$60,000 cost share with Polk County)
- NE 18th Street, NE Frisk Drive to Four Mile Drive, HMA Overlay (\$55,000 cost share with Polk County)
- SW Ordinance Road, east of SW Westview Drive to SW Des Moines Street, HMA Overlay (\$350,000 construction)
- SW Ordinance Road, west of SW Westview Drive to east of SW Westview Drive, HMA Overlay (\$225,000 construction)
- SW Goodwin Street, HMA Paving (\$150,000 construction)
- SW Ankeny Road from SW State Street to SW Oralabor Road - HMA overlay or diamond grinding
- NW 5th Street from NW Weigel Drive to NW Irvinedale Drive - HMA overlay or slurry level
- NE Delaware Avenue from NE 36th Street to NE 54th Street - HMA overlay or slurry level
- Public alleyways between SW Cherry Street and SW Walnut Street, from West 1st Street to SW 3rd Street - HMA overlay
- SE Oralabor Road, east of SE Convenience Boulevard to PCC - HMA overlay

Justification

Significant progress has been made on overlaying existing asphalt rural roadways along the exterior of the City. Public Works staff has identified potential projects in the interior of the City that could benefit from the annual HMA program by overlaying existing asphalt streets.

Expenditures	2023	2024	2025	2026	2027	Total
Construction Costs	475,000	475,000	350,000	375,000	350,000	2,025,000
Total	475,000	475,000	350,000	375,000	350,000	2,025,000

Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds	475,000	475,000	350,000	375,000	350,000	2,025,000
Total	475,000	475,000	350,000	375,000	350,000	2,025,000

Budget Impact/Other

This program will extend the service life of existing asphalt streets and reduce annual maintenance costs for the City because the Public Works Department will not have to do less effective preventative maintenance (e.g. cold patching) on the existing pavements.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs	-10,000	-12,000	-14,000	-16,000	-18,000	-70,000
Total	-10,000	-12,000	-14,000	-16,000	-18,000	-70,000

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-00-002

Project Name Annual Asphalt Street Resurfacing Program



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2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Maintenance

Useful Life 20 years

Category Streets and Alleys

Project #	STR-00-003
Project Name	Annual Pavement Preservation Program

Description

The Annual Pavement Preservation Program addresses the need for routine, preventative maintenance of the existing concrete streets within Ankeny. The pavement preservation work consists of: (1) sawing, cleaning, and filling existing joints and cracks, and/or (2) performing partial depth repair (PDR) patches of deteriorated concrete pavement adjacent to joints.

Justification

This program is very important in extending the useful life and improving the aesthetics of the City's concrete streets. Public Works Engineering Division staff completes the design and administers the construction for this program. In 2023, the allocation will be used for joint and crack filling on residential streets. In future years, it will be used for joint and crack filling and/or partial depth repair to City streets (residential/collector/arterial) that are approximately 20 years old.

These preventative maintenance measures are the primary and most economical means of extending the useful life of the City's streets and maintaining the Pavement Condition Index (PCI), thereby reducing the need for more expensive pavement repair methods such as full depth patching and complete reconstruction. Industry standards published by the Concrete Pavement Technology Center (CP Tech Center) at Iowa State University recommend that pavement preservation be performed on existing streets every 8 to 10 years in order to extend their useful life.

Expenditures	2023	2024	2025	2026	2027	Total
Construction Costs	350,000	375,000	400,000	425,000	450,000	2,000,000
Total	350,000	375,000	400,000	425,000	450,000	2,000,000

Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds	350,000	375,000	400,000	425,000	450,000	2,000,000
Total	350,000	375,000	400,000	425,000	450,000	2,000,000

Budget Impact/Other

This program will extend the service life of existing concrete streets and reduce annual maintenance costs for the City because the Public Works Department will not have to do less effective preventative maintenance (e.g. asphalt cold patching) on the existing pavements.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs	-9,000	-11,000	-12,000	-14,000	-15,000	-61,000
Total	-9,000	-11,000	-12,000	-14,000	-15,000	-61,000

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-00-003

Project Name Annual Pavement Preservation Program



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2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project #	STR-00-004
Project Name	Annual Street Replacement Program

Description

Full-depth pavement removal and replacement of concrete streets determined to be in poor to very poor condition as rated by the Pavement Condition Index (PCI). The primary focus has been on the City’s collector streets as identified in the 2008 Pavement Management Study. However, there is also a need to reconstruct numerous residential streets and, in some locations, portions of arterial streets.

Projects generally include pavement reconstruction with C-SUD concrete mix, rock subbase, and longitudinal subdrain, along with spot location replacement of deteriorated storm sewer intakes and pipes and/or full replacement of undersized water main. Public Works Engineering Division staff coordinates with the Stormwater Division and also the Municipal Utilities Department to determine whether existing public utilities within the street reconstruction corridor need any repair and/or replacement.

- 2023: SE Creekview Drive - SE Oralabor Road to 400’ north of SE Tones Drive (NB Lanes) - \$625,000 (construct); SE 8th Street - SE Rio Circle to SE Michael Drive - \$825,000 (construct)
- 2024: NW Ash Drive - Prairie Ridge Sports Complex Access Drive to NW 18th Street - \$800,000 (construct); NW Westwood Street - NW 5th Street to 9th Street - \$925,000 (construct);
- 2025: NE Trilein Drive - East 1st Street to NE 5th Street - \$950,000 (construct); TBD - \$800,000 (construct)
- 2026-2027: TBD

Justification

The older sections of Ankeny have streets that are deteriorating at an advanced rate. Many of these interior streets are generally the same age, with serious cracks, spalls, joint failures, poor subgrade, etc. Public Works has the above locations and numerous additional streets targeted for replacement. The engineering design and construction inspection associated with this program will be primarily completed by in-house Engineering Division staff with a few of the projects targeted for an engineering consultant to complete the professional services.

Expenditures	2023	2024	2025	2026	2027	Total
Construction Costs	1,450,000	1,725,000	1,750,000	1,750,000	1,750,000	8,425,000
Total	1,450,000	1,725,000	1,750,000	1,750,000	1,750,000	8,425,000
Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds		1,725,000	1,750,000	1,750,000	1,750,000	6,975,000
Road Use Tax Fund	1,450,000					1,450,000
Total	1,450,000	1,725,000	1,750,000	1,750,000	1,750,000	8,425,000

Budget Impact/Other

This program will reduce the annual maintenance costs for the City because the Public Works Department will not have to do less effective preventative maintenance (e.g. cold patching) on the existing pavements. Projects with proposed water main replacement will reduce annual maintenance costs for the City because the Municipal Utilities Department will not have to repair existing water pipes and appurtenances.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs	-20,000	-25,000	-30,000	-35,000	-40,000	-150,000
Total	-20,000	-25,000	-30,000	-35,000	-40,000	-150,000

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-00-004

Project Name Annual Street Replacement Program



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2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-14-006

Project Name NE Delaware Avenue Reconstruction-5th to 18th

Description

Reconstruction of NE Delaware Avenue from a two-lane rural roadway to a four-lane divided urban street with left turn lanes at the intersections from just north of NE 5th Street to 700 feet north of NE 18th Street. The project also includes new permanent traffic signals at the NE Delaware Avenue and NE 5th Street and NE 18th Street intersections, fiber optic interconnect from East 1st Street to NE 18th Street, and removal of the existing reinforced concrete box (RCB) culvert and replacement with a triple 12 feet x 8 feet RCB culvert for Tributary A to Four Mile Creek.

Justification

Widening and reconstructing the roadway will allow for improved traffic mobility and safety in the NE Delaware Avenue corridor, as the City continues to grow. The project's final design has been completed; construction is scheduled for 2023 and 2024; and the landscaping improvements are anticipated to occur in 2025. Federal STBG-Swap funding in the amount of \$3,000,000 has been obtained through the Des Moines Area MPO. Traffic Safety Improvement Program (TSIP) funding in the amount of \$500,000 has been obtained through the Iowa DOT.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Construction Services	300,000	325,000	25,000			650,000
Construction Costs	5,100,000	5,550,000	125,000			10,775,000
Street Lighting	275,000	200,000				475,000
Total	5,675,000	6,075,000	150,000			11,900,000

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Project Fund	1,500,000					1,500,000
FHWA/IDOT Grants	250,000	250,000				500,000
G.O. Bonds	2,170,000	4,325,000	150,000			6,645,000
MPO/STBG Grants	1,500,000	1,500,000				3,000,000
Special Assessments	255,000					255,000
Total	5,675,000	6,075,000	150,000			11,900,000

Budget Impact/Other

The additional public street pavement and 8-ft. sidewalk will increase maintenance costs for the City due to the additional winter maintenance and street sweeping that will be required. In the long-term, replacing the existing street will reduce annual maintenance costs for the City because the Public Works Department will not have to do patching and crack and joint sealing on the existing pavement. The traffic signal, fiber optic interconnect, and public utility infrastructure will add annual maintenance costs for the City's Public Works and Municipal Utilities departments. The new traffic signal and streetlights will result in additional electric power costs for the City.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs		2,000	4,000	4,000	4,000	14,000
Utilities		3,500	6,000	6,000	6,000	21,500
Total		5,500	10,000	10,000	10,000	35,500

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-16-003

Project Name SW Oralabor Rd and SW Irvinedale Dr Intersection

Description

Reconstruction of the SW Oralabor Road (Iowa Highway 415) and SW Irvinedale Drive intersection. The project includes a traffic study, conceptual design, and surveying in 2024; design engineering services, right-of-way acquisition, and utility relocations in 2025; and construction engineering services and project construction in 2026. Due to SW Oralabor Road (Iowa Highway 415) being a joint jurisdictional roadway, the proposed improvements would need to be coordinated with the Iowa DOT. The SW Oralabor Frontage Road and SW 28th Street intersection located directly south of the main intersection would also be included as a part of the traffic study, and may be improved with the project.

Justification

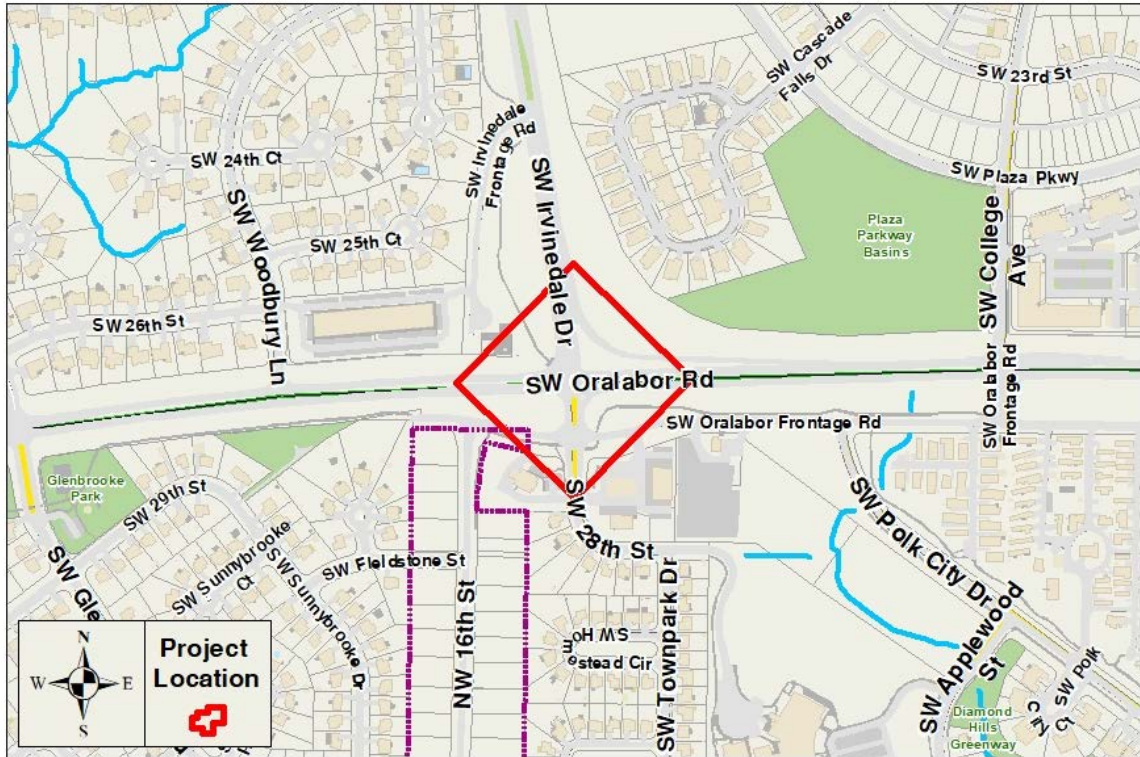
The purpose of the project is to improve traffic safety and mobility at the SW Oralabor Road and SW Irvinedale Drive intersection. This project will modify the configuration of the traffic lanes to achieve better traffic operations and mobility and improve safety at the intersection. From 2017-2021, there were more than 50 crashes at this intersection. It is anticipated that the City would apply for Traffic Safety Improvement Program (TSIP), Urban-State Traffic Engineering Program (U-STEP), and Iowa Clean Air Attainment Program (ICAAP) funding through the Iowa DOT. In addition, it is anticipated that the Iowa DOT would contribute Resurfacing, Restoration, or Rehabilitation (3R) funds to this project due to SW Oralabor Road being a State highway.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design		250,000	450,000			700,000
Engineering-Construction Services				350,000		350,000
Construction Costs				3,950,000		3,950,000
Street Lighting				50,000		50,000
Land/ROW Acquisition			50,000			50,000
Total		250,000	500,000	4,350,000		5,100,000
Funding Sources	2023	2024	2025	2026	2027	Total
Capital Project Fund		250,000	500,000	3,000,000		3,750,000
FHWA/IDOT Grants				1,000,000		1,000,000
G.O. Bonds - TIF Abated				350,000		350,000
Total		250,000	500,000	4,350,000		5,100,000

Budget Impact/Other

In the long-term, the City's maintenance costs should not increase because no additional traffic lanes on SW Irvinedale Drive are anticipated at the intersection, and the pavement and traffic signal infrastructure will be improved. The Iowa DOT maintains SW Oralabor Road (Iowa Highway 415).

Project # STR-16-003
Project Name SW Oralabor Rd and SW Irvinedale Dr Intersection



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Streets and Alleys

Project # STR-18-001

Project Name N Ankeny Blvd & 18th St Intersection Improvements

Description

The project will realign the medians on North Ankeny Boulevard/U.S. Highway 69 to improve left-turning drivers' sightlines to on-coming traffic, and replace existing landscaping in the medians with turfgrass and low maintenance plantings. The pedestrian ramps will be reconstructed to Americans with Disabilities Act (ADA) standards and accessible pushbuttons (APS) will be installed, and new landscaping areas will be added in each corner. Due to planned City and Iowa DOT reconstruction and improvement projects in 2023 and beyond, the work at the project intersection is proposed to be completed in 2023.

Justification

An action item for the Public Works Department from the 2016 Strategic Planning process was to develop concepts for improving the landscaping in the City's rights-of-way and medians. The existing landscaping in the medians is in poor condition, visually unappealing, and difficult to maintain. The proposed landscaping improvements concept and associated costs were presented to the City Council at a work session on October 16, 2017. The proposed concept has also been reviewed with the Iowa DOT, and they were accepting of the landscape improvements. Median modifications to address safety concerns have been coordinated with Iowa DOT.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design	40,000					40,000
Construction Costs	400,000					400,000
Total	440,000					440,000

Funding Sources	2023	2024	2025	2026	2027	Total
FHWA/IDOT Grants	200,000					200,000
G.O. Bonds	240,000					240,000
Total	440,000					440,000

Budget Impact/Other

The existing landscaping in the medians is difficult to maintain, and the proposed landscaping is low maintenance. Therefore, the additional maintenance cost for the Public Works Operations Division is considered negligible. The proposed landscaping will result in additional maintenance costs due to mowing the new turfgrass areas and normal maintenance of the new irrigation system. Irrigating the landscaped medians and intersection corners will result in additional water usage by the City during the spring and summer months. There is no operating impact associated with new pushbuttons or modifying the existing medians for improved driver sightlines to on-coming traffic.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs				250	750	1,000
Utilities					1,000	1,000
Total				250	1,750	2,000

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project #	STR-18-003
Project Name	NW 36th St Reconstruction-Irvinedale to Abilene

Description

This project is the reconstruction of NW 36th Street from NW Irvinedale Drive to NW Abilene Road. The project includes construction of a new two-lane concrete urban street that will serve as the eastbound lanes when the four-lane divided street is constructed in the future. Storm sewer improvements to accommodate the future four-lane divided street are also included. Sanitary sewer and water main are assumed to be constructed with development along the corridor in advance of the roadway reconstruction. This project includes the reconstruction and traffic signalization of the NW 36th Street and NW Irvinedale Drive intersection and adding left and right turn lanes at all four legs of the intersection. The project also includes adding left turn lanes, a westbound right turn lane, and traffic signalization at the NW 36th Street and NW Abilene Road intersection. The existing 5' wide sidewalk along the majority of the south side of NW 36th Street from NW Irvinedale Drive to NW Abilene Road will be replaced with an 8' wide sidewalk.

Justification

It is anticipated that traffic volumes will necessitate reconstructing NW 36th Street from NW Irvinedale Drive to NW Abilene Road within the next five years. This segment of NW 36th Street received an asphalt overlay in 2015; however, traffic is expected to continue increasing due to Rock Creek Elementary and adjacent development to the west and east of NW Irvinedale Drive. Survey and preliminary design are planned for 2024; final design, right-of-way acquisition, and utility relocations are planned for 2025; construction is planned for 2026; and landscaping improvements are planned for 2027.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design		250,000	700,000			950,000
Engineering-Construction Services				550,000	25,000	575,000
Construction Costs				7,000,000	100,000	7,100,000
Street Lighting				200,000		200,000
Land/ROW Acquisition			100,000			100,000
Total		250,000	800,000	7,750,000	125,000	8,925,000

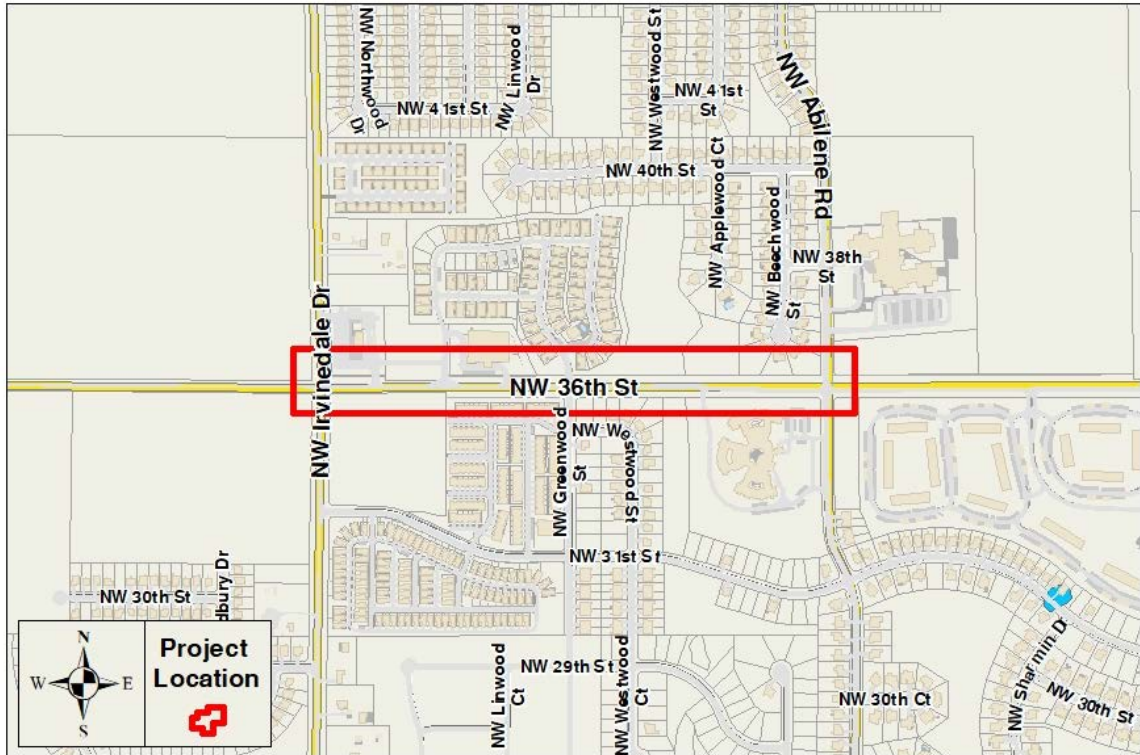
Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds		250,000	800,000	7,000,000	125,000	8,175,000
Special Assessments				750,000		750,000
Total		250,000	800,000	7,750,000	125,000	8,925,000

Budget Impact/Other

The additional public street pavement and 8 ft. sidewalk will increase maintenance costs for the City due to the additional winter maintenance and street sweeping that will be required. In the long-term, replacing the existing asphalt roadway with a concrete street will reduce annual maintenance costs for the City because the Public Works Department will not have to do pavement preservation on the existing asphalt. The additional storm sewer infrastructure will add annual maintenance costs for the City's Public Works and Municipal Utilities departments, and the new traffic signal and street lights will result in additional electric power costs to the City.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs					1,500	1,500
Utilities					4,000	4,000
Total					5,500	5,500

Project # STR-18-003
Project Name NW 36th St Reconstruction-Irvinedale to Abilene



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 40 years

Category Streets and Alleys

Project #	STR-18-004
Project Name	NW 18th Street Extension-Spruce to Highway 415

Description

Extension of NW 18th Street from NW Spruce Drive west approximately 2,700 LF to Iowa Highway 415. It is proposed to be a 41-ft. wide concrete street with a two-way left turn lane and curb and gutter. The project will also include 8-ft. wide sidewalk on the south side, sanitary sewer, storm sewer, water main, street lighting, fiber optic and conduit, street trees, and signing. In addition, the proposed project includes traffic signals at the intersection of NW 18th Street and Iowa Highway 415, and northbound and southbound turn lanes from Iowa Highway 415 onto NW 18th Street. Approximately \$1,900,000 of the estimated \$7,000,000 total construction cost is associated with the construction work on Iowa Highway 415. It is anticipated that the engineering and construction work on Iowa Highway 415 would be cost-shared with Polk County and the Iowa DOT. The proposed project schedule assumes concept study and survey in 2027, design and right-of-way acquisition in 2028, and construction in 2029.

Justification

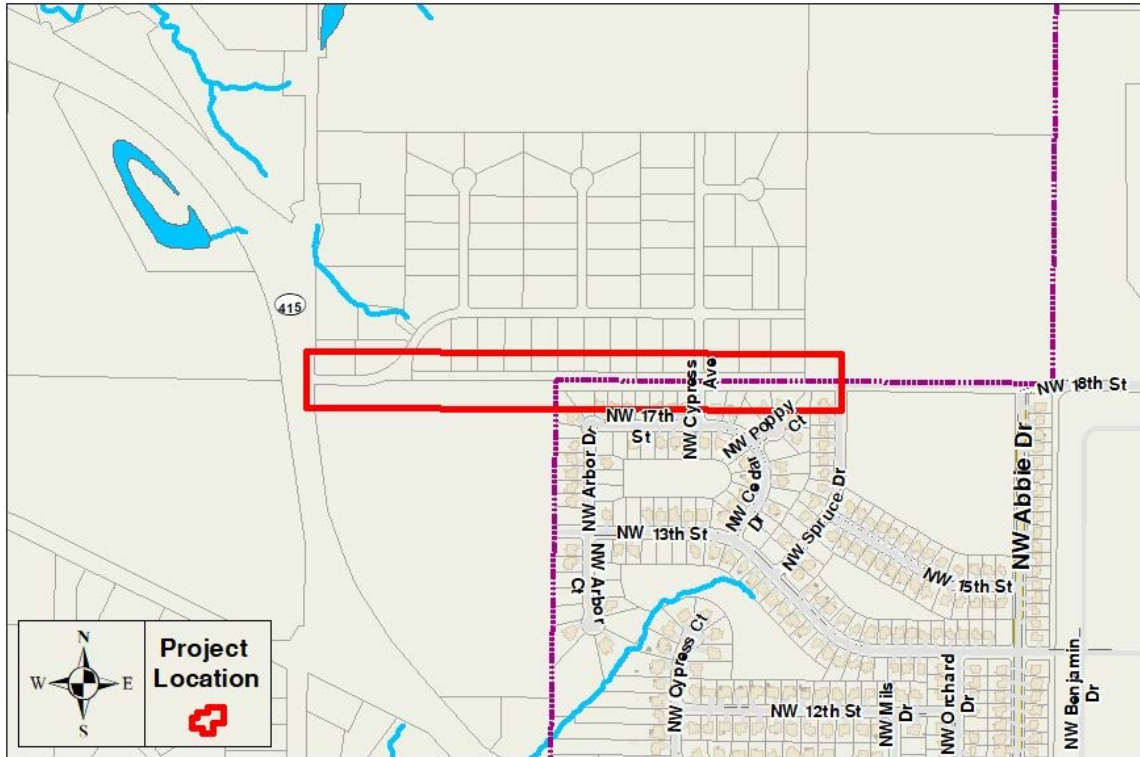
This street extension will improve traffic mobility and support the current and anticipated future development in the northwest quadrant of Ankeny. The west portion of this project, where it ties into Iowa Highway 415, is currently outside the existing City limits.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design					50,000	50,000
Total					50,000	50,000
Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds					50,000	50,000
Total					50,000	50,000

Budget Impact/Other

The added public street pavement and 8-ft. sidewalk will increase maintenance costs for the City due to the additional winter maintenance and street sweeping that will be required. In the long-term, the additional sanitary sewer, storm sewer and water main infrastructure will add annual maintenance costs for the City's Public Works and Municipal Utilities departments. The new street lights will result in additional electric power costs for the City.

Project # STR-18-004
Project Name NW 18th Street Extension-Spruce to Highway 415



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Streets and Alleys

Project #	STR-19-004
Project Name	NW 36th St Asphalt Overlay-Weigel to Irvinedale

Description

This project involves Hot Mix Asphalt (HMA) resurfacing on NW 36th Street from NW Weigel Drive to NW Irvinedale Drive. NW 36th Street is an existing gravel roadway, and the proposed surface would be 24-ft. wide and 8” thick HMA with 1.5-ft. wide granular shoulders. This project also includes extending an existing reinforced concrete box culvert and consultant engineering design and construction services.

Justification

This project will improve the driving surface of the existing gravel roadway, reduce the amount of dust coming from the roadway, reduce the maintenance associated with gravel roads, and help support the existing and future development occurring in this area.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design	115,000					115,000
Engineering-Construction Services		80,000				80,000
Construction Costs		950,000				950,000
Total	115,000	1,030,000				1,145,000

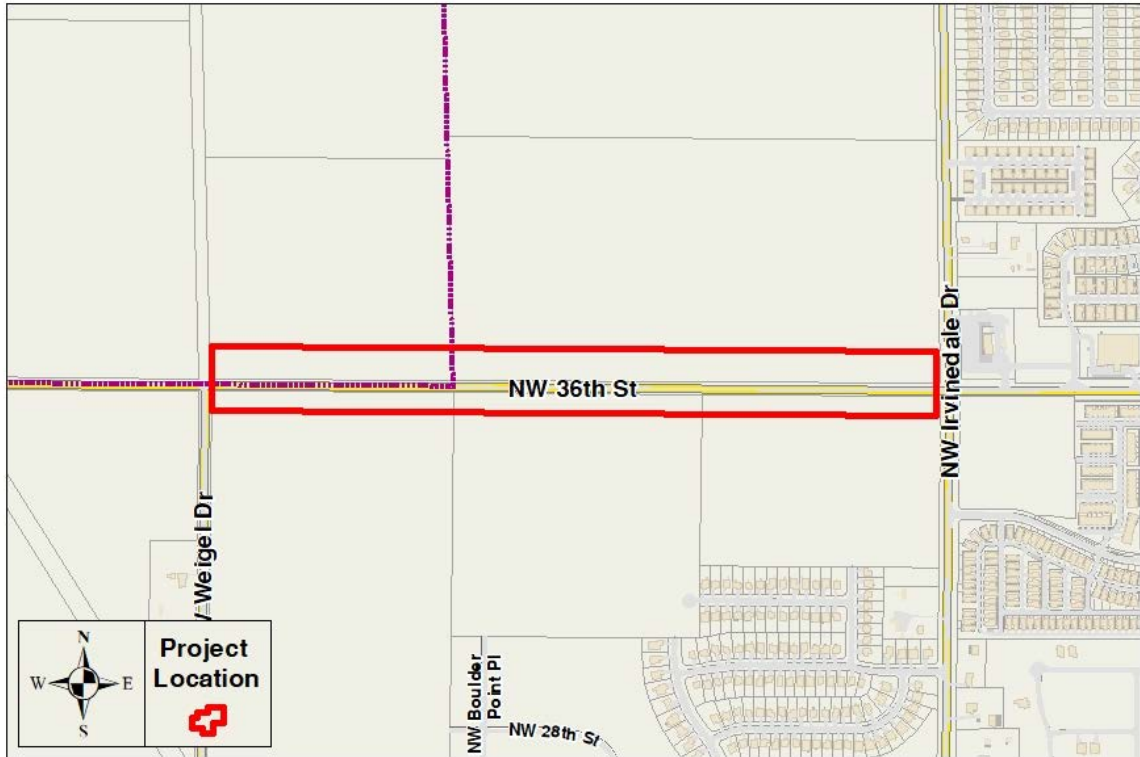
Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds	115,000	1,030,000				1,145,000
Total	115,000	1,030,000				1,145,000

Budget Impact/Other

This project will reduce annual maintenance costs for the City because the Public Works Department will not have to regularly maintain the existing gravel roadway.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs			-12,500	-12,500	-12,500	-37,500
Total			-12,500	-12,500	-12,500	-37,500

Project # STR-19-004
Project Name NW 36th St Asphalt Overlay-Weigel to Irvinedale



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project #	STR-19-006
Project Name	SW Oralabor Rd and SW Edgewood Ln Intersection

Description

Add 150' long eastbound and westbound left turn lanes on SW Oralabor Road at the SW Edgewood Lane/SW Stonehaven Lane intersection. Since SW Oralabor Road is also Iowa Highway 415, the project would be coordinated with the Iowa DOT. It is anticipated that Public Works Engineering Division staff would survey, design and inspect this project in-house.

Justification

The SW Oralabor Road (Iowa Highway 415) and SW Edgewood Lane/SW Stonehaven Lane intersection is the only intersection along SW Oralabor Road that does not have dedicated left turn lanes for westbound and eastbound traffic. Traffic volumes will likely continue to increase on SW Oralabor Road, and the speed limit in this section is 50 MPH. Therefore, adding left turn lanes at this intersection should improve traffic safety and mobility. The Iowa DOT supports the proposed project and has indicated to the City of Ankeny that the project would be eligible for U-STEP funding.

Expenditures	2023	2024	2025	2026	2027	Total
Construction Costs	200,000					200,000
Total	200,000					200,000

Funding Sources	2023	2024	2025	2026	2027	Total
County Contributions	50,000					50,000
FHWA/IDOT Grants	100,000					100,000
G.O. Bonds	50,000					50,000
Total	200,000					200,000

Budget Impact/Other

The Iowa DOT maintains SW Oralabor Road (Iowa Highway 415), so this project would not have an operating impact on the City.

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-20-004

Project Name NW 18th Street Reconstruction-Ash to Ankeny Blvd

Description

This project includes reconstructing and widening NW 18th Street from approximately 300 feet west of NW Ash Drive to approximately 250 feet west of North Ankeny Boulevard. The existing two-lane street will be improved to a three-lane street with left turn lanes, right turn lanes where needed at intersections, and a raised median between NW Briargate Drive and North Ankeny Boulevard. The project also includes construction of storm sewer, fiber optic cable in conduit, sidewalks, utility adjustments, replacing the traffic signal at the NW Ash Drive intersection and adding a traffic signal at the NW Briargate Drive intersection. This project also includes consultant construction engineering services.

Justification

This segment of NW 18th Street is experiencing significant deterioration of the existing joints and pavement structure. It requires regular maintenance (primarily cold patching) by the Public Works Operations Division to maintain a drivable street surface. The project's construction costs assume full depth removal and replacement of the existing pavement structure.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Construction Services	400,000					400,000
Construction Costs	4,950,000					4,950,000
Street Lighting	50,000					50,000
Total	5,400,000					5,400,000

Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds	5,400,000					5,400,000
Total	5,400,000					5,400,000

Budget Impact/Other

This project will reduce the annual maintenance costs for the City because the Public Works Department will not have to do less effective preventative maintenance (e.g. cold patching) on the existing pavement. The new traffic signal will result in additional electric power costs for the City

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs		-7,500	-7,500	-7,500	-7,500	-30,000
Utilities		1,500	1,500	1,500	1,500	6,000
Total		-6,000	-6,000	-6,000	-6,000	-24,000

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-20-005
Project Name NW 36th Street Widening-Ash to Ankeny Blvd

Description

This project will install landscaping at the North Ankeny Boulevard and NW 36th Street intersection and plant trees along the north side of NW 36th Street, between NW Ash Drive and North Ankeny Boulevard. The landscaping project will follow the widening of NW 36th Street, between NW Ash Drive and North Ankeny Boulevard, to four lanes which is expected to be substantially completed in 2022. It is anticipated that the landscaping project would be completed in either the spring or fall of 2023.

Justification

This project will complete the NW 36th Street Widening - NW Ash Drive to North Ankeny Boulevard project. The landscaping improvements are designed and constructed as a separate project from the street widening project in order to help ensure that a quality contractor will perform the landscaping work.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Construction Services	25,000					25,000
Construction Costs	100,000					100,000
Total	125,000					125,000

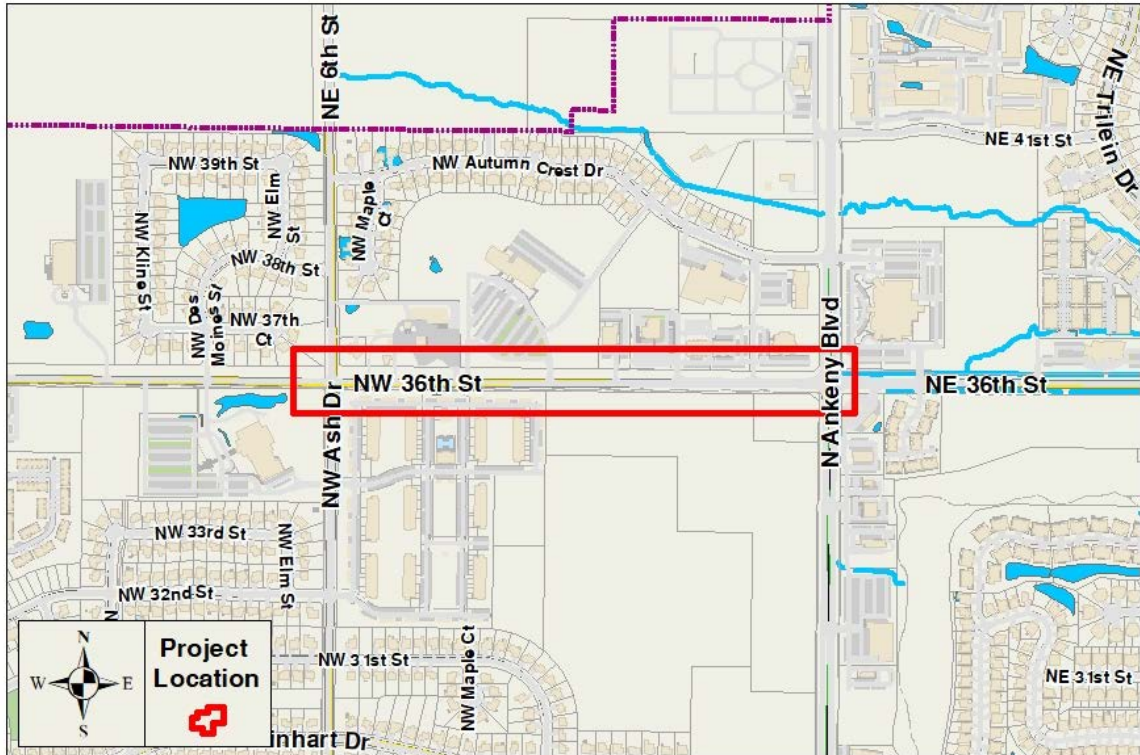
Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds	125,000					125,000
Total	125,000					125,000

Budget Impact/Other

The additional landscaping at the intersection and street trees on the north side of NW 36th Street will require some additional maintenance by the Public Works Department.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs		250	250	250	250	1,000
Total		250	250	250	250	1,000

Project # STR-20-005
Project Name NW 36th Street Widening-Ash to Ankeny Blvd



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Streets and Alleys

Project # STR-20-008
Project Name SW Oralabor Rd and SW State St Intersection

Description

The proposed project will widen all legs of the intersection to provide right-turn lanes and dual left-turn lanes on all approaches. The project also includes traffic signal and pedestrian ramp upgrades.

Justification

The SW Oralabor Road and SW State Street intersection was listed in the 2019 Iowa Department of Transportation's (DOT) Top 20 Safety Improvement Location Candidates at #6. The City's safety study found that traffic demand on the intersection exceeds its capacity during peak periods and identified a pattern of correctable congestion-related crashes. The project will address the safety issues by providing additional capacity. The Oralabor Gateway Trail is a regional trail connection between the Neal Smith system (to the west) and the Gay Lea Wilson Trail and High Trestle Trail systems (to the east). The trail is a 10' wide PCC trail that runs along the south side of SW/SE Oralabor Road across the south side of Ankeny. The trail is very popular with recreational users and commuters. The current at-grade crossing at SW State Street is very wide due to the rural roadway and granular shoulders on SW State Street. The street approach and the intersection as a whole carries an extremely large traffic volume. This includes a high number of right-turning vehicles. This results in an at-grade trail crossing that is difficult to maneuver and has a higher probability of accidents between vehicles and pedestrians. A grade-separated crossing at this location would eliminate this situation. SW State Street and SW Oralabor Road (Iowa Highways 415 and 160) are joint jurisdictional streets with the Iowa DOT, so the project will involve a DOT bid letting and continued coordination during the construction phase. The construction cost estimate includes \$370,000 for water main relocation. It also includes \$250,000 for a separate fiber optic relocation project which will occur prior to the beginning of this project.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Construction Services	280,000	120,000				400,000
Construction Costs	3,369,000	1,456,000				4,825,000
Street Lighting	30,000					30,000
Total	3,679,000	1,576,000				5,255,000

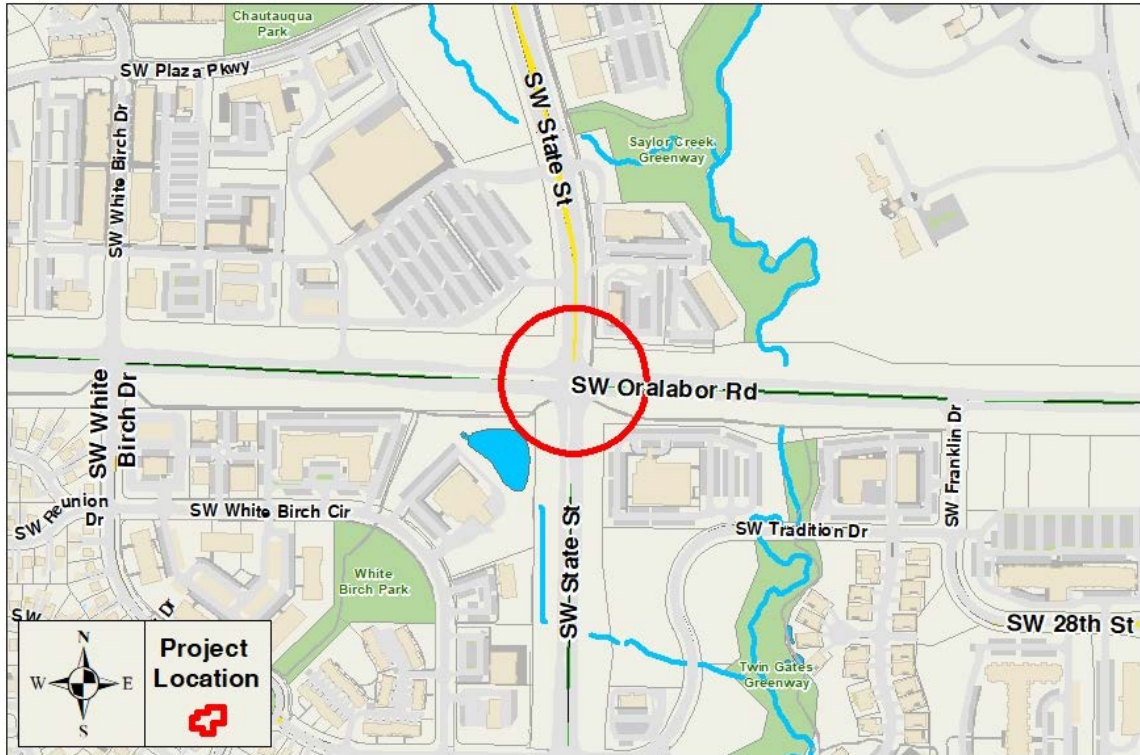
Funding Sources	2023	2024	2025	2026	2027	Total
Capital Project Fund	1,751,087	749,752				2,500,839
FHWA/IDOT Grants	822,500	352,500				1,175,000
MPO/STBG Grants	1,105,413	473,748				1,579,161
Total	3,679,000	1,576,000				5,255,000

Budget Impact/Other

The additional public street pavement on SW State Street, at the intersection's north approach, will increase maintenance costs for the City due to the additional winter maintenance and street sweeping that will be required. The Iowa DOT maintains Iowa Highways 415 and 160, so they would be responsible for maintaining the additional public street pavement at the intersection's south, west and east approaches. The traffic signal improvements will replace existing City-owned infrastructure, so impacts to utility and maintenance costs will be negligible, or may be reduced with use of low-voltage equipment. After completion, the new grade-separated structure should require only a minor amount of maintenance each year. The Parks & Recreation Department would be required to maintain the tunnel during the winter months when plowing snow for the Oralabor Gateway Trail.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs		400	400	400	400	1,600
Total		400	400	400	400	1,600

Project # STR-20-008
Project Name SW Oralabor Rd and SW State St Intersection



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project #	STR-21-001
Project Name	SW State St Reconstruction-Ordinance to 1st St

Description

This project includes the reconstruction of the PCC pavement in the southbound lanes of SW State Street from just north of SW Ordinance Road to approximately 100 feet south of West 1st Street. This project includes removal and replacement of the existing pavement structure along with subgrade, subdrain, and subbase improvements. The project also includes consultant design engineering and construction engineering services.

Justification

This segment of SW State Street is experiencing deterioration of the existing joints and pavement structure. It requires regular maintenance (primarily cold patching) by the Public Works Operations Division. The project's construction costs assume full depth removal and replacement of the existing pavement structure.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Construction Services	125,000					125,000
Construction Costs	1,700,000					1,700,000
Total	1,825,000					1,825,000
Funding Sources	2023	2024	2025	2026	2027	Total
Capital Project Fund	1,825,000					1,825,000
Total	1,825,000					1,825,000

Budget Impact/Other

This project will reduce the annual maintenance costs for the City because the Public Works Department will not have to do less effective preventative maintenance (e.g. cold patching) on the existing pavement.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs		-5,500	-5,500	-5,500	-5,500	-22,000
Total		-5,500	-5,500	-5,500	-5,500	-22,000

Project #	STR-21-001
Project Name	SW State St Reconstruction-Ordnance to 1st St



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project #	STR-21-004
Project Name	NW Irvinedale Dr and NW 18th St Intersection

Description

Reconstruction of the NW Irvinedale Drive and NW 18th Street intersection to improve traffic capacity, mobility, and safety. It is anticipated that dedicated left and right turn lanes will be provided at all four legs of the intersection. Traffic signal improvements will also be needed to accommodate the new turn lanes. The reconstruction will provide an urban cross section on all legs of the intersection. Storm sewer infrastructure and subdrain are also included with the proposed improvements.

Justification

NW Irvinedale Drive and NW 18th Street are arterial streets that serve a large portion of the traffic in the northwest part of the City. The intersection's current geometry creates bottlenecks due to the lack of left and right turn lanes. Additionally, there are locations along NW Irvinedale Drive with steep side slopes that are considered potential safety issues should a driver errantly leave the road. This project will improve traffic capacity, mobility and safety.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design	100,000	350,000				450,000
Engineering-Construction Services			300,000			300,000
Construction Costs			3,325,000			3,325,000
Street Lighting			100,000			100,000
Land/ROW Acquisition			25,000			25,000
Total	100,000	350,000	3,750,000			4,200,000

Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds	100,000	350,000	3,750,000			4,200,000
Total	100,000	350,000	3,750,000			4,200,000

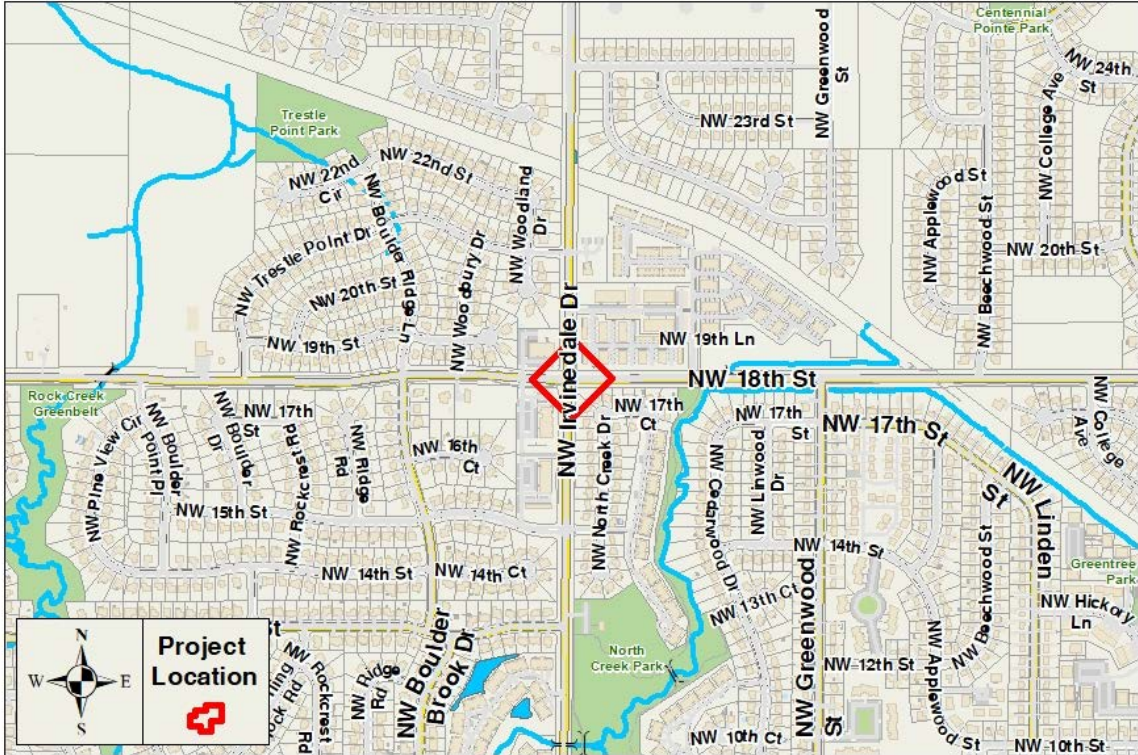
Budget Impact/Other

The additional public street pavement will increase maintenance costs for the City due to the additional winter maintenance and street sweeping that will be required. In the long-term, the additional pavement and storm sewer infrastructure will add annual maintenance costs for the City's Public Works Department.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs				500	500	1,000
Total				500	500	1,000

Project # STR-21-004

Project Name NW Irvinedale Dr and NW 18th St Intersection



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project #	STR-21-005
Project Name	South Ankeny Blvd and SE Oralabor Rd Safety Impr

Description

The proposed project concept will widen all legs of the intersection to provide right-turn lanes and dual left-turn lanes on all approaches. The project includes traffic signal and pedestrian ramp upgrades, and construction of a grade-separated crossing at the south leg of the intersection for the Oralabor Gateway Trail.

Justification

The South Ankeny Boulevard and SE Oralabor Road intersection was listed in the Iowa Department of Transportation’s (DOT) Top 200 Safety Improvement Location Candidates in recent consecutive years. The City’s safety study in 2020 found that the traffic demand on the intersection exceeds its capacity during peak periods and identified a pattern of correctable congestion-related crashes. The project will address the safety issues by providing additional capacity. These roads are joint jurisdictional with the Iowa DOT as U.S. Highway 69 and Iowa Highway 160, and Iowa DOT concurs with the study findings. Additional study proposed in 2024 will evaluate non-traditional intersection configurations. Funding applications to the Iowa Clean Air Attainment Program (ICAAP), Traffic Safety Improvement Program (TSIP), and Urban-State Traffic Engineering Program (U-STEP) are anticipated. The Oralabor Gateway Trail is a regional trail connection between the Neal Smith Trail system (to the west) and the Gay Lea Wilson Trail system (to the east). The trail is a 10’ wide PCC trail that runs along the south side of Oralabor Road. The intersection carries high traffic volumes at high speeds, and the current at-grade trail crossing is wide, difficult to maneuver and has a higher probability of conflicts between vehicles and pedestrians. The grade-separated crossing has received \$440,000 of STBG-TAP funding from the Des Moines Area MPO, and additional funding will be requested.

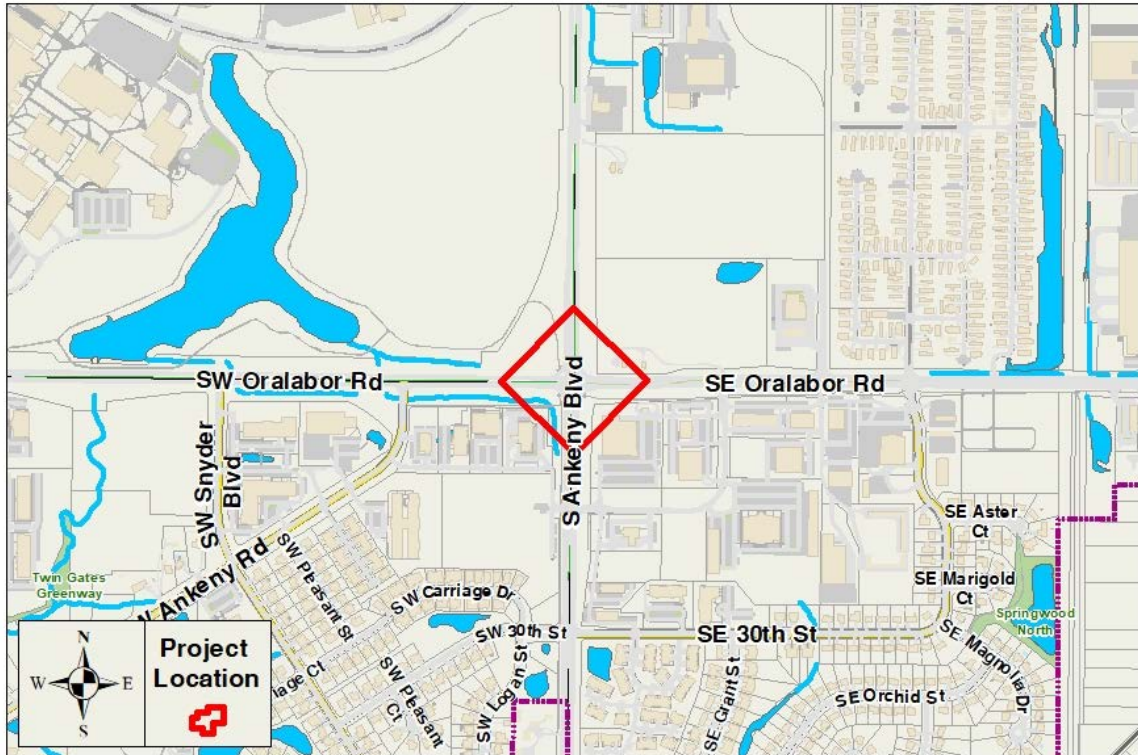
Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design		50,000	250,000		150,000	450,000
Planning Study		50,000				50,000
Total		100,000	250,000		150,000	500,000
Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds		100,000	250,000		150,000	500,000
Total		100,000	250,000		150,000	500,000

Budget Impact/Other

Iowa DOT maintains U.S. Highway 69 and Iowa Highway 160, so they would be responsible for snow removal and maintenance of the additional public street pavement at all of the intersection’s approaches. The traffic signal improvements will replace existing City-owned infrastructure, so impacts to utility and maintenance costs will be negligible, or maybe reduced with use of low-voltage equipment. The new grade-separated structure should require only a minor amount of maintenance each year. The Parks & Recreation Department would be required to maintain the structure during the winter months when plowing snow for the Oralabor Gateway Trail. If a tunnel is used, electricity and maintenance for lighting will be the City’s responsibility.

Project # STR-21-005

Project Name South Ankeny Blvd and SE Oralabor Rd Safety Impr



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Streets and Alleys

Project #	STR-21-006
Project Name	Uptown Parking Improvements

Description

Street and sidewalk construction to add diagonal parking stalls on SW Cherry Street, south of SW 3rd Street, and new diagonal stalls on SW 3rd Street, west of SW Pleasant Street. The stalls on SW Cherry Street will support redevelopment of two commercial sites on each side of SW Cherry Street. The 2023 parking project areas are identified as Areas A, B, D, and I in the Uptown Ankeny Parking Study.

Justification

Parking in certain areas of Uptown is at a premium during peak times or events. Demand for parking is being driven by an increase in hospitality businesses that draw customers from the entire City and region. Coffee, lunch, dining, and brewery crowds have led to more complaints from professional service businesses in Uptown who need parking for their customers. The Uptown Ankeny Parking Study identified several areas where additional on-street parking might be added within existing City right-of-way. The 2023 request supports the implementation of additional spaces in the areas with highest satisfiable demand. Other areas will be evaluated for improvement, with anticipated construction in Areas E, F and G in 2024.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Construction Services	160,000	90,000				250,000
Construction Costs	250,000	450,000				700,000
Total	410,000	540,000				950,000

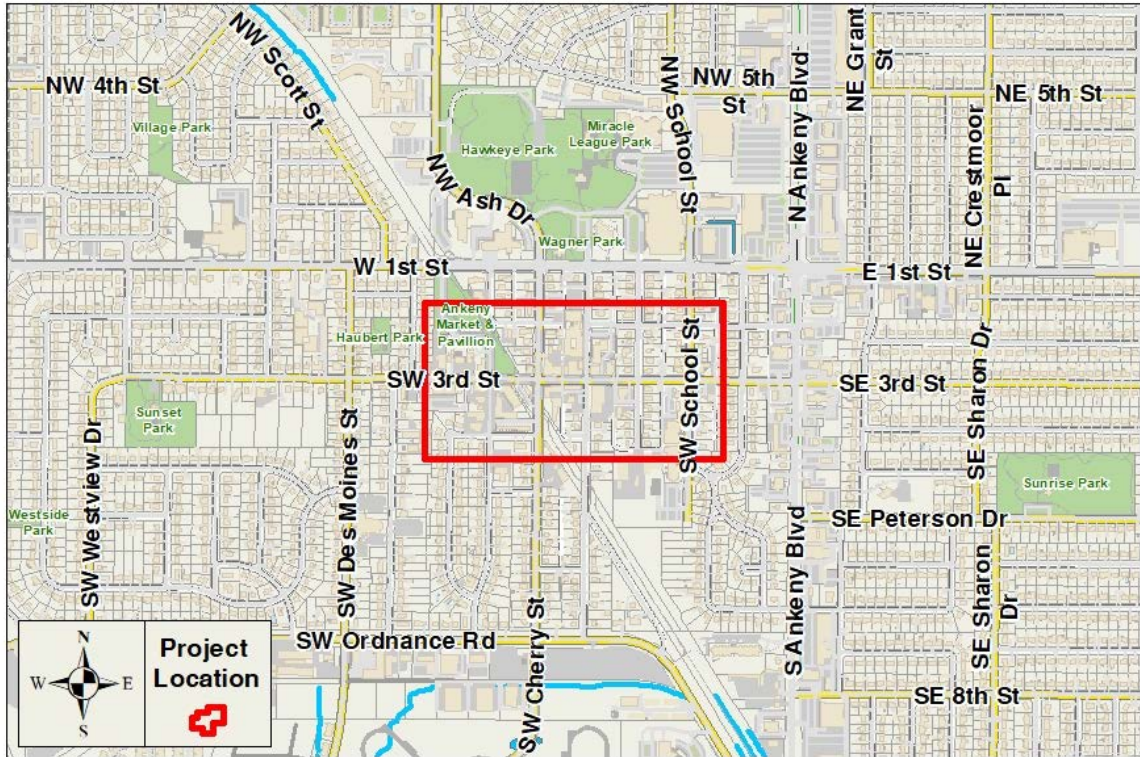
Funding Sources	2023	2024	2025	2026	2027	Total
Capital Project Fund	138,000					138,000
G.O. Bonds - TIF Abated	272,000	540,000				812,000
Total	410,000	540,000				950,000

Budget Impact/Other

Operating impact includes snow removal from additional on-street parking stalls and long-term maintenance of signs, markings and the pavement surface.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs		200	600	600	600	2,000
Total		200	600	600	600	2,000

Project #	STR-21-006
Project Name	Uptown Parking Improvements



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 20 years

Category Streets and Alleys

Project #	STR-22-002
Project Name	NW Weigel Dr Asphalt Overlay-NW 18 St to NW 36 St

Description

This project involves Hot Mix Asphalt (HMA) resurfacing on NW Weigel Drive from NW 18th Street to NW 36th Street. NW Weigel Drive is an existing gravel roadway, and the proposed surface would be 24-ft. wide and 7" thick HMA with 1.5-ft. wide HMA shoulders. This project also includes consultant engineering design, construction engineering services, and construction.

Justification

This project will improve the driving surface of the existing gravel roadway, reduce the amount of dust coming from the roadway, reduce the maintenance associated with gravel roads, and help support the existing and future development occurring in this area.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design	130,000					130,000
Engineering-Construction Services		90,000				90,000
Construction Costs		1,100,000				1,100,000
Total	130,000	1,190,000				1,320,000

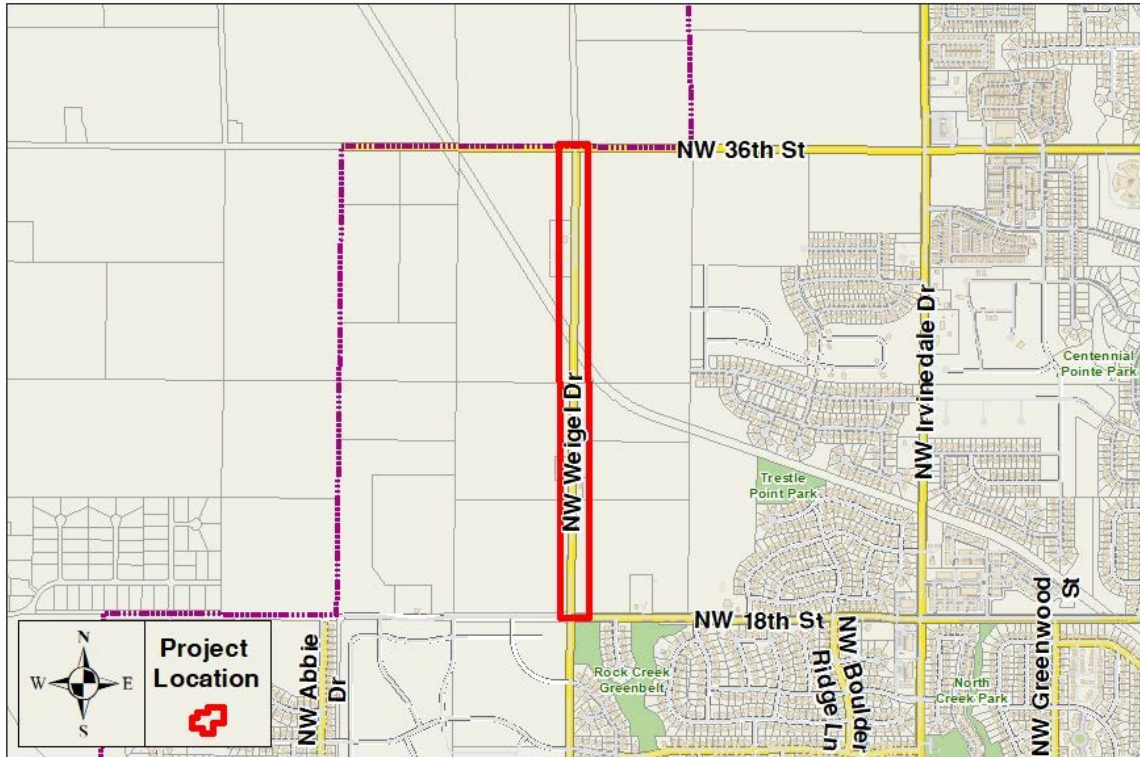
Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds	130,000	1,190,000				1,320,000
Total	130,000	1,190,000				1,320,000

Budget Impact/Other

This project will reduce annual maintenance costs for the City because the Public Works Department will not have to regularly maintain the existing gravel roadway.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs			-17,500	-17,500	-17,500	-52,500
Total			-17,500	-17,500	-17,500	-52,500

Project # STR-22-002
Project Name NW Weigel Dr Asphalt Overlay-NW 18 St to NW 36 St



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-22-003

Project Name West 1st Street Widening and Improvements-Phase 2

Description

Reconstruction of West 1st Street from just east of NW Greenwood Street to just west of NW/SW State Street. The existing four-lane street is only 41' wide and is proposed to be removed and replaced with a new five-lane street that is a minimum of 60' wide and includes a center two-way left turn lane. Additional improvements include water main and storm sewer upgrades to replace the 50-year-old underground infrastructure; the addition of a new traffic signal at the West 1st Street and NW/SW Linden Street intersection; and the addition of approximately 20 streetlights. Similar to the West 1st Street Widening and Improvements - Phase 1 project which is being completed in 2022, it is anticipated that a joint utility trench will be necessary. Along with City/School fiber and other private utilities, it is assumed the existing overhead electric on wood poles would be placed underground adjacent to the joint utility trench. The Public Works Department is proposing that this project's construction be scheduled for 2026 and 2027, with the joint utility trench construction in 2025.

Justification

The existing four-lane undivided street has operational and safety issues because the left-turning vehicles block the inside through traffic lanes. This results in traffic backups and increased accident potential along the corridor. West 1st Street carries heavy daily traffic, and the pavement requires regular concrete patching and asphalt cold patching and at 50 years old is at the end of its service life. In addition, the existing 10' wide lanes do not meet the minimum acceptable widths per SUDAS design standards. It is anticipated that the project's construction will be completed over the course of two years due to the overall duration needed to reconstruct ½-mile of urban arterial street and the time constraints necessitated by maintaining a minimum two lanes of traffic flow at all times along the major arterial corridor. The topographic survey, stormwater study, and preliminary design are scheduled to occur in 2024; and the final design, property acquisitions, and utility relocations are planned for 2025. The City has been awarded \$1,151,500 in Federal Fiscal Year 2026 STBG funding through the Des Moines Area MPO, and intends to apply for additional STBG funding in future years. In addition, it is anticipated that the project would be eligible for other external funding such as the Iowa DOT's Traffic Safety Improvement Program (TSIP).

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design		500,000	750,000			1,250,000
Engineering-Construction Services				375,000	425,000	800,000
Construction Costs			1,500,000	4,125,000	4,125,000	9,750,000
Street Lighting				100,000	100,000	200,000
Land/ROW Acquisition			100,000			100,000
Total		500,000	2,350,000	4,600,000	4,650,000	12,100,000

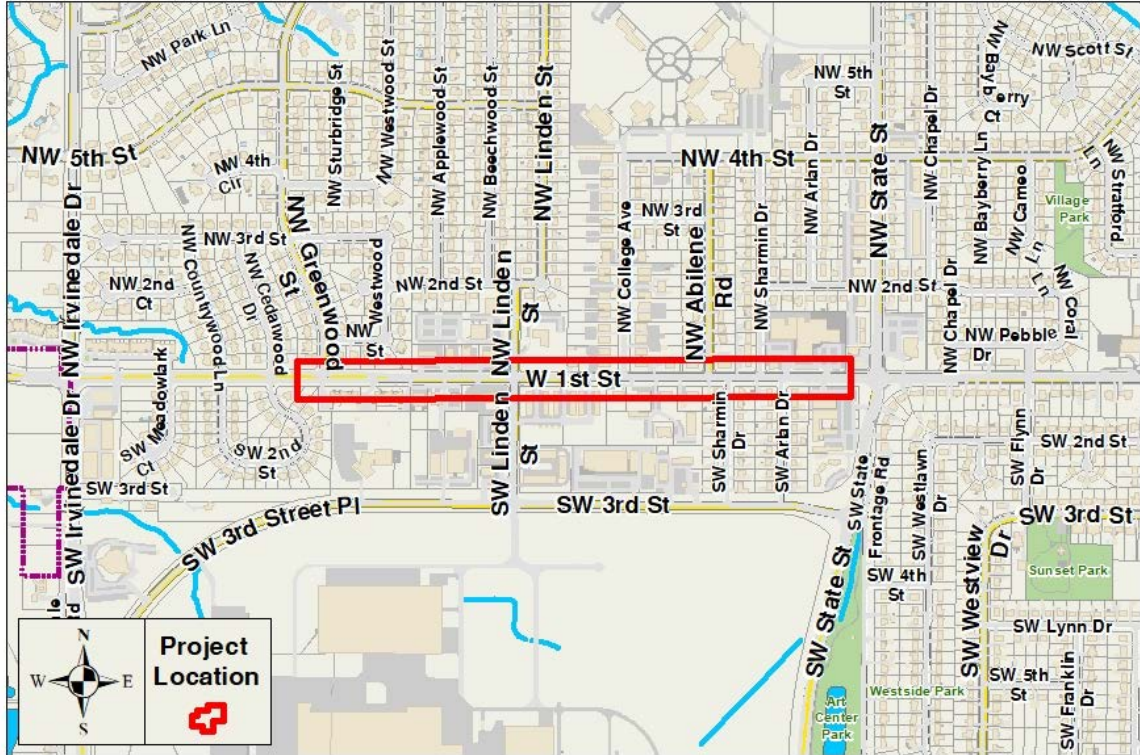
Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds - TIF Abated		500,000	2,350,000	3,448,500	4,650,000	10,948,500
MPO/STBG Grants				1,151,500		1,151,500
Total		500,000	2,350,000	4,600,000	4,650,000	12,100,000

Budget Impact/Other

The additional public street pavement will increase maintenance costs for the City due to the additional winter maintenance and street sweeping that will be required. In the mid-term and long-term, replacing the existing street will reduce annual maintenance costs for the City because the Public Works Department will not have to do less effective preventative maintenance (e.g. cold patching) on the existing pavement. In addition, replacing the deteriorating underground infrastructure will reduce annual maintenance costs for the City because the Municipal Utilities Department will not have to perform as much water maintenance and repairs (e.g. water main breaks on existing ductile iron water pipe). The new streetlights will result in additional electric power costs to the City.

Project # STR-22-003

Project Name West 1st Street Widening and Improvements-Phase 2



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project #	STR-22-004
Project Name	NW 18th St Reconstruction-NW State St to NW Ash Dr

Description

This project includes the reconstruction of the existing street pavement on NW 18th Street from approximately 450 feet west of NW State Street to approximately 350 feet west of NW Ash Drive. The project will include removing and replacing existing pavement, storm sewer intakes, and some sidewalk. New PCC pavement, modified subbase, subdrains, pavement markings, and left and right turn lanes will be constructed. The project also includes a new traffic signal at the entrance of the existing north parking lot of the Prairie Ridge Sports Complex (PRSC). The traffic study will determine the proposed cross-section and geometry for the street. The project also includes consultant survey, design, and construction services.

Justification

The purpose of the project is to replace significant deteriorated pavement along the NW 18th Street corridor, along with providing additional turning capacity to improve traffic safety and mobility at major intersections. The project will also improve mobility for ingress and egress traffic using the parking lot in the northern portion of the PRSC. The concept study completed in 2021 identified the preferred improvements as adding an eastbound right turn lane on NW 18th Street, a northbound right turn lane on the PRSC driveway, and a traffic signal. The traffic signal will operate in coordination with the existing signals on NW 18th Street at the NW State Street and NW Ash Drive intersections. The anticipated project schedule includes consultant survey and conceptual design in 2025; preliminary and final design in 2026; and construction and consultant inspection in 2027. An estimated \$100,000 is anticipated for aesthetic enhancements at the PRSC access (e.g. landscaping, monument sign) in 2028.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design			100,000	415,000		515,000
Engineering-Construction Services					350,000	350,000
Construction Costs					4,325,000	4,325,000
Street Lighting					100,000	100,000
Land/ROW Acquisition				10,000		10,000
Total			100,000	425,000	4,775,000	5,300,000
Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds			100,000	425,000	4,775,000	5,300,000
Total			100,000	425,000	4,775,000	5,300,000

Budget Impact/Other

The project will reduce the annual maintenance costs for the City as the Public Works Department will not have to do frequent preventative maintenance. The impact will not be realized until after construction, beginning in 2028. Widening the PRSC driveway will add pavement maintenance costs for the City's Parks & Recreation Department. Adding turn lanes on NW 18th Street will increase snow removal costs for the Public Works Department, as well as maintenance and power costs for the traffic signal.

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-23-001

Project Name N Ankeny Boulevard Improvements-1st St to 11th St

Description

This is a joint project with the Iowa Department of Transportation (DOT) to add right-turn lanes, repair failing pavement, replace aged traffic signal infrastructure, upgrade pedestrian ramps, and replace existing landscaping in the medians and at the intersections with low maintenance plantings on North Ankeny Boulevard, between 1st Street and 11th Street.

Justification

Iowa DOT had planned a PCC inlay for northbound North Ankeny Boulevard, between 1st Street and 5th Street; and a PCC inlay for southbound North Ankeny Boulevard, between 1st Street and 11th Street, in 2025. Iowa DOT agreed to expand the scope of their project to include right-turn lanes on North Ankeny Boulevard and the side streets, with the City's streetscaping and traffic signal improvements at the 5th, 9th, and 11th Street intersections and in the medians. Iowa DOT will be responsible for the costs associated with designing and constructing the PCC inlays and right-turn lanes on North Ankeny Boulevard. The City will be responsible for the costs associated with designing and constructing the right-turn lanes on the side streets and the streetscaping and traffic signal improvements at the intersections and in the medians. The landscaping improvements at the intersections and in the medians would be completed as a separate City project in 2026. Applying for Iowa Clean Air Attainment Program (ICAAP) funding for the project will be considered.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design	500,000	55,000				555,000
Engineering-Construction Services			120,000	30,000		150,000
Construction Costs			3,975,000	300,000		4,275,000
Land/ROW Acquisition		150,000				150,000
Other Costs			225,000			225,000
Total	500,000	205,000	4,320,000	330,000		5,355,000

Funding Sources	2023	2024	2025	2026	2027	Total
FHWA/IDOT Grants	250,000	20,000	2,450,000			2,720,000
G.O. Bonds	250,000	185,000	1,870,000	330,000		2,635,000
Total	500,000	205,000	4,320,000	330,000		5,355,000

Budget Impact/Other

Iowa DOT is responsible for maintenance and snow removal on U.S. Highway 69, so additional pavement maintenance and snow removal costs for the City will be limited to the new right-turn lanes on the side streets. Replacing the traffic signal equipment with more energy-efficient equipment may reduce maintenance and electric utility costs in the long term. The existing landscaping in the medians is difficult to maintain, and the proposed landscaping is low maintenance. Therefore, the additional landscape maintenance cost for the Public Works Operations Division is considered negligible. The new irrigation system will require normal maintenance, and irrigating the landscaped medians and intersection corners will result in additional water usage by the City during the spring and summer months.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs				250	750	1,000
Utilities					1,000	1,000
Total				250	1,750	2,000

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # STR-23-001

Project Name N Ankeny Boulevard Improvements-1st St to 11th St



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project #	STR-23-002
Project Name	NE Delaware Reconstruction-Four Mile to NE 36th

Description

Reconstruction of NE Delaware Avenue from a two-lane rural roadway to an urban section (three-lane, four-lane divided, or five-lane) with left and right turn lanes, depending upon the results of a consultant-prepared traffic study in conjunction with the conceptual design of the project.

The project may also include either a new Rectangular Rapid Flashing Beacon (RRFB) or a High Intensity Activated Crosswalk (HAWK) signal at the NE Delaware Avenue and NE 28th Street intersection. It is currently assumed that the existing traffic signal at the NE Delaware Avenue and NE 36th Street intersection would not be modified or replaced, and that no other signals would be necessary along the corridor as a part of the planned improvements. Other construction improvements are expected to include storm sewer and subdrain. It is anticipated that sanitary sewer and water main improvements would be minimal.

Justification

The previous traffic study completed by Snyder & Associates, Inc. in 2013 did not show a need to widen this street based on then-current traffic volumes. However, having this street widened will allow for improved traffic safety and mobility as the City continues to grow both to the north of NE 36th Street and also to the east of I-35. The project’s construction would be completed over the course of either one or two years, depending upon the scope of improvements needed. The project is planned for the traffic study, conceptual design, and survey to occur in 2027; preliminary design, final design, and utility relocations in 2028; construction in 2029 possibly 2030; and the landscaping improvements in either 2030 or 2031. Property acquisitions are assumed to be limited to temporary construction easements only. The City will likely apply for Federal-aid STBG funding through the Des Moines Area MPO to assist with funding the construction of the project.

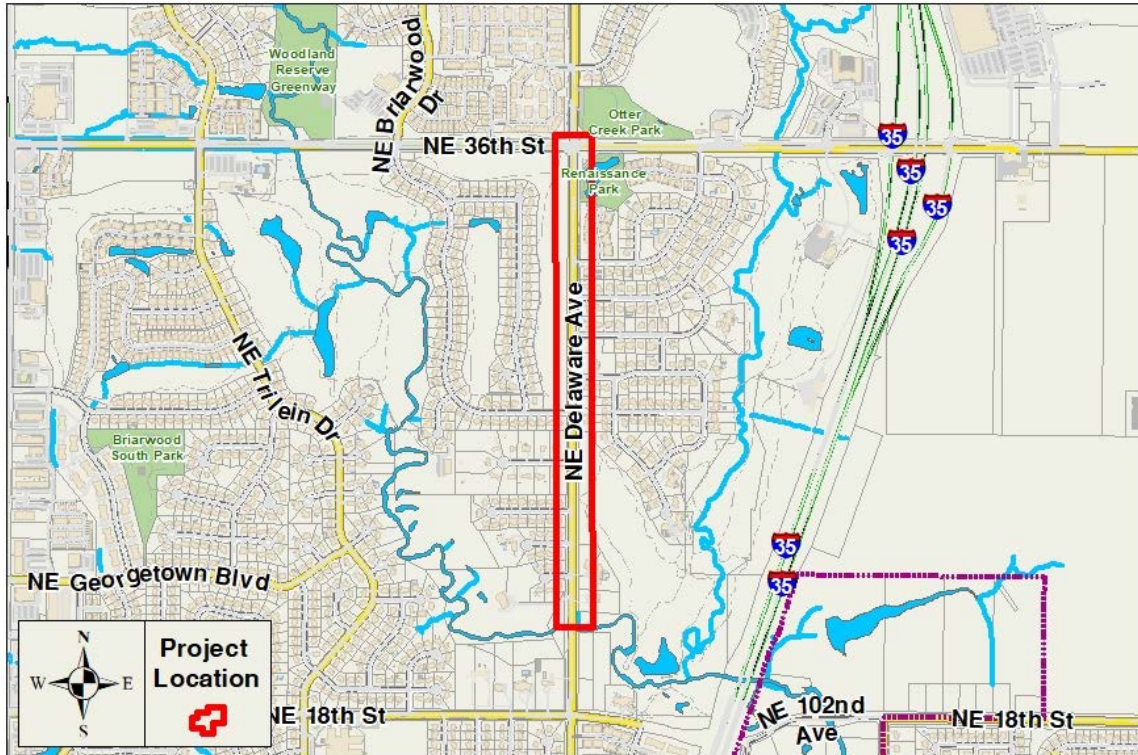
Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design					250,000	250,000
Total					250,000	250,000
Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds					250,000	250,000
Total					250,000	250,000

Budget Impact/Other

The additional public street pavement will increase maintenance costs for the City due to the additional winter maintenance and street sweeping that will be required. In the long-term, replacing the existing pavement will reduce annual maintenance costs for the City because the Public Works Department will not have to do patching and crack and joint sealing. The new pedestrian signal and public utility infrastructure will add annual maintenance costs for the City’s Public Works and Municipal Utilities departments. The new pedestrian signal and streetlights will also result in additional electric power costs for the City.

Project # STR-23-002

Project Name NE Delaware Reconstruction-Four Mile to NE 36th



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Streets and Alleys

Project # STR-23-003

Project Name NW State Street Corridor Improvements Study

Description

NW State Street from West 1st Street to NW 18th Street is currently an undivided four-lane major arterial street with dedicated left turn lanes only at the West 1st Street and NW 18th Street intersections. There are existing traffic signals at the West 1st Street, NW Prairie Ridge Drive, and NW 18th Street intersections. City of Ankeny traffic count data from 2021 shows this corridor has almost 12,000 vehicles per day traveling upon it.

From north of West 1st Street to the High Trestle Trail (HTT) crossing (south half of the corridor), the travel lanes are 11' wide with no curb and gutter section, and the existing right-of-way is only 80' wide. The pavement is approaching the end of its useful life, having been constructed in the early 1970's, and is showing signs of significant deterioration. As a part of the Study, it is anticipated that the south half of the corridor would have its right-of-way widened, and the existing four-lane street would be reconstructed to a five-lane street. The addition and/or lengthening of left turn lanes on the side streets along with potentially adding a traffic signal at the NW 9th Street intersection would also be analyzed.

From the HTT crossing to NW 18th Street (north half of the corridor), the travel lanes are 12' wide with no curb and gutter section, and the existing right-of-way is 120' wide. The pavement was constructed in the late 1990's, and it is showing signs of significant deterioration at the transverse joints. As a part of the Study, it is anticipated that the north half of the corridor would receive full depth patching at the transverse joints, and the existing four-lane street would be widened to a five-lane street. The addition and/or lengthening of left turn lanes on the side streets along with upgrading the traffic signal at the NW Prairie Ridge Drive intersection would also be analyzed.

Justification

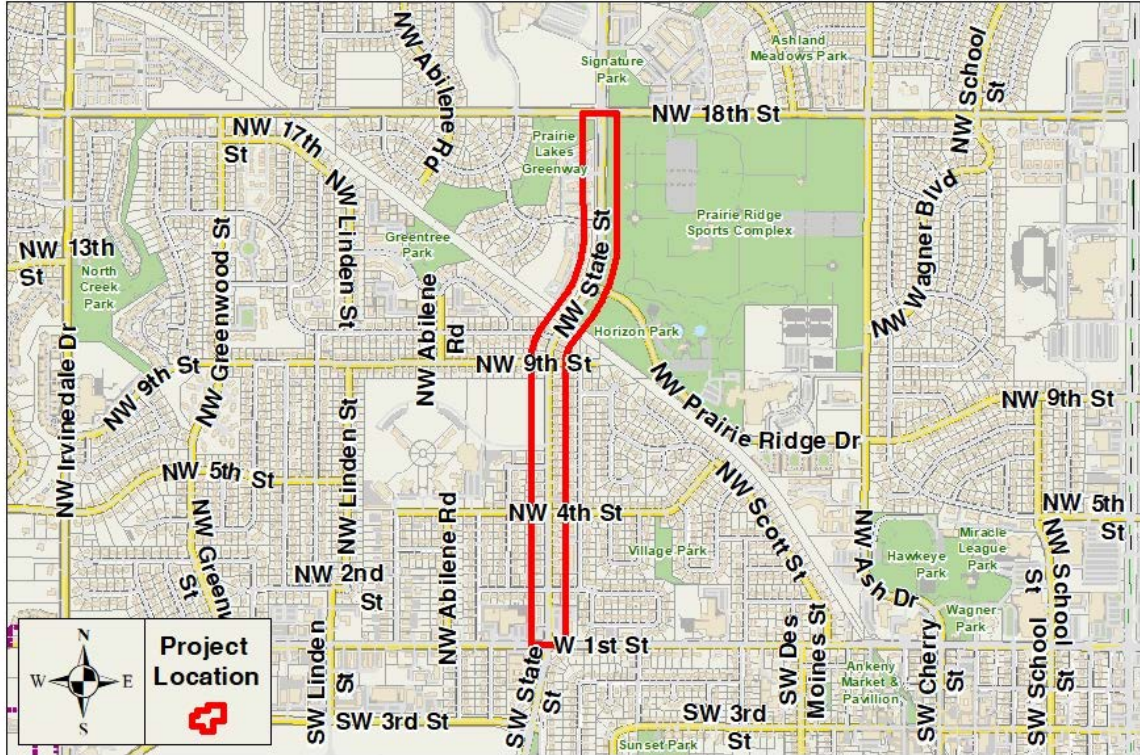
This Study would analyze traffic patterns, volumes and crash history to determine if additional turn lanes are needed on NW State Street and/or at the side street intersections; if widening NW State Street from four lanes to five lanes is necessary; and if any intersections warrant the addition of traffic signals. The Study would also recommend any pavement rehabilitation methods that could be used to repair the existing deteriorating concrete pavement or if full reconstruction is needed on either the south or north half of the corridor, along with determining what storm sewer improvements are needed. Pending the results of the Study, it is anticipated that there would be two separate, future improvement projects: (1) NW State Street from West 1st Street to the HTT crossing; and (2) NW State Street from the HTT crossing to NW 18th Street. Based on the recommendations of the Study, a possible project development schedule for the north half of the corridor would be: 2024 survey; 2025 consultant design, right-of-way acquisition, and utility relocations; and 2026 construction and consultant inspection. The schedule for the south half of the corridor would be dependent upon the Municipal Utilities Department's need to upgrade the existing 6" water main along the west side of NW State Street from West 1st Street to NW 10th Street to a 12" water main, with construction currently programmed for 2027.

Expenditures	2023	2024	2025	2026	2027	Total
Planning Study		100,000				100,000
Total		100,000				100,000
Funding Sources	2023	2024	2025	2026	2027	Total
Road Use Tax Fund		100,000				100,000
Total		100,000				100,000

Budget Impact/Other

This project is only a study; therefore, there are no operating impacts.

Project # STR-23-003
Project Name NW State Street Corridor Improvements Study



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Streets and Alleys

Project #	STR-23-004
Project Name	NW State Street Extension Preliminary Design

Description

This project includes the survey, traffic study, and preliminary design of the NW State Street extension from NW 36th Street to NW Irvinedale Drive at the NW 54th Street/County NW 126th Avenue intersection. The preliminary design will be based on a 4-lane divided roadway with left and right turn lanes, where necessary as determined by the traffic study. Preliminary design will also include storm sewer, water main, sanitary sewer, traffic signal, and pedestrian facilities.

Justification

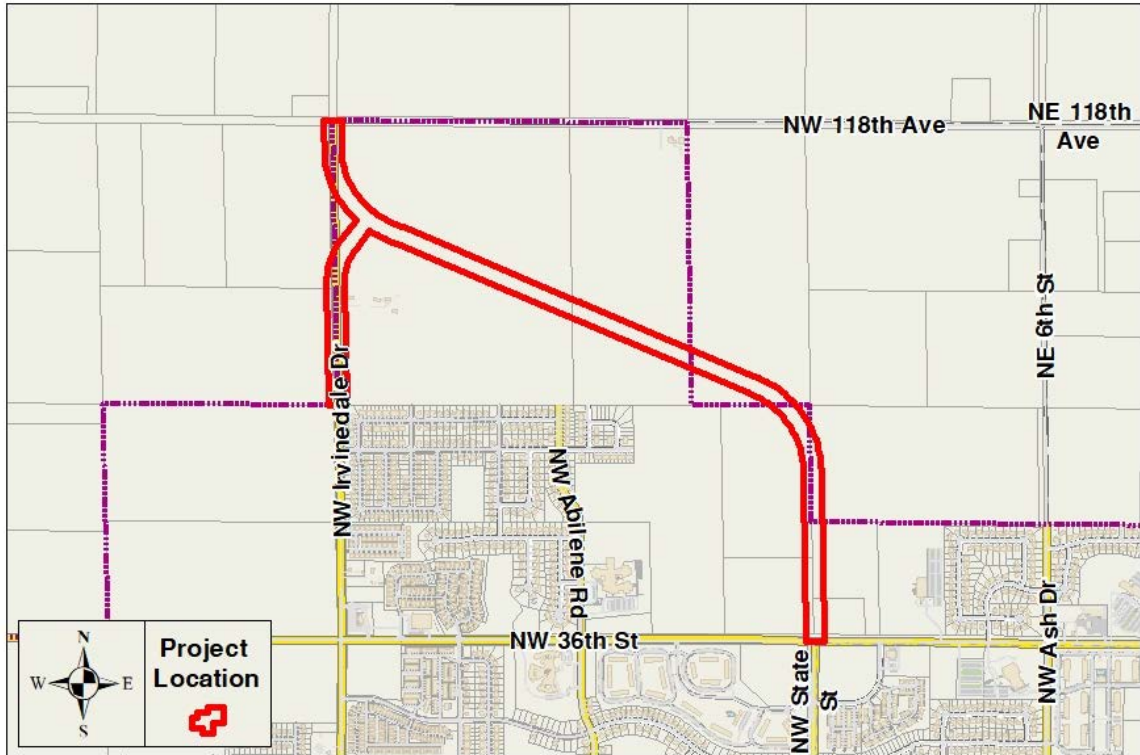
A study was performed in 2017 to evaluate alignments for the NW State Street extension from NW 36th Street to NW Irvinedale Drive at the NW 54th Street/County NW 126th Avenue intersection. The study assessed potential land use, drainage, environmental and access impacts to aid the City in making decisions regarding the street extension and future development. The study identified a preferred horizontal alignment for NW State Street that will be used as the basis for the survey, traffic study and preliminary design.

Expenditures	2023	2024	2025	2026	2027	Total
Planning Study	500,000					500,000
Total	500,000					500,000
Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds	500,000					500,000
Total	500,000					500,000

Budget Impact/Other

Since this is only for the project's preliminary design, there are no operating impacts at this time.

Project # STR-23-004
Project Name NW State Street Extension Preliminary Design



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project # STR-23-005

Project Name S Ankeny Blvd Improvements-SE Peterson to 1st St

Description

This is a joint project with the Iowa Department of Transportation (DOT) to reconstruct South Ankeny Boulevard from SE Peterson Drive to 1st Street. The anticipated work will include the replacement of the aging 4-lane, undivided urban section with a 5-lane, divided, urban section and right turn lanes where applicable. The project will include the replacement of pavement, sidewalk, storm sewer, possibly water main, possibly sanitary sewer, the traffic signal at SE 3rd Street and subsequent fiber optic interconnect. Consultant-led survey, design and utility relocation coordination is expected to occur from 2023 to 2025 with construction programmed for 2026.

Justification

A study was completed in 2020 documenting the traffic operations and safety issues and recommended improvements to South Ankeny Boulevard from SW Ordinance Road to 1st Street. The study also recommended improving access management and safety due to the frequency of access points to adjacent properties. This project is the first phase of improvements to South Ankeny Boulevard. It is anticipated that there will be a future improvement project between SE Peterson Drive and SW Ordinance Road. The Iowa DOT has proposed that the City would manage and pay for the consultant-led survey, design and utility relocation coordination, and the Iowa DOT would manage and pay for the right-of-way acquisition, construction and construction engineering services.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design	200,000	400,000	150,000			750,000
Engineering-Construction Services				500,000		500,000
Construction Costs				5,000,000		5,000,000
Street Lighting				150,000		150,000
Land/ROW Acquisition			225,000			225,000
Total	200,000	400,000	375,000	5,650,000		6,625,000
Funding Sources	2023	2024	2025	2026	2027	Total
FHWA/IDOT Grants			225,000	5,500,000		5,725,000
G.O. Bonds	200,000	400,000	150,000	150,000		900,000
Total	200,000	400,000	375,000	5,650,000		6,625,000

Budget Impact/Other

The Iowa DOT maintains South Ankeny Boulevard/U.S. Highway 69; therefore, it is anticipated that the project will not have an operating impact to the City. Due to the potential for City utility relocations and/or improvements being needed as part of the project, the operating impact to the City will be reviewed further after the preliminary design has been completed.

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 40 years

Category Streets and Alleys

Project #	STR-23-006
Project Name	SW Magazine & State St Intersection Improvements

Description

The project will widen SW Magazine Road to provide a second eastbound through lane on the west leg approach to the intersection with SW State Street. The widening will be on the south side of SW Magazine Road, for approximately 400 feet, and will align with the two existing eastbound receiving lanes on the east side of SW State Street. The median in the west leg will be modified and extended to provide additional left-turn storage, and it will convert the accesses immediately west of SW State Street to right-in/right-out-only operation.

Justification

With the traffic impact study completed to analyze increased traffic volumes associated with proposed developments in Prairie Trail west of the project intersection, an existing capacity issue was identified for eastbound traffic during peak hours. The existing short left-turn lane and single shared thru/right-turn lane do not provide sufficient capacity: long delays and queues are common for eastbound drivers on the west leg. Adding a second thru lane and increasing the length of the left-turn lane will support the overall intersection operation and reduce eastbound delays significantly.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design	60,000					60,000
Engineering-Construction Services		40,000				40,000
Construction Costs		500,000				500,000
Land/ROW Acquisition		10,000				10,000
Total	60,000	550,000				610,000

Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds	60,000	550,000				610,000
Total	60,000	550,000				610,000

Budget Impact/Other

The new pavement area will be relatively small, but it will result in additional pavement and sign maintenance and snow removal costs.

Budget Items	2023	2024	2025	2026	2027	Total
Maintenance Costs			100	100	100	300
Total			100	100	100	300

Project # STR-23-006

Project Name SW Magazine & State St Intersection Improvements



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 20 years

Category Traffic Control

Project # TRF-00-001
Project Name Annual Traffic Signal Improvement Program

Description

Proposed locations of new traffic signals and fiber optic upgrades (listed in order of priority):

2023 – NW 36th Street Fiber Optic Redundancy - \$50,000 (construction and materials, in-house design and administration)
 2023 – High Trestle Trail Crossing Rectangular Rapid Flashing Beacons (RRFB), SE Magazine Drive and SE Shurfine Drive - \$20,000 per site (materials and installation), \$40,000 (total)
 2023 – NW Prairie Ridge Drive/Ash Drive/9th Street intersection, concept study - \$35,000
 2023 – SE Oralabor Road and Convenience Boulevard/Creekview Drive, traffic signal replacement - \$30,000 (consultant design), \$350,000 (construction and materials), and \$20,000 (consultant construction administration and observation)
 2023 – School Walkability Improvements - Pedestrian ramp upgrades - \$100,000; School Speed Zone Beacons (Heritage Elementary School and St. Lukes the Evangelist Catholic School) - \$60,000; Rectangular Rapid Flashing Beacons (3 sets, \$60,000)
 2023 – SE Delaware Avenue and SE 54th Street, new traffic signal - \$80,000 (design and inspection), \$300,000 (construction and materials)
 2024 through 2027 – Traffic signal project, to be determined - \$100,000 (design and inspection), \$450,000 (construction and materials)
 2023 through 2027 – Miscellaneous upgrades associated with other City projects - \$80,000
 2023 through 2027 – Cost sharing for traffic signal improvements related to private development projects - \$300,000
 2024 through 2027 – Existing traffic signal infrastructure replacement - \$250,000
 2024 through 2027 – Traffic signal and fiber optic projects - \$550,000 - \$885,000

Justification

An effective and efficient traffic signal system improves traffic safety and mobility, reduces energy costs and enhances the quality of life for residents. A robust and dependable communication system is key to management of the street network. The proposed locations of traffic signals and fiber optic upgrades are reviewed annually and planning level costs are used. Several traffic signal installations are being constructed with development in 2022 and 2023. Traffic counts in September 2022 and review of crash experience will identify intersections for signalization in year 2024 and beyond. There is potential to obtain federal and/or state funding for traffic signals proposed at intersections with state highways.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design	130,000	100,000	100,000	135,000	150,000	615,000
Construction Costs	1,150,000	890,000	890,000	890,000	1,140,000	4,960,000
Planning Study	35,000					35,000
Total	1,315,000	990,000	990,000	1,025,000	1,290,000	5,610,000

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Project Fund	40,000					40,000
G.O. Bonds	875,000	740,000	740,000	775,000	1,040,000	4,170,000
Road Use Tax Fund	400,000	250,000	250,000	250,000	250,000	1,400,000
Total	1,315,000	990,000	990,000	1,025,000	1,290,000	5,610,000

Budget Impact/Other

In the long-term, additional traffic signal infrastructure will add annual maintenance costs for the City’s Public Works Department. Industry standards recommend one FTE signal technician per 30-35 traffic signals, plus one FTE fiber optic technician per 100 devices. New traffic signals will result in additional electric power costs for the City.

Budget Items	2023	2024	2025	2026	2027	Total
Utilities	4,300	5,500	6,100	6,700	7,300	29,900
Total	4,300	5,500	6,100	6,700	7,300	29,900

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Project # TRF-00-001

Project Name Annual Traffic Signal Improvement Program



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Ankeny

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2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Traffic Control

Project #	TRF-21-001
Project Name	I-35 & SE Corp Woods Dr Interchange Justification

Description

Interchange Justification Report (IJR) as required by the Iowa Department of Transportation (DOT) and Federal Highway Administration (FHWA) for modification or reconstruction of the existing Interstate 35 interchange with SE Corporate Woods Drive.

Justification

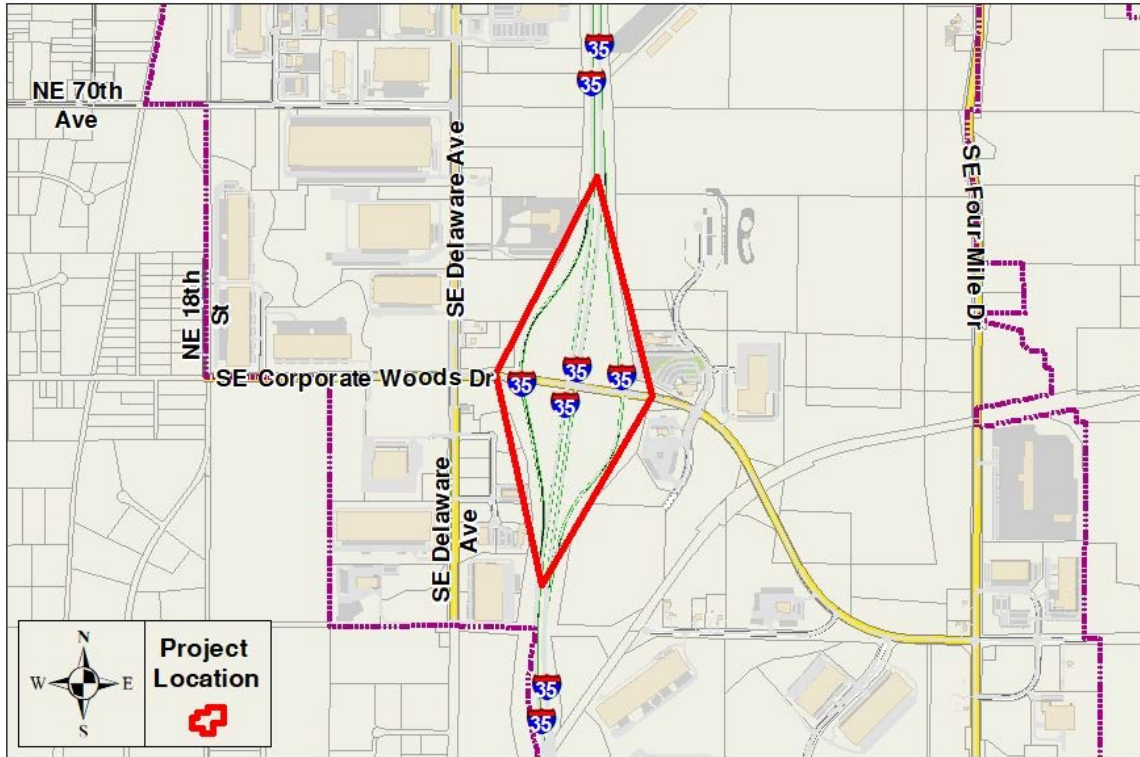
When the Interstate 35 interchange with SE Corporate Woods Drive was constructed in 2004, traffic volumes were expected to reach 19,000 vehicles per day in 2025. Peak hour traffic counts from 2018 indicated the daily traffic volume had already exceeded 22,000 vehicles per day with 7-10% heavy truck traffic. With the on-going and expected industrial, warehousing and distribution land development in the southeast quadrant of the City, additional traffic demands are being placed on the interchange and additional capacity will be needed on entrance and exit ramps and on SE Corporate Woods Drive itself. The initial concept includes widening SE Corporate Woods Drive through the interchange and adding loop ramps for both the northbound and southbound I-35 entrances. The Iowa DOT will manage the project, and the City will cost share for the engineering services necessary to complete the IJR.

Expenditures	2023	2024	2025	2026	2027	Total
Planning Study	100,000					100,000
Total	100,000					100,000
Funding Sources	2023	2024	2025	2026	2027	Total
FHWA/IDOT Grants	50,000					50,000
Road Use Tax Fund	50,000					50,000
Total	100,000					100,000

Budget Impact/Other

The project is a report only, and therefore no operating impacts are expected.

Project # TRF-21-001
Project Name I-35 & SE Corp Woods Dr Interchange Justification



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type Improvement

Useful Life 20 years

Category Traffic Control

Project # TRF-23-001
Project Name Fiber Optic Network Upgrade

Description

This project implements the master fiber optic redundancy needed for both the traffic signal communication network utilized by the Public Works Department and the overall City operations network managed by the Information Technology (IT) Department. The project will place approximately 180,000 feet of fiber optic cable and 100 splice enclosures to implement efficient path-diverse fiber optic rings for primary and secondary communications between traffic signals and between City facilities.

Justification

The Fiber Optic Master Upgrade will implement Phase 1 of the ultimate fiber optic network build-out identified in the Fiber Optic Network Master Plan. The Plan's purpose is to provide a more reliable and maintainable network while allowing flexibility and scalability to support future growth and expanded use of technology. Completing the improvements as a nearly-single project will reduce the "lost" costs associated with completing multiple smaller segments, and it will result in a more robust system overall. This project will also replace much of the fiber optic infrastructure construction or relocation included with other future capital improvement projects, except as needed for expansion to new areas or facilities. At this time, the planning-level cost estimates are broad and conservative, and it is expected that preliminary design in 2023 will provide numerous opportunities for value engineering. The proposed schedule includes final design and purchase of fiber optic cable and conduit in 2024, with construction of the conduit system in 2025 and 2026, followed by fiber optic cable placement, splicing, and terminating the fiber in 2027. Applying for Iowa Clean Air Attainment Program (ICAAP) funding for the project will be considered.

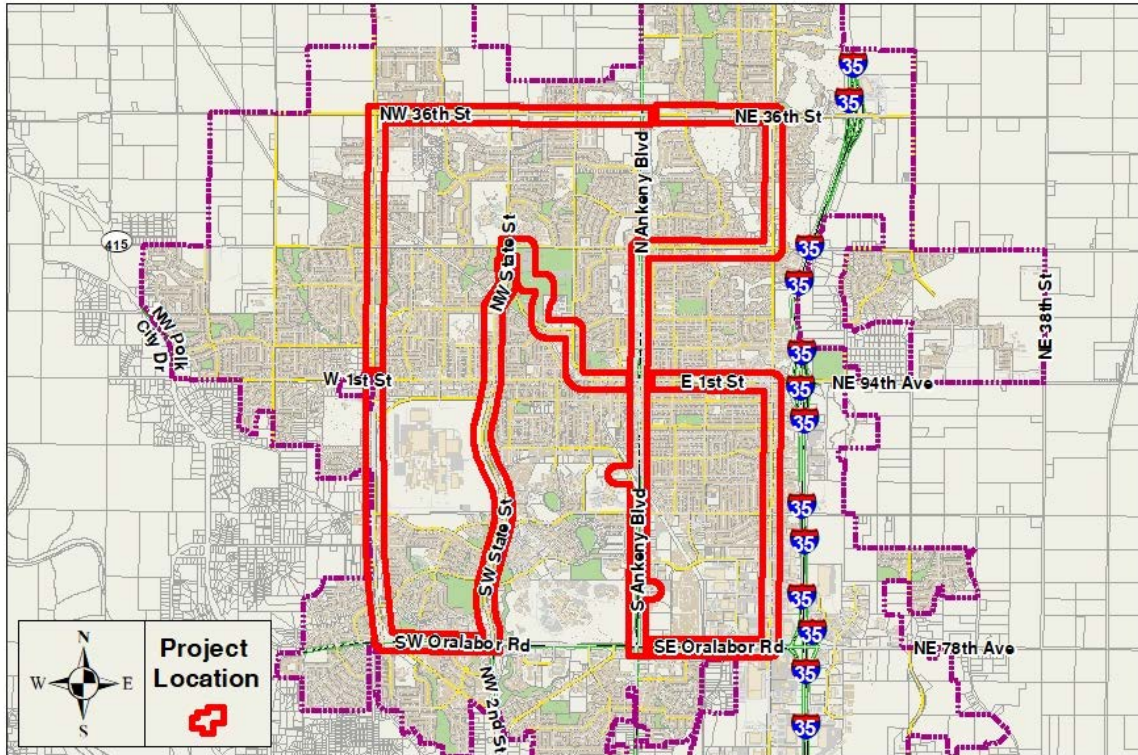
Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design	200,000	200,000				400,000
Engineering-Construction Services			30,000	30,000	60,000	120,000
Construction Costs			470,000	470,000	850,000	1,790,000
Other Costs		425,000				425,000
Total	200,000	625,000	500,000	500,000	910,000	2,735,000
Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds	200,000	625,000	500,000	500,000	910,000	2,735,000
Total	200,000	625,000	500,000	500,000	910,000	2,735,000

Budget Impact/Other

The project upgrades the City's existing fiber optic system to provide more reliable service and reduce outages, so a minimal impact to operating costs is expected.

Project # TRF-23-001

Project Name Fiber Optic Network Upgrade



2023 - 2027 Capital Improvement Program

2023 thru 2027

City of Ankeny, Iowa

Department Public Works

Contact City Engineer

Type New Construction

Useful Life 20 years

Category Traffic Control

Project #	TRF-23-002
Project Name	SE Corporate Woods & Crosswinds Traffic Signal

Description

The project includes design and construction of a traffic signal at the SE Corporate Woods Drive and SE Crosswinds Drive intersection.

Justification

The project will fulfill the City’s commitment established in the development agreement with Crosswinds Business Park Building I, LLC (developer) in March 2021, to construct a traffic signal at the intersection of SE Corporate Woods Drive and SE Crosswinds Drive when needed and warranted. Developer agreed to provide any right-of-way and/or easements needed for the project at no cost to the City and to reimburse the City for 25% of the traffic signal construction cost. The maximum reimbursement amount is adjusted for inflation over ten years.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design	40,000					40,000
Engineering-Construction Services		5,000				5,000
Construction Costs		280,000				280,000
Other Costs		100,000				100,000
Total	40,000	385,000				425,000

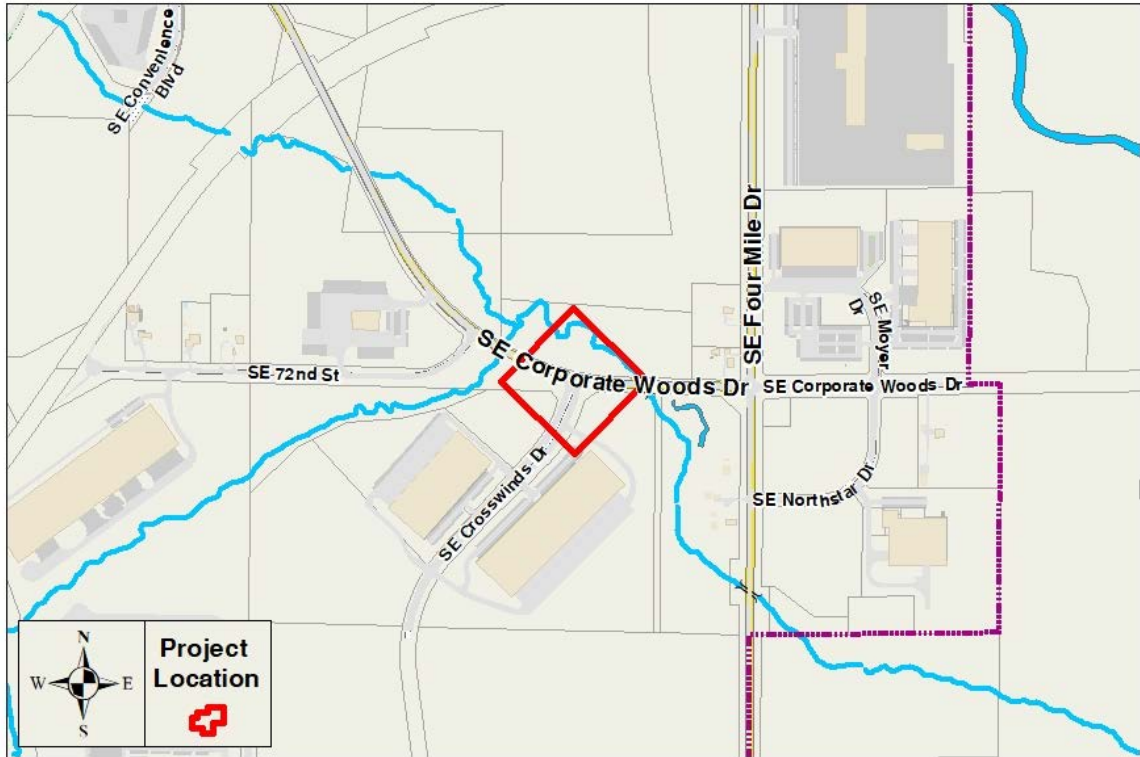
Funding Sources	2023	2024	2025	2026	2027	Total
G.O. Bonds	40,000	305,000				345,000
Private Contributions		80,000				80,000
Total	40,000	385,000				425,000

Budget Impact/Other

In the long-term, the additional traffic signal infrastructure will add annual maintenance costs for the City’s Public Works Department. Industry standards recommend one FTE signal technician per 30-35 traffic signals, plus one FTE fiber optic technician per 100 devices. The new traffic signal will result in additional electric power costs for the City.

Budget Items	2023	2024	2025	2026	2027	Total
Utilities			300	300	300	900
Total			300	300	300	900

Project #	TRF-23-002
Project Name	SE Corporate Woods & Crosswinds Traffic Signal



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Project # WTM-00-001

Project Name Annual Water Main Replacement Program



city of
Ankeny

bringing it all together

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 40 years
Category Water Mains

Project #	WTM-17-001
Project Name	High Trestle Trail Transmission Main

Description

Install approximately 9,900 LF of 24" transmission water main along the High Trestle Trail and abandoned railroad grade from the Ash Water Tower north to NW 18th Street and then west along NW 18th Street to NW Irvinedale Drive. This project will complete the 24" water main loop to the NW Booster Station. This project will be coordinated with a storm water project in the same area.

Justification

The purpose of this project is to improve the performance and operation of our overall water system by allowing the southwest and east pressure zones to be combined into one zone. This transmission main will allow the NW Booster Station to draw suction supply water from both water towers as needed. This will supply the booster station with adequate water for full build out of the area in the northwest quadrant of Ankeny.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Construction Services	386,000					386,000
Construction Costs	3,860,000					3,860,000
Land/ROW Acquisition	8,000					8,000
Total	4,254,000					4,254,000

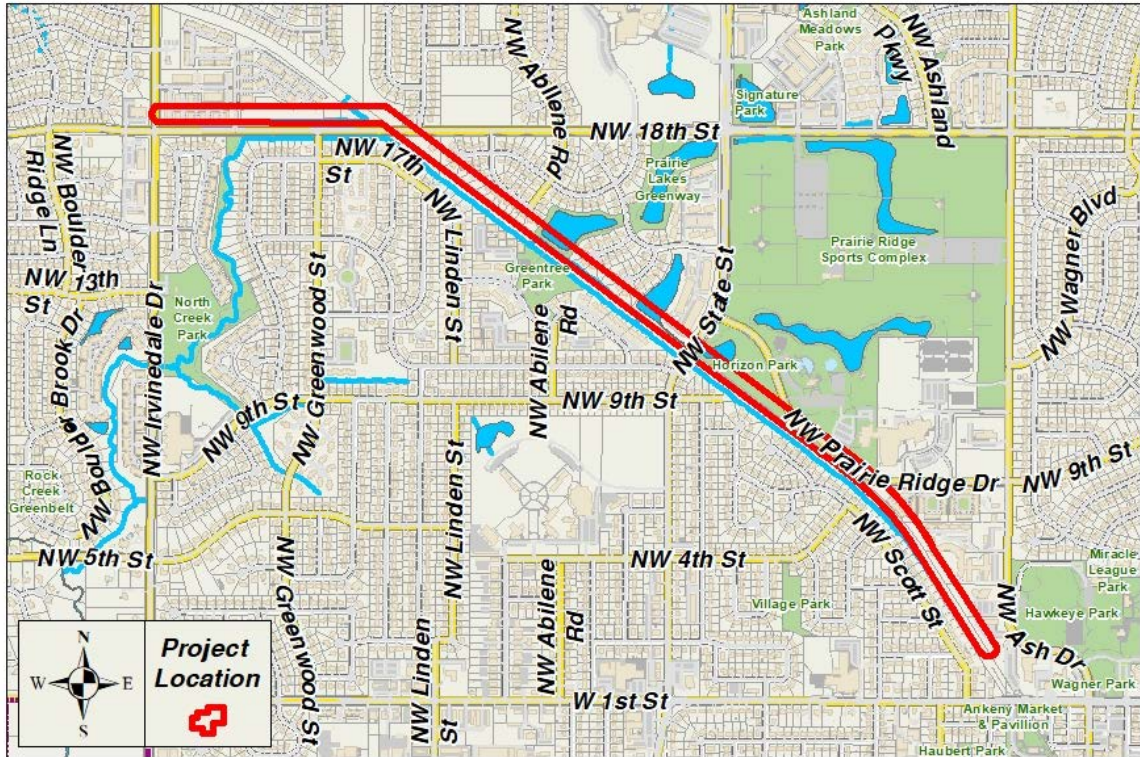
Funding Sources	2023	2024	2025	2026	2027	Total
Capital Project Fund	4,254,000					4,254,000
Total	4,254,000					4,254,000

Budget Impact/Other

This is a new transmission main, it is not a replacement. Based on the HDR model, we will no longer have to throttle flows from DMWW to fill or drain the SW Water Tower now that we will have a looped 24" transmission main. Both towers should operate as one and we will only have two pressure zones including the normal city pressure we have always had and the boosted pressure in the northwest part of town. It will take almost 2,800,000 gallons to fill and flush the new main.

Budget Items	2023	2024	2025	2026	2027	Total
Utilities	8,400					8,400
Total	8,400					8,400

Project #	WTM-17-001
Project Name	High Trestle Trail Transmission Main



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Type Improvement

Useful Life 40 years

Category Water Mains

Project # WTM-17-008

Project Name Saylorville Feeder Main Purchase Capacity

Description

Purchase the remaining capacity in the Saylorville Water Treatment Plant north feeder main, which is an existing 24" transmission main that extends north along NW 26th Street from NW 66th Avenue through our meter pit to SW Oralabor Road. Des Moines Water Works (DMWW) has extended a new 20" water main to provide water to Polk City allowing all of the 24" main to be used to supply water to the City of Ankeny.

Justification

The purpose of this purchase is to provide additional transmission pipe capacity to support future water needs in the City.

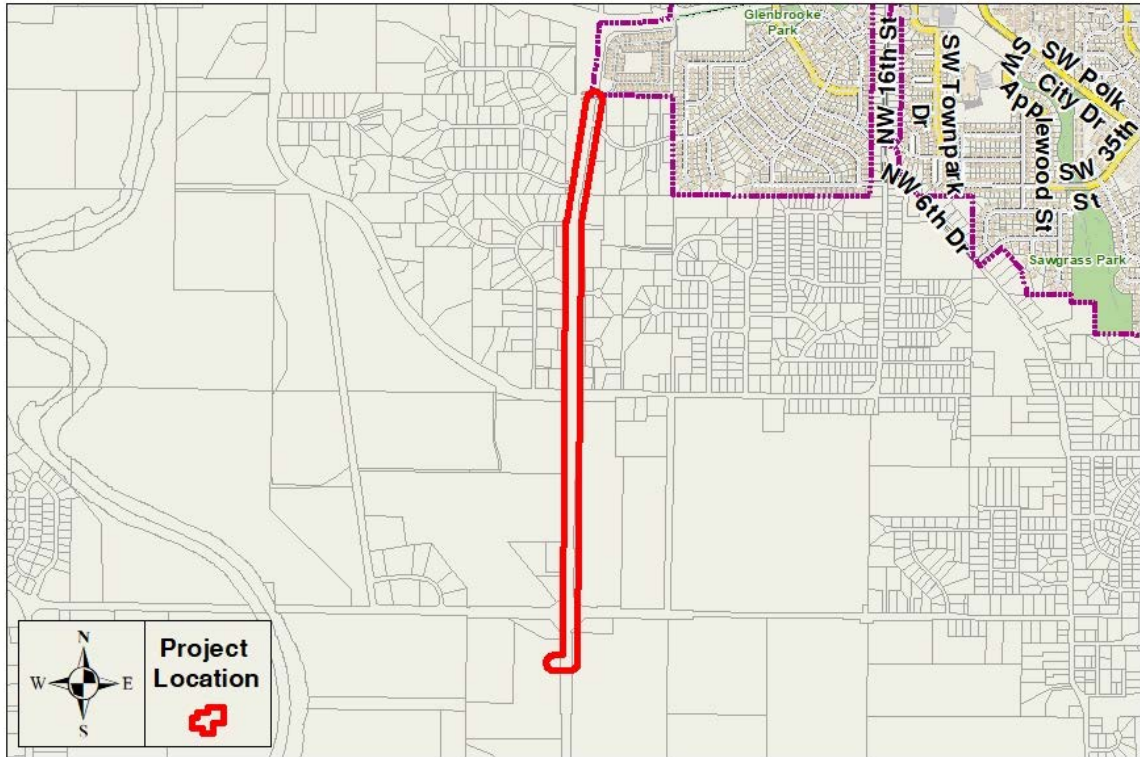
Expenditures	2023	2024	2025	2026	2027	Total
Legal-General/Spec. Assessment		1,000				1,000
Other Costs		603,000				603,000
Total		604,000				604,000

Funding Sources	2023	2024	2025	2026	2027	Total
Water Revenue Bonds		604,000				604,000
Total		604,000				604,000

Budget Impact/Other

Additional source capacity for future growth and water demands. Since we are just purchasing the remaining capacity within the existing 24" water main, there are no expected costs for an operational impact.

Project #	WTM-17-008
Project Name	Saylorville Feeder Main Purchase Capacity



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 40 years
Category Water Mains

Project #	WTM-18-001
Project Name	South Ankeny Boulevard Transmission Main

Description

Install approximately 5,500 LF of 24" transmission main along South Ankeny Boulevard from SW Magazine Road south to SE Oralabor Road and a new main across Ankeny Boulevard. This section of transmission main will complete the line from our Polk County meter pit to the Ash Water Tower.

Justification

This section of 24" transmission main will loop both of our 24" connections to DMWW source water. This line connects all of our water towers and the NW Booster station with a redundant source water. This allows us to have non-interrupted source water if any of the pump stations or transmission mains are out of service.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Construction Services	227,000					227,000
Construction Costs	2,710,000					2,710,000
Land/ROW Acquisition	13,000					13,000
Total	2,950,000					2,950,000

Funding Sources	2023	2024	2025	2026	2027	Total
Water Revenue Bonds	2,950,000					2,950,000
Total	2,950,000					2,950,000

Budget Impact/Other

This is a new transmission main, it is not a replacement. The existing distribution mains will remain in service after this project is complete. Larger diameter mains have fewer valves and hydrants installed, theoretically reducing maintenance cost. Because of the nature of a transmission main the water contained in them is almost constantly in motion, so the water quality should remain high. It will take almost 1,550,000 gallons to fill and flush the new main.

Budget Items	2023	2024	2025	2026	2027	Total
Utilities	4,650					4,650
Total	4,650					4,650

Project #	WTM-18-001
Project Name	South Ankeny Boulevard Transmission Main



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 40 years
Category Water Mains

Project #	WTM-19-001
Project Name	South Ankeny Boulevard Water Main Improvements

Description

Install approximately 3,150 LF of 16" water main extension along the east side of South Ankeny Boulevard from just north of SW Ordinance Road to SE 3rd Street. This project will provide increased reliability within the transmission/distribution system within this area of the City. The project will utilize both open-cut and trenchless construction, in order to minimize disruption to the existing businesses along South Ankeny Boulevard.

Justification

Existing waterlines within the subject area have experienced frequent breaks due to age. Construction of this transmission main will help maintain system pressure and reduce maintenance issues within the service area.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design			222,000			222,000
Engineering-Construction Services				148,000		148,000
Construction Costs				1,880,000		1,880,000
Total			222,000	2,028,000		2,250,000

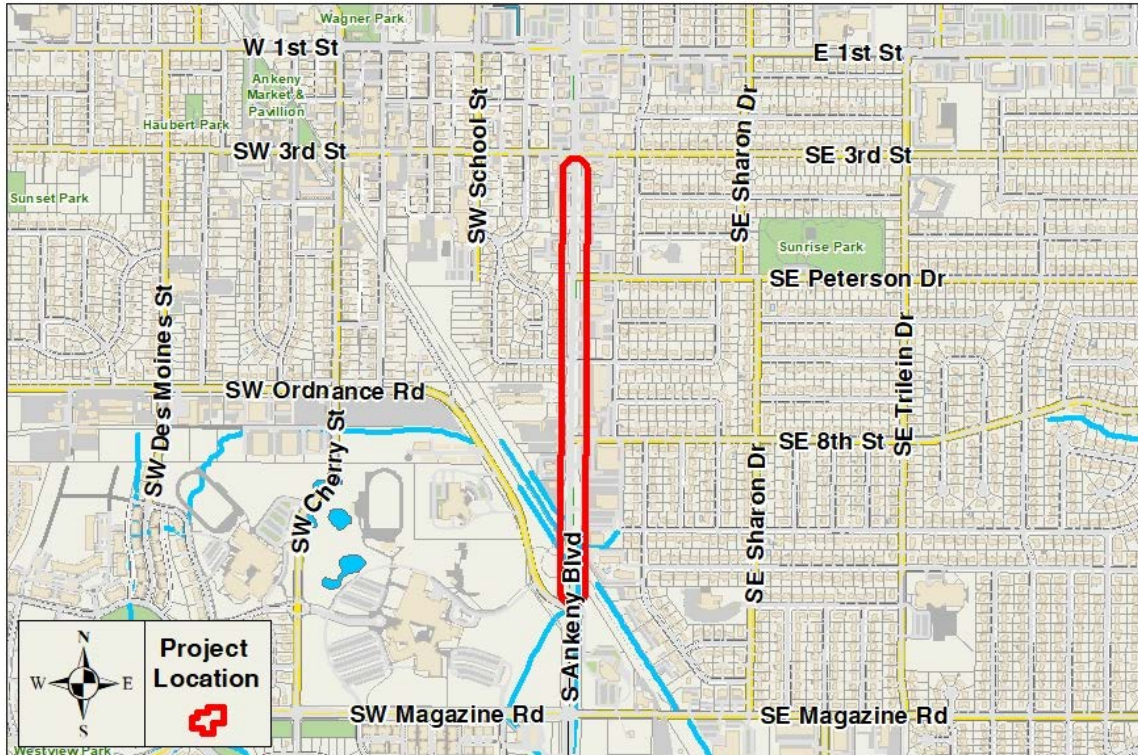
Funding Sources	2023	2024	2025	2026	2027	Total
Water Revenue Bonds			222,000	2,028,000		2,250,000
Total			222,000	2,028,000		2,250,000

Budget Impact/Other

This project can reduce the frequency of maintenance of the pumps at the Magazine Pump Station as they will not have to work as hard to get water into our distribution system. Less friction loss in larger diameter pipes means pumps will not have to work at higher internal pressures, reducing wear and tear and possibly lowering electrical costs due to lower amp draw. It will take about 197,500 gallons to fill and flush the new main.

Project # WTM-19-001

Project Name South Ankeny Boulevard Water Main Improvements



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 40 years
Category Water Mains

Project #	WTM-19-003
Project Name	NW State Street Water Main Improvements

Description

Install approximately 2,800 LF of 12" distribution water main on the west side of NW State Street from West 1st Street to NW 10th Street. There is an existing 6" water main in this section that needs to be upsized.

Justification

The purpose of this project is to connect the 12" distribution water main along NW State Street from West 1st Street to NW 10th Street in order to remove a bottleneck during high water demand periods and improve fire flows northwest of this location.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design				125,000		125,000
Engineering-Construction Services					110,000	110,000
Construction Costs					1,165,000	1,165,000
Total				125,000	1,275,000	1,400,000

Funding Sources	2023	2024	2025	2026	2027	Total
Water Fund				125,000		125,000
Water Revenue Bonds					1,275,000	1,275,000
Total				125,000	1,275,000	1,400,000

Budget Impact/Other

This project was included in the 2016 Water Study Master Plan and the operating impact will have negligible cost implications as it will mostly help the fire flows in the area. It will also take about 400,000 gallons to fill and flush the new main.

Budget Items	2023	2024	2025	2026	2027	Total
Utilities					1,200	1,200
Total					1,200	1,200

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

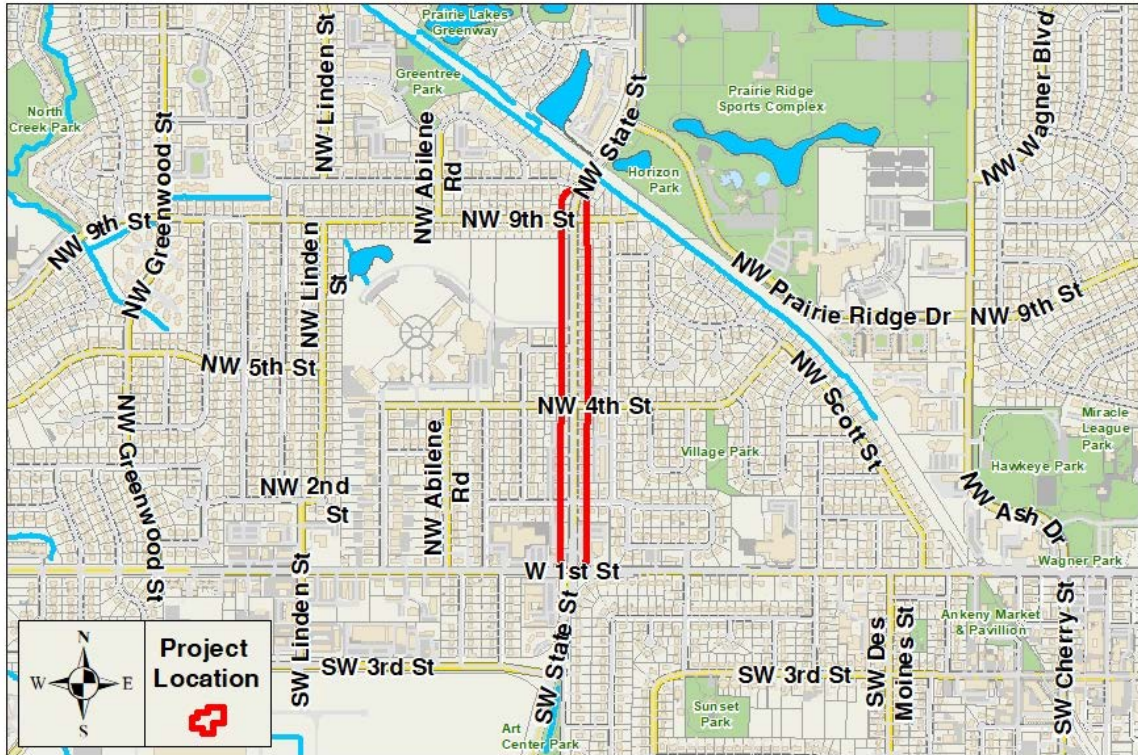
City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Project # WTM-19-003

Project Name NW State Street Water Main Improvements



2023 - 2027 Capital Improvement Program

2023 thru 2027

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 40 years
Category Water Mains

Project #	WTM-20-002
Project Name	SW Walnut Street and SW Ordinance Road Water Main

Description

Install approximately 3,600 LF of 8" water main on along the west side of SW Walnut Street from SW 3rd Street to the north side of SW Ordinance Road, and along SW Ordinance Road from SW Cherry Street to an existing main adjacent to the police station. The project will provide increased reliability of the transmission/distribution system within this area, as the main will be upsized from 4" to 8". The project will utilize open cut construction, and a temporary water supply system will be utilized to keep the existing homes within the area in service.

Justification

The existing 4" water main within the area is undersized by current standards. Installation of the larger water main, along with connection to surrounding main(s) provides a reliable looped system and helps to maintain better distribution system pressures and fire flows within the area.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design		211,000				211,000
Engineering-Construction Services			141,000			141,000
Construction Costs			1,423,000			1,423,000
Total		211,000	1,564,000			1,775,000
Funding Sources	2023	2024	2025	2026	2027	Total
Water Revenue Bonds		211,000	1,564,000			1,775,000
Total		211,000	1,564,000			1,775,000

Budget Impact/Other

The operating impact will have negligible cost implications as it will primarily help the fire flows in the area. It will take about 56,500 gallons to fill and flush the new main.

Project # WTM-20-002

Project Name SW Walnut Street and SW Ordnance Road Water Main



2023 - 2027 Capital Improvement Program

2023 thru 2027

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 40 years
Category Water Mains

Project #	WTM-21-009
Project Name	NE 36th St and NE 38th St Water Main Loop

Description

The NE 36th Street and NE 38th Street water main loop project will include installation of approximately 11,500 LF of 16" water main on the south side of NE 36th Street and the west side of NE 38th Street to create a loop between the 16" water main that ends north of NE 18th Street along NE 38th Street and the 16" water main along NE 36th Street.

Justification

This project will connect the 16" distribution main near the intersection of NE 36th Street and NE Four Mile Drive to the 16" distribution main near the intersection of NE 18th Street and NE 38th Street. This will improve fire flows and provide a redundant water main connection that will allow future repairs to be done with minimal impact to the surrounding properties.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design	250,000					250,000
Engineering-Construction Services		250,000				250,000
Construction Costs		2,472,000				2,472,000
Land/ROW Acquisition	3,000					3,000
Total	253,000	2,722,000				2,975,000

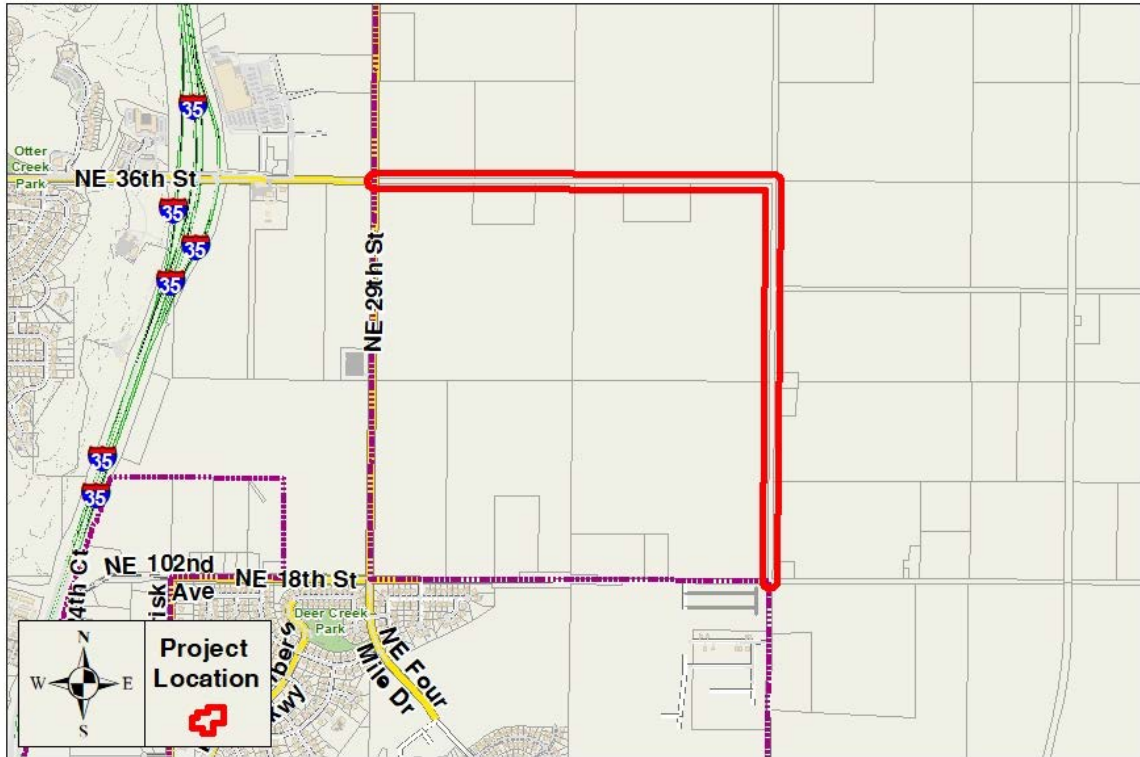
Funding Sources	2023	2024	2025	2026	2027	Total
Water Fund	253,000					253,000
Water Revenue Bonds		2,722,000				2,722,000
Total	253,000	2,722,000				2,975,000

Budget Impact/Other

It will require about 720,000 gallons of water to fill and flush the new main.

Budget Items	2023	2024	2025	2026	2027	Total
Utilities		2,160				2,160
Total		2,160				2,160

Project # WTM-21-009
Project Name NE 36th St and NE 38th St Water Main Loop



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type New Construction
Useful Life 40 years
Category Water Towers/Storage

Project #	WTT-19-002
Project Name	Northwest Water Tower

Description

Construct a new 2.5 million gallon elevated water storage tank in the NW quadrant of the City to provide additional water storage and more reliable water pressure and flow to the NW quadrant of the City.

Justification

The site for this future water tower, located just north of NW 36th Street on the east side of NW Irvinedale Drive, was selected and purchased in 2018.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Construction Services	400,000					400,000
Construction Costs	10,520,000					10,520,000
Vehicle/Equipment	25,000					25,000
Total	10,945,000					10,945,000

Funding Sources	2023	2024	2025	2026	2027	Total
Water Revenue Bonds	10,945,000					10,945,000
Total	10,945,000					10,945,000

Budget Impact/Other

This project will provide some savings in electricity and maintenance of the pumps at the NW Booster Station as they will not need to work as hard to maintain pressure within the northwest portion of the City as the tower will reduce fluctuation in pressure based on the elevation of the water in the tank versus the continuous change in pressure from the pumps. Filling and flushing of mains and the new NW Water Tower would take approximately 5,000,000 gallons of water.

Budget Items	2023	2024	2025	2026	2027	Total
Utilities		15,000				15,000
Total		15,000				15,000

2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Water Utility

Contact Municipal Utilities Director

Project #	WTT-19-002
Project Name	Northwest Water Tower



2023 - 2027 Capital Improvement Program

2023 *thru* 2027

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type Maintenance
Useful Life 20 years
Category Water Towers/Storage

Project #	WTT-20-001
Project Name	SE Delaware Ground Storage Tank Repaint

Description

This project is to repaint the interior and exterior of the SE Delaware Ground Storage Tank. The existing paint is starting to show signs of wear as the usefulness of the existing coating is breaking down. Typically, one can expect painted surfaces to last in the 15-20 year range. This ground storage tank was last painted around the year 2000.

Justification

This project is needed to maintain the ability to provide safe and potable drinking water to Ankeny residents. Dixon Engineering completed a maintenance inspection and made recommendations to bring the tank into compliance with DNR rules and re-coat the exterior with containment system. This tank is showing signs of streaking and spotting rust in areas. A dry abrasive blast cleaning will be required to remove the existing coatings; overcoating is not recommended due to the age of the existing coatings.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design	60,000					60,000
Construction Costs	307,000					307,000
Total	367,000					367,000

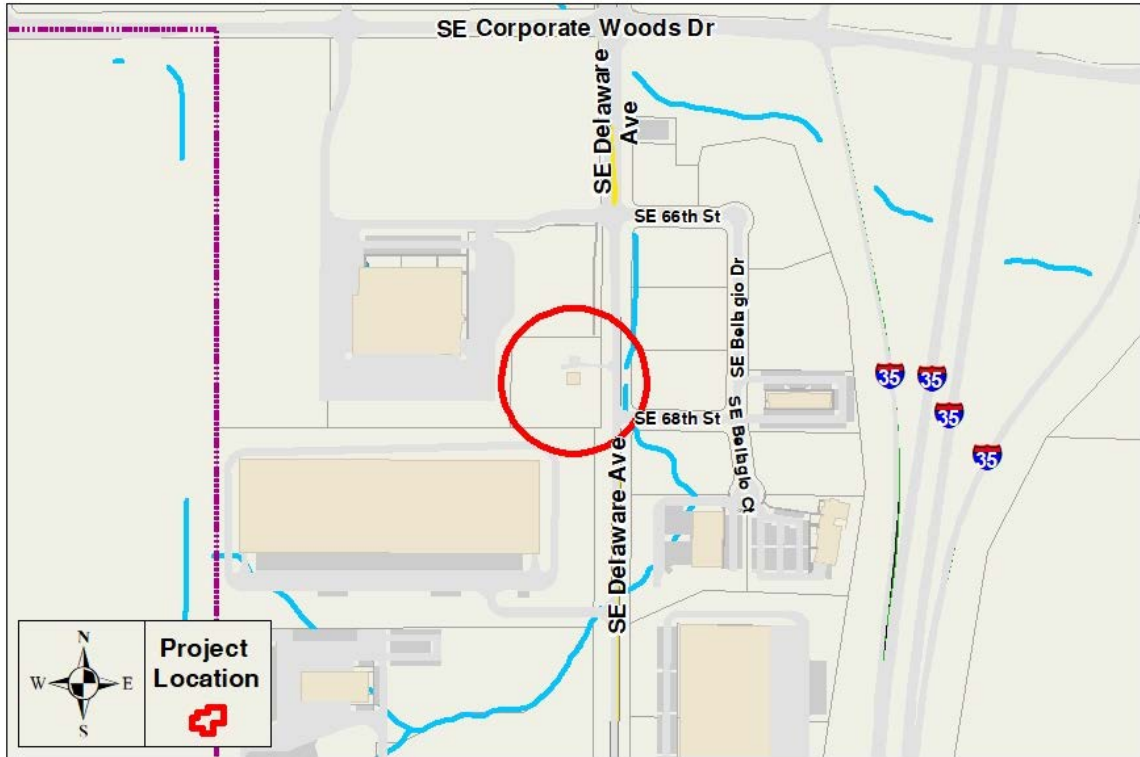
Funding Sources	2023	2024	2025	2026	2027	Total
Water Fund	367,000					367,000
Total	367,000					367,000

Budget Impact/Other

The operating impact will include approximately 150,000 gallons to flush out the existing tank.

Budget Items	2023	2024	2025	2026	2027	Total
Utilities	450					450
Total	450					450

Project #	WTT-20-001
Project Name	SE Delaware Ground Storage Tank Repaint



2023 - 2027 Capital Improvement Program

2023 thru 2027

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type Maintenance
Useful Life 20 years
Category Water Towers/Storage

Project #	WTT-20-002
Project Name	SE Magazine Ground Storage Tank Repaint

Description

This project is to repaint the interior and exterior of the SE Magazine Ground Storage Tank. The existing paint is starting to show signs of wear as the usefulness of the existing coating is breaking down. Typically, one can expect painted surfaces to last in the 15-20 year range. This ground storage tank was last painted around the year 2002.

Justification

This project is needed to maintain the ability to provide safe and potable drinking water to Ankeny residents. Dixon Engineering completed a review of our existing water storage infrastructure and made recommendations to recoat both the interior and exterior of the SE Magazine Ground Storage Tank. This tank is showing signs of streaking and spotting rust in areas on both surfaces. A dry abrasive blast cleaning will be required to remove the existing coatings; overcoating is not recommended due to the age of the existing coatings.

Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design	50,000					50,000
Engineering-Construction Services		42,000				42,000
Construction Costs		612,000				612,000
Total	50,000	654,000				704,000

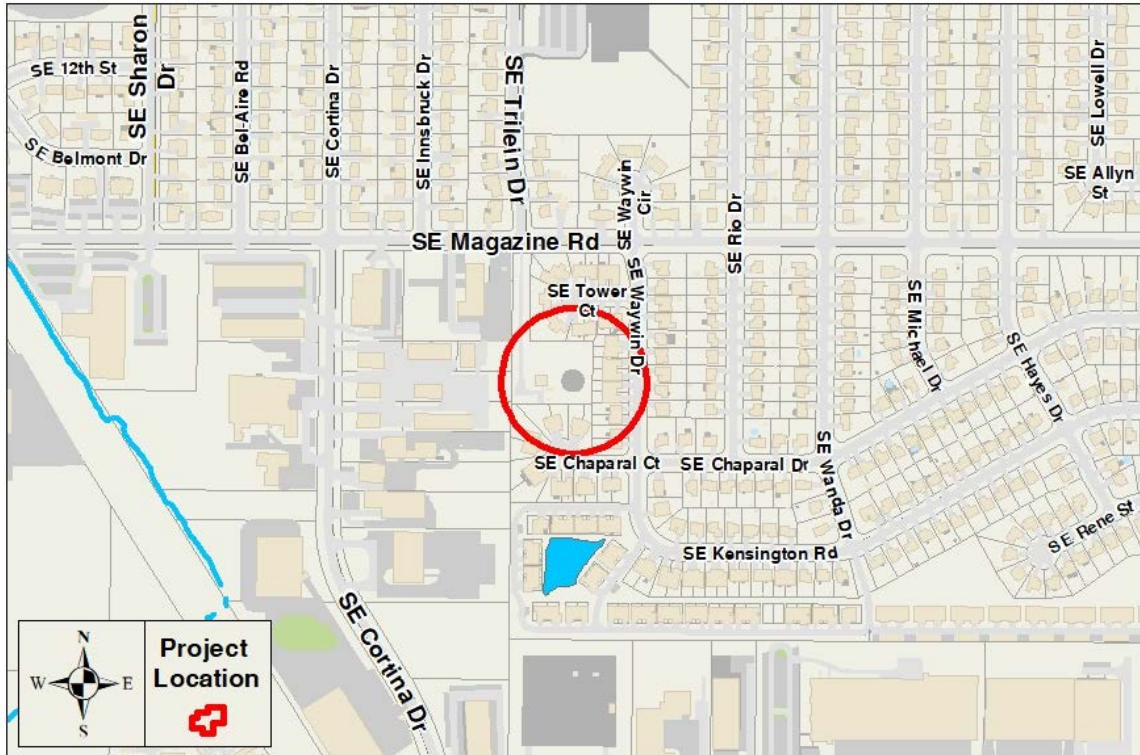
Funding Sources	2023	2024	2025	2026	2027	Total
Water Fund	50,000					50,000
Water Revenue Bonds		654,000				654,000
Total	50,000	654,000				704,000

Budget Impact/Other

The operating impact will include approximately 300,000 gallons to flush out the existing tank.

Budget Items	2023	2024	2025	2026	2027	Total
Utilities		900				900
Total		900				900

Project #	WTT-20-002
Project Name	SE Magazine Ground Storage Tank Repaint



2023 - 2027 Capital Improvement Program

2023 thru 2027

City of Ankeny, Iowa

Department Water Utility
Contact Municipal Utilities Director
Type Improvement
Useful Life 20 years
Category Water Towers/Storage

Project #	WTT-23-001
Project Name	SW Irvinedale Elevated Storage Tank Repaint

Description

This project is to repaint the interior and exterior of the SW Irvinedale Elevated Storage Tank. The existing paint is starting to show signs of wear as the usefulness of the existing coating is breaking down. Typically, one can expect painted surfaces to last in the 15-20 year range. With the exception of interior spot repairs in 2020, this tower has not been repainted since it was installed in 2009.

Justification

This project is needed to maintain the ability to provide safe and potable drinking water to Ankeny residents. The existing the paint has some spot failures, showing signs of streaking and spotting rust on both surfaces, and the exterior topcoat shows signs of delamination. To overcoat this facility, it would require a brush blast to rough up the existing surface to allow for a better bonding of new coating to existing coating.

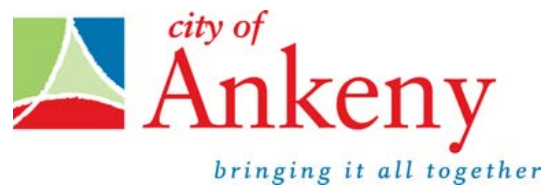
Expenditures	2023	2024	2025	2026	2027	Total
Engineering-Design				90,000		90,000
Engineering-Construction Services					77,000	77,000
Construction Costs					1,110,000	1,110,000
Total				90,000	1,187,000	1,277,000

Funding Sources	2023	2024	2025	2026	2027	Total
Water Fund				90,000		90,000
Water Revenue Bonds					1,187,000	1,187,000
Total				90,000	1,187,000	1,277,000

Budget Impact/Other

The operating impact will include approximately 1,500,000 gallons to flush out the existing tank.

Budget Items	2023	2024	2025	2026	2027	Total
Utilities					4,500	4,500
Total					4,500	4,500



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